

December 4-6, 2024

**Team Number: 15** 

**Enphase Energy, Inc. (Nasdaq GM: ENPH)** 

**Current Price: \$66 (11/24/2024)** 

1-Year Price Target: \$82 (+24%)

Students: Vincent Chiu, Nikhita Ganesh, Jessica Liu



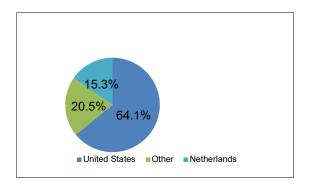
# **Agenda**

- 1. Company Overview
- 2. Industry Overview
- 3. Investment Thesis 1
- 4. Investment Thesis 2
- 5. Valuation
- 6. Appendix



# **Company Overview**

- Company founded in 2006
- Enphase has shipped approximately 78.0 million microinverters, and over 4.5 million Enphasebased systems have been deployed in more than 160 countries
- The company has a strong presence in residential solar markets and is expanding globally, with growth in regions like North America, Europe, and Australia. Enphase stands out for its technological innovation in microinverters and integrated solutions, positioning it as a leader in the solar and energy storage sectors. Its financial performance has been strong, driven by increasing demand for renewable energy and energy independence.
- Catalyzed solar industry with transformative microinverter technology, which converts sunlight into a safe, reliable, and scalable energy source
  - Works with virtually every solar panel made, creating one of the industry's bestperforming clean energy systems when paired with award-winning smart battery technology





# **Industry Overview**

- Enphase operates in the renewable energy industry, specifically within the solar energy and energy storage sectors.
- While the company specializes in **microinverters** and **energy management solutions**, its competition spans both **solar inverter manufacturers** (such as SolarEdge, SMA, and LG) and **energy storage companies** (like SunPower).
- According to the International Energy Agency (IEA), solar is expected to continue its rise as one of the most widely deployed renewable energy technologies globally. Enphase stands to benefit from this broader trend as a key player in solar energy hardware and software.

# **Competitors**

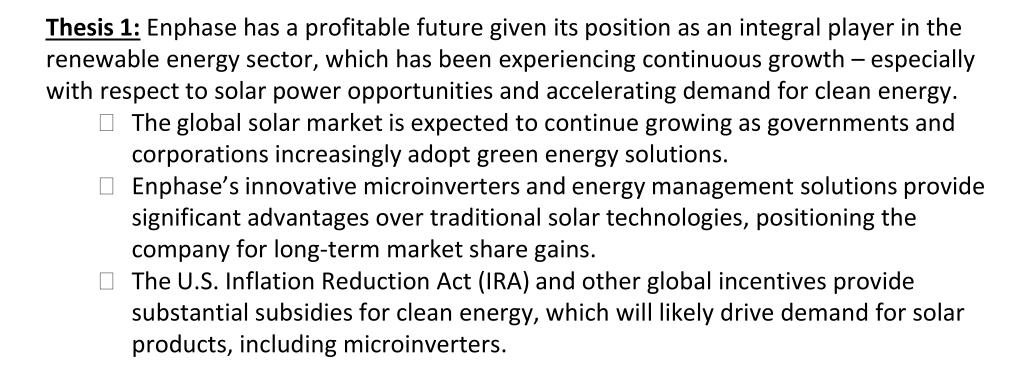














# Summary of DCF Assumptions and Output

|                       | Downside           | Base               | Upside            |
|-----------------------|--------------------|--------------------|-------------------|
| Year 5 Revenue (CAGR) | ■ \$2,529 M (2.0%) | • \$2,854 M (4.5%) | • \$3,138M (6.5%) |
| Year 5 EBITDA (CAGR)  | ■ \$592 M (2.0%)   | • \$668 M (5.5%)   | ■ \$735 M (6.5%)  |
| WACC                  | <b>11%</b>         | <b>11%</b>         | <b>1</b> 1%       |
| Terminal EBITDA       | ■ 20x              | ■ 22x              | ■ 24x             |
| Implied Share Price   | <b>-</b> ~\$68     | <b>-</b> ~\$82     | • ~\$96           |







# **Appendix**



# **Appendix: Key Management Overview**

| Name                         | Title                                   | Years at Enphase/ Industry                    | Experience  |
|------------------------------|---|---|---|
| Badrinarayanan Kothandaraman | President&CEO                           | 7 years at enphase, ~29 years in industry     | Badri joined Enphase in April 2017 as Chief Operating Officer.  He became President and CEO in September 2017.  Leading Enphase as CEO, likely driving its vision, strategy, and growth in the renewable energy sector.  His semiconductor background, including expertise in product development, has likely influenced Enphase's advancements in technology and innovation.  Acting as President and CEO of Enphase, overseeing the company's operations, strategy, and leadership.D3   |
| Mandy Yang                   | EVP and CFO                             | 6 years at enphase, 20 years in industry      | Mandy joined Enphase in 2018 as Chief Accounting Officer and Corporate Treasurer.  She has held the role of Chief Accounting Officer and Corporate Treasurer since joining in 2018.  Leveraging her expertise in accounting, financial reporting, treasury, and tax to enhance Enphase's financial operations and reporting standards.  Drawing on her extensive experience in the energy management and solar technology sectors to contribute to the company's financial strategy and compliance.  Bachelor's degree in International Business from National Taiwan University.  M.B.A. in Finance and Accounting from the University of Illinois at Urbana-Champaign.  Certified Public Accountant in California and a Chartered Financial Analyst.  |
| David Ranhoff                | EVP and CCO                             | 7 years at enphase, over 30 years in industry | He was appointed Chief Commercial Officer (CCO) in 2017 and served in that capacity until July 2024. Currently serves as a commercial advisor at Enphase.  As CCO, he was responsible for Enphase's sales, marketing, and services, likely driving revenue growth and strengthening the company's market presence during his tenure.  President and CEO of GCL Solar Materials before joining Enphase.  President of the Solar Materials group at SunEdison, which GCL acquired in early 2017.  Senior Vice President of Sales and Marketing for solar materials and semiconductor divisions at SunEdison.  Joined SunEdison through its acquisition of Solaicx, where he served as President and CEO.  President and CEO at Credence Systems, holding roles such as COO, EVP of Sales and Marketing, and Managing Director of European Operations during his 20-year career there. |
| Raghu Belur                  | SVP, Co-Founder, Chief Products Officer | 18 years at enphase, 25+ years in industry    | Co-founded Enphase Energy with Martin Fornage in 2006.  Over 25 years of experience in the clean energy and high technology industries.  Has been instrumental in developing Enphase's integrated energy system, which includes solar generation, storage, monitoring, and control.  Prior experience includes:  Developing high-speed optical communication technology at Cerent, later acquired by Cisco Systems.  Engineering work at the Indian Institute of Science, contributing to the development of an alternative energy gasification system.  Academic background:  M.S. in Electrical Engineering from Texas A&M University.  MBA from the Haas School of Business at U.C. Berkeley.  |



# **Appendix: Income Statement**

| Standardized As-Reported Search  | h for an item  | Q        |         |         |         |         |         |         |         |         |         |   |
|----------------------------------|----------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|
| GAAP/IFRS Non-GAAP Supplem       | nental Growt   | h Common | Size    |         |         |         |         |         |         |         |         |   |
| GAAP/IFRS Income Statement       |                |          |         |         |         |         |         |         |         |         |         | ک |
| <b>ૄ · ↑ ∅</b>                   | SEP '24<br>LTM | DEC '23  | DEC '22 | DEC '21 | DEC '20 | DEC '19 | DEC '18 | DEC '17 | DEC '16 | DEC '15 | DEC '14 |   |
| ∨ Sales                          | 1,250.2        | 2,290.8  | 2,330.9 | 1,382.0 | 774.4   | 624.3   | 316.2   | 286.2   | 322.6   | 357.2   | 343.9   |   |
| > Cost of Goods Sold (COGS) incl | 680.1          | 1,249.8  | 1,372.1 | 827.6   | 430.6   | 403.1   | 221.7   | 230.1   | 264.6   | 249.0   | 230.9   |   |
| ✓ Gross Income                   | 570.2          | 1,041.0  | 958.8   | 554.4   | 343.8   | 221.2   | 94.4    | 56.0    | 58.0    | 108.2   | 113.0   |   |
| > SG&A Expense                   | 539.3          | 579.6    | 506.1   | 333.7   | 157.4   | 115.9   | 87.9    | 78.5    | 116.9   | 129.4   | 117.3   |   |
| ✓ EBIT (Operating Income)        | 30.8           | 461.4    | 452.7   | 220.7   | 186.4   | 105.3   | 6.5     | -22.5   | -58.9   | -21.1   | -4.2    |   |
| > Nonoperating Income - Net      | 81.2           | 67.5     | 12.5    | 3.7     | -1.7    | -2.9    | -2.2    | 2.8     | -0.6    | -1.2    | -1.3    |   |
| > Interest Expense               | 8.9            | 8.8      | 9.4     | 45.2    | 21.0    | 9.7     | 9.6     | 7.9     | 2.8     | 0.5     | 1.6     |   |
| > Unusual Expense - Net          | 40.4           | 7.0      | 3.7     | 58.4    | 44.3    | 2.6     | 4.9     | 17.7    | 3.7     | -2.1    | 0.2     |   |
| ∨ Pretax Income                  | 62.7           | 513.1    | 452.0   | 120.9   | 119.4   | 90.1    | -10.2   | -45.3   | -66.0   | -20.7   | -7.3    |   |
| > Income Taxes                   | 1.3            | 74.2     | 54.7    | -24.5   | -14.6   | -71.0   | 1.4     | -0.1    | 1.5     | 1.4     | 0.8     |   |
| Consolidated Net Income          | 61.4           | 438.9    | 397.4   | 145.4   | 134.0   | 161.1   | -11.6   | -45.2   | -67.5   | -22.1   | -8.1    |   |
| ✓ Net Income                     | 61.4           | 438.9    | 397.4   | 145.4   | 134.0   | 161.1   | -11.6   | -45.2   | -67.5   | -22.1   | -8.1    |   |
| Net Income available to Common   | 61.4           | 438.9    | 397.4   | 145.4   | 134.0   | 161.1   | -11.6   | -45.2   | -67.5   | -22.1   | -8.1    |   |
| ∨ Per Share                      |                |          |         |         |         |         |         |         |         |         |         |   |
| EPS (recurring)                  | 0.67           | 3.12     | 2.79    | 1.31    | 1.16    | 1.25    | -0.08   | -0.40   | -1.28   | -0.53   | -0.18   |   |
| ✓ EPS (basic)                    | 0.45           | 3.22     | 2.94    | 1.09    | 1.07    | 1.38    | -0.12   | -0.54   | -1.34   | -0.49   | -0.19   |   |
| Basic Shares Outstanding         | 135.33         | 136.38   | 135.35  | 134.03  | 125.56  | 116.71  | 99.62   | 82.94   | 50.52   | 44.63   | 42.90   |   |
| Total Shares Outstanding         | 135.08         | 135.72   | 136.44  | 133.89  | 128.96  | 123.11  | 107.04  | 85.91   | 62.27   | 45.82   | 43.76   |   |
| ∨ EPS (diluted)                  | 0.46           | 3.08     | 2.77    | 1.02    | 0.95    | 1.23    | -0.12   | -0.54   | -1.34   | -0.49   | -0.19   |   |
| Diluted Shares Outstanding       | 139.91         | 143.29   | 144.39  | 142.88  | 141.92  | 131.64  | 99.62   | 82.94   | 50.52   | 44.63   | 42.90   |   |
| Total Shares Outstanding         | 135.08         | 135.72   | 136.44  | 133.89  | 128.96  | 123.11  | 107.04  | 85.91   | 62.27   | 45.82   | 43.76   |   |
| Earnings Persistence             | -              | 79.71    | 85.39   | 27.25   | 65.74   | 46.88   | 69.06   | 60.01   | 56.98   | 48.82   | 41.46   |   |
| ∨ EBITDA                         |                |          |         |         |         |         |         |         |         |         |         |   |
| ∨ EBITDA                         | 105.6          | 529.3    | 505.1   | 246.9   | 204.5   | 119.4   | 16.2    | -13.5   | -48.3   | -10.6   | 4.0     |   |
| EBIT                             | 30.8           | 461.4    | 452.7   | 220.7   | 186.4   | 105.3   | 6.5     | -22.5   | -58.9   | -21.1   | -4.2    |   |
| Depreciation & Amortization Exp  | 74.8           | 67.9     | 52.4    | 26.2    | 18.1    | 14.1    | 9.7     | 9.0     | 10.6    | 10.5    | 8.3     |   |

All figures in millions of U.S. Dollar except per share items.



# **Appendix: Balance Sheet**

| Standardized As-Reported Sea          | rch for an item | Q       |         |         |         |         |         |         |         |                     |
|---------------------------------------|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------------------|
| GAAP/IFRS Supplemental Gro            | wth Common      | Size    |         |         |         |         |         |         |         |                     |
| AAP/IFRS Balance Sheet                |                 |         |         |         |         |         |         |         |         |                     |
|                                       |                 |         |         |         |         |         |         |         |         |                     |
| <b></b>                               |                 |         |         |         |         |         |         |         |         | and the contract of |
|                                       | DEC '23         | DEC '22 | DEC '21 | DEC '20 | DEC '19 | DEC '18 | DEC '17 | DEC '16 | DEC '15 | DEC '14             |
| Assets                                | 4 005 0         |         | 4 040 7 |         |         | 4000    |         | 47.0    |         | 40.0                |
| Cash & Short-Term Investments         | 1,695.0         | 1,612.8 | 1,016.7 | 679.4   | 296.1   | 106.2   | 29.1    | 17.8    | 28.5    | 42.0                |
| > Short-Term Receivables              | 486.2           | 473.0   | 357.1   | 200.0   | 160.5   | 78.9    | 65.3    | 61.0    | 46.1    | 45.1                |
| > Inventories                         | 213.6           | 149.7   | 74.4    | 41.8    | 32.1    | 16.3    | 26.0    | 32.0    | 40.8    | 21.6                |
| > Other Current Assets                | 48.7            | 28.7    | 14.3    | 11.9    | 11.0    | 20.9    | 10.0    | 7.1     | 6.4     | 6.2                 |
| Total Current Assets                  | 2,443.5         | 2,264.3 | 1,462.5 | 933.1   | 499.7   | 222.3   | 130.4   | 117.9   | 121.8   | 114.9               |
| > Net Property, Plant & Equipment     | 188.1           | 132.7   | 96.6    | 60.7    | 39.1    | 21.0    | 26.5    | 31.4    | 32.1    | 30.8                |
| > Total Long-Term Investments         | 204.0           | 157.8   | 110.6   | 52.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0                 |
| > Intangible Assets                   | 283.1           | 313.1   | 279.0   | 53.6    | 55.4    | 60.1    | 4.2     | 4.6     | 6.0     | 5.6                 |
| Deferred Tax Assets                   | 252.4           | 204.9   | 122.5   | 92.9    | 74.5    | -       | -       | -       | 17      | -                   |
| > Other Assets                        | 11.9            | 11.5    | 8.1     | 7.9     | 44.6    | 36.5    | 8.0     | 9.7     | 5.7     | 0.9                 |
| Total Assets                          | 3,383.0         | 3,084.3 | 2,079.3 | 1,200.1 | 713.2   | 339.9   | 169.1   | 163.6   | 165.5   | 152.2               |
| Liabilities & Shareholders' Equity    |                 |         |         |         |         |         |         |         |         |                     |
| ∨ Current                             |                 |         |         |         |         |         |         |         |         |                     |
| ST Debt & Curr. Portion LT Debt       | 5.2             | 96.3    | 89.9    | 330.5   | 6.1     | 28.2    | 17.4    | 13.1    | 17.0    | 0.0                 |
| Accounts Payable                      | 116.2           | 125.1   | 113.8   | 72.6    | 57.5    | 48.8    | 28.7    | 31.7    | 25.6    | 22.3                |
| Income Tax Payable                    | 8.5             | 16.1    | -       | -       | -       | -       | -       | -       | -       | -                   |
| > Other Current Liabilities           | 402.5           | 400.7   | 236.1   | 130.9   | 135.8   | 70.2    | 45.6    | 37.9    | 30.3    | 36.4                |
| Total Current Liabilities             | 532.4           | 638.2   | 439.8   | 534.0   | 199.3   | 147.2   | 91.7    | 82.8    | 72.8    | 58.7                |
| ∨ Long-Term                           |                 |         |         |         |         |         |         |         |         |                     |
| > Long-Term Debt                      | 1,312.5         | 1,218.5 | 963.5   | 20.1    | 112.2   | 81.6    | 32.3    | 20.8    | 0.0     | 0.0                 |
| Provision for Risks & Charges         | 153.0           | 95.9    | 54.0    | 34.7    | 27.0    | 23.2    | 22.4    | 22.8    | 23.5    | 26.3                |
| > Other Liabilities                   | 401.4           | 306.1   | 191.8   | 127.3   | 102.5   | 80.2    | 31.8    | 35.9    | 27.8    | 20.2                |
| Total Liabilities                     | 2,399.4         | 2,258.7 | 1,649.1 | 716.1   | 441.0   | 332.2   | 178.3   | 162.3   | 124.1   | 105.2               |
| ∨ Equity                              |                 |         |         |         |         |         |         |         |         |                     |
| > Common Equity                       | 983.6           | 825.6   | 430.2   | 484.0   | 272.2   | 7.8     | -9.1    | 1.3     | 41.4    | 47.0                |
| Total Shareholders' Equity            | 983.6           | 825.6   | 430.2   | 484.0   | 272.2   | 7.8     | -9.1    | 1.3     | 41.4    | 47.0                |
| Total Equity                          | 983.6           | 825.6   | 430.2   | 484.0   | 272.2   | 7.8     | -9.1    | 1.3     | 41.4    | 47.0                |
| Total Liabilities & Shareholders' Equ | 3,383.0         | 3,084.3 | 2,079.3 | 1,200.1 | 713.2   | 339.9   | 169.1   | 163.6   | 165.5   | 152.2               |
| ✓ Per Share                           | 3,300.0         | 0,004.0 | 2,010.0 | 1,200.1 | 110.2   | 000.0   | 100.1   | 100.0   | 100.0   | 102.2               |
| Book Value per Share                  | 7.25            | 6.05    | 3.21    | 3.75    | 2.21    | 0.07    | -0.11   | 0.02    | 0.90    | 1.07                |
|                                       |                 |         |         |         |         |         |         |         |         |                     |

All figures in millions of U.S. Dollar except per share items.



# **Appendix: Cash Flow**

| nphase Energy, Inc. (ENPH) \$ 66.  | .29 Next Rpt Da | te: 11 Feb '25 | Key Statistics | FactSet Fund | damentals |         |         |         |         |         |        |
|------------------------------------|-----------------|----------------|----------------|--------------|-----------|---------|---------|---------|---------|---------|--------|
| Standardized As-Reported Sea       | rch for an item | Q              |                |              |           |         |         |         |         |         |        |
| GAAP/IFRS Supplemental Gro         | owth            |                |                |              |           |         |         |         |         |         |        |
| GAAP/IFRS Cash Flow                |                 |                |                |              |           |         |         |         |         |         |        |
|                                    |                 |                |                |              |           |         |         |         |         |         |        |
|                                    |                 |                |                |              |           |         |         |         |         |         |        |
|                                    | SEP '24<br>LTM  | DEC '23        | DEC '22        | DEC '21      | DEC '20   | DEC '19 | DEC '18 | DEC '17 | DEC '16 | DEC '15 | DEC '1 |
| ✓ Operating Activities             |                 |                |                |              |           |         |         |         |         |         |        |
| Net Income / Starting Line         | 61.42           | 438.94         | 397.36         | 145.45       | 134.00    | 161.15  | -11.63  | -45.19  | -67.46  | -22.08  | -8.0   |
| > Depreciation, Depletion & Amorti | 81.57           | 74.71          | 58.78          | 32.44        | 18.10     | 14.12   | 9.67    | 9.00    | 10.64   | 10.54   | 8.2    |
| > Deferred Taxes & Investment Tax  | -32.70          | -43.35         | 3.63           | -31.24       | -17.12    | -73.38  | 0.12    | -1.39   | 0.65    | 0.64    | 0.00   |
| Other Funds                        | 256.52          | 209.35         | 222.92         | 190.32       | 106.01    | 35.75   | 16.45   | 10.56   | 16.12   | 12.91   | 11.1   |
| Funds from Operations              | 366.81          | 679.65         | 682.69         | 336.97       | 240.99    | 137.64  | 14.61   | -27.03  | -40.06  | 2.01    | 11.3   |
| > Changes in Working Capital       | 15.04           | 17.13          | 62.13          | 15.06        | -24.65    | 1.43    | 1.52    | -1.42   | 7.10    | -23.32  | 12.8   |
| Net Operating Cash Flow            | 381.85          | 696.78         | 744.82         | 352.03       | 216.33    | 139.07  | 16.13   | -28.44  | -32.95  | -21.31  | 24.2   |
| ✓ Investing Activities             |                 |                |                |              |           |         |         |         |         |         |        |
| > Capital Expenditures             | -45.6           | -110.4         | -46.4          | -52.5        | -20.6     | -14.8   | -4.2    | -4.1    | -12.8   | -12.8   | -14.   |
| Net Assets from Acquisitions       | 0.0             | 0.0            | -62.2          | -235.7       | 0.0       | 0.0     | -15.0   | 0.0     | 0.0     | 0.0     | -2.    |
| Sale of Fixed Assets & Businesses  | 0.0             | 0.0            | 0.0            | 0.0          | 0.0       | 0.0     | 0.0     | 0.0     | 1.1     | 0.0     | 0.     |
| > Purchase/Sale of Investments     | -0.7            | -256.0         | -263.3         | -931.4       | -5.0      | 0.0     | 0.0     | 0.0     | 0.0     | 0.3     | 0.     |
| > Other Funds                      | 0.0             | 0.0            | 0.0            | 0.0          | 0.0       | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | -0.    |
| Net Investing Cash Flow            | -46.3           | -366.4         | -371.9         | -1,219.5     | -25.6     | -14.8   | -19.2   | -4.1    | -11.8   | -12.5   | -16.   |
| ✓ Financing Activities             |                 |                |                |              |           |         |         |         |         |         |        |
| > Change in Capital Stock          | -269.9          | -396.1         | 10.4           | -271.7       | 79.9      | 34.8    | 22.6    | 27.0    | 17.3    | 4.0     | 5.4    |
| > Issuance/Reduction of Debt, Net  | -0.0            | 0.0            | 0.0            | 610.3        | 220.8     | 45.2    | 58.0    | 16.3    | 17.1    | 17.0    | -8.    |
| > Other Funds                      | -102.7          | -120.6         | -27.5          | -29.1        | -109.1    | -14.2   | 0.0     | 0.0     | 0.0     | -0.3    | 0.     |
| Net Financing Cash Flow            | -372.5          | -516.8         | -17.1          | 309.4        | 191.7     | 65.9    | 80.6    | 43.3    | 34.4    | 20.7    | -3.    |
| ✓ All Activities                   |                 |                |                |              |           |         |         |         |         |         |        |
| Exchange Rate Effect               | 3.26            | 1.85           | -1.86          | -1.96        | 0.83      | -0.26   | -0.50   | 0.65    | -0.32   | -0.52   | -0.5   |
| Net Change in Cash                 | -33.75          | -184.50        | 353.93         | -560.06      | 383.27    | 189.87  | 77.09   | 11.38   | -10.69  | -13.58  | 3.8    |
| ✓ Free Cash Flow                   | 336.24          | 586.38         | 698.37         | 299.77       | 195.78    | 124.28  | 11.98   | -32.56  | -45.12  | -33.84  | 10.9   |
| Free Cash Flow per Share           | 2.40            | 4.09           | 4.84           | 2.10         | 1.38      | 0.94    | 0.12    | -0.39   | -0.89   | -0.76   | 0.2    |
| Free Cash Flow Yield (%)           | 2.13            | 3.10           | 1.83           | 1.15         | 0.79      | 3.61    | 2.54    | -16.29  | -88.43  | -21.60  | 1.79   |

All figures in millions of U.S. Dollar except per share items.



# **Appendix: Comp Analysis**

| Company Comp Set                             |                        |                              |          |              |                        |                       |                                  |                                  |  |                   |            |           |                                      |
|--|------------------------|------------------------------|----------|--------------|------------------------|-----------------------|----------------------------------|----------------------------------|--|-------------------|------------|-----------|--------------------------------------|
| Company Name                                 | Day Close Price Latest | Shares Outstanding<br>Latest |          | LTM Net Debt | LTM Total Pref. Equity | LTM Minority Interest | Total Enterprise Value<br>Latest | LTM Tangible Book<br>Value/Share | k LTM Filing Date, Income<br>e Statement | LTM Total Revenue | LTM EBITDA | LTM EBIT  | LTM Diluted EPS Excl.<br>Extra Items |
| Enphase Energy, Inc. (NasdaqGM:ENPH)         | 63.42                  | 135.1                        | 8,563.1  | (434.4)      | -                      |                       | 8,128.7                          | 4.93                             | 3 Oct-22-2024                            | 1,250.2           | 102.9      | 30.8      | 0.44                                 |
|  |                        |                              |          |              |                        |                       |                                  |                                  |  |                   |            |           |                                      |
| SolarEdge Technologies, Inc. (NasdaqGS:SEDG) | 10.76                  | 58.0                         | 629.9    | 23.6         |                        |                       | 653.5                            | 15.62                            | Nov-07-2024                              | 1,046.8           | (1,252.3)  | (1,314.7) | (29.1)                               |
| Fluence Energy, Inc. (NasdaqGS:FLNC)         | 21.58                  | 129.0                        | 2,826.2  | (327.4)      | -                      | 117.01                | 2,615.8                          | 2.61                             | Aug-07-2024                              | 2,143.4           | (17.2)     | (29.2)    | (0.18)                               |
| First Solar, Inc. (NasdaqGS:FSLR)            | 184.4                  | 107.1                        | 19,788.6 | (575.7)      | ( <del>=</del> )       | 1                     | 19,212.9                         | 70.12                            | Oct-29-2024                              | 3,850.8           | 1,717.0    | 1,328.2   | 11.61                                |
| ttron, Inc. (NasdaqGS:ITRI)                  | 116.73                 | 45.1                         | 5,145.2  | 287.3        | -                      | 20.37                 | 5,452.8                          | 5.03                             | Oct-31-2024                              | 2,405.1           | 310.6      | 255.9     | 4.87                                 |
| Generac Holdings Inc. (NYSE:GNRC)            | 184.85                 | 59.5                         | 10,720.8 | 1,364.3      | -                      | 3.02                  | 12,088.2                         | 2.78                             | Nov-05-2024                              | 4,124.7           | 660.5      | 490.2     | 4.82                                 |
| Midsummer AB (publ) (OM:MIDS)                | 0.09                   | 209.7                        | 19.6     | 14.6         | -                      | 12                    | 33.6                             | 0.03                             | Aug-30-2024                              | 6.2               | (13.5)     | (17.3)    | ( 0.12)                              |

| Company Comp Set                             |                                   |                       |                     |  |                     |   |   |                        |
|--|-----------------------------------|-----------------------|---------------------|--|---------------------|---|---|------------------------|
| Company Name                                 | TEV/Total Revenues LTM-<br>Latest | TEV/EBITDA LTM-Latest | TEV/EBIT LTM-Latest | P/Diluted EPS Before<br>Extra LTM-Latest | P/TangBV LTM-Latest | NTM TEV/Forward Total<br>Revenue (Capital IQ) | NTM TEV/Forward NTM For EBITDA (Capital IQ) | orward P/E(Capital IQ) |
| Enphase Energy, Inc. (NasdaqGM:ENPH)         | 6.5x                              | 71.5x                 | 263.7x              | 145.7x                                   | 12.9x               | 5.00x   | 14.53x                                      | 18.44x                 |
| SolarEdge Technologies, Inc. (NasdaqGS:SEDG) | 0.6x                              | NM                    | NM                  | NM                                       | 0.7x                | 0.64x   | NM  | NM                     |
| Fluence Energy, Inc. (NasdaqGS:FLNC)         | 1.2x                              | 185.7x                | NM                  | NM                                       | 8.4x                | 0.68x   | 15.24x                                      | 33.48x                 |
| First Solar, Inc. (NasdaqGS:FSLR)            | 5.0x                              | 11.1x                 | 14.5x               | 15.9x                                    | 2.6x                | 3.56x   | 7.01x                                       | 9.58x                  |
| tron, Inc. (NasdaqGS:ITRI)                   | 2.3x                              | 16.4x                 | 21.3x               | 23.4x                                    | 22.7x               | 2.27x   | 17.71x                                      | 24.68x                 |
| Generac Holdings Inc. (NYSE:GNRC)            | 2.9x                              | 17.2x                 | 24.7x               | 37.4x                                    | 64.7x               | 2.60x   | 13.72x                                      | 21.78x                 |
| Midsummer AB (publ) (OM:MIDS)                | 5.6x                              | NM                    | NM                  | NM                                       | 3.8x                | 4.27x   | NM  | NM                     |
|  |                                   |                       |                     |  |                     |   |   |                        |





December 5<sup>th</sup>, 2024

Team: 1

**Students:** Tina Abilgaziyeva, Vince Galioto, Ames Murray

**Long**: Badger Meter Inc (NYSE: BMI)

**Current Price**: \$221 (11/24/2024) | **2025 Price Target:** \$274 (24% Upside)



November 24<sup>th</sup>, 2024

**Team Number: 18** 

Students: Vanessa Quon, Thage Claesson, Jim Zhang

Long: Willis Lease Financial Corporation (NasdaqGM:WLFC)

**Current Price:** \$207.3 | **Next 12-month Target Price:** \$333.5 (66% Upside)



# Willis Lease (NASDAQ: WLFC) Company Overview

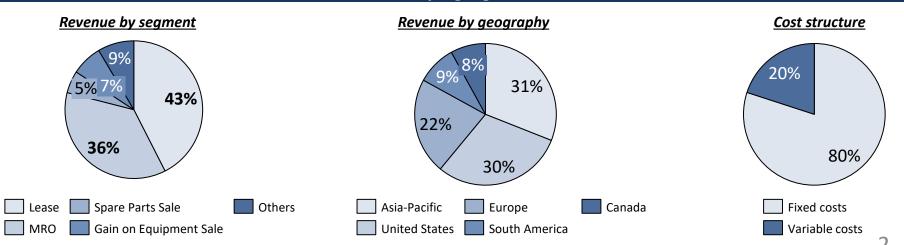
Pure-play jet engine leasing company mainly generating profit from leasing contract and maintenance services

### **Company description**

- Highly levered, capital intensive business model acquires engines financed by ~85-90% debt financing (like LBO) and leases out purchased equipment mainly to commercial airline operators
- Two primary revenue source: 1) Engine leasing contract (43% revenue). Driven by portfolio utilization ratio and lease rate. 2)
   Maintenance, repair and overhaul services ("MRO", 36% revenue).
   Driven by engine usage time and MRO pricing
- Huge operating leverage. ~80% are fixed in the short-term, meaning can benefit significantly in topline upcycle
- Total lease portfolio of 337 engines, 12 aircraft, 1 marine vessel
- 60% owned by founding family, who tried to take private the company three times but all rejected by the Board due to insufficient acquisition pricing
- Founded in 1985, headquartered Florida and has ~362 employees

| K                | ey financials a | nd trading stat         | s            |
|------------------|-----------------|-------------------------|--------------|
| Current Price    | \$207.3         | 52W High/Low            | \$43.4/235.4 |
| Market Cap       | \$1,330m        | Avg daily trading value | \$11m        |
| Enterprise Value | \$3,378m        | Float                   | 36.9%        |
| LTM Revenue      | \$531m          | Short Interest          | 2.0%         |
| '23-26 Rev CAGR  | 26.2%           | LTM EBITDA<br>Margin    | 56.0%        |
| LTM Net Margin   | 17.3%           | ND / LTM EBITDA         | 6.2x         |

### **Key highlights**





# **WLFC Investment Setup**

Stock flying under-the-radar set to soar on structural tailwinds under jet engine industry

### **Key investment thesis**

### **Supply-demand Imbalance**



- Surge of air travel demand challenged by parts shortage and limited manufacturing capacity
- Supply issues cannot be corrected short-term
- Rising engine leasing and maintenance rate

### Trading at huge discount vs comparable business



- WLFC has fairly similar business model to FTAI, whose share price rallied by more than >300%, now trading at 40x NTM P/E...
- ... while WLFC is valued at 70% discount compared to FTAI, which is unreasonable from our perspective

### **Liquidation value**



- NBV calculated through cost method does not reflect rise in value of assets
- Thanks to the surging demand of engines,
   WLFC's "liquidation value" per share is at
   \$207, offering abundant protection

#### WLFC is under the radar to investors

# No sell-side coverage!

- No history of regular analyst meetings for WLFC management until 2024
- Conducted first earnings call in many years in Aug 2024, increasing capital market communications

66% - 645%

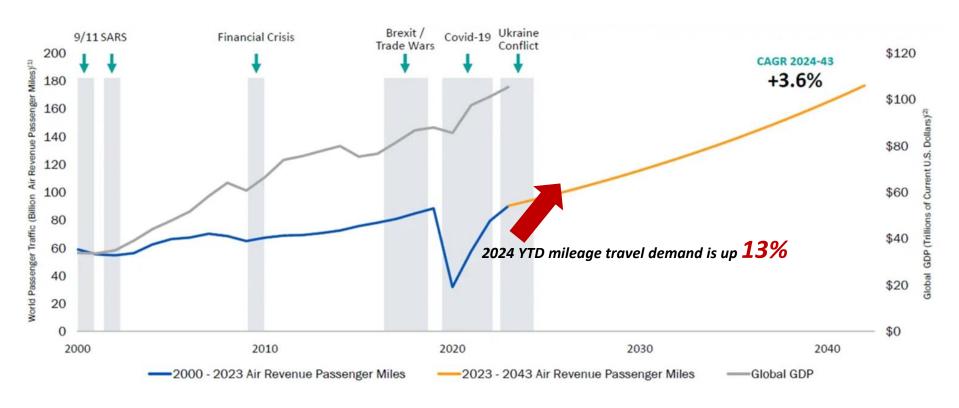
upside potential



# **Investment Thesis #1 – Supply and Demand Imbalance**

End-market air travel demand is fairly robust and is expected to show secular growth without exogenous macro shocks

- Travel demand has returned to historical highs, matching pre-COVID mileage levels
- The industry exhibits secular growth trends, projected at mid-single digits for the next decade





# **Investment Thesis #1 – Supply and Demand Imbalance**

Aviation industry demand and supply chain issues create growth opportunities for leasing and maintenance

"[lack of sufficient parts - most notably engines] has "significantly degraded" in recent weeks, and that the company will end up with gliders by the end of the quarter" – Airbus CEO



### Supply chain issues causing production delays

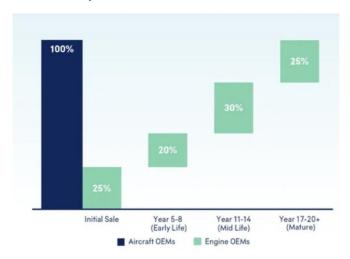
#### **2024 Narrowbody Deliveries**



- Delivery of aircraft continues to be delayed due to manufacturing delays, engine maturation challenges
- Engine and aircraft manufacturers poll resources from the same limited pool

### **Shortages will persist**

#### **Lifecycle Revenue Sources for OEMs**



- Engine manufacturers generate majority of revenue from aftersales shop visits
- · Profits increase with shorter aircraft useful life
- Incentivization issues prevent oversupply

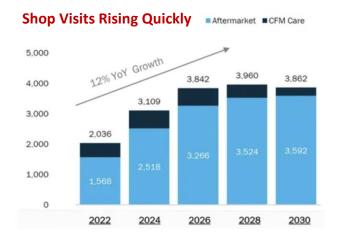
Source: AirCap Capital Market Day, Tegus



### **Investment Thesis #1 – Supply and Demand Imbalance**

Larger maintenance volume, limited MRO capacity, and demand for legacy engines provide fertile environment for engine leasing businesses

### Shop visits are increasing due to MRO cycle



- CFM56 engine shop visits occur every 5 years, 45% of engines have yet to experience first shop visit
- Shop visits expected to peak in 2028 with 12% CAGR

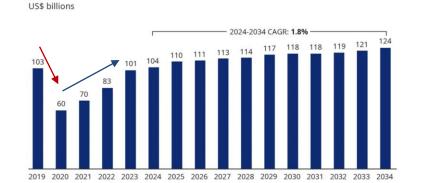
### Surge in maintenance and leasing with new technology

- Engine cost and complexity rising due to increased use of specialized high-performance parts
- Greater proportion of engines are being leased vs. owned
- Constraints on MRO capacity and material availability leading to surge in demand for legacy engines

### MRO spending is on the rise

"Aircraft engine MRO demand is likely to experience a near-term peak in 2026 and remain constrained through the end of the decade" - Simple Flying 2024

#### **Global MRO Spending Forecast Through 2034**



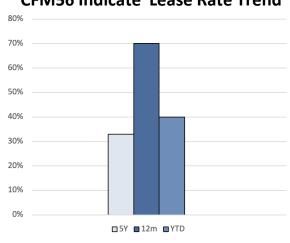
- MRO supply capacity shrank significantly during covid
- MRO spending is returning to levels pre-covid
- Increased spending in 2023 mostly price driven, not volume driven, supply-demand gap still exists
- Demand is expected to remain high post 2025 providing long-term stable source of income



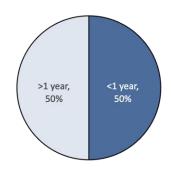
# Investment Thesis #1 - Supply and Demand Imbalance

WLFC will profit from increased leasing demand and benefit from re-pricing power of short term leases

#### **CFM56 Indicate Lease Rate Trend**



#### **WLFC Lease Term Structure**



**Average lease duration: 2 years** 

- MRO frequency is increasing, demand for spare engines is soaring as airlines try to keep aircraft from being grounded
- Short term leases allow for more frequent re-pricing in a rising leasing rate environment, more profitable than long term leases

#### Lease rent forecasts

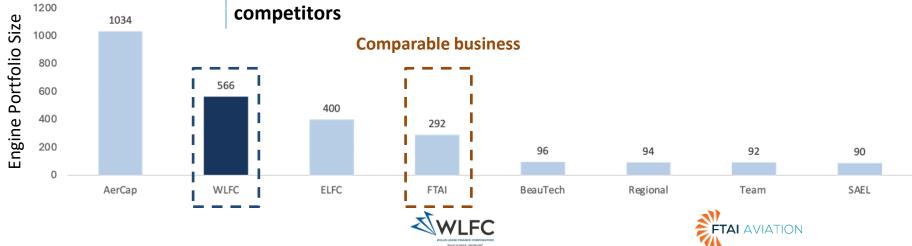
- Lease rent will continue to grow with rising demand and limited supply
- Forecast of 50% cumulative lease rate growth is conservative given 80% of the cumulative growth has already occurred YTD
- Benefit from current repricing will be fully reflected in 2026 income statements





# **Investment Thesis #2 – Valuation Gap vs Peers**

Same business, far lower price: WLFC is significantly undervalued vs



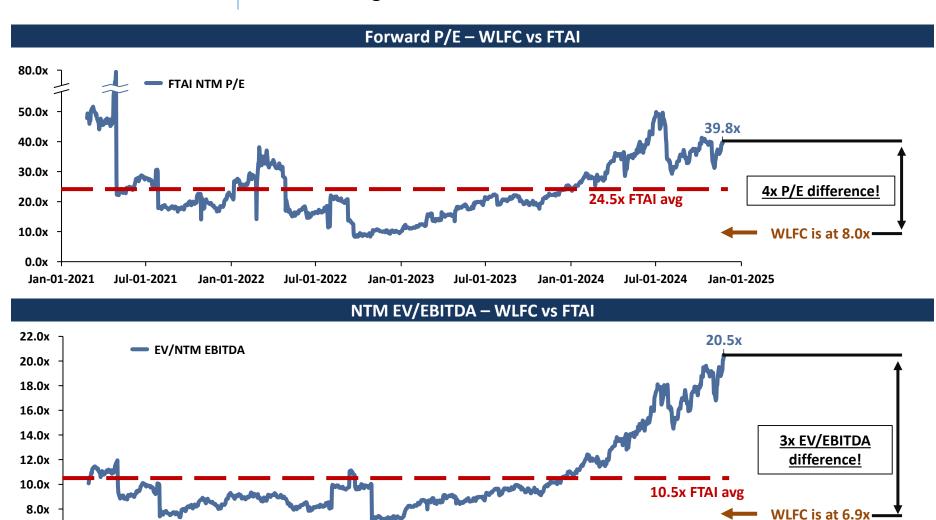
|  |  | · · · · · · · · · · · · · · · · · · · |
|--|--|---------------------------------------|
| Engine and aircraft leasing trading and management | ٧  | ٧                                     |
| Next generation engine lease & services            | ٧  | X                                     |
| Maintenance services                               | <b>√</b>   | ٧                                     |
| End-of-life solutions & disassembly                | <b>√</b>   | x                                     |
| Used serviceable material ("USM")                  | V  | V                                     |
| Engine parts manufacturer approval ("PMA")         | х  | V                                     |
| Engine Modules                                     | ٧  | V                                     |
| Owned Fleet  | 344 engines, 51 JV-owned engines, and 12 aircrafts | 292 engines and 99 aircrafts          |
| NBV of Fleet (\$mm)                                | \$2789.7   | 2032.2                                |
| EBITDA (\$mm)                                      | \$305  | \$350                                 |
| LTM EBITDA margin                                  | 56%  | 49%                                   |
| Q2'24 Engine Utilization Rate                      | 84%  | 69%                                   |

Source: WLFC Investor Day, Company Filings



# **Investment Thesis #2 – Valuation Gap vs Peers**

WLFC is 3-4x cheaper than FTAI based on multiple valuation, which is unreasonable given their similar business model



Jul-01-2023

Jan-01-2024

Jul-01-2024

Jan-01-2025

0.0x <del>←</del> Jan-01-2021

Jul-01-2021

Jan-01-2022

Jul-01-2022

Jan-01-2023



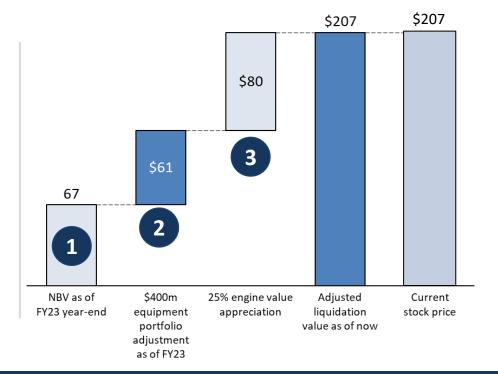
# **Investment Thesis #3: Liquidation Value**

The current liquidation value per share aligns with the share price, providing robust downside protection

**Liquidation Value** 

\$207

Reflecting asset revaluation and lease portfolio gains, aligning with the stock price for downside protection



### **Liquidation Value Components**

- Net book value available to investors is calculated through the cost method, and does not reflect significant increase in asset value
- As of 2023, there is a \$400 million discrepancy between the net book value and market book value
- 2024 YTD, the lease engine portfolio has experienced a market value appreciation of 20-25%



Liquidation

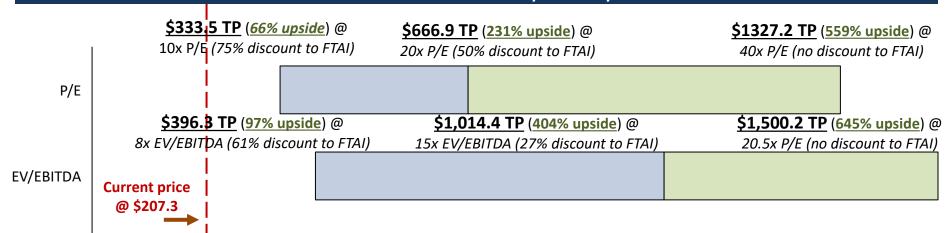
### **Valuation**

WLFC is worth at least \$333.5 (66% upside vs current share price) even based on a wild 75% to FTAI's valuation

### **Summary Financials**

|  |        |         |         | Forecast |          |         |         |         |         |
|--|--------|---------|---------|----------|----------|---------|---------|---------|---------|
| (in \$ m except for per share number or otherwise indicated) | FY18   | FY19    | FY20    | FY21     | FY22     | FY23    | FY24E   | FY25E   | FY26E   |
| Total revenue  | 348    | 409     | 289     | 274      | 312      | 419     | 567     | 728     | 857     |
| % yoy  |        | 17.5%   | (29.4%) | (5.0%)   | 13.8%    | 34.2%   | 35.4%   | 28.4%   | 17.8%   |
| EBITDA   | 194    | 234     | 177     | 167      | 162      | 213     | 355     | 493     | 583     |
| % margin   | 55.6%  | 57.1%   | 61.3%   | 60.8%    | 52.0%    | 50.9%   | 62.7%   | 67.7%   | 68.0%   |
| Operating Income   | 52     | 81      | 19      | 8        | 7        | 43      | 158     | 265     | 351     |
| % margin   | 15.1%  | 19.7%   | 6.7%    | 3.0%     | 2.3%     | 10.4%   | 28.0%   | 36.5%   | 40.9%   |
| Net Income   | 40     | 64      | 6       | 0        | 2        | 40      | 115     | 173     | 229     |
| % margin   | 11.5%  | 15.5%   | 2.2%    | 0.0%     | 0.7%     | 9.6%    | 20.2%   | 23.8%   | 26.7%   |
| Diluted EPS  | \$6.60 | \$10.50 | \$1.05  | \$0.00   | \$0.33   | \$6.23  | \$16.71 | \$25.25 | \$33.35 |
| % yoy  |        | 59.1%   | (90.0%) | (99.7%)  | 11536.1% | 1787.9% | 168.3%  | 51.1%   | 32.1%   |
| P/E  |        |         |         |          |          | 32.3x   | 12.0x   | 8.0x    | 6.0x    |
| EV/EBITDA  |        |         |         |          |          | 15.8x   | 9.5x    | 6.9x    | 5.8x    |

### WLFC Valuation based on NTM P/E and EV/EBITDA



\$207.0 TP (an exactly hit at current share price) @ liquidation value

# **Appendix**

# **Appendix: Revenue Build-up**

|  |   |                  |   |                  |                           |                          | Forecast            |                        |                 |                 |                 |                 |                        |                 |
|--|---|------------------|---|------------------|---------------------------|--------------------------|---------------------|------------------------|-----------------|-----------------|-----------------|-----------------|------------------------|-----------------|
| (in \$ K except for per share number or otherwise indicated) |   | FY22             | FY23                                    | 1Q24             | 2Q24                      | 3Q24                     | 4Q24                | FY24                   | 1Q25            | 2Q25            | 3Q25            | 4Q25            | FY25                   | FY26            |
| Revenue build-up   |   |                  | 0.5092234                               |                  |                           |                          |                     | 0.435584016            |                 |                 |                 |                 |                        |                 |
| Lease rent revenue   |   | 162,571          | 213,138                                 | 52,881           | 55,866                    | 64,905                   | 73,217              | 246,869                | 82,889          | 89,026          | 93,877          | 95,806          | 361,598                | 408,898         |
| % yoy  |   | 20.6%            | 31.1%                                   | (0.6%)           | 2.7%                      | 21.2%                    | 41.0%               | 15.8%                  | 56.7%           | 59.4%           | 44.6%           | 30.9%           | 46.5%                  | 13.1%           |
| % gog  |   |                  |   | 1.8%             | 5.6%                      | 16.2%                    | 12.8%               |                        | 13.2%           | 7.4%            | 5.4%            | 2.1%            |                        |                 |
| Equipment held for operating leases                          | 2 | 2,111,935        | 2,112,837                               | 2,130,327        | 2,317,903                 | 2,435,583                | 2,512,835           | 2,512,835              | 2,595,723       | 2,630,730       | 2,669,450       | 2,710,292       | 2,710,292              | 2,723,844       |
| % equipment size yoy growth                                  |   | 6.1%             | 0.0%                                    | (0.5%)           | 7.2%                      | 12.2%                    | 18.9%               | 18.9%                  | 21.8%           | 13.5%           | 9.6%            | 7.9%            | 7.9%                   | 0.5%            |
| % equipment size qoq growth                                  |   |                  |   | 0.8%             | 8.8%                      | 5.1%                     | 3.2%                |                        | 3.3%            | 1.3%            | 1.5%            | 1.5%            |                        |                 |
| % utilization ratio  | • | 82%              | 84%                                     | 84%              | 83%                       | 83%                      | 83%                 | 83%                    | 85%             | 85%             | 86%             | 86%             | 85%                    | 86%             |
| Lease rent per unit of utilized equipment                    |   | \$0.099          | \$0.117                                 | \$0.119          | \$0.120                   | \$0.132                  | \$0.143             | \$0.126                | \$0.154         | \$0.160         | \$0.166         | \$0.166         | \$0.160                | \$0.176         |
| % lease rate yoy growth                                      |   | 14.2%            | 18.6%                                   | (0.4%)           | 1.1%                      | 12.4%                    | 25.0%               | 8.1%                   | 30.0%           | 33.0%           | 26.0%           | 16.5%           | 26.4%                  | 10.0%           |
| % lease rate qoq growth                                      |   |                  | *************************************** | 4.0%             | 1.4%                      | 9.4%                     | 8.4%                |                        | 8.2%            | 3.7%            | 3.6%            | 0.2%            |                        |                 |
| % cumulative as of the start of FY23                         |   |                  |   | (0.4%)           | 1.1%                      | 12.4%                    | 25.0%               | 8.1%                   | 29.5%           | 34.5%           | 41.7%           | 45.6%           | 36.6%                  | 50.3%           |
| Lease portfolio buid-up                                      |   | _                |   |                  |                           |                          |                     |                        |                 |                 |                 |                 |                        |                 |
| Equipment held for operating leases - Beginning              | 1 | 1,991,368        | 2,111,935                               | 2,112,837        | 2,130,327                 | 2,317,903                | 2,435,583           | 2,112,837              | 2,512,835       | 2,595,723       | 2,630,730       | 2,669,450       | 2,512,835              | 2,710,292       |
| (+) New purchases  |   | 286,393          | 163,640                                 | 62,790           | 258,787                   | 166,861                  | 132,052             | 620,490                | 133,145         | 86,921          | 91,334          | 94,231          | 405,632                | 67,757          |
| as % of LTM lease portfolio (annualized)                     |   | 14.4%            | 7.7%                                    | 11.7%            | 47.9%                     | 30.7%                    | 25.0%               | 29.4%                  | 25.0%           | 15.0%           | 15.0%           | 15.0%           | 16.1%                  | 10.0%           |
| (-) Decay  |   | (165,826)        | (162,738)                               | (45,300)         | (71,211)                  | (49,181)                 | (54,801)            | (220,493)              | (50,257)        | (51,914)        | (52,615)        | (53,389)        | (208,175)              | (54,206)        |
| as % of beginning balance                                    |   | (8.3%)           | (7.7%)                                  | (8.6%)           | (13.4%)                   | (8.5%)                   | (9.0%)              | (10.4%)                | (8.0%)          | (8.0%)          | (8.0%)          | (8.0%)          | (8.3%)                 | (8.0%)          |
| Equipment held for operating leases - Ending                 | 2 | 2,111,935        | 2,112,837                               | 2,130,327        | 2,317,903                 | 2,435,583                | 2,512,835           | 2,512,835              | 2,595,723       | 2,630,730       | 2,669,450       | 2,710,292       | 2,710,292              | 2,723,844       |
| Maintenance reserve revenue                                  |   | 83,424           | 133,668                                 | 43,870           | 62,897                    | 49,760                   | 56,301 <sup>]</sup> | 212,828                | 62,680          | 67,893          | 72,057          | 76,410          | 279,039                | 357,151         |
| % yoy  |   | 12.8%            | 60.2%                                   | 86.7%            | 77.6%                     | 32.0%                    | 51.9%               | 59.2%                  | 42.9%           | 7.9%            | 44.8%           | 35.7%           | 31.1%                  | 28.0%           |
| % qoq  |   |                  |   | 18.4%            | 43.4%                     | (20.9%)                  | 13.1%               |                        | 11.3%           | 8.3%            | 6.1%            | 6.0%            |                        |                 |
| L-T MRO revenue  |   |                  | 15,359                                  | 6,300            | 17,000                    | 1,200                    | 1,500               | 26,000                 | 3,000           | 3,000           | 3,000           | 3,000           | 12,000                 | 10,000          |
| % yoy  |   |                  |   | N/A _            | 150.0%                    | (63.6%)                  | (71.5%)             | 69.3%                  | (52.4%)         | (82.4%)         | 150.0%          | 100.0%          | (53.8%)                | (16.7%)         |
| S-T MRO revenue  |   |                  | 118,300                                 | 37,600           | 45,900                    | 48,500                   | 54,801              | 186,801                | 59,680          | 64,893          | 69,057          | 73,410          | 267,039                | 347,151         |
| % yoy  |   | _                |   | 60.0%            | 60.5%                     | 41.0%                    | 72.3%               | 57.9%                  | 58.7%           | 41.4%           | 42.4%           | 34.0%           | 43.0%                  | 30.0%           |
| as % of current lease portfolio (annualized)                 |   |                  | 5.6%                                    | 7.1%             | 8.6%                      | 8.4%                     | 9.0%                | 8.8%                   | 9.5%            | 10.0%           | 10.5%           | 11.0%           | 10.6%                  | 12.8%           |
| Spare parts and equipment sales                              |   | 27,009           | 20,359                                  | 3,288            | 6,186                     | 10,863                   | 7,398 <sup>J</sup>  | 27,735                 | 3,551           | 6,681           | 11,732          | 7,990           | 29,954                 | 32,350          |
| % yoy  |   | 55.1%            | (24.6%)                                 | (34.9%)          | 36.0%                     | 223.4%                   | 0.0%                | 36.2%                  | 8.0%            | 8.0%            | 8.0%            | 8.0%            | 8.0%                   | 8.0%            |
| Interest revenue   |   | 7,579            | 8,721                                   | 2,269            | 2,284                     | 3,412                    | 2,311               | 10,276                 | 2,269           | 2,284           | 3,412           | 2,311           | 10,276                 | 10,276          |
| % yoy  |   | (41.4%)          | 15.1%                                   | 10.9%            | 1.2%                      | 62.0%                    | 0.0%                | 17.8%                  | 0.0%            | 0.0%            | 0.0%            | 0.0%            | 0.0%                   | 0.0%            |
| Gain on sale of leased equipment                             |   | 3,133            | 10,581                                  | 9,201            | 14,428                    | 9,519                    | 1,000               | 34,148                 | 2,500           | 2,500           | 2,500           | 2,500           | 10,000                 | 10,000          |
| % yoy  |   | (47.6%)          | 237.7%                                  | 6818.0%          | 223.4%                    | 1131.4%                  | (81.8%)             | 222.7%                 | (72.8%)         | (82.7%)         | (73.7%)         | 150.0%          | (70.7%)                | 0.0%            |
| Other revenue  |   | 28,211           | 32,088                                  | 7,574            | 9,459                     | 7,764                    | 10,102              |                        | 7,953           | 9,932           | 8,152           | 10,607          | 36,644                 | 38,476          |
| % yoy<br>Total revenue                                       |   | 23.6%<br>311,927 | 13.7%<br>418,555                        | 29.4%<br>119,083 | 19.8%<br><b>151,120 ▶</b> | (5.8%)<br><b>146,223</b> | 0.0%<br>150,329     | 8.8%<br><b>566,755</b> | 5.0%<br>161,842 | 5.0%<br>178,316 | 5.0%<br>191,730 | 5.0%<br>195,624 | 5.0%<br><b>727,512</b> | 5.0%<br>857,152 |
| % yoy  |   | 13.8%            | 34.2%                                   | 32.6%            | 38.6%                     | 38.3%                    | 31.5%               | 35.4%                  | 35.9%           | 18.0%           | 31.1%           | 30.1%           | 28.4%                  | 17.8%           |

# **Appendix: Cost Build-up**

|  |           |           |          |          |           | Forecast  |           |           |           |           |           |           |           |
|--|-----------|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| (in \$ K except for per share number or otherwise indicated) | FY22      | FY23      | 1Q24     | 2Q24     | 3Q24      | 4Q24      | FY24      | 1Q25      | 2Q25      | 3Q25      | 4Q25      | FY25      | FY26      |
| Cost build-up  |           |           |          |          |           |           |           |           |           |           |           |           |           |
| D&A  | (88,260)  | (90,925)  | (22,486) | (22,167) | (23,650)  | (25,493)  | (93,796)  | (26,989)  | (27,352)  | (27,751)  | (28,172)  | (110,264) | (113,324) |
| % annual D&A rate  | 4.1%      | 4.2%      | 4.2%     | 4.1%     | 4.0%      | 4.0%      | 3.7%      | 4.1%      | 4.1%      | 4.1%      | 4.1%      | 4.0%      | 4.1%      |
| as % of total revenue  | 28.3%     | 21.7%     | 18.9%    | 14.7%    | 16.2%     | 17.0%     | 16.5%     | 16.7%     | 15.3%     | 14.5%     | 14.4%     | 15.2%     | 13.2%     |
| Cost of spare parts and equipment sales                      | (20,833)  | (15,207)  | (2,705)  | (5,437)  | (8,861)   | (6,140)   | (23,143)  | (3,018)   | (5,679)   | (9,972)   | (6,791)   | (25,461)  | (27,498)  |
| as % of spare parts and equipment sales                      | 77.1%     | 74.7%     | 82.3%    | 87.9%    | 81.6%     | 83.0%     | 83.4%     | 85.0%     | 85.0%     | 85.0%     | 85.0%     | 85.0%     | 85.0%     |
| Cost of maintenance services                                 | -         | (20,779)  | (5,574)  | (5,671)  | (6,402)   | (7,071)   | (24,718)  | (5,567)   | (6,952)   | (5,707)   | (7,425)   | (25,651)  | (26,933)  |
| as % of other revenue  | 0.0%      | 64.8%     | 73.6%    | 60.0%    | 82.5%     | 70.0%     | 70.8%     | 70.0%     | 70.0%     | 70.0%     | 70.0%     | 70.0%     | 70.0%     |
| Write-down of equipment                                      | (21,849)  | (4,398)   | (261)    | -        | (605)     | -         | (866)     | -         | -         | -         | -         | -         | -         |
| G&A  | (92,530)  | (144,788) | (29,581) | (34,687) | (40,037)  | (33,317)  | (137,622) | (34,018)  | (38,849)  | (39,637)  | (38,315)  | (150,819) | (180,983) |
| % yoy  | 22.8%     | 56.5%     | 6.3%     | 9.3%     | 50.8%     | (15.0%)   | (4.9%)    | 15.0%     | 12.0%     | (1.0%)    | 15.0%     | 9.6%      | 20.0%     |
| as % of total revenue  | 29.7%     | 34.6%     | 24.8%    | 23.0%    | 27.4%     | 22.2%     | 24.3%     | 21.0%     | 21.8%     | 20.7%     | 19.6%     | 20.7%     | 21.1%     |
| Technical expenses   | (14,415)  | (20,220)  | (8,255)  | (4,518)  | (5,151)   | (7,216)   | (25,140)  | (7,283)   | (8,024)   | (8,628)   | (8,803)   | (32,738)  | (38,572)  |
| % yoy  | 53.7%     | 40.3%     | 90.1%    | (32.3%)  | (41.1%)   | 28.8%     | 24.3%     | (11.8%)   | 77.6%     | 67.5%     | 22.0%     | 30.2%     | 17.8%     |
| as % of total revenue  | 4.6%      | 4.8%      | 6.9%     | 3.0%     | 3.5%      | 4.8%      | 4.4%      | 4.5%      | 4.5%      | 4.5%      | 4.5%      | 4.5%      | 4.5%      |
| Interest expense   | (66,743)  | (78,795)  | (23,003) | (24,562) | (27,813)  | (27,624)  | (103,002) | (28,975)  | (29,114)  | (29,373)  | (29,684)  | (117,146) | (118,982) |
| % annual interest rate                                       | 3.6%      | 4.4%      | 5.1%     | 5.7%     | 5.7%      | 5.6%      | 4.9%      | 5.6%      | 5.3%      | 5.3%      | 5.2%      | 5.1%      | 5.2%      |
| as % of total revenue  | 21.4%     | 18.8%     | 19.3%    | 16.3%    | 19.0%     | 18.4%     | 18.2%     | 17.9%     | 16.3%     | 15.3%     | 15.2%     | 16.1%     | 13.9%     |
| Total expense  | (304,630) | (375,112) | (91,865) | (97,042) | (112,519) | (106,862) | (408,288) | (105,850) | (115,971) | (121,066) | (119,191) | (462,078) | (506,291) |
| % yoy  | 14.6%     | 23.1%     | 12.7%    | 8.4%     | 31.2%     | 2.8%      | 8.8%      | 15.2%     | 19.5%     | 7.6%      | 11.5%     | 13.2%     | 9.6%      |
| as % of total revenue  | 97.7%     | 89.6%     | 77.1%    | 64.2%    | 77.0%     | 71.1%     | 72.0%     | 65.4%     | 65.0%     | 63.1%     | 60.9%     | 63.5%     | 59.1%     |

# **Appendix: Balance Sheet**

| FY22   FY23   1Q24   2Q24   3Q24   4Q24  | FY24<br>2,512,835 | 1Q25      | 2Q25      | 3Q25      | 4Q25      | FY25      | FY26      |
|--|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Assets         12,146         7,071         7,622         5,044         5,791           Restricted cash         76,870         160,958         86,620         142,869         99,333           Notes receivables         46,954         58,485         97,859         115,488         175,358           Investment in sales type leaes         6,440         8,759         33,013         6,179         23,204           Spare parts inventory         38,577         40,954         85,165         81,913         74,089           Equipment held for operating leases         2,111,935         2,112,837         2,130,327         2,317,903         2,435,583         2,512,835           PP&E         35,350         37,160         35,531         35,968         36,119         36,417 | 2512835           |           |           |           |           |           |           |
| Cash and cash equiv.     12,146     7,071     7,622     5,044     5,791       Restricted cash     76,870     160,958     86,620     142,869     99,333       Notes receivables     46,954     58,485     97,859     115,488     175,358       Investment in sales type leaes     6,440     8,759     33,013     6,179     23,204       Spare parts inventory     38,577     40,954     85,165     81,913     74,089       Equipment held for operating leases     2,111,935     2,112,837     2,130,327     2,317,903     2,435,583     2,512,835       PP&E     35,350     37,160     35,531     35,968     36,119     36,417   | 2512835           |           |           |           |           |           |           |
| Restricted cash         76,870         160,958         86,620         142,869         99,333           Notes receivables         46,954         58,485         97,859         115,488         175,358           Investment in sales type leaes         6,440         8,759         33,013         6,179         23,204           Spare parts inventory         38,577         40,954         85,165         81,913         74,089           Equipment held for operating leases         2,111,935         2,112,837         2,130,327         2,317,903         2,435,583         2,512,835           PP&E         35,350         37,160         35,531         35,968         36,119         36,417   | 2 512 835         |           |           |           |           |           |           |
| Notes receivables         46,954         58,485         97,859         115,488         175,358           Investment in sales type leaes         6,440         8,759         33,013         6,179         23,204           Spare parts inventory         38,577         40,954         85,165         81,913         74,089           Equipment held for operating leases         2,111,935         2,112,837         2,130,327         2,317,903         2,435,583         2,512,835           PP&E         35,350         37,160         35,531         35,968         36,119         36,417  | 2 512 835         |           |           |           |           |           |           |
| Investment in sales type leaes         6,440         8,759         33,013         6,179         23,204           Spare parts inventory         38,577         40,954         85,165         81,913         74,089           Equipment held for operating leases         2,111,935         2,112,837         2,130,327         2,317,903         2,435,583         2,512,835           PP&E         35,350         37,160         35,531         35,968         36,119         36,417   | 2 512 835         |           |           |           |           |           |           |
| Spare parts inventory         38,577         40,954         85,165         81,913         74,089           Equipment held for operating leases         2,111,935         2,112,837         2,130,327         2,317,903         2,435,583         2,512,835           PP&E         35,350         37,160         35,531         35,968         36,119         36,417  | 2 512 835         |           |           |           |           |           |           |
| Equipment held for operating leases 2,111,935 2,112,837 2,130,327 2,317,903 2,435,583 2,512,835 PP&E 35,350 37,160 35,531 35,968 36,119 36,417   | 2 512 835         |           |           |           |           |           |           |
| PP&E 35,350 37,160 35,531 35,968 36,119 36,417   | 2 512 835         |           |           |           |           |           |           |
|  | 2,012,000         | 2,595,723 | 2,630,730 | 2,669,450 | 2,710,292 | 2,710,292 | 2,723,844 |
| % yoy 12.8% 5.1% (1.8%) (3.6%) (2.8%) (2.0%)   | 36,417            | 37,308    | 37,766    | 37,925    | 38,238    | 38,238    | 40,150    |
|  | (2.0%)            | 5.0%      | 5.0%      | 5.0%      | 5.0%      | 5.0%      | 5.0%      |
| Liabilities  |                   |           |           |           |           |           |           |
| AP and accrued expenses 43,040 52,937 103,348 89,161 119,560   |                   |           |           |           |           |           |           |
| Maintenance reserves 59,453 92,497 99,529 104,724 108,090  |                   |           |           |           |           |           |           |
|  | 2,085,653         | 2,206,365 | 2,236,121 | 2,269,033 | 2,303,749 | 2,303,749 | 2,315,267 |
| Unearned revenue 17,863 43,533 41,687 39,735 39,294  | _,,               | _,        | _,,       | _,,       | _,,       | _,,       | _,,,,_,,  |
| Debt modeling  |                   |           |           |           |           |           |           |
| _  | 2,085,653         | 2,206,365 | 2,236,121 | 2,269,033 | 2,303,749 | 2,303,749 | 2,315,267 |
| as % of leasing portfolio 87.5% 85.3% 81.5% 84.0% 81.7% 83.0%  | 83.0%             | 85.0%     | 85.0%     | 85.0%     | 85.0%     | 85.0%     | 85.0%     |
| Variable rate debt 290,000 527,300 616,900 625,696   | 625,696           | 661,909   | 670,836   | 680,710   | 691,125   | 691,125   | 694,580   |
| as % of total debt 16.7% 27.1% 31.0% 30.0%   | 30.0%             | 30.0%     | 30.0%     | 30.0%     | 30.0%     | 30.0%     | 30.0%     |
| Interest expense - variable debt (5,677) (10,322) (11,505) (11,200)  | (38,704)          | (11,600)  | (11,505)  | (11,504)  | (11,542)  | (46,151)  | (46,051)  |
| % interest rate (SOFR + ~2.5%) 7.83% 7.46% 7.16%   | 6.2%              | 7.01%     | 6.86%     | 6.76%     | 6.68%     | 6.68%     | 6.63%     |
| Fixed rate debt 1,445,570 1,419,461 1,373,555 1,459,957  | 1,459,957         | 1,544,455 | 1,565,285 | 1,588,323 | 1,612,624 |           | 1,620,687 |
| as % of total debt 83.3% 72.9% 69.0% 70.0%   | 70.0%             | 70.0%     | 70.0%     | 70.0%     | 70.0%     | 70.0%     | 70.0%     |
| Interest expense - fixed debt (17,326) (14,240) (16,308) (16,425)  | (64,299)          | (17,375)  | (17,609)  | (17,869)  | (18,142)  | (70,995)  | (72,931)  |
| % interest rate 4.8% 4.0% 4.7% 4.50%   | 4.40%             | 4.50%     | 4.50%     | 4.50%     | 4.50%     | 4.40%     | 4.50%     |
| Total interest expense (66,743) (78,795) (23,003) (24,562) (27,813) (27,624)   |                   | (28,975)  | (29,114)  | (29,373)  | (20,004)  | (117,146) | (118,982) |
| Interest coverage ratio 2.43x 2.71x 3.16x 4.10x 3.06x 3.50x  | (103,002)         | (20.9/3)  | (29.114)  | (29.5/31  | (29,684)  |           |           |

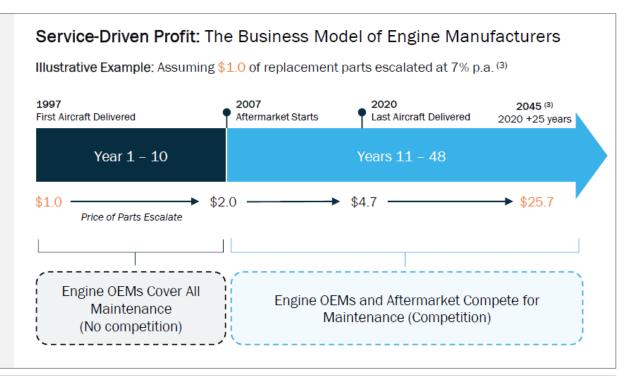
# **Appendix: Cap Table and Liquidation Value**

| Cap table  | <u>Total</u> | Per share       |       |                   |           |          |                     |
|--|--------------|-----------------|-------|-------------------|-----------|----------|---------------------|
| Market cap                                       | \$1,330      | \$201.3         |       |                   |           |          |                     |
| (+) Total debt                                   | \$2,000      | \$302.8         |       |                   |           |          |                     |
| (-) Cash and cash equiv.                         | \$14         | \$2.2           |       |                   |           |          |                     |
| (+) Preferred shares                             | \$63         | \$9.5           |       |                   |           |          |                     |
| Enterprice value                                 | \$3,378      | \$511.5         |       |                   |           |          |                     |
| Multiple valuation                               |              |                 |       |                   |           |          |                     |
|  | P/E          | Discount to FTA | 1     | <b>Current TP</b> | N12M TP   | % upside | Thinkcell waterfall |
| N12M TP@10.0x P/E                                | 10.0x        | (75%)           | 39.8x | \$252.5           | \$333.5   | 66%      | \$333.5             |
| N12M TP@20.0x P/E                                | 20.0x        | (50%)           |       | \$505.0           | \$666.9   | 231%     | \$333.5             |
| N12M TP@39.8x P/E                                | 39.8x        | 0%              |       | \$1,005.0         | \$1,327.2 | 559%     | \$660.3             |
|  | EV/EBITDA    | Discount to FTA | ,     | Current TP        | N12M TP   |          |                     |
| N12M TP@8.0x EV/EBITDA                           | 8.0x         | (61%)           | 20.5x | \$597.1           | \$396.3   | 97%      | \$396.3             |
| N12M TP@15.0x P/E                                | 15.0x        | (27%)           |       | \$1,119.5         | \$1,014.4 | 404%     | \$618.2             |
| N12M TP@20.5x P/E                                | 20.5x        | 0%              |       | \$1,530.0         | \$1,500.2 | 645%     | \$485.7             |
| Liquidation value                                | Total        | Per share       |       |                   |           |          |                     |
| NBV as of FY23 year-end                          | \$439        | \$66.5          |       |                   |           |          |                     |
| \$400m equipment portfolio adjustment as of FY23 | \$400        | \$60.6          |       |                   |           |          |                     |
| 25% engine value appreciation                    | \$528        | \$80.0          | 25%   |                   |           |          |                     |
| Adjusted liquidation value as of now             | \$1,367      | \$207.0         |       |                   |           |          |                     |

### **Appendix: Engine OEM Unit Economics**

# The Engine Platform Lifecycle

- Boeing and Airbus form a duopoly, competing fiercely to deliver new airplanes to airlines – exerts downward pressure on suppliers
- As a result, Engine Original Equipment Manufacturers ("Engine OEMs") operate under a razor-blade economic model (1):
  - Razor: Sell new engines at minimal to no profit
  - Blades: Sell replacement parts through maintenance over next 40 years (2) – price of parts escalate ~7%+ per year (3)
- Engine maintenance is normally completed every 5 years
  - Airlines' third-largest expense, after fuel and labor



### Aftermarket Opportunity

Engine OEMs open maintenance networks to make services more accessible, thereby creating a longer-lasting platform.

Benefit to OEM

Longer-lasting platforms are accretive to razor-blade model

Substantial reward for aftermarket players capable of innovating cost-saving solutions

# **Appendix: Supply and Demand Imbalance of Jet Engine**

There's a shortage of aircraft, a shortage of engines and a shortage of spare parts... The durability of new technology engines is not as good as its predecessors. Together with our partners, we have had the ability to predict the demand driven by these phenomena

Tom Slattery, AerCap Executive VP of Engines, May 8, 2024

#### **OEM Delays**

So whilst there is plenty of discussion about when the "OEMs will return to their pre-COVID output rates, many seem to overlook the 2,700 new technology aircraft that simply have not been built in the last 5 years

AerCap, February 23, 2024

### Supply chain strains set to weigh on aviation industry bounce-back

European planemaker Airbus, said it was sending "dozens and dozens" of engineers deep into supply chains to unlock bottlenecks, and aircraft maintenance firms such as Lufthansa Technik said they were stocking more spare parts to mitigate delay

Reuters, February 23, 2024

#### **Next-Gen Engine Durability**

It's the airplane of the future. It's still grounded RTX-owned Pratt & Whitney has said that many of its PW1500G turbofans, which were supposed to last 20,000 flight cycles, should be sent to the shop at 5,000

Wall Street Journal, September 10, 2024

### Airbus A320 output throttled by leap engine blade issues

Bloomberg, July 26, 2024

### RTX engine issue will ground 350 planes per year through 2026

RTX...will have to pull a total of 600 to 700 engines off their Airbus A320neo jets for lengthy quality inspections between 2023 and 2026

Reuters, September 11, 2023

#### **Limited MRO Capacity**

Aircraft engine maintenance times are higher than ever due to supply shortages

Aircraft engine MRO demand is likely to experience a near-term peak in 2026 and remain constrained through the end of the decade. The next large surge in demand from new-generation engines will begin towards the end of 2030

Simple Flying, July 20, 2024

"We have to fight every day to get the parts. This is true for Safran and also the whole industry," Andriès said in an interview. "We've gone from an unprecedented crisis of demand back in 2020. Now demand is back but we are in an unprecedented crisis of supply"

Olivier Andriès, Safran Executive, June 14, 2023

New Engine Supply Constraints and Limited MRO Capacity Drive Demand for Spare Engines for Years to Come



# **Badger Meter Overview**

# Revolutionizing Water Management with Smart Metering and Software Solutions

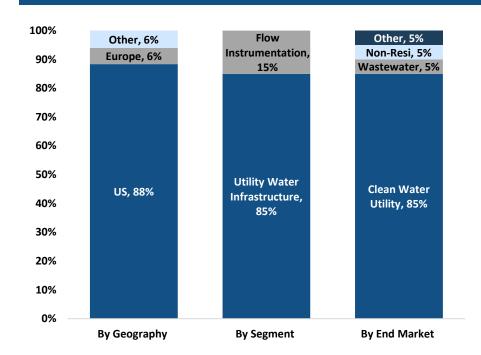
### **Company Description**

- Pure-play provider of leading smart water management solutions
- Solutions encompass smart measurement hardware, reliable communications, and data analytics software

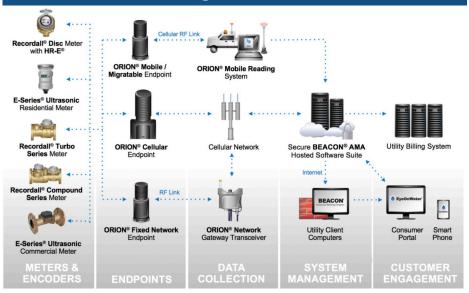
### **Trading and FY23 Financial Data**

| Current Price (\$)  | 221.00        | Revenue (\$M) | 704  |
|---------------------|---------------|---------------|------|
| Market Cap (\$M)    | 6,554         | Gross Margin  | 39%  |
| EV (\$M)            | 6,295         | EBITDA (\$M)  | 146  |
| 52W Low / High (\$) | 139.50-230.76 | EPS (\$)      | 3.14 |

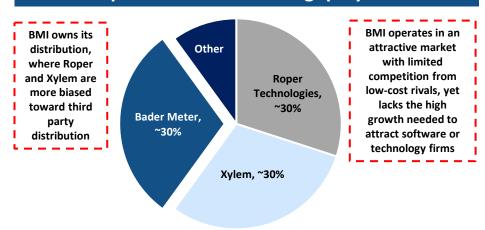
### **Revenue Breakdown**



### **BMI Offers Integrated Water Solutions**



### **BMI Operates in a Stable Oligopoly Market**



Sources: FactSet, Company Filings, Investor Presentations



# **Badger Meter: Flowing Towards The Future**

# We Have a Chance to Invest in an Industry Leader with Secular Growth Market Exposure and an Emerging SaaS Platform

#### **Investment Thesis**

### Why is There an Opportunity?

BMI's Comprehensive Product Portfolio Positions the Company to Capitalize on the Secular Shift Toward Smart Water Metering Hardware

Sell-side estimates underestimate the growth potential of metering hardware sales as utilities shift from legacy and Advanced Meter Reading (AMR) systems to Advanced Metering Infrastructure (AMI)

Accelerating Adoption of AMI Technology Drives
Stronger Software Sales and Fuels the Development
of a Scalable, Recurring Revenue SaaS Platform

Consensus projections underestimate the growth of software as a share of total sales, overlooking the nearly 100% attachment rate between software and AMI meters, driving an increasing proportion of recurring revenue over time

Accretive Portfolio Mix Shift and Cost Optimization
Drive Sustainable Margin Expansion and Propel
Earnings Growth

The market has yet to fully appreciate the anticipated margin expansion driven by the growing share of SaaS in BMI's business, enhancing the overall gross margin profile and delivering attractive incremental margins

# **These Opportunities Underpin Our Divergence From Consensus**

#### **Team Estimates Consensus Estimates** FY 2026-E FY 2026-E FY 2023-A Growth Growth \$704M 13.5% CAGR \$958M 10.8% CAGR Revenue \$1,029M 40.0% **Gross Margin** 39.3% 41.6% 230bps 70bps **Operating Margin** 16.8% 22.0% **520bps** 20.3% 350bps 24.3% CAGR 18.9% CAGR **EPS** \$3.14 \$6.03 \$5.28

Sources: FactSet, Internal Model Projections



# **Investment Thesis #1 – Transition to Smart Metering**

# **Utility-Driven AMI Transition Fuels Hardware Growth**

### U.S. Utilities Drive Demand for Smart Water Meters to Reduce Water Loss and Lowers Costs



#### **Present**

Every year, U.S. Utilities underbill 20% of water, known as non-revenue water

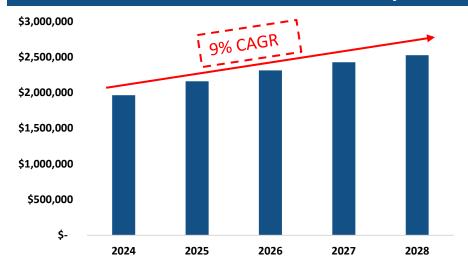


Utilities are facing a labor shortage with ~50% of employees retiring over the next 10 years

Today's meters require manual reading or drive-by radio capture



### U.S. Smart Water Meter Market: ~\$2.5B by 2028





- AMI enables remote, on-demand meter readings, eliminating the need for manual or drive-by readings
- Only 1/3 of U.S. utilities have adopted AMI

### **Market Undervalues Utilities' Transition to AMI**

| WSSC Cost Benefit Ar        | nalysis ('( | 000)      |
|-----------------------------|-------------|-----------|
| NPV of Life Cycle Cost      | \$          | (256,826) |
| NPV of Turnover Savings     | \$          | 35,663    |
| NPV of Labor Savings        | \$          | 17,992    |
| NPV of Effiency Gains       | \$          | 371,096   |
| NPV of Other Costs/Benefits | \$          | (30,946)  |
| Total NPV                   | \$          | 136,979   |
| Payback Period              |             | 11 years  |
|                             |             |           |

BMI Wins Share by Reducing the NPV of Life Cycle Cost by Using a Pre-existing Cellular Network to Reduce Upfront Cost



# Investment Thesis #2 – Evolution Towards SaaS

# **AMI Hardware Upgrade Cycle Drives Software Growth**

### **BMI – Cellular Network**

Two-Way Communication
Encrypted Data
Two-Way Communication
Secure M2M Private Network
(Not On Public Internet)

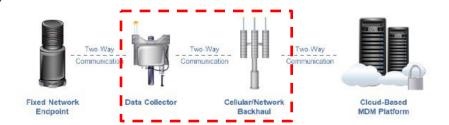
Cellular
Endpoint

Existing Cellular
Network

Cloud-Based
MDM Platform

BMI's approach reduces upfront costs and friction for utilities by partnering with pre-existing cellular networks, lowering initial expenses

### **Competition – Fixed Network**



Utilities incur higher upfront costs, including expenses for fixed network infrastructure, as well as ongoing, recurring fees for annual maintenance

### Maximizing Recurring Revenue: 100% Software Attachment to AMI Meters

VS

AMI meters include **BEACON network and software services** that have a ~100% attachment rate with the physical meter

### **Beacon SaaS Interface**



### **The Growing Impact of Software**

| Segment Revenues             |    |         |    |         |    |         |    |         |  |
|------------------------------|----|---------|----|---------|----|---------|----|---------|--|
| Net Sales                    |    | FY24E   |    | FY25E   |    | FY26E   |    | FY27E   |  |
| Hardware                     | \$ | 766,849 | \$ | 856,278 | \$ | 918,304 | \$ | 956,327 |  |
| Software                     |    | 60,377  |    | 82,610  |    | 111,170 |    | 145,415 |  |
| Segment Revenue Contribution |    |         |    |         |    |         |    |         |  |
| % of Net Sales               |    | FY24E   |    | FY25E   |    | FY26E   |    | FY27E   |  |
| Hardware                     |    | 92.7%   |    | 91.2%   |    | 89.2%   |    | 86.8%   |  |
| Software                     |    | 7.3%    |    | 8.8%    |    | 10.8%   |    | 13.2%   |  |
| Segment Growth Profiles      |    |         |    |         |    |         |    |         |  |
| YoY Growth                   |    | FY24E   |    | FY25E   |    | FY26E   |    | FY27E   |  |
| Hardware                     |    | 16.3%   |    | 11.7%   |    | 7.2%    |    | 4.1%    |  |
| Software                     |    | 36.2%   |    | 36.8%   |    | 34.6%   |    | 30.8%   |  |
|                              |    |         |    |         |    |         |    |         |  |

SaaS is Expected to Grow at >30% CAGR through FY27



#### **Investment Thesis #3 – Margin Expansion**

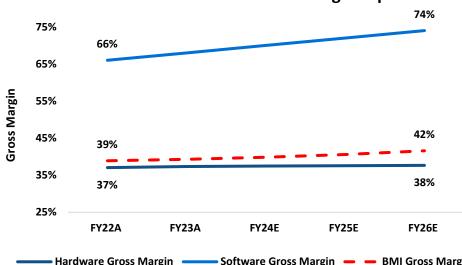
#### **Software Growth Drives Sustainable Margin Expansion**

Management Does Not Provide Guidance, and the Street Does Not Bifurcate Software and Hardware Segments in its Modeling...

- Consensus underestimates the magnitude of the structural improvement in BMI's forward margin profile, driven by its developing SaaS platform
- Software offers an increasing recurring revenue stream with a ~30%+ gross margin uplift, compared to Hardware, driving both incremental and structural gross margin expansion
- The transition from legacy mechanical to AMI meters enhances value-based pricing initiatives and drives hardware margin expansion
- We believe our build-up approach is directionally correct and underscores the underappreciated importance of Software

Software Segment Increasing in Revenue Mix From 6% to 11% by FY26

#### **Software Growth Drives Gross Margin Expansion**



...However, Implied Margins Can be Discovered Through Comparable Analysis

| Smart Meter Software - Compa | arable | Margins     |                 |                 |
|------------------------------|--------|-------------|-----------------|-----------------|
| Ropper Technologies          |        | FY21A       | FY22A           | FY23A           |
| Software - Revenue           | \$     | 4,833,800   | \$<br>5,371,800 | \$<br>6,177,800 |
| Software - COGS              |        | (1,426,200) | (1,619,000)     | (1,870,600)     |
| Software - Gross Margins     |        | 70.5%       | 69.9%           | 69.7%           |

Assumed BMI Software Margins 66.0% 68.0%

ROP operates a mature software platform across various verticals, including water metering. We applied a margin discount to BMI due to its platform's infancy, expecting incremental margins to improve as fixed costs are absorbed.

Smart Meter Hardware - Comparable Margins Xvlem FY21A FY22A FY23A 4.978.000 Hardware - Revenue 4.684.000 \$ 6.291.000 Hardware - COGS (2,831,000)(3,002,000)(3,817,000)Hardware - Gross Margins 39.6% 39.7% 39.3% Itron Hardware - Revenue 1.609.634 \$ 1,435,510 \$ 1.784.264 Hardware - COGS (1,131,646)(1,011,757)(1,178,622)Hardware - Gross Margins 29.7% 29.5% 33.9% 37.1% 37.4% Implied BMI Hardware Margins

XYL targets AMI meters, while ITRI sells primarily mechanical and AMR. We are confident in BMI's implied margins, derived from consolidated and assumed software margins, due to its growing AMI-focused portfolio.

| Badger Meter - Margin Analysis  |       |       |       |
|---------------------------------|-------|-------|-------|
| <u>BMI</u>                      | FY24E | FY25E | FY26E |
| Hardw are Gross Margin          | 37.5% | 37.6% | 37.7% |
| Software Gross Margin           | 70.0% | 72.0% | 74.0% |
| Consolidated Gross Margin       | 39.8% | 40.6% | 41.6% |
| BMI Software Incremental Margin | 75.5% | 77.4% | 79.8% |

The increasing revenue mix and incremental margin from software drive a divergence from consensus estimates.

| Consensus V. Estimates |       |       |       |  |  |  |  |
|------------------------|-------|-------|-------|--|--|--|--|
| Gross Margin           | FY24E | FY25E | FY26E |  |  |  |  |
| Estimate               | 39.8% | 40.6% | 41.6% |  |  |  |  |
| Consensus              | 39.6% | 39.4% | 40.0% |  |  |  |  |
| Delta                  | 0.2%  | 1.2%  | 1.5%  |  |  |  |  |
|                        |       |       |       |  |  |  |  |



#### Valuation Summary – Substantiating the Multiples

# BMI's Strong Fundamentals and SaaS Evolution Justify Premium Valuation Multiples

BMI is primarily viewed as a hardware manufacturer; however, its true value lies in its emergence as a SaaS platform, poised for substantial earnings growth through high-margin recurring revenue. Its forward earnings profile significantly outpaces peers, including 2x that of core peer XYL, justifying its current multiple. We base our valuation on forward trading multiples of 45.2x P/E and 30.4x EV/EBITDA.

| Comparable Company Valuation Multiples     |        | Market         | Data             |          |       | P/E   | EV/E  | BITDA | EBITDA % | ROA      | ROE      | ROIC     | Revenue         | EPS             |
|--|--------|----------------|------------------|----------|-------|-------|-------|-------|----------|----------|----------|----------|-----------------|-----------------|
| Company                                    | Ticker | Stock<br>Price | Mkt Cap<br>(\$M) | EV (\$M) | 2025  | 2026  | 2025  | 2026  | 5YR Avg. | 5YR Avg. | 5YR Avg. | 5YR Avg. | FWD 3YR<br>CAGR | FWD 3YR<br>CAGR |
| Consolidated Badger Meter (Consensus)      | BMI    | \$ 221.00      | \$ 6,554         | \$ 6,295 | 45.2x | 41.8x | 30.4x | 27.6x | 20.7%    | 12.1%    | 16.0%    | 15.8%    | 10.8%           | 18.9%           |
| Consolidated Badger Meter (Team Estimates) |        |                |                  |          | 42.9x | 36.6x | 28.2x | 24.4x | 20.7%    | 12.1%    | 16.0%    | 15.8%    | 13.5%           | 24.3%           |
| Smart Water Metering Comparables           |        |                |                  |          |       |       |       |       |          |          | •        | 9        | 7               | <b>9</b>        |
| Roper Technologies                         | ROP    | 560.14         | 61,115           | 68,343   | 28.0x | 25.7x | 22.0x | 20.1x | 38.0%    | 5.6%     | 10.9%    | 6.6%     | 10.2%           | 9.3%            |
| Xylem                                      | XYL    | 126.87         | 31,008           | 32,306   | 26.7x | 23.8x | 16.8x | 15.3x | 16.4%    | 4.6%     | 11.2%    | 6.6%     | 8.4%            | 12.2%           |
| Zurn ⊟kay Water Solutions Corporation      | ZWS    | 39.93          | 6,915            | ·        | 29.7x | 26.7x | 17.8x | 16.4x | 17.1%    | 3.4%     | 7.8%     | 4.5%     | 3.9%            | 15.6%           |
| tron, Inc.                                 | ITRI   | 118.93         | 5,470            | 5,816    | 23.7x | 20.5x | 17.5x | 15.1x | 8.8%     | 0.0%     | (0.4%)   | (0.0%)   | 6.1%            | 20.0%           |
| Median                                     |        |                |                  |          | 27.4x | 24.7x | 17.6x | 15.8x | 16.8%    | 4.0%     | 9.4%     | 5.5%     | 7.2%            | 13.9%           |
| Fundamental Growth Comparables             |        |                |                  |          |       |       |       |       | 0        |          | 2        | <u> </u> | •               | 3               |
| ServiceNow , Inc                           | NOW    | 1,060.60       | 225,600          | 221,400  | 63.9x | 52.4x | 46.8x | 38.5x | 10.3%    | 6.1%     | 17.1%    | 11.6%    | 21.1%           | 23.3%           |
| Amphenol                                   | APH    | 74.29          | 94,662           | 98,748   | 34.4x | 30.6x | 21.3x | 19.5x | 23.6%    | 11.6%    | 36.4%    | 15.5%    | 14.6%           | 17.2%           |
| Quanta Services                            | PWR    | 341.92         | 51,344           | 54,968   | 38.3x | 32.6x | 24.1x | 21.3x | 8.3%     | 4.8%     | 10.7%    | 7.1%     | 11.6%           | 17.9%           |
| AAON                                       | AAON   | 137.42         | 11,504           | 11,583   | 46.7x | 38.5x | 29.1x | 24.8x | 20.6%    | 15.4%    | 21.2%    | 19.8%    | 14.0%           | 17.5%           |
| Median                                     |        |                |                  |          | 42.5x | 35.5x | 26.6x | 23.0x | 15.5%    | 8.9%     | 19.2%    | 13.5%    | 14.3%           | 17.7%           |
|  |        |                |                  |          |       |       |       |       | 4        |          | 2        | 2        |                 | 3               |

#### **Multiple Substantiation:**

Premium EBITDA Margins
Surpassing Peer Performance

Strong ROA, ROE, and ROIC
Superior to Smart Water Comparables

Robust Growth Profile

Aligned with Fundamental Growth Peers



#### **Valuation Summary – Overview**

#### 2025 Base Case Price Target of \$274 Indicates 24% Upside

Valuation Methodology: Price Targets Derived from Averaged P/E and EV/EBITDA Multiple Results Across Downside, Base, and Upside Case Scenarios

### **P/E**Based on Current Forward Trading Multiple

| Valuation Summary: 2025 Target Price |    |          |    |       |    |        |  |  |  |
|--------------------------------------|----|----------|----|-------|----|--------|--|--|--|
|                                      |    | Downside |    | Base  |    | Upside |  |  |  |
|                                      |    | Case     |    | Case  |    | Case   |  |  |  |
| 2026 EPS                             | \$ | 4.79     | \$ | 6.03  | \$ | 6.97   |  |  |  |
| Forw ard P/E Multiple                |    | 34.9x    |    | 45.2x |    | 47.2x  |  |  |  |
| Target Price                         | \$ | 167      | \$ | 273   | \$ | 329    |  |  |  |
|                                      |    |          |    |       |    |        |  |  |  |
| 2026 EBITDA (\$M)                    | \$ | 210      | \$ | 259   | \$ | 295    |  |  |  |
| Forward EV/EBITDA Multiple           |    | 22.1x    |    | 30.4x |    | 32.4x  |  |  |  |
| Total Enterprise Value (\$M)         | \$ | 4,640    | \$ | 7,856 | \$ | 9,564  |  |  |  |
| (+) Net Cash (M)                     |    | 259      |    | 259   |    | 259    |  |  |  |
| Total Equity Value (\$M)             | \$ | 4,899    | \$ | 8,115 | \$ | 9,823  |  |  |  |
| (÷) Shares Outstanding (M)           |    | 30       |    | 30    |    | 30     |  |  |  |
| Target Price                         | \$ | 166      | \$ | 275   | \$ | 332    |  |  |  |
|                                      |    |          |    |       |    |        |  |  |  |
| Average Target Price                 | \$ | 167      | \$ | 274   | \$ | 331    |  |  |  |
| Upside / (Downside)                  |    | -25%     |    | 24%   |    | 50%    |  |  |  |

| Forecast Assumptions     |          |       |        |  |  |  |  |  |
|--------------------------|----------|-------|--------|--|--|--|--|--|
|                          | Downside | Base  | Upside |  |  |  |  |  |
| FY23-FY28 Revenue CAGR   | 7.9%     | 10.7% | 13.3%  |  |  |  |  |  |
| FY23-FY28 Average GM (%) | 39.7%    | 41.4% | 42.3%  |  |  |  |  |  |
| FY23-FY28 EPS CAGR       | 14.3%    | 20.4% | 25.1%  |  |  |  |  |  |

### **EV/EBITDA**Based on Current Forward Trading Multiple

| Base                       | Case | e: Consens | us v. Estimat | es |         |             |
|----------------------------|------|------------|---------------|----|---------|-------------|
| Revenue                    |      | FY23A      | FY24E         |    | FY25E   | FY26E       |
| Estimate                   | \$   | 703,592    | 827,225       | \$ | 938,887 | \$1,029,474 |
| Consensus                  |      | 703,592    | 822,850       |    | 895,963 | 958,145     |
| Delta (%)                  |      |            | 0.5%          |    | 4.8%    | 7.4%        |
| Implied Growth - Team      |      | 24.4%      | 17.6%         |    | 13.5%   | 9.6%        |
| Implied Growth - Consensus |      | 24.4%      | 16.9%         | )  | 8.9%    | 6.9%        |
| <u>Gross Margin</u>        |      | FY23A      | FY24E         | į  | FY25E   | FY26E       |
| Estimate                   |      | 39.3%      | 39.8%         | ,  | 40.6%   | 41.6%       |
| Consensus                  |      | 39.3%      | 39.6%         |    | 39.4%   | 40.0%       |
| Delta                      |      |            | 0.2%          |    | 1.2%    | 1.5%        |
| Implied Growth - Team      |      | 1.0%       | 1.4%          |    | 1.9%    | 2.4%        |
| Implied Growth - Consensus |      | 1.0%       | 0.8%          | •  | (0.4%)  | 1.6%        |
| <u>EPS</u>                 |      | FY23A      | FY24E         |    | FY25E   | FY26E       |
| Estimate                   | \$   | 3.14       | \$ 4.29       | \$ | 5.15    | \$ 6.03     |
| Consensus                  |      | 3.14       | 4.25          |    | 4.89    | 5.28        |
| Delta (%)                  |      |            | 1.0%          |    | 5.3%    | 14.2%       |
| Implied Growth - Team      |      | 38.9%      | 36.7%         | )  | 20.0%   | 17.1%       |
| Implied Growth - Consensus |      | 38.9%      | 35.4%         |    | 15.1%   | 8.0%        |
|                            |      |            |               |    |         |             |

Sources: FactSet, Internal Model Projections



#### **Risks to Valuation**

# While Key Valuation Risks Exist, BMI Is Strategically Positioned to Mitigate Them

# Water Utilities Deployment Schedules

- Risk: Any shift in capital spending priorities away from ultrasonic technologies, or a deceleration in their deployment schedule, could pose a headwind to BMI.
- Mitigant: BMI's expanding SaaS platform generates stable, recurring revenue, progressively reducing dependency on new utility partnerships. Additionally, the Industrial Flow segment broadens the customer base.

#### **Moderate**

# Supply Chain Bottlenecks and Input Cost Inflation

- **Risk:** BMI faces exposure to fluctuating raw material costs (e.g., brass, cast iron, plastic) and electronic components (e.g., microprocessors). These disruptions can increase input costs, pressure gross margins, and impact BMI's ability to meet demand.
- Mitigant: BMI mitigates this risk by dual sourcing components through strategic partnerships and passing on increased costs to consumers.

#### **Moderate**

Competitive
Landscape and
Innovation
Requirements

- **Risk:** Larger, better-capitalized rivals could also pressure BMI with aggressive pricing, leading to potential market share loss.
- Mitigant: BMI's decades of market leadership and first-mover advantage provide unmatched customer data, enabling continuous innovation that aligns with customer demands. Strong relationships and value-added solutions help mitigate competitive pricing pressures.

Low







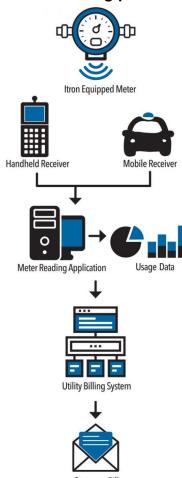




#### Appendix: Investment Thesis #1 - Conversion to AMI

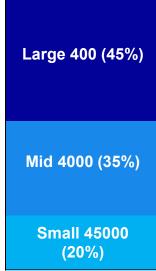
#### The market is underestimating Utility Segment growth as more utilities upgrade to smart systems to reduce water losses

#### **AMR** reading process

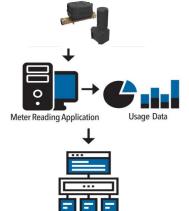


Utilities gradually upgrade their metering infrastructure through their CAPEX and rate case cycles. Utilities save labor costs and time by converting from AMR to AMI

#### >50K US Utilities



**AMI** reading process



- The meter replacement cycle is driven by utility capital expenditures and results of rate cases state by state
- If utilities can prove the long-term merits of upgraded metering through cost benefit analysis, state utility commissions may allow for rate increases in the short run to compensate for cost of implementation
- These rate cases, which are public record, also provide a window into how utilities evaluate the merits of AMR and AMI
- In one state we observed via utility affidavit that switching to smart metering reduced monthly metering hours from ~1,500 per month to ~300 per month and a 71% reduction in billing errors
- 65% of the national meter install base has converted to some form of smart meter (AMR or AMI) and only 1/3 of the >50K US utilities have begun the conversion process form AMR to AMI

Agua, a multi-state water utility, showed the benefits of smart meters In testimony to state water utility commissions

| Aqua Case Study       |           |          |  |  |  |  |  |  |
|-----------------------|-----------|----------|--|--|--|--|--|--|
|                       | Pre-Smart | Smart    |  |  |  |  |  |  |
| Monthly Reading Hours | 1,476     | 296      |  |  |  |  |  |  |
| Corrected Billings    | 2.63%     | 0.75%    |  |  |  |  |  |  |
| Leak/Tamper Detection | -         | Improved |  |  |  |  |  |  |
| Uncollected Bills     | _         | Declined |  |  |  |  |  |  |
|                       |           |          |  |  |  |  |  |  |



#### **Appendix: Investment Thesis #1 – Aqua Rate Case**

#### Switching to Smart Metering Benefits Utilities, but Some are **Hesitant to pay for Fixed Network Costs of AMI**

expected to reduce monthly meter reading hours from 1,476 per month to 296 per month, thereby resulting in a more efficient meter reading program. As the AMR technology is deployed in North Carolina, Company staff will be able to spend more time on service calls, customer inquiries, leak detection, and other work that can improve customers' service experience.

AMR technology also provides information to more quickly identify customer issues such as high use or zero use through indicators and tamper reports available with monthly meter reading. Currently, this information is used by Aqua NC as part of month-end reporting to create priority service orders. The information is used in coordination with field investigations to identify and investigate customer leaks, meter malfunctions, and theft of service. The

**Aqua Case Study** Pre-Smart **Smart** 296 Monthly Reading Hours 1.476 2.63% 0.75%

**Improved** 

Declined

AMR technology has also reduced billing errors due to human error in manual reads. This is demonstrated by the decreased number of estimated bills

for customers with AMR technology as compared to customers with conventional meters. On average, estimated bills result for approximately 0.75% of Aqua NC accounts read by AMR technology versus 2.63% of Company accounts read by the conventional method. Aqua expects this similar decrease in percent of estimates to be realized progressively as the exchange program continues through 2027.

In addition, Company witness Thompson testified that the Company is converting to AMR technology in a manner that will facilitate upgrades to Advanced Metrology Infrastructure (AMI) technology as that technology becomes more cost effective. Agua NC has ensured that the meters and meter reading and data logging technology, ERTs that are being installed as part of this program can also be utilized if later evaluations should justify an upgrade to AMI technology. Aqua NC does not believe the additional cost of AMI (repeaters, cell towers, and security) are cost-justified, presently. Furthermore, the meters being currently installed are both AMR and AMI capable, as are the 100W ERTs that are currently being used to implement the AMR program. The 100W ERTs offer an advanced two-way meter data collection using handheld (AMR), mobile (AMR), fixed network (AMI), and combination hybrid solutions. The meter and the 100W

Utilities like Aqua already see the benefits of switching to Smart Metering like AMR. AMI can further these benefits, but some Utilities are hesitant to pay the upfront cost of building out fixed infrastructure. This is why BMI is working to use pre-existing cellular networks

Leak/Tamper Detection

Corrected Billings

Uncollected Bills



#### **Appendix: Investment Thesis #1 – WSSC AMI Analysis**

#### **AMI Meters Provide Positive NPV Over a 20 Year Lifecycle**

Table 3 – Comparison of AMI Acquisition Project Costs and Meter Populations
(WSSC Water estimate = \$423/meter)

| Water Utility     | AMI Status                   | Acquisition Cost   | Meter Population |
|-------------------|------------------------------|--------------------|------------------|
| City of Baltimore | Complete (2017) <sup>3</sup> | \$180M (\$439/mtr) | 410,000          |
| Detroit           | Complete (2012)              | \$150M (\$750/mtr) | 200,000          |
| Cleveland         | Complete (2016)              | \$86M (\$203/mtr)  | 425,000          |
| Austin Water      | In Progress                  | \$95M (\$358/mtr)  | 265,000          |
| Columbia SC       | In Progress                  | \$49M (\$350/mtr)  | 140,000          |
| Akron             | In Progress                  | \$35M (\$437/mtr)  | 80,000           |

Table 4 - Summary of Estimated Lifecycle Costs for Project, (20 Year Lifecycle)

| COSTS                                   | NET P | RESENT VALUE | C  | ASH VALUE   |
|---|-------|--------------|----|-------------|
| Capital Project Cost                    | \$    | 146,589,746  | \$ | 165,285,507 |
| 10% Project Contingency                 | \$    | 14,658,975   | \$ | 16,528,551  |
| Total Plus 10%<br>Contingency           | \$    | 161,248,721  | \$ | 181,814,058 |
| Project Management                      | \$    | 7,687,530    | \$ | 8,667,982   |
| System Integration                      | \$    | 8,529,684    | \$ | 9,291,800   |
| Salvage Value of Meters                 | \$    | (1,040,586)  | \$ | (1,173,300) |
| Opt-Out Related Costs                   | \$    | 8,068,174    | \$ | 9,816,168   |
| <b>Total Acquisition Cost</b>           | \$    | 184,493,524  | \$ | 208,416,707 |
| Network Operating Costs                 | \$    | 28,160,727   | \$ | 46,896,273  |
| Meter/MIU Maintenance<br>Costs          | \$    | 14,389,883   | \$ | 24,049,392  |
| Integration Post-<br>Production Support | \$    | 4,327,952    | \$ | 4,960,000   |
| Monthly Billing Operating Costs         | \$    | 25,453,600   | \$ | 44,721,194  |
| 20-Year Lifecycle Cost                  | \$    | 256,825,686  | \$ | 329,043,566 |

Table 6 - Summary of Tangible Benefits for Project, (20 Year Lifecycle)

|   | BENEFITS                           | NET PRESENT<br>VALUE | CASH VALUE         |   |
|---|------------------------------------|----------------------|--------------------|---|
|   | Savings on Normal Meter Turnover   | \$<br>35,663,289     | \$<br>48,814,535   |   |
| Ę | Labor Savings                      | \$<br>17,991,615     | \$<br>30,036,274   | ] |
|   | Carbon Footprint Reduction         | \$<br>1,607,438      | \$<br>2,525,288    |   |
|   | Reduction in Workers' Comp. Claims | \$<br>1,508,039      | \$<br>2,365,932    |   |
|   | Domestic Leak Detection            | \$<br>(34,601,136)   | \$<br>(56,501,126) |   |
| Ē | Revenue Gain from Meter Accuracy   | \$<br>371,096,064    | \$<br>588,407,479  | ] |
| Ę | Total Benefits                     | \$<br>393,265,309    | \$<br>615,648,382  |   |

Table 7 - Summary of AMI Project Economics

| Summary Statistic  | Value             |
|--|-------------------|
| Simple Payback (Years)   | 11                |
| Present Value Costs  | \$<br>256,825,686 |
| Present Value Benefits   | \$<br>393,265,309 |
| Net Present Value  | \$<br>136,439,623 |
| Internal Rate of Return <sup>5</sup>   Modified Internal Rate of Return <sup>6</sup> | <br>13.3%         |
| Benefit/Cost Ratio   | <br>1.53          |



#### **Appendix: Investment Thesis #1 – Conversion to AMI**

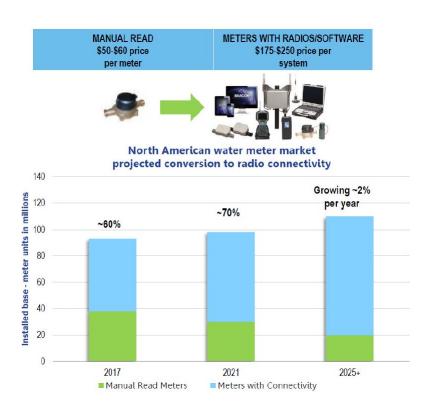
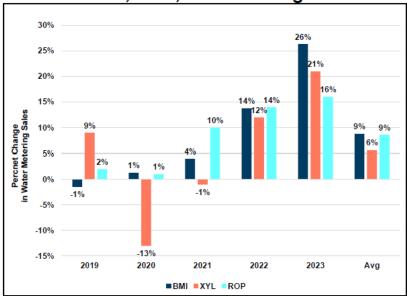


Exhibit 5: BMI, ROP, XYL Metering Growth



Source: Company data; SRP estimates.



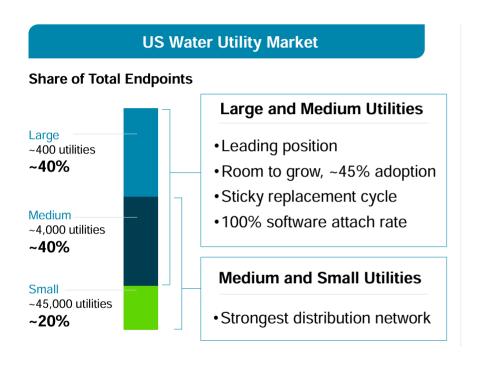
### **Appendix: Investment Thesis #1 – Implied Hardware Share**

|   |       | FY23      |       | FY24      | FY25            | FY26            |
|---|-------|-----------|-------|-----------|-----------------|-----------------|
|   |       | De c-23A  |       | De c-24E  | De c-25E        | De c-26E        |
| North America Smart Water Metering Market                 | \$    | 1,708,720 | \$    | 1,965,028 | \$<br>2,161,531 | \$<br>2,312,838 |
| Consensus BMI Market Share in Smart Water Metering Market |       | 38.6%     |       | 38.7%     | 37.6%           | 37.3%           |
| Consensus Implied BMI Hardware Revenue                    | ••••• | 659,275   | ••••• | 761,078   | <br>813,121     | <br>862,517     |
| Consensus Hardware Breakdown                              |       |           |       |           |                 |                 |
| Utility Water   |       |           | \$    | 719,867   | \$<br>786,200   | \$<br>856,300   |
| Flow Instrumentation                                      |       |           |       | 101,133   | 105,367         | 110,633         |
| Total Revenue   |       |           |       | 821,000   | 891,567         | 966,933         |
| Less: Implied Software Revenue                            |       |           |       | (59,922)  | (78,446)        | (104,416)       |
| Consensus Implied Hardware                                |       |           | \$    | 761,078   | \$<br>813,121   | \$<br>862,517   |
| Implied Market Share                                      |       |           |       |           |                 |                 |
| Team - Implied BMI Smart Water Meter Market Share         |       | 38.6%     |       | 39.0%     | 39.6%           | 39.7%           |
| Consensus - Implied BMI Smart Water Meter Market Share    |       | 38.6%     |       | 38.7%     | 37.6%           | 37.3%           |
| Delta   |       |           |       | 0.3%      | 2.0%            | 2.4%            |



#### **Investment Thesis #2 – Fixed Network (Xylem)**

#### Highly Differentiated in the Attractive AMI Market



#### Why Xylem Wins vs Cellular



**30%**Lower Annual
Operating Cost



**15-year**Full Warranty
Battery Life



99% Network coverage on FlexNet



0%
Reliance on third-party network

Winning AMI offering positions us as a trusted partner to utilities

Competitors with Fixed Networks Claim that their Network is 30% cheaper to operate. However, this means Utilities bear additional costs upfront to build a new network from scratch. Utilities, who are cost sensitive and must justify investments to recoup costs in rates cases, may opt to pay less upfront for a cellular network.



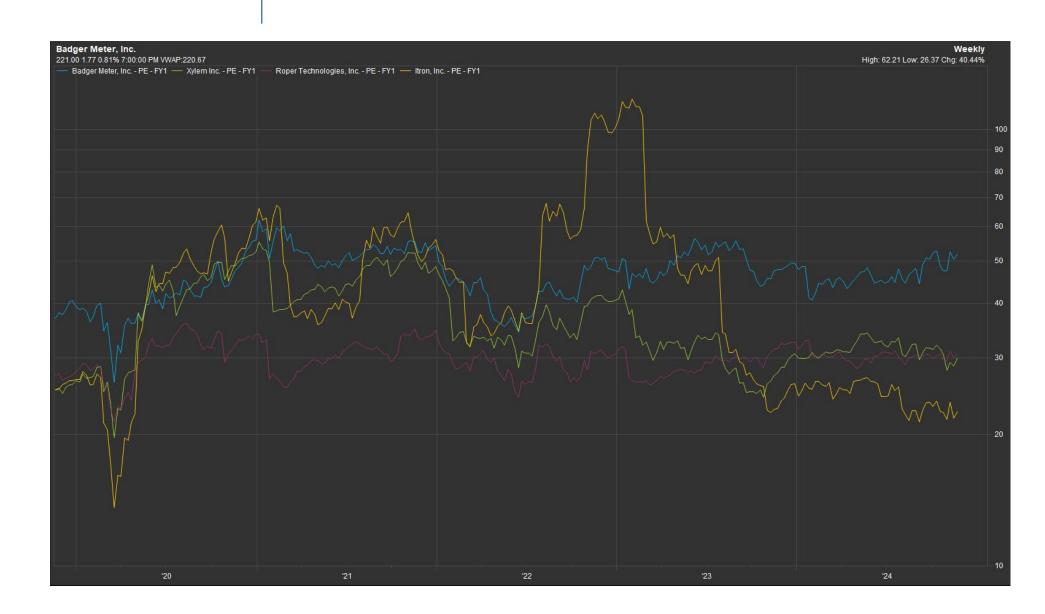
### Appendix: Investment Thesis #2 – BMI SaaS positioning





### Valuation Comparable - P/E FY1 Trading History

#### **BMI Historically Trades at a Forward Premium to Peers**





### **Comparables Description**

| Comparable Company Descriptions        |        |  |
|--|--------|--|
| Smart Water Metering Comparables       | Ticker |  |
| Roper Technologies                     | ROP    | ROP is a diversified technology company specializing in smart meter manufacturing and software solutions for utilities                     |
| Xylem                                  | XYL    | XYL produces smart meters, water pumps, filtration systems, treatment services, and software for utilities and industrial clients          |
| Zurn Elkay Water Solutions Corporation | zws    | ZWS provides water safety, control systems, flow solutions, and filtration products for utilities and industrial clients                   |
| Itron Inc                              | ITRI   | ITRI produces energy and water management solutions, including smart water meters for utilities  |
| Fundamental Growth Comparables         | Ticker |  |
| ServiceNow, Inc                        | NOW    | NOW provides cloud-based SaaS for workflow digitization and shares a similar 3-year EPS growth profile with BMI                            |
| Quanta Services                        | PWR    | PWR supplies equipment for utilities and energy infrastructure companies, with a 3-year EPS growth similar to BMI                          |
| AAON                                   | AAON   | AAON manufactures HVAC equipment and data center cooling solutions, with a 3-year EPS and revenue growth similar to BMI                    |
| Amphenol                               | APH    | APH produces electrical equipment for data centers and industrials, with a 3-year EPS growth and Return of Invested Capital similar to BMI |
|  |        |  |



#### **Capital Allocation**

#### **Longstanding Capital Allocation Priorities with Ample Liquidity to Execute**

- Internal Investment to support organic growth and sustain core business
- Grow the dividend annually in line with earnings
- Accelerate acquisitions that align to strategy and return targets

- Strong free cash flow, working capital management
- No outstanding debt obligations and \$259M of cash at September 30, 2024; \$150M untapped revolver
- August 2024 dividend increase of 26% marked 32 consecutive years of dividend increases.





### **Key Management Overview**

| Name/Title                                | Years at WMS/Industry | Experience   |
|---|-----------------------|--|
| Kenneth C. Bockhorst /<br>Chairman & CEO  | 7/7                   | Joined in 2017; Spent 20 years in operations roles at Actuant, IDEX, and Eaton               |
| Robert A. Wrocklage / CFO                 | 6/6                   | Joined in 2018; Previously served as Principal Accounting Officer at Actuant                 |
| Fred J. Begale / SVP -<br>Engineering     | 17 / 37               | Joined in 2007; Spent 20 years in Engineering Management role at Eaton before joining BMI    |
| Richard Htwe / SVP - Global<br>Operations | 1/30                  | Joined in 2023; Previously spent 30 years in Operations roles at Emerson Electric            |
| Matthew L. Stuyvenberg / SVP -<br>SaaS    | 17 / 17               | Joined in 2007; Mechanical Engineer whose last position was VP of Software and Water Quality |



#### **Management Incentives**

2023 Annual **Bonus** 2023 Annual Bonus Scale Achievement Threshold Target Maximum Actual 113.9 \$ 121.9 \$ 2023 Adjusted EBITDA \$ 131.0 \$ 146.5 **Bonus Payout** 100% 200% 50% 200% 2023 Absolute Free Cash Flow 76.0 \$ 82.0 89.0 \$ 98.1 **Bonus Payout** 50% 100% 200% 200%

|                           | 2021-2023 LTIP  | Incentive Plan Perforn | nance Awards   | LTIP Incentive<br>Result (Achievement) |
|---------------------------|-----------------|------------------------|----------------|--|
| Performance Metric        | Threshold (50%) | Target (100%)          | Maximum (200%) | Actual                                 |
| Free Cash Flow Conversion | 100.0%          | 115.0%                 | 125.0%         | 116.1% (111%)                          |
| ROIC                      | 13.5%           | 16.0%                  | 18.5%          | 23.6% (200%)                           |



### **Management Incentives Continued**

#### Summary Compensation Table for 2023 (all amounts in \$)

|   |                      |                               |              |                                     | Non-Equity<br>Plan Comp           |                    | Change in<br>Pension and<br>Non-Qualified | All Other                  |                                     |
|---|----------------------|-------------------------------|--------------|-------------------------------------|-----------------------------------|--------------------|---|----------------------------|-------------------------------------|
| Name & Principal Position   | Year                 | Salary<br>(1)                 | Bonus<br>(2) | Stock<br>Awards<br>(3)              | Annual<br>Bonus<br>(4)            | LTIP Cash<br>(5)   | Deferred<br>Compensation<br>(6)           | Compen-<br>sation<br>(7)   | Total                               |
| Kenneth C. Bockhorst<br>Chairman, President &<br>CEO                      | 2023<br>2022<br>2021 | 750,000<br>675,000<br>640,000 | :            | 1,962,621<br>1,380,249<br>1,199,221 | 1,650,000<br>968,220<br>1,408,000 | 804,752<br>276,024 | 97,362<br>34,012<br>72,945                | 84,305<br>78,611<br>78,129 | 4,544,288<br>3,940,844<br>3,674,319 |
| Robert A. Wrocklage<br>Senior Vice President - Chief<br>Financial Officer | 2023<br>2022<br>2021 | 405,000<br>368,000<br>350,000 | -            | 464,756<br>359,925<br>326,002       | 526,500<br>263,930<br>385,000     | 197,392<br>59,360  | 22,452<br>7,748<br>19,885                 | 50,737<br>47,970<br>44,430 | 1,469,445<br>1,244,965<br>1,184,677 |
| Richard Htwe <sup>(8)</sup><br>Vice President - Global<br>Operations      | 2023                 | 300,000                       | 50,000       | 154,836                             | 240,000                           | -                  |   | 36,366                     | 781,202                             |
| Kimberly K. Stoll<br>Vice President - Sales and<br>Marketing              | 2023<br>2022<br>2021 | 290,000<br>275,000<br>263,000 | :            | 180,704<br>147,894<br>134,395       | 232,000<br>143,440<br>210,400     | 102,492<br>37,100  | 8,123<br>6,433<br>6,005                   | 49,370<br>43,475<br>42,418 | 760,197<br>718,734<br>693,318       |
| Sheryl L. Hopkins<br>Vice President - Human<br>Resources                  | 2023                 | 285,000                       |              | 154,836                             | 228,000                           | -                  | 5,219                                     | 42,333                     | 715,388                             |



### **Income Statement**

|   |    | FY19      |    | FY20      |    | FY21      |    | FY22      |    | FY23      |    | FY24      |    | Y25       |    | FY26      |    | FY27      |    | FY28     |
|---|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|-----------|----|----------|
| (\$ in thousands)                                       |    | Dec-19A   |    | ec-20A    | -  | Dec-21A   |    | Dec-22A   | -  | Dec-23A   |    | Dec-24E   |    | c-25E     |    | Dec-26E   |    | Dec-27E   |    | Dec-28E  |
| Net sales   | \$ | 424,625   | ¢  | 425,544   | ¢  | 505,198   | ď  | 565,568   | ¢  | 703,592   |    | 827,225   | ¢  | 938,887   | ¢  | 1,029,474 | ¢  | 1,101,743 | ¢  | 1,169,39 |
| Cost of goods sold                                      | Ψ  | (261,097) | Ψ  | (257,295) | Ψ  | (299,714) | Φ  | (345,598) | φ  | (427,154) | φ  | (497,703) |    | (557,794) | φ  | (601,379) | Ψ  | (630,122) | Ψ  | (652,040 |
| Gross profit  |    | 163,528   |    | 168,249   |    | 205,484   |    | 219,970   |    | 276,438   |    | 329,522   |    | 381,093   |    | 428,095   |    | 471,621   |    | 517,35   |
| Selling, engineering and administration                 |    | (101,380) |    | (103,093) |    | (126,761) |    | (132,675) |    | (158,389) |    | (170,078) |    | (188,341) |    | (201,365) |    | (209,992) |    | (217,040 |
| ncome from operations                                   |    | 62,148    |    | 65,156    |    | 78,723    |    | 87,295    |    | 118,049   |    | 159,444   |    | 192,753   |    | 226,730   |    | 261,629   |    | 300,317  |
| nterest income / expense, net                           |    | (253)     |    | (30)      |    | 20        |    | 552       |    | 4,047     |    | 7,671     |    | 8,386     |    | 9,574     |    | 10,197    |    | 13,19    |
| Other pension and postretirement benefits / costs       |    | (288)     |    | (145)     |    | (120)     |    | (130)     |    | (130)     |    | (130)     |    | (130)     |    | (130)     |    | (130)     |    | (130     |
| ncome before income taxes                               |    | 61,607    |    | 64,981    |    | 78,623    |    | 87,717    |    | 121,966   |    | 166,986   |    | 201,009   |    | 236,174   |    | 271,696   |    | 313,380  |
| ncome tax expense                                       |    | (14,430)  |    | (15,638)  |    | (17,739)  |    | (21,221)  |    | (29,368)  |    | (40,077)  |    | (48,242)  |    | (56,682)  |    | (65,207)  |    | (75,213  |
| Net income  | \$ | 47,177    | \$ | 49,343    | \$ | 60,884    | \$ | 66,496    | \$ | 92,598    | \$ | 126,909   | \$ | 152,767   | \$ | 179,492   | \$ | 206,489   | \$ | 238,17   |
| GAAP Basic Earnings per Share                           | \$ | 1.63      | \$ | 1.70      | \$ | 2.09      | \$ | 2.28      | \$ | 3.16      | \$ | 4.32      | \$ | 5.18      | \$ | 6.07      | \$ | 6.96      | \$ | 8.00     |
| Basic Weighted Average Shares                           |    | 29,028    |    | 29,052    |    | 29,144    |    | 29,218    |    | 29,284    |    | 29,384    |    | 29,484    |    | 29,584    |    | 29,684    |    | 29,784   |
| GAAP Diluted Earnings per Share                         | \$ | 1.61      | \$ | 1.69      | \$ | 2.08      | \$ | 2.26      | \$ | 3.14      | \$ | 4.29      | \$ | 5.15      | \$ | 6.03      | \$ | 6.92      | \$ | 7.9      |
| Diluted Weighted Average Shares                         |    | 29,220    |    | 29,230    |    | 29,338    |    | 29,376    |    | 29,456    |    | 29,556    |    | 29,656    |    | 29,756    |    | 29,856    |    | 29,956   |
| Dividend per Share                                      | \$ | 0.64      | \$ | 0.70      | \$ | 0.76      | \$ | 0.85      | \$ | 0.99      | \$ | 1.35      | \$ | 1.62      | \$ | 1.90      | \$ | 2.18      | \$ | 2.5      |
| Model Assumptions                                       |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |          |
| Sales Growth  |    | (2.1%)    |    | 0.2%      |    | 18.7%     |    | 11.9%     |    | 24.4%     |    | 17.6%     |    | 13.5%     |    | 9.6%      |    | 7.0%      |    | 6.1%     |
| Selling, engineering and administration as a % of Sales |    | 23.9%     |    | 24.2%     |    | 25.1%     |    | 23.5%     |    | 22.5%     |    | 20.6%     |    | 20.1%     |    | 19.6%     |    | 19.1%     |    | 18.6%    |
| Depreciation Expense as a % of Sales                    |    | 2.7%      |    | 2.9%      |    | 2.2%      |    | 2.0%      |    | 1.6%      |    | 1.2%      |    | 1.1%      |    | 1.0%      |    | 1.0%      |    | 0.9%     |
| Amortization Expense as a % of Sales                    |    | 3.0%      |    | 3.0%      |    | 3.3%      |    | 2.7%      |    | 2.4%      |    | 2.3%      |    | 2.2%      |    | 2.1%      |    | 2.1%      |    | 2.0%     |
| Effective tax rate                                      |    | 23.4%     |    | 24.1%     |    | 22.6%     |    | 24.2%     |    | 24.1%     |    | 24.0%     |    | 24.0%     |    | 24.0%     |    | 24.0%     |    | 24.0%    |
| Payout Ratio  |    | 39.8%     |    | 41.4%     |    | 36.5%     |    | 37.6%     |    | 31.5%     |    | 31.5%     |    | 31.5%     |    | 31.5%     |    | 31.5%     |    | 31.5%    |
| Key Performance Metrics                                 |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |           |    |          |
| Gross Margin  |    | 38.5%     |    | 39.5%     |    | 40.7%     |    | 38.9%     |    | 39.3%     |    | 39.8%     |    | 40.6%     |    | 41.6%     |    | 42.8%     |    | 44.2%    |
| ⊞ITDA margin  |    | 20.3%     |    | 21.2%     |    | 21.1%     |    | 20.1%     |    | 20.8%     |    | 22.8%     |    | 27.0%     |    | 27.5%     |    | 28.6%     |    | 30.3%    |
| ⊞IT margin  |    | 14.6%     |    | 15.3%     |    | 15.6%     |    | 15.4%     |    | 16.8%     |    | 19.3%     |    | 23.3%     |    | 24.1%     |    | 25.4%     |    | 27.29    |
| Pre-Tax Margin  |    | 14.5%     |    | 15.3%     |    | 15.6%     |    | 15.5%     |    | 17.3%     |    | 20.2%     |    | 21.4%     |    | 22.9%     |    | 24.7%     |    | 26.8%    |
| Net Margin  |    | 11.1%     |    | 11.6%     |    | 12.1%     |    | 11.8%     |    | 13.2%     |    | 15.3%     |    | 16.3%     |    | 17.4%     |    | 18.7%     |    | 20.4%    |
| ROIC  |    | 14.7%     |    | 14.0%     |    | 15.7%     |    | 15.6%     |    | 19.2%     |    | 22.7%     |    | 23.3%     |    | 23.3%     |    | 22.9%     |    | 22.6%    |
| ROIC  |    | 14.770    |    | 14.070    |    |           |    |           |    | 13.270    |    |           |    |           |    |           |    |           |    |          |
| ROE   |    | 14.7%     |    | 14.3%     |    | 15.9%     |    | 15.7%     |    | 19.3%     |    | 22.7%     |    | 23.3%     |    | 23.3%     |    | 22.9%     |    | 22.6%    |



### **Balance Sheet**

|   |    | FY19         |    | FY20          |    | FY21         |    | FY22         |    | FY23     |    | FY24     |    | FY25     |    | FY26          | FY27     |        |    | FY28   |
|---|----|--------------|----|---------------|----|--------------|----|--------------|----|----------|----|----------|----|----------|----|---------------|----------|--------|----|--------|
| (\$ in thousands)   | D  | ec-19A       |    | Dec-20A       |    | Dec-21A      |    | Dec-22A      |    | Dec-23A  |    | Dec-24E  |    | Dec-25E  |    | Dec-26E       | Dec-2    | 7E     | D  | ec-28E |
| Assets  |    |              |    |               |    |              |    |              |    |          |    |          |    |          |    |               |          |        |    |        |
| Cash and cash equivalents   | \$ | 48,871       | \$ | 72,273        | \$ | 87,174       | \$ | 138,052      | \$ | 191,782  | \$ | 279,545  | \$ | 382,955  | \$ | 509,851       | \$ 659   | ,926   | \$ | 833,3  |
| Accounts receivable   |    | 61,365       |    | 61,689        |    | 65,866       |    | 76,651       |    | 83,507   |    | 93,017   |    | 104,287  |    | 112,938       | 119      | ,357   |    | 125,0  |
| Inventories   |    | 81,948       |    | 81,586        |    | 99,611       |    | 119,856      |    | 153,674  |    | 158,672  |    | 177,065  |    | 190,076       | 198      | 3,298  |    | 204,   |
| Other Current Assets  |    | 7,910        |    | 8,140         |    | 8,709        |    | 13,273       |    | 13,214   |    | 13,214   |    | 13,214   |    | 13,214        | 13       | 3,214  |    | 13,2   |
| Total current assets  |    | 200,094      |    | 223,688       |    | 261,360      |    | 347,832      |    | 442,177  |    | 544,448  |    | 677,521  |    | 826,080       | 990      | ,796   |    | 1,175, |
| Net Property, Plant & Equipment   |    | 85,761       |    | 89,570        |    | 83,927       |    | 80,075       |    | 79,400   |    | 83,973   |    | 86,146   |    | 89,351        | 93       | 3,384  |    | 98,    |
| Intangible assets, net  |    | 125,121      |    | 148,306       |    | 174,089      |    | 159,668      |    | 170,600  |    | 151,574  |    | 130,918  |    | 109,299       | 86       | 5,714  |    | 63     |
| Other Assets  |    | 10,917       |    | 9,653         |    | 11,442       |    | 15,472       |    | 24,742   |    | 24,742   |    | 24,742   |    | 24,742        | 24       | ,742   |    | 24     |
| Total Assets  | \$ | 421,893      | \$ | 471,217       | \$ | 530,818      | \$ | 603,047      | \$ | 716,919  | \$ | 804,737  | \$ | 919,327  | \$ | 1,049,472     | \$ 1,195 | ,635   | \$ | 1,362  |
| Liabilities & Shareholders' Equity  |    |              |    |               |    |              |    |              |    |          |    |          |    |          |    |               |          |        |    |        |
| Accounts payable  | \$ | 30,523       | \$ | 34,923        | \$ | 41,859       | \$ | 71,440       | \$ | 81,807   |    | 82,729   |    | 92,717   |    | 99,962        | 104      | ,739   |    | 108    |
| Other Current Liabilities   |    | 26,724       |    | 33,113        |    | 40,287       |    | 38,872       |    | 50,141   |    | 50,141   |    | 50,141   |    | 50,141        | 50       | ),141  |    | 50     |
| Total current liabilities   |    | 57,247       |    | 68,036        |    | 82,146       |    | 110,312      |    | 131,948  |    | 132,870  |    | 142,858  |    | 150,103       | 154      | ,880   |    | 158    |
| Lease Obligations   |    | 8,792        |    | 4,692         |    | 4,255        |    | 4,393        |    | 3,206    |    | 3,206    |    | 3,206    |    | 3,206         | 3        | 3,206  |    | 3      |
| Other long-term liabilities   |    | 24,786       |    | 37,230        |    | 41,347       |    | 45,920       |    | 65,283   |    | 65,283   |    | 65,283   |    | 65,283        | 65       | ,283   |    | 65     |
| Total Liabilities   |    | 90,825       |    | 109,958       |    | 127,748      |    | 160,625      |    | 200,437  |    | 201,359  |    | 211,347  |    | 218,592       | 223      | 3,369  |    | 227    |
| Common stock  |    | 37,200       |    | 37,221        |    | 37,221       |    | 37,221       |    | 37,221   |    | 37,221   |    | 37,221   |    | 37,221        | 37       | ,221   |    | 37     |
| Treasury stock  |    | (34,238)     |    | (37,089)      |    | (37,046)     |    | (37,253)     |    | (36,997) |    | (36,997) |    | (36,997) |    | (36,997)      | (36      | 5,997) |    | (36    |
| Additional paid-in capital  |    | 41,956       |    | 44,964        |    | 49,224       |    | 53,282       |    | 59,185   |    | 59,185   |    | 59,185   |    | 59,185        | 59       | ,185   |    | 59     |
| Retained earnings   |    | 285,879      |    | 314,850       |    | 353,535      |    | 395,155      |    | 458,719  |    | 545,615  |    | 650,217  |    | 773,118       | 914      | ,503   |    | 1,077  |
| Other   |    | 271          |    | 1,313         |    | 136          |    | (5,983)      |    | (1,646)  |    | (1,646)  |    | (1,646)  |    | (1,646)       | (1       | ,646)  |    | (1     |
| Total Equity  |    | 331,068      |    | 361,259       |    | 403,070      |    | 442,422      |    | 516,482  |    | 603,378  |    | 707,980  |    | 830,881       | 972      | 2,266  |    | 1,135  |
| Total Liabilities and Equity  | \$ | 421,893      | \$ | 471,217       | \$ | 530,818      | \$ | 603,047      | \$ | 716,919  | \$ | 804,737  | \$ | 919,327  | \$ | 1,049,472     | \$ 1,195 | ,635   | \$ | 1,362, |
| Check   | Ba | alances      | E  | Balances      | I  | Balances     | Ε  | Balances     | Ε  | Balances | I  | Balances | Ε  | Balances | Ε  | Balances      | Balanc   | es     | Ва | alance |
| Model Assumptions   |    |              |    |               |    |              |    |              |    |          |    |          |    |          |    |               |          |        |    |        |
| Days Sales Outstanding (DSO)  |    | 55 Days      |    | 53 Days       |    | 46 Days      |    | 46 Days      |    | 42 Days  |    | 41 Days  |    | 41 Days  |    | 40 Days       | 40       | Days   |    | 39     |
| Days Inventory Outstanding (DIO)  |    | 114 Days     |    | 116 Days      |    | 110 Days     |    | 116 Days     |    | 117 Days |    | 116 Days |    | 116 Days |    | 115 Days      | 115      | Days   |    | 114 I  |
| Days Payable Outstanding (DPO)  |    | 37 Days      |    | 46 Days       |    | 44 Days      |    | 57 Days      |    | 61 Days  |    | 61 Days  |    | 61 Days  |    | 61 Days       | 61       | Days   |    | 61 I   |
| Cash Conversion   |    | 132 Days     | ;  | 122 Days      |    | 112 Days     |    | 105 Days     |    | 98 Days  |    | 97 Days  |    | 96 Days  |    | 95 Days       | 94       | Days   |    | 93 [   |
| Accounts receivable, net  |    | 61,365       |    | 61,689        |    | 65,866       |    | 76,651       |    | 83,507   |    | 93,017   |    | 104,287  |    | 112,938       | 119      | ,357   |    | 125    |
| Inventories, net  |    | 81,948       |    | 81,586        |    | 99,611       |    | 119,856      |    | 153,674  |    | 158,672  |    | 177,065  |    | 190,076       | 198      | 3,298  |    | 204    |
| Accounts payable  |    | (30,523)     |    | (34,923)      |    | (41,859)     |    | (71,440)     |    | (81,807) |    | (82,729) |    | (92,717) |    | (99,962)      | (104     | ,739)  |    | (108   |
| Working Capital   |    | 112,790      |    | 108,352       |    | 123,618      |    | 125,067      |    | 155,374  |    | 168,960  |    | 188,635  |    | 203,053       | 212      | 2,916  |    | 221    |
| vvorting Capital  |    |              |    |               |    |              |    |              |    |          |    |          |    |          |    |               |          |        |    |        |
| • .   |    |              |    |               |    |              |    |              |    | 0.40/    |    | 1.6%     |    | 1.5%     |    | 4 40/         |          | 4 40/  |    |        |
| Working Capital as a % of Sales CAPEX as % of PY Sales  |    |              |    | 2.1%          |    | 1.6%         |    | 1.2%         |    | 2.1%     |    | 1.070    |    | 1.570    |    | 1.4%          |          | 1.4%   |    |        |
| Working Capital as a % of Sales<br>CAPEX as % of PY Sales   |    |              |    | 2.1%<br>10.6% |    | 1.6%<br>7.5% |    | 1.2%<br>7.0% |    | 15.0%    |    | 14.5%    |    | 14.9%    |    | 1.4%<br>15.7% | 1        | 6.2%   |    | 1      |
| Working Capital as a % of Sales CAPEX as % of PY Sales CAPEX as % of PY PP&E, net                         |    |              |    |               |    |              |    |              |    |          |    |          |    |          |    |               | 1        |        |    |        |
| Working Capital as a % of Sales   |    | 3.5x         |    |               |    |              |    |              |    |          |    |          |    |          |    |               | 1        |        |    |        |
| Working Capital as a % of Sales CAPEX as % of PY Sales CAPEX as % of PY PP&E, net Key Performance Metrics |    | 3.5x<br>2.1x |    | 10.6%         |    | 7.5%         |    | 7.0%         |    | 15.0%    |    | 14.5%    |    | 14.9%    |    | 15.7%         | 1        | 6.2%   |    |        |



### **Statement of Cash Flows**

|   | FY19       |     | FY20        |    | FY21      |    | FY22      |    | FY23      |    | FY24     |    | FY25      |    | FY26      |    | FY27     |     | FY28     |
|---|------------|-----|-------------|----|-----------|----|-----------|----|-----------|----|----------|----|-----------|----|-----------|----|----------|-----|----------|
| (\$ in thousands)   | De c-19A   |     | Dec-20A     |    | Dec-21A   |    | De c-22A  |    | Dec-23A   |    | Dec-24E  |    | De c-25E  |    | De c-26E  |    | Dec-27E  | Ι   | Dec-28E  |
| Operating Activities  |            |     |             |    |           |    |           |    |           |    |          |    |           |    |           |    |          |     |          |
| Net income  | \$ 47,1    | 77  | \$ 49,343   | \$ | 60,884    | \$ | 66,496    | \$ | 92,598    | \$ | 126,909  | \$ | 152,767   | \$ | 179,492   | \$ | 206,489  | \$  | 238,173  |
| Depreciation  | 11,5       | 69  | 12,253      |    | 11,291    |    | 11,090    |    | 10,937    |    | 9,927    |    | 10,328    |    | 10,295    |    | 10,467   |     | 10,525   |
| Amortization  | 12,5       | 77  | 12,963      |    | 16,571    |    | 15,151    |    | 17,173    |    | 19,026   |    | 20,656    |    | 21,619    |    | 22,586   |     | 23,388   |
| Other Non-Cash Charges  | (3         | 50) | (1,461)     |    | (959)     |    | (3,119)   |    | (4,800)   |    | -        |    | -         |    | -         |    | -        |     |          |
| Changes in Working Capital                                      | 9,7        | 41  | 16,480      |    | (277)     |    | (7,167)   |    | (5,791)   |    | (13,586) |    | (19,675)  |    | (14,419)  |    | (9,863)  |     | (8,089   |
| Cash Flow from Operating Activities                             | \$ 80,7    | 14  | \$ 89,578   | \$ | 87,510    | \$ | 82,451    | \$ | 110,117   | \$ | 142,276  | \$ | 164,075   | \$ | 196,987   | \$ | 229,678  | \$  | 263,997  |
| Investing Activities  |            |     |             |    |           |    |           |    |           |    |          |    |           |    |           |    |          |     |          |
| Capital Expenditures  | \$ (7,4    | 96) | \$ (9,059)  | \$ | (6,746)   | \$ | (5,891)   | \$ | (12,003)  | \$ | (11,500) | \$ | (12,500)  | \$ | (13,500)  | \$ | (14,500) | \$  | (15,500  |
| Acquisitions  |            | -   | (29,134)    |    | (45,273)  |    | _         |    | (17,127)  |    | (3,000)  |    | -         |    | -         |    | -        |     |          |
| Sale of Fixed Assets & Businesses                               |            | -   | -           |    | -         |    | -         |    | -         |    | -        |    | -         |    | -         |    | -        |     |          |
| Other   |            | -   | -           |    | 596       |    | -         |    | -         |    | _        |    | -         |    | -         |    | -        |     |          |
| Cash Flow from Investing Activities                             | \$ (7,4    | 96) | \$ (38,193) | \$ | (51,423)  | \$ | (5,891)   | \$ | (29,130)  | \$ | (14,500) | \$ | (12,500)  | \$ | (13,500)  | \$ | (14,500) | \$  | (15,500  |
| Free Cash Flow  | \$ 73,2    | 18  | \$ 80,519   | \$ | 80,764    | \$ | 76,560    | \$ | 98,114    | \$ | 130,776  | \$ | 151,575   | \$ | 183,487   | \$ | 215,178  | \$  | 248,497  |
| Financing Activities  |            |     |             |    |           |    |           |    |           |    |          |    |           |    |           |    |          |     |          |
| Common Dividends  | \$ (18,5   | 95) | \$ (20,340) | \$ | (22,155)  | \$ | (24,881)  | \$ | (29,052)  | \$ | (40,013) | \$ | (48,165)  | \$ | (56,591)  | \$ | (65,103) | \$  | (75,093  |
| Sale of Common & Preferred Stock                                | 2,1        | 48  | 1,238       |    | 2,108     |    | 703       |    | 967       |    | -        |    | -         |    | -         |    | -        |     |          |
| Repurchase of Common Stock                                      | (5,2       | 07) | (3,116)     |    | (460)     |    | (427)     |    | -         |    | -        |    | -         |    | -         |    | -        |     |          |
| Issuance/Reduction of Debt, Net                                 | (13,5      | 00) | (4,600)     |    | -         |    | -         |    | -         |    | -        |    | -         |    | -         |    | -        |     |          |
| Other   | (2,5       | 55) | (1,001)     |    | -         |    | -         |    | -         |    | -        |    | -         |    | -         |    | -        |     |          |
| Cash Flow from Financing Activities                             | \$ (37,7   | 09) | \$ (27,819) | \$ | (20,507)  | \$ | (24,605)  | \$ | (28,085)  | \$ | (40,013) | \$ | (48,165)  | \$ | (56,591)  | \$ | (65,103) | \$  | (75,093  |
| Cash, cash equivalents and restricted cash, beginning of period | 13,0       | 86  | 48,871      |    | 72,273    |    | 87,174    |    | 138,052   |    | 191,782  |    | 279,545   |    | 382,955   |    | 509,851  |     | 659,926  |
| Effect of foreign exchange rate changes on cash and equivalents | 2          | 76  | (164)       |    | (679)     |    | (1,077)   |    | 828       |    | -        |    | -         |    | -         |    | -        |     | -        |
| Net Change in Cash  | 35,7       | 85  | 23,402      |    | 14,901    |    | 50,878    |    | 53,730    |    | 87,763   |    | 103,410   |    | 126,896   |    | 150,075  |     | 173,404  |
| Cash and cash equivalents, end of period                        | \$ 48,8    | 71  | \$ 72,273   | \$ | 87,174    | \$ | 138,052   | \$ | 191,782   | \$ | 279,545  | \$ | 382,955   | \$ | 509,851   | \$ | 659,926  | \$  | 833,331  |
| Check   | Reconciles |     | Reconciles  | Re | econciles | R  | econciles | Re | econciles | Re | conciles | R  | econciles | R  | econciles | Re | conciles | Red | conciles |
| Free Cash Flow Breakdown  |            |     |             |    |           |    |           |    |           |    |          |    |           |    |           |    |          |     |          |
| EBIT  | \$ 61,8    | 60  | \$ 65,011   | \$ | 78,603    | \$ | 87,165    | \$ | 117,919   | \$ | 159,314  | \$ | 192,623   | \$ | 226,600   | \$ | 261,499  | \$  | 300,187  |
| (+) Taxes   | 14,4       | 89  | (15,645)    |    | (17,734)  |    | (21,087)  |    | (28,394)  |    | (38,235) |    | (46,229)  |    | (54,384)  |    | (62,760) |     | (72,045  |
| NOPAT   | 76,3       | 49  | 49,366      |    | 60,869    |    | 66,078    |    | 89,525    |    | 121,079  |    | 146,393   |    | 172,216   |    | 198,739  |     | 228,142  |
| (+) Depreciation and Amortization                               | 24,1       | 46  | 25,216      |    | 27,862    |    | 26,241    |    | 28,110    |    | 28,953   |    | 30,983    |    | 31,914    |    | 33,052   |     | 33,913   |
| (+) Change in Working Capital                                   | 9,7        | 41  | 16,480      |    | (277)     |    | (7,167)   |    | (5,791)   |    | (13,586) |    | (19,675)  |    | (14,419)  |    | (9,863)  |     | (8,089   |
| (+) Other Non-Cash Charges                                      | (3         | 50) | (1,461)     |    | (959)     |    | (3,119)   |    | (4,800)   |    | -        |    | -         |    | -         |    | -        |     | -        |
| (+) Capital Expenditures  | (7,4       | 96) | (9,059)     |    | (6,746)   |    | (5,891)   |    | (12,003)  |    | (11,500) |    | (12,500)  |    | (13,500)  |    | (14,500) |     | (15,500  |
| Unlevered Free Cash Flow  | \$ 102,3   | 90  | \$ 80,542   | \$ | 80,749    | \$ | 76,142    | \$ | 95,041    | \$ | 124,946  | \$ | 145,202   | \$ | 176,211   | \$ | 207,429  | \$  | 238,466  |
| (+) Net Borrowings  | (13,5      | 00) | (4,600)     |    | -         |    | -         |    | -         |    | -        |    | -         |    | -         |    | -        |     |          |
| Levered Free Cash Flow  | \$ 88,8    | 90  | \$ 75,942   | \$ | 80,749    | \$ | 76,142    | \$ | 95,041    | \$ | 124,946  | \$ | 145,202   | \$ | 176,211   | \$ | 207,429  | \$  | 238,466  |
| FCFF / Sales  | 24         | 1%  | 18.9%       |    | 16.0%     |    | 13.5%     |    | 13.5%     |    | 15.1%    |    | 15.5%     |    | 17.1%     |    | 18.8%    |     | 20.4%    |
| FCFE / Sales  | 20         | 9%  | 17.8%       |    | 16.0%     |    | 13.5%     |    | 13.5%     |    | 15.1%    |    | 15.5%     |    | 17.1%     |    | 18.8%    |     | 20.49    |



### **Revenue Build**

|   | _  | FY19                                    |    | FY20    | FY21       |      | FY22      | FY23            | FY24            | FY25            | FY26            | FY27            | FY28            |
|---|----|---|----|---------|------------|------|-----------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| (\$ in thousands)                               |    | Dec-19A                                 | [  | Dec-20A | Dec-21A    |      | De c-22A  | Dec-23A         | De c-24E        | Dec-25E         | De c-26E        | De c-27E        | Dec-28E         |
| Consolidated Segment Results                    |    |   |    |         |            |      |           |                 |                 |                 |                 |                 |                 |
| Utility Water                                   | \$ | 330,725                                 | \$ | 344,344 | \$ 415,298 | 3 \$ | 471,768   | \$<br>603,092   | \$<br>723,710   | \$<br>832,267   | \$<br>919,655   | \$<br>988,629   | \$<br>1,052,890 |
| Flow Instrumentation                            |    | 93,900                                  |    | 81,200  | 89,900     | )    | 93,800    | 100,500         | 103,515         | 106,620         | 109,819         | 113,114         | 116,507         |
| Total Consolidated Sales                        | \$ | 424,625                                 | \$ | 425,544 | \$ 505,198 | \$   | 565,568   | \$<br>703,592   | \$<br>827,225   | \$<br>938,887   | \$<br>1,029,474 | \$<br>1,101,743 | \$<br>1,169,397 |
| % of Consolidated Net Sales                     |    |   |    |         |            |      |           |                 |                 |                 |                 |                 |                 |
| Utility Water                                   |    | 77.9%                                   |    | 80.9%   | 82.20      | %    | 83.4%     | 85.7%           | 87.5%           | 88.6%           | 89.3%           | 89.7%           | 90.0%           |
| Flow Instrumentation                            |    | 22.1%                                   |    | 19.1%   | 17.89      | %    | 16.6%     | 14.3%           | 12.5%           | 11.4%           | 10.7%           | 10.3%           | 10.0%           |
| YoY Growth %                                    |    |   |    |         |            |      |           |                 |                 |                 |                 |                 |                 |
| Utility Water                                   |    |   |    | 4.1%    | 20.69      | %    | 13.6%     | 27.8%           | 20.0%           | 15.0%           | 10.5%           | 7.5%            | 6.5%            |
| Flow Instrumentation                            |    |   |    | (13.5%) | 10.79      | %    | 4.3%      | 7.1%            | 3.0%            | 3.0%            | 3.0%            | 3.0%            | 3.0%            |
| Total Consolidated                              |    | *************************************** |    | 0.2%    | 18.7       | %    | 11.9%     | 24.4%           | 17.6%           | 13.5%           | 9.6%            | 7.0%            | 6.1%            |
| Smart Water Meter Market                        |    |   |    |         |            |      |           |                 |                 |                 |                 |                 |                 |
| North America Smart Water Metering Market       |    |   |    |         |            | \$   | 1,400,590 | \$<br>1,708,720 | \$<br>1,965,028 | \$<br>2,161,531 | \$<br>2,312,838 | \$<br>2,428,480 | \$<br>2,525,619 |
| BMI Market Share in Smart Water Metering Market |    |   |    |         |            |      | 37.8%     | 38.6%           | 39.0%           | 39.6%           | 39.7%           | 39.4%           | 38.9%           |
| BMI Water Meter Hardware Revenue                | \$ | 408,479                                 | \$ | 404,065 | \$ 476,674 | \$   | 529,603   | \$<br>659,275   | \$<br>766,849   | \$<br>856,278   | \$<br>918,304   | \$<br>956,327   | \$<br>983,478   |
| Hardw are Sales                                 | \$ | 408,479                                 | \$ | 404,065 | \$ 476,674 | \$   | 529,603   | \$<br>659,275   | \$<br>766,849   | \$<br>856,278   | \$<br>918,304   | \$<br>956,327   | \$<br>983,478   |
| Softw are Sales                                 |    | 16,146                                  |    | 21,479  | 28,524     | ļ    | 35,965    | 44,317          | 60,377          | 82,610          | 111,170         | 145,415         | 185,919         |
| Total Consolidated Sales                        | \$ | 424,625                                 | \$ | 425,544 | \$ 505,198 | 3 \$ | 565,568   | \$<br>703,592   | \$<br>827,225   | \$<br>938,887   | \$<br>1,029,474 | \$<br>1,101,743 | \$<br>1,169,397 |
| % of Consolidated Net Sales                     |    |   |    |         |            |      |           |                 |                 |                 |                 |                 |                 |
| Hardw are Sales                                 |    | 96.2%                                   |    | 95.0%   | 94.49      | %    | 93.6%     | 93.7%           | 92.7%           | 91.2%           | 89.2%           | 86.8%           | 84.1%           |
| Softw are Sales                                 |    | 3.8%                                    |    | 5.0%    | 5.69       | %    | 6.4%      | 6.3%            | 7.3%            | 8.8%            | 10.8%           | 13.2%           | 15.9%           |
| YoY Growth %                                    |    |   |    |         |            |      |           |                 |                 |                 |                 |                 |                 |
| Hardw are Sales                                 |    |   |    | (1.1%)  | 18.09      | %    | 11.1%     | 24.5%           | 16.3%           | 11.7%           | 7.2%            | 4.1%            | 2.8%            |
| Software Sales                                  |    |   |    | 00.00/  | 00.00      | /    | 26.1%     | 23.2%           | 36.2%           | 36.8%           | 34.6%           | 30.8%           | 27.9%           |
| Software Sales                                  |    |   |    | 33.0%   | 32.89      | /o   | 20.1%     | 23.2%           | 30.2%           | 30.8%           | 34.0%           | 30.8%           | 21.5 /          |



### **Margin Analysis**

|   |    | FY19      |    | FY20                     |    | FY21    |          | FY22    |    | FY23     |    | FY24    |    | FY25                     |    | FY26      |    | FY27                        |    | FY28                        |
|---|----|-----------|----|--------------------------|----|---------|----------|---------|----|----------|----|---------|----|--------------------------|----|-----------|----|-----------------------------|----|-----------------------------|
| (\$ in thousands)                       |    | ec-19A    |    | Dec-20A                  |    | Dec-21A | -        | Dec-22A |    | Dec-23A  |    | Dec-24E |    | Dec-25E                  |    | Dec-26E   |    | De c-27E                    |    | Dec-28E                     |
| Consolidated Gross Margin Build         | _  |           |    |                          |    |         |          |         |    |          |    |         |    |                          |    |           |    |                             |    |                             |
| Hardware Sales                          | \$ | 408.479   | Φ. | 404.065                  | ı. | 476.674 | <b>^</b> | 529.603 | Φ. | 659.275  | Φ. | 766.849 | Φ. | 856.278                  | Φ. | 918.304   | Φ. | 956.327                     | Φ. | 983.478                     |
| Software Sales                          | Ф  | 16,146    | Ф  | , , , , , ,              | Ф  | 28,524  | Ф        | 35,965  | \$ | 44,317   | Ф  | 60,377  | Ф  | ,                        | Ф  | 111,170   | Ф  | ,-                          | Ф  | ,                           |
| Total Consolidated                      |    | 424,625   | \$ | 21,479<br><b>425,544</b> | \$ | 505,198 | \$       | 565,568 | \$ | 703,592  | \$ | 827,225 | \$ | 82,610<br><b>938,887</b> | \$ | 1,029,474 | \$ | 145,415<br><b>1,101,743</b> | \$ | 185,919<br><b>1,169,397</b> |
| A                                       | •  | -12-1,020 | •  | 420,044                  | •  | 000,100 | •        | 000,000 | •  | 7 00,002 | •  | 021,220 | •  | 000,007                  | ٠  | 1,020,414 | •  | 1,101,140                   | •  | .,,                         |
| % of Consolidated Net Sales             |    |           |    |                          |    |         |          |         |    |          |    |         |    |                          |    |           |    |                             |    |                             |
| Hardw are Sales                         |    | 96.2%     |    | 95.0%                    |    | 94.4%   |          | 93.6%   |    | 93.7%    |    | 92.7%   |    | 91.2%                    |    | 89.2%     |    | 86.8%                       |    | 84.19                       |
| Softw are Sales                         |    | 3.8%      |    | 5.0%                     |    | 5.6%    |          | 6.4%    |    | 6.3%     |    | 7.3%    |    | 8.8%                     |    | 10.8%     |    | 13.2%                       |    | 15.99                       |
| Hardware Gross Profit                   |    |           |    |                          |    |         | \$       | 196,233 | \$ | 246,302  | \$ | 287,258 | \$ | 321,614                  | \$ | 345,830   | \$ | 361,105                     | \$ | 372,341                     |
| Software Gross Profit                   |    |           |    |                          |    |         |          | 23,737  |    | 30,136   |    | 42,264  |    | 59,479                   |    | 82,266    |    | 110,516                     |    | 145,017                     |
| Consolidated Gross Profit               |    |           |    |                          |    |         | \$       | 219,970 | \$ | 276,438  | \$ | 329,522 | \$ | 381,093                  | \$ | 428,095   | \$ | 471,621                     | \$ | 517,357                     |
| Hardware Gross Margin                   |    |           |    |                          |    |         |          | 37.1%   |    | 37.4%    |    | 37.5%   |    | 37.6%                    |    | 37.7%     |    | 37.8%                       |    | 37.9%                       |
| Softw are Gross Margin                  |    |           |    |                          |    |         |          | 66.0%   |    | 68.0%    |    | 70.0%   |    | 72.0%                    |    | 74.0%     |    | 76.0%                       |    | 78.0%                       |
| Consolidated Gross Margin               |    |           |    |                          |    |         |          | 38.9%   |    | 39.3%    |    | 39.8%   |    | 40.6%                    |    | 41.6%     |    | 42.8%                       |    | 44.29                       |
| Software - Incremental Margin           |    |           |    |                          |    |         |          |         |    |          |    | 75.5%   |    | 77.4%                    |    | 79.8%     |    | 82.5%                       |    | 85.2%                       |
| Consolidated EBITDA Build               |    |           |    |                          |    |         |          |         |    |          |    |         |    |                          |    |           |    |                             |    |                             |
| Consolidated Net income                 | \$ | 47,177    | \$ | 49,343                   | \$ | 60,884  | \$       | 66,496  | \$ | 92,598   | \$ | 126,909 | \$ | 152,767                  | \$ | 179,492   | \$ | 206,489                     | \$ | 238,173                     |
| (+) Interest (income) / expense, net    |    | 253       |    | 30                       |    | (20)    |          | (552)   |    | (4,047)  |    | (7,671) |    | (8,386)                  |    | (9,574)   |    | (10,197)                    |    | (13,199                     |
| (+) Income tax expense                  |    | 14,430    |    | 15,638                   |    | 17,739  |          | 21,221  |    | 29,368   |    | 40,077  |    | 48,242                   |    | 56,682    |    | 65,207                      |    | 75,213                      |
| EBIT                                    | \$ | 61,860    | \$ | 65,011                   | \$ | 78,603  | \$       | 87,165  | \$ | 117,919  | \$ | 159,314 | \$ | 192,623                  | \$ | 226,600   | \$ | 261,499                     | \$ | 300,187                     |
| (+) Depreciation & Amortization Expense |    | 24,146    |    | 25,216                   |    | 27,862  |          | 26,241  |    | 28,110   |    | 28,953  |    | 30,983                   |    | 31,914    |    | 33,052                      |    | 33,913                      |
| EBITDA                                  | \$ | 86,006    | \$ | 90,227                   | \$ | 106,465 | \$       | 113,406 | \$ | 146,029  | \$ | 188,267 | \$ | 223,606                  | \$ | 258,514   | \$ | 294,551                     | \$ | 334,100                     |
| EBIT Margin                             |    | 14.6%     |    | 15.3%                    |    | 15.6%   |          | 15.4%   |    | 16.8%    |    | 19.3%   |    | 23.3%                    |    | 24.1%     |    | 25.4%                       |    | 27.29                       |
| 22 112 9                                |    | 14.070    |    | 10.070                   |    | 10.070  |          | 10.470  |    | 10.070   |    | 13.070  |    | 20.070                   |    | Z-T. 1 /0 |    | 20.77                       |    |                             |



### Scenario Analysis: Base Case

| Badger Meter - Scenario Analysis                  |           |           | Base C    | ase       |           |           |
|---|-----------|-----------|-----------|-----------|-----------|-----------|
|   | FY23      | FY24      | FY25      | FY26      | FY27      | FY28      |
| (\$ in millions)                                  | De c-23A  | Dec-24E   | De c-25E  | De c-26E  | Dec-27E   | De c-28E  |
| Hardw are Sales                                   | 659,275   | 766,849   | 856,278   | 918,304   | 956,327   | 983,478   |
| Grow th   | 24.5%     | 16.3%     | 11.7%     | 7.2%      | 4.1%      | 2.8%      |
| Softw are Sales                                   | 44,317    | 60,377    | 82,610    | 111,170   | 145,415   | 185,919   |
| Grow th   | 23.2%     | 36.2%     | 36.8%     | 34.6%     | 30.8%     | 27.9%     |
| Net sales   | 703,592   | 827,225   | 938,887   | 1,029,474 | 1,101,743 | 1,169,397 |
| Grow th   | 24.4%     | 17.6%     | 13.5%     | 9.6%      | 7.0%      | 6.1%      |
| Cost of goods sold                                | (427,154) | (497,703) | (557,794) | (601,379) | (630,122) | (652,040) |
| Gross profit                                      | 276,438   | 329,522   | 381,093   | 428,095   | 471,621   | 517,357   |
| Margin  | 39.3%     | 39.8%     | 40.6%     | 41.6%     | 42.8%     | 44.2%     |
| Selling, engineering and administration           | (158,389) | (170,078) | (188,341) | (201,365) | (209,992) | (217,040) |
| % of Sales  | 22.5%     | 20.6%     | 20.1%     | 19.6%     | 19.1%     | 18.6%     |
| Income from operations                            | 118,049   | 159,444   | 192,753   | 226,730   | 261,629   | 300,317   |
| Margin  | 16.8%     | 19.3%     | 20.5%     | 22.0%     | 23.7%     | 25.7%     |
| Interest income / expense, net                    | 4,047     | 7,671     | 8,386     | 9,574     | 10,197    | 13,199    |
| Other pension and postretirement benefits / costs | (130)     | (130)     | (130)     | (130)     | (130)     | (130)     |
| Income before income taxes                        | 121,966   | 166,986   | 201,009   | 236,174   | 271,696   | 313,386   |
| Margin  | 17.3%     | 20.2%     | 21.4%     | 22.9%     | 24.7%     | 26.8%     |
| Income Taxes                                      | (29,368)  | (40,077)  | (48,242)  | (56,682)  | (65,207)  | (75,213)  |
| ETR   | 24.1%     | 24.0%     | 24.0%     | 24.0%     | 24.0%     | 24.0%     |
| Net income  | 92,598    | 126,909   | 152,767   | 179,492   | 206,489   | 238,173   |
| Diluted Earnings per Share                        | \$ 3.14   | \$ 4.29   | \$ 5.15   | \$ 6.03   | \$ 6.92   | \$ 7.95   |
| Diluted Weighted Average Shares                   | 29,456    | 29,556    | 29,656    | 29,756    | 29,856    | 29,956    |



### **Discounted Cash Flow Analysis: Base Case**

#### Base Case: Badger Meter Discounted Cash Flow Analysis

|                                   |                 | C             | alend | dar Year Endi | ing De | cember 31, |    |          |     |             |
|-----------------------------------|-----------------|---------------|-------|---------------|--------|------------|----|----------|-----|-------------|
|                                   | <br>2024E       | 2025E         |       | 2026E         |        | 2027E      | _  | 2028E    | Ter | minal Value |
| NOPAT                             | 121,079         | 146,393       |       | 172,216       |        | 198,739    |    | 228,142  |     |             |
| (+) Depreciation and Amortization | 28,953          | 30,983        |       | 31,914        |        | 33,052     |    | 33,913   |     |             |
| (+) Change in Working Capital     | (13,586)        | (19,675)      |       | (14,419)      |        | (9,863)    |    | (8,089)  |     |             |
| (+) Other Non-Cash Charges        | -               | -             |       | _             |        | _          |    | -        |     |             |
| (+) Capital Expenditures          | <br>(11,500)    | <br>(12,500)  |       | (13,500)      |        | (14,500)   |    | (15,500) |     |             |
| Unlevered Free Cash Flow          | \$<br>124,946   | \$<br>145,202 | \$    | 176,211       | \$     | 207,429    | \$ | 238,466  | \$  | 6,670,614   |
| Discount Factor                   | 0.93            | 0.87          |       | 0.81          |        | 0.76       |    | 0.71     |     | 0.71        |
| PV of Free Cash Flow              | \$<br>116,554   | \$<br>126,352 | \$    | 143,037       | \$     | 157,069    | \$ | 168,443  | \$  | 4,711,854   |
| Enterprise Value                  | \$<br>5,423,309 |               |       |               |        |            |    |          |     |             |
| (+) Net Cash                      | <br>258,955     |               |       |               |        |            |    |          |     |             |
| Equity Value                      | \$<br>5,682,264 |               |       |               |        |            |    |          |     |             |
| (÷) Shares Outstanding            | <br>29,456      |               |       |               |        |            |    |          |     |             |
| Price per Share                   | \$<br>192.91    |               |       |               |        |            |    |          |     |             |
| <u>Assumptions</u>                |                 |               |       |               |        |            |    |          |     |             |
| Weighted Average Cost of Capital  | 7.2%            |               |       |               |        |            |    |          |     |             |
| Perpetual Grow th Rate            | 3.5%            |               |       |               |        |            |    |          |     |             |



### Scenario Analysis: Upside Case

| Badger Meter - Scenario Analysis                  | Upside Case |           |           |           |           |           |  |  |  |  |
|---|-------------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|
|   | FY23        | FY24      | FY25      | FY26      | FY27      | FY28      |  |  |  |  |
| (\$ in millions)                                  | De c-23A    | Dec-24E   | De c-25E  | De c-26E  | Dec-27E   | De c-28E  |  |  |  |  |
| Hardw are Sales                                   | 659,275     | 770,145   | 875,361   | 965,031   | 1,033,940 | 1,094,313 |  |  |  |  |
| Grow th   | 24.5%       | 16.8%     | 13.7%     | 10.2%     | 7.1%      | 5.8%      |  |  |  |  |
| Softw are Sales                                   | 44,317      | 60,598    | 85,943    | 119,952   | 162,901   | 216,420   |  |  |  |  |
| Grow th   | 23.2%       | 36.7%     | 41.8%     | 39.6%     | 35.8%     | 32.9%     |  |  |  |  |
| Net sales   | 703,592     | 830,743   | 961,304   | 1,084,983 | 1,196,841 | 1,310,732 |  |  |  |  |
| Grow th   | 24.4%       | 18.1%     | 15.7%     | 12.9%     | 10.3%     | 9.5%      |  |  |  |  |
| Cost of goods sold                                | (427,154)   | (498,158) | (559,096) | (620,243) | (669,551) | (714,462) |  |  |  |  |
| Gross profit                                      | 276,438     | 332,585   | 402,209   | 464,740   | 527,290   | 596,270   |  |  |  |  |
| Margin  | 39.3%       | 40.0%     | 41.8%     | 42.8%     | 44.1%     | 45.5%     |  |  |  |  |
| Selling, engineering and administration           | (158,389)   | (169,970) | (183,225) | (201,373) | (216,149) | (230,165) |  |  |  |  |
| % of Sales  | 22.5%       | 20.5%     | 19.1%     | 18.6%     | 18.1%     | 17.6%     |  |  |  |  |
| Income from operations                            | 118,049     | 162,615   | 218,984   | 263,368   | 311,141   | 366,106   |  |  |  |  |
| Margin  | 16.8%       | 19.6%     | 22.8%     | 24.3%     | 26.0%     | 27.9%     |  |  |  |  |
| Interest income / expense, net                    | 4,047       | 7,671     | 8,386     | 9,574     | 10,197    | 13,199    |  |  |  |  |
| Other pension and postretirement benefits / costs | (130)       | (130)     | (130)     | (130)     | (130)     | (130)     |  |  |  |  |
| Income before income taxes                        | 121,966     | 170,156   | 227,240   | 272,811   | 321,208   | 379,174   |  |  |  |  |
| Margin  | 17.3%       | 20.5%     | 23.6%     | 25.1%     | 26.8%     | 28.9%     |  |  |  |  |
| Income Taxes                                      | (29,368)    | (40,837)  | (54,538)  | (65,475)  | (77,090)  | (91,002)  |  |  |  |  |
| ETR   | 24.1%       | 24.0%     | 24.0%     | 24.0%     | 24.0%     | 24.0%     |  |  |  |  |
| Net income  | 92,598      | 129,319   | 172,703   | 207,337   | 244,118   | 288,172   |  |  |  |  |
| Diluted Earnings per Share                        | \$ 3.14     | \$ 4.38   | \$ 5.82   | \$ 6.97   | \$ 8.18   | \$ 9.62   |  |  |  |  |
| Diluted Weighted Average Shares                   | 29,456      | 29,556    | 29,656    | 29,756    | 29,856    | 29,956    |  |  |  |  |



### **Discounted Cash Flow Analysis: Upside Case**

#### Upside Case: Badger Meter Discounted Cash Flow Analysis

|                                    |                 | (             | Calend | dar Year Endi | ing De | cember 31, |               |     |             |
|------------------------------------|-----------------|---------------|--------|---------------|--------|------------|---------------|-----|-------------|
|                                    | <br>2024E       | 2025E         |        | 2026E         |        | 2027E      | 2028E         | Ter | minal Value |
| NOPAT                              | \$<br>123,587   | \$<br>166,428 | \$     | 200,159       | \$     | 236,467    | \$<br>278,240 |     |             |
| (+) Depreciation and Amortization  | 28,953          | 30,506        |        | 31,164        |        | 32,273     | 33,110        |     |             |
| (+) Change in Working Capital      | (13,489)        | (16,532)      |        | (12,584)      |        | (9,935)    | (8,519)       |     |             |
| (+) Other Non-Cash Charges         | -               | -             |        | -             |        | -          | -             |     |             |
| (+) Capital Expenditures           | <br>(11,500)    | <br>(12,500)  |        | (13,500)      |        | (14,500)   | <br>(15,500)  |     |             |
| Unlevered Free Cash Flow           | \$<br>127,551   | \$<br>167,901 | \$     | 205,240       | \$     | 244,304    | \$<br>287,331 | \$  | 8,037,515   |
| Discount Factor                    | 0.93            | 0.87          |        | 0.81          |        | 0.76       | 0.71          |     | 0.71        |
| PV of Free Cash Flow               | \$<br>118,984   | \$<br>146,105 | \$     | 166,601       | \$     | 184,991    | \$<br>202,959 | \$  | 5,677,379   |
| Enterprise Value                   | \$<br>6,497,020 |               |        |               |        |            |               |     |             |
| (+) Net Cash                       | <br>258,955     |               |        |               |        |            |               |     |             |
| Equity Value                       | \$<br>6,755,975 |               |        |               |        |            |               |     |             |
| (÷) Shares Outstanding             | <br>29,456      |               |        |               |        |            |               |     |             |
| Price per Share                    | \$<br>229.36    |               |        |               |        |            |               |     |             |
| <u>Assumptions</u>                 |                 |               |        |               |        |            |               |     |             |
| Weighted Average Cost of Capital   | 7.2%            |               |        |               |        |            |               |     |             |
| violginiou Average oost or Oapital | 1.270           |               |        |               |        |            |               |     |             |

3.5%

Perpetual Growth Rate



### Scenario Analysis: Downside Case

| Badger Meter - Scenario Analysis                  | Downside Case |           |           |           |           |           |  |  |  |  |
|---|---------------|-----------|-----------|-----------|-----------|-----------|--|--|--|--|
|   | FY23          | FY24      | FY25      | FY26      | FY27      | FY28      |  |  |  |  |
| (\$ in millions)                                  | De c-23A      | Dec-24E   | De c-25E  | De c-26E  | Dec-27E   | De c-28E  |  |  |  |  |
| Hardw are Sales                                   | 659,275       | 763,552   | 822,055   | 856,941   | 866,715   | 865,320   |  |  |  |  |
| Grow th   | 24.5%         | 15.8%     | 7.7%      | 4.2%      | 1.1%      | (0.2%)    |  |  |  |  |
| Softw are Sales                                   | 44,317        | 60,155    | 79,900    | 104,328   | 132,293   | 163,849   |  |  |  |  |
| Grow th   | 23.2%         | 35.7%     | 32.8%     | 30.6%     | 26.8%     | 23.9%     |  |  |  |  |
| Net sales   | 703,592       | 823,707   | 901,955   | 961,268   | 999,007   | 1,029,169 |  |  |  |  |
| Grow th   | 24.4%         | 17.1%     | 9.5%      | 6.6%      | 3.9%      | 3.0%      |  |  |  |  |
| Cost of goods sold                                | (427,154)     | (497,234) | (558,401) | (585,567) | (596,339) | (599,580) |  |  |  |  |
| Gross profit                                      | 276,438       | 326,473   | 343,554   | 375,701   | 402,668   | 429,589   |  |  |  |  |
| Margin  | 39.3%         | 39.6%     | 38.1%     | 39.1%     | 40.3%     | 41.7%     |  |  |  |  |
| Selling, engineering and administration           | (158,389)     | (171,002) | (189,952) | (197,637) | (200,401) | (201,305) |  |  |  |  |
| % of Sales  | 22.5%         | 20.8%     | 21.1%     | 20.6%     | 20.1%     | 19.6%     |  |  |  |  |
| Income from operations                            | 118,049       | 155,472   | 153,602   | 178,064   | 202,267   | 228,284   |  |  |  |  |
| Margin  | 16.8%         | 18.9%     | 17.0%     | 18.5%     | 20.2%     | 22.2%     |  |  |  |  |
| Interest income / expense, net                    | 4,047         | 7,671     | 8,386     | 9,574     | 10,197    | 13,199    |  |  |  |  |
| Other pension and postretirement benefits / costs | (130)         | (130)     | (130)     | (130)     | (130)     | (130)     |  |  |  |  |
| Income before income taxes                        | 121,966       | 163,013   | 161,858   | 187,508   | 212,334   | 241,352   |  |  |  |  |
| Margin  | 17.3%         | 19.8%     | 17.9%     | 19.5%     | 21.3%     | 23.5%     |  |  |  |  |
| Income Taxes                                      | (29,368)      | (39,123)  | (38,846)  | (45,002)  | (50,960)  | (57,925)  |  |  |  |  |
| ETR   | 24.1%         | 24.0%     | 24.0%     | 24.0%     | 24.0%     | 24.0%     |  |  |  |  |
| Net income  | 92,598        | 123,890   | 123,012   | 142,506   | 161,374   | 183,428   |  |  |  |  |
| Diluted Earnings per Share                        | \$ 3.14       | \$ 4.19   | \$ 4.15   | \$ 4.79   | \$ 5.41   | \$ 6.12   |  |  |  |  |
| Diluted Weighted Average Shares                   | 29,456        | 29,556    | 29,656    | 29,756    | 29,856    | 29,956    |  |  |  |  |



### **Discounted Cash Flow Analysis: Downside Case**

#### Downside Case: Badger Meter Discounted Cash Flow Analysis

| Calendar ` | Year | Ending | Decem | ber | 31 | ١, |
|------------|------|--------|-------|-----|----|----|
|------------|------|--------|-------|-----|----|----|

|                                   |    | 2024E     | 2025E         | <br>2026E     | <br>2027E     | <br>2028E     | Ter | minal Value |
|-----------------------------------|----|-----------|---------------|---------------|---------------|---------------|-----|-------------|
| NOPAT                             | \$ | 118,158   | \$<br>116,737 | \$<br>135,329 | \$<br>153,723 | \$<br>173,496 |     |             |
| (+) Depreciation and Amortization |    | 28,953    | 30,506        | 31,164        | 32,273        | 33,110        |     |             |
| (+) Change in Working Capital     |    | (13,489)  | (16,532)      | (12,584)      | (9,935)       | (8,519)       |     |             |
| (+) Other Non-Cash Charges        |    | -         | -             | -             | -             | -             |     |             |
| (+) Capital Expenditures          |    | (11,500)  | (12,500)      | (13,500)      | <br>(14,500)  | <br>(15,500)  |     |             |
| Unlevered Free Cash Flow          | \$ | 122,122   | \$<br>118,211 | \$<br>140,409 | \$<br>161,560 | \$<br>182,587 | \$  | 4,609,207   |
| Discount Factor                   |    | 0.93      | 0.86          | 0.80          | 0.75          | 0.69          |     | 0.69        |
| PV of Free Cash Flow              | \$ | 113,496   | \$<br>102,102 | \$<br>112,709 | \$<br>120,527 | \$<br>126,593 | \$  | 3,195,691   |
| Enterprise Value                  | \$ | 3,771,119 |               |               |               |               |     |             |
| (+) Net Cash                      |    | 258,955   |               |               |               |               |     |             |
| Equity Value                      | \$ | 4,030,074 |               |               |               |               |     |             |
| (÷) Shares Outstanding            |    | 29,456    |               |               |               |               |     |             |
| Price per Share                   | •  | 136.82    |               |               |               |               |     |             |

#### <u>ASSUMPTIONS</u>

Weighted Average Cost of Capital Perpetual Growth Rate

| 7.6% |
|------|
| 3.5% |



#### **Supply Chain Analysis**

#### **Raw Materials and Components**

Raw materials used in the manufacture of the Company's prod 1 include purchased castings made of metal or alloys (such as brass, which uses copper as its main component, aluminum, stainless steel and cast iron), plastic resins, glass, microprocessors and other electronic subassemblies, and components. There are multiple sources for these raw materials and components, but the Company relies on single suppliers for certain brass castings, resins and electronic subassemblies. The Company believes these items would be available from other sources, but that the loss of certain suppliers may result in a higher cost of materials, delivery delays, short-term increases in inventory and higher quality control costs. The Company carries business interruption insurance generally. The Company's purchases of raw materials are based on production schedules, and as a result, inventory on hand is generally not exposed to price fluctuations. World commodity markets and currency exchange rates may also affect the prices of material purchased in the future. The Company does not hold significant amounts of precious metals.

The inability to obtain adequate supplies of raw mate 2 and component parts for our products at reasonable prices could have a material adverse effect on our business, financial condition or results of operations by decreasing profit margins and by negatively impacting timely deliveries to customers. In the past, we have been able to offset price increases in raw materials and component parts by increased sales prices, active materials management, product engineering programs and the diversity of materials used in the production processes. However, we cannot be certain that we will be able to accomplish this in the future. Since we do not control the actual production of these raw materials and component parts, there may be continued delays in the production or transportation of these materials for reasons that are beyond our control. World commodity markets and inflationary environments may affect raw material and component part prices. In addition, we rely on single suppliers for microprocessors, castings and components in several of our product lines and the loss of such suppliers could temporarily disrupt operations in the short term.

3

The Company relies on single suppliers for most brass castings and certain resin and electronic subassemblies in several of its product lines. The Company believes these items would be available from other sources, but that the loss of certain suppliers could result in a higher cost of materials, delivery delays, short-term increases in inventory and higher quality control costs in the short term. The Company attempts to mitigate these risks by working closely with key suppliers, purchasing minimal amounts from alternative suppliers and by purchasing business interruption insurance where appropriate.

BMI depends on a single supplier form most of its brass castings and certain electronic subassemblies. Most of these inputs can be found at alternative suppliers but a loss of a single supplier could expose BMI to cost headwinds if it attempted to switch

BMI has been able to pass supply chain disruption costs to



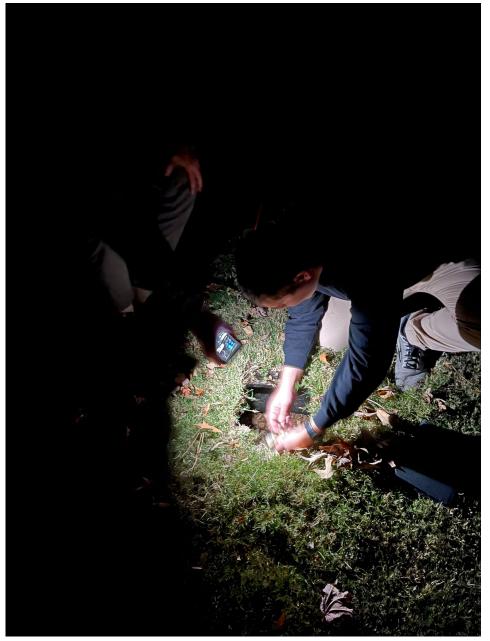


#### **Site Visit / Correspondence**

 Inspected Local Residential BMI Meters

#### **Interviews/Sources**

- Interview with Former Aqua America State Controller
- Interview with State President of Water Utility (Aqua America)
- Examined State Utility
   Commission Rate Cases and
   Testimonials
- Examined WSSC Cost Benefit Analysis



**Photo Credit: Tina Abilgaziyeva** 





#### "Choice Matters" Portfolio of Solutions to Solve Customer Challenges

#### **Secular Drivers**



Population Growth Demand Change



infrastructure Asset Maintenance



Regulations and ESG



Energy Efficiency



Workforce Churn / Retirements



Customer Experiences Stakeholder Participation



**Quality and Safety** 



Water Scarcity / Climate Change

#### **Solutions**



#### Measurement & Control

For precise monitoring of your entire water system

Flow Meters Water Quality Sensors Valves Actuators Monitoring Devices



#### Connectivity & Communication

Resilient, secure and flexible data collection and transfer

AMI/Network as a Service (NaaS) Cellular Endpoints RTU's Protocols Integrated to Device Terminals



#### **Outcomes**







Water Conservation GHG Reduction



#### Insights & Action

Actionable data intelligence for proactive water management

Software as a Service (SaaS) Consumer Engagement Mobile App Digital Platforms Dashboards



### Collaboration & Support

Providing expertise, training and solution delivery

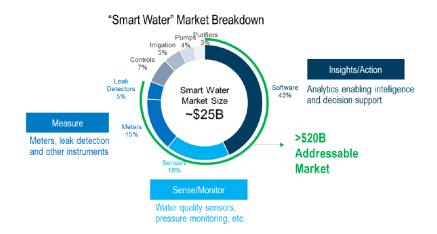
Training Maintenance Project Management Customer Service Technical Support





## Over the Past Five Years We've Evolved and Expanded Our Served Market Capitalizing On Macro Growth Tailwinds



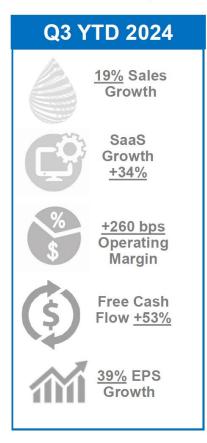


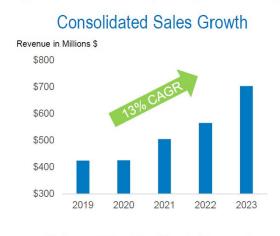
- Strategy evolution aligned with customer desire for comprehensive and tailorable solutions from trusted source
- Broad and expanding portfolio to meet each customer at their pace on the smart water journey
  - Smart measurement hardware meters, pressure, water quality, network monitoring
  - · Reliable, secure communication solutions
  - Integrated software data and analytics that enable intelligence, decision support and consumer engagement
  - Training, project management, installation oversight, support
- Ample financial capacity for continued organic and M&A investments to further evolve solution offerings

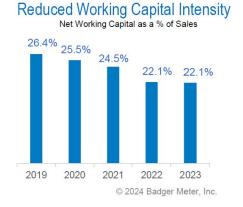


#### **Improving Metrics**

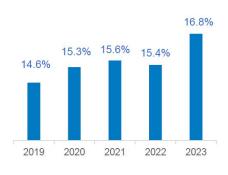
# We Have Fundamentally Improved Our Financial Profile Delivering Strong Sales Growth, Recurring Revenue, Improving Margins and Cash Generation











Improved Operating Profit Margins

9



#### **AMI Adoption**

# AMI Adoption Accelerating with Business Case for Utilities Well Understood; Timing Aligned to Meter Replacement Cycle Bringing Higher ASP Opportunity

#### **The Business Case**

Why are utilities willing to pay more?

- Reduce non-revenue water (NRW)
  - · Mechanical meters lose some accuracy over time
  - Continuous flow / leak detection in network and homes
- Lower operating cost / improve efficiencies
  - Reduced truck rolls move in/out reads and billings
  - Flow shut-off/restriction technology labor to turn off and on water services
- Encourage conservation
  - Manage what you measure
  - Leak avoidance / fix

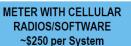
#### The Solutions

How our leading technologies deliver

- Meters
  - Static (E-series ultrasonic) holds accuracy over life; residential and commercial sizes
- Radio Endpoints
  - · Efficient and safe remote reads
  - Data and analytics more data, more often
  - Cellular infrastructure-free for utilities; flexible and resilient
- Software
  - Leak identification / detection
  - EyeOnWater for consumer engagement

### MANUAL READ MECHANICAL METER WITH REGISTER ~\$70











#### **AMI Adoption**

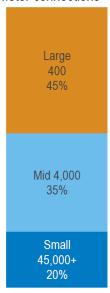
# Badger Meter Enjoys a Strong Market Position in North American AMI Adoption; Customer Diversity with Tailorable and Differentiated Offerings

#### AMI "Choice Matters" Differentiation

| Broadest Range of Offerings –<br>Choice Matters | <ul> <li>Brass and polymer</li> <li>Mechanical and static (ultrasonic)</li> <li>Drive by, fixed and cellular radio technology</li> </ul>  |
|---|---|
| Technology Leadership                           | <ul> <li>ORION Cellular – leverages existing infrastructure, flexible, secure, broad coverage</li> <li>SaaS with BEACON/EyeOnWater – actionable data for utility and homeowner</li> </ul>   |
| Innovation                                      | <ul> <li>Ultrasonic expertise</li> <li>Remote actuating flow restriction valve</li> <li>Real-time water quality sensing – optical and electrochemical</li> <li>Network monitoring – RTUs, high frequency pressure, acoustic leak detection</li> </ul>                         |
| High Service Levels and<br>Customer Support     | <ul> <li>Strong brand preference – long term relationships / loyalty</li> <li>Channel coverage - regional service center and local distribution to cover smaller utilities</li> <li>Highly trained Solution Architects, customer care and field technology support</li> </ul> |
| Low Lifecycle Costs                             | <ul> <li>Highly accurate and quality products / low warranty</li> <li>Exceptional battery life</li> <li>Leverage existing cellular technology network</li> </ul>  |

### >50K Water Utilities in US

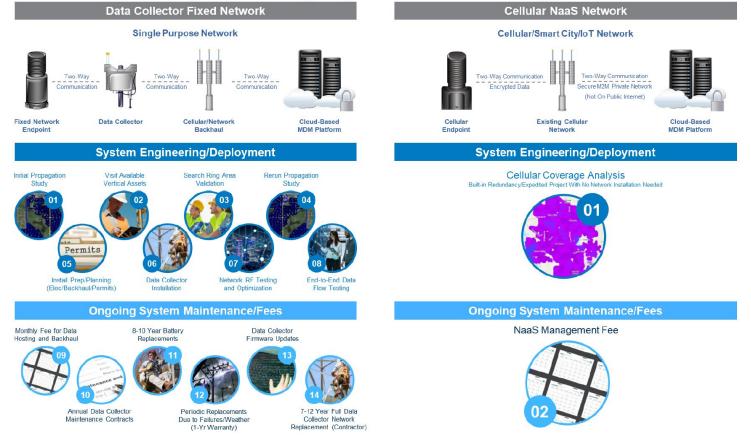
Utility Size and their Share of Meter connections





# Fixed Network v. Cellular NaaS Network

# Badger Meter Is the Undisputed Leader in Cellular Communication with Millions of Endpoints Deployed; Provides Myriad of Benefits to Utilities



# Cellular Network as a Service (NaaS)

- Easy
- Flexible
- Resilient
- Secure
- Sustainable

19

# **Growth Strategies**



# **Key Growth Strategies for Utility Smart Water**

- Maintain leading position in the North American smart water market through continued development of leadingedge offerings
  - AMI adoption rate only at one third of connections
  - Leverage natural meter replacement cycle to upgrade customers (no radio or AMR to AMI)
- Penetrate and grow select international markets (e.g. Middle East, UK) with fit-for-market solutions
- Leverage addition of real-time water quality monitoring, high frequency pressure & network monitoring and other system health parameters into actionable data to improve utility operations
- Augment software, including consumer engagement technology, for optimized customer solution







# **M&A Strategy and History**

# Strategic M&A is an Enabler to Expand Offerings and Accelerate Growth

- Technology solutions that can be leveraged across both utility and flow instrumentation markets
  - Water quality monitoring
  - Leak detection, conservation
- Software enhancements SaaS
  - Utility operations
  - Network monitoring
  - Consumer portals
- International penetration

| Year              | Company                       | Туре                             | Location          | Price |
|-------------------|-------------------------------|----------------------------------|-------------------|-------|
| Utility Water In: | strumentation and Connectiv   | ity:                             |                   |       |
| 2024              | Telog / Unity                 | RTUs and software                | US                | \$3M  |
| 2023              | Syrinix, Ltd.                 | Pressure monitoring              | UK                | \$18M |
| 2021              | Analytical Technology, Inc    | Water quality monitoring         | USA/UK            | \$44M |
| 2020              | s::can                        | Water quality monitoring         | Vienna, Austria   | \$31M |
| 2018              | Innovative Metering Solutions | Distributor                      | Tampa, FL         | \$8M  |
| 2017              | Carolina Meter                | Distributor                      | Wilmington, NC    | \$6M  |
| 2017              | D-Flow                        | Ultrasonic Technology/R&D        | Lulea, Sweden     | \$23M |
| 2015              | United Utilities              | Distributor                      | Smyrna, TN        | \$3M  |
| 2014              | National Meter                | Distributor                      | Denver, CO        | \$23M |
| 2013              | Aquacue                       | Software/cellular technology/R&D | Los Gatos, CA     | \$14M |
| Flow and Indus    | trial Instrumentation:        |                                  |                   |       |
| 2012              | Racine Federated              | Technology/Manufacturing         | Racine, WI        | \$57M |
| 2011              | Remag                         | Technology/Manufacturing         | Bern, Switzerland | \$5M  |
| 2010              | Cox Instruments               | Technology/Manufacturing         | Scottsdale, AZ    | \$8M  |



# **BMI AMI Transition Analysis (Sell-Side)**

Figure 9: Deutsche Bank Connected Meter Transition Analysis

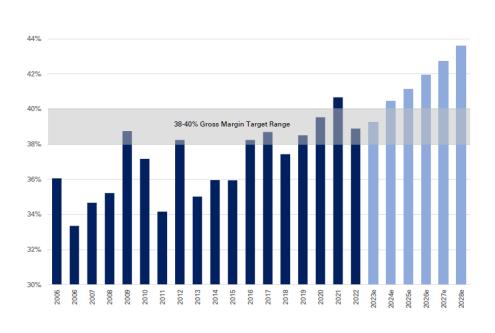
|   | 0047                |         | 0004                | 0000                | 0000                  | 0004                  | 2225          |                      |                      |                      |                      |               | 0004                 | 0000                 |                      |       |           |
|---|---------------------|---------|---------------------|---------------------|-----------------------|-----------------------|---------------|----------------------|----------------------|----------------------|----------------------|---------------|----------------------|----------------------|----------------------|-------|-----------|
| Installed Base - Meter Units (millions) | <u>2017</u><br>92.5 | <u></u> | <u>2021</u><br>97.5 | <u>2022</u><br>98.2 | <u>2023</u><br>99.0   | <u>2024</u><br>99.9   | 2025<br>101.0 | <u>2026</u><br>102.1 | <u>2027</u><br>103.4 | <u>2028</u><br>104.8 | <u>2029</u><br>106.4 | 2030<br>108.1 | <u>2031</u><br>109.9 | <u>2032</u><br>111.9 | <u>2033</u><br>114.1 |       |           |
| Incremental Net Units Y/Y               | 92.5                |         | 97.5                | 0.7                 | 0.8                   | 0.9                   | 1.0           | 1.2                  | 1.3                  | 1.4                  | 1.6                  | 1.7           | 1.8                  | 2.0                  | 2.2                  |       |           |
| % Change Y/Y                            |                     |         |                     | 0.7%                | 0.8%                  | 0.9%                  | 1.0%          | 1.1%                 | 1.3%                 | 1.4%                 | 1.5%                 | 1.6%          | 1.7%                 | 1.8%                 | 1.9%                 |       |           |
| ,g- · · ·                               |                     |         |                     | ,-                  | ,-                    | ,-                    | ,.            | ,-                   | ,-                   | ,-                   | ,-                   | ,-            | ,-                   | ,.                   | ,-                   |       |           |
| Manual Read Meters Units                | 37.5                |         | 30.0                | 28.0                | 26.0                  | 24.0                  | 22.0          | 20.0                 | 18.0                 | 16.0                 | 14.0                 | 12.0          | 10.0                 | 8.0                  | 6.0                  |       |           |
| Incremental Net Units Y/Y               |                     |         |                     | -2.0                | -2.0                  | -2.0                  | -2.0          | -2.0                 | -2.0                 | -2.0                 | -2.0                 | -2.0          | -2.0                 | -2.0                 | -2.0                 |       |           |
| % Change Y/Y                            |                     |         |                     | -6.7%               | -7.1%                 | -7.7%                 | -8.3%         | -9.1%                | -10.0%               | -11.1%               | -12.5%               | -14.3%        | -16.7%               | -20.0%               | -25.0%               |       |           |
| % of Total Units                        | 41%                 |         | 31%                 | 29%                 | 26%                   | 24%                   | 22%           | 20%                  | 17%                  | 15%                  | 13%                  | 11%           | 9%                   | 7%                   | 5%                   |       |           |
| Meters with Connectivity Units          | 55.0                |         | 67.5                | 70.2                | 73.0                  | 75.9                  | 79.0          | 82.1                 | 85.4                 | 88.8                 | 92.4                 | 96.1          | 99.9                 | 103.9                | 108.1                |       |           |
| Incremental Net Units Y/Y               | 33.0                |         | 07.5                | 2.7                 | 2.8                   | 2.9                   | 3.0           | 3.2                  | 3.3                  | 3.4                  | 3.6                  | 3.7           | 3.8                  | 4.0                  | 4.2                  |       |           |
| % Change Y/Y                            |                     |         |                     | 4.0%                | 4.0%                  | 4.0%                  | 4.0%          | 4.0%                 | 4.0%                 | 4.0%                 | 4.0%                 | 4.0%          | 4.0%                 | 4.0%                 | 4.0%                 |       |           |
| % of Total Units                        | 59%                 |         | 69%                 | 71%                 | 74%                   | 76%                   | 78%           | 80%                  | 83%                  | 85%                  | 87%                  | 89%           | 91%                  | 93%                  | 95%                  |       |           |
|   |                     |         |                     |                     |                       |                       |               |                      |                      |                      |                      |               |                      |                      |                      |       |           |
| % Total Units Sold Annually             |                     |         |                     |                     |                       |                       |               |                      |                      |                      |                      |               |                      |                      |                      |       |           |
| Mechanical Meters                       |                     |         | 80%                 | 78%                 | 76%                   | 74%                   | 72%           | 70%                  | 68%                  | 66%                  | 64%                  | 62%           | 60%                  | 58%                  | 56%                  |       |           |
| Static Meters                           |                     |         | 20%                 | 22%                 | 24%                   | 26%                   | 28%           | 30%                  | 32%                  | 34%                  | 36%                  | 38%           | 40%                  | 42%                  | 44%                  |       |           |
| Mechanical with Connection (AMR)        |                     |         | 65%                 | 62%                 | 58%                   | 55%                   | 51%           | 48%                  | 44%                  | 41%                  | 37%                  | 34%           | 30%                  | 27%                  | 23%                  | -3.5% | Annual    |
| Mechanical with Connection (AMI)        |                     |         | 15%                 | 17%                 | 18%                   | 20%                   | 21%           | 23%                  | 24%                  | 26%                  | 27%                  | 29%           | 30%                  | 32%                  | 33%                  | 1.5%  | Mix       |
| Static with Connection (AMI)            |                     |         | 20%                 | 22%                 | 24%                   | 26%                   | 28%           | 30%                  | 32%                  | 34%                  | 36%                  | 38%           | 40%                  | 42%                  | 44%                  | 2.0%  | Change    |
|   |                     |         |                     |                     |                       |                       |               |                      |                      |                      |                      |               |                      |                      |                      |       |           |
| Mechanical with Connection (AMR)        |                     |         | \$160               | \$163               | \$166                 | \$170                 | \$173         | \$177                | \$180                | \$184                | \$187                | \$191         | \$195                | \$199                | \$203                | 2.0%  | Annual    |
| Mechanical with Connection (AMI)        |                     |         | \$190               | \$194               | \$198                 | \$202                 | \$206         | \$210                | \$214                | \$218                | \$223                | \$227         | \$232                | \$236                | \$241                | 2.0%  | Price     |
| Static with Connection (AMI)            |                     |         | \$250               | \$255               | \$260                 | \$265                 | \$271         | \$276                | \$282                | \$287                | \$293                | \$299         | \$305                | \$311                | \$317                | 2.0%  | Increases |
| Weighted Average Price Per Unit         |                     |         | \$183               | \$188               | \$195                 | \$201                 | \$207         | \$214                | \$221                | \$228                | \$235                | \$242         | \$250                | \$258                | \$266                |       |           |
| % Change Y/Y                            |                     |         |                     | 3%                  | 3%                    | 3%                    | 3%            | 3%                   | 3%                   | 3%                   | 3%                   | 3%            | 3%                   | 3%                   | 3%                   |       |           |
| Estimated Sales (Units x Price)         |                     |         |                     | \$509               | \$546                 | \$586                 | \$630         | \$676                | \$725                | \$778                | \$835                | \$895         | \$960                | \$1.030              | \$1,104              |       |           |
| % Change Y/Y                            |                     |         |                     | 3009                | <del>აამა</del><br>7% | <del>ააიი</del><br>7% | 7%            | \$676<br>7%          | \$725<br>7%          | ₹//6<br>7%           | эозэ<br>7%           | 3095<br>7%    | \$960<br>7%          | \$1,030<br>7%        | \$1,104<br>7%        |       |           |
| 70 onlings 17 i                         |                     |         |                     |                     | 7 70                  | 7,0                   | 7 /0          | 2 /0                 | . 70                 | 2 /0                 | 2 /0                 | 2 /0          | 2 /0                 | 2 /0                 | 2 70                 |       |           |



# **BMI SaaS Impact Analysis (Sell-Side)**

Figure 11: Badger Meter SaaS Impact Analysis

| Total Sales<br>Total Gross Profit<br><b>Total Gross Margin</b>                    | 2022<br>565.6<br>220.0<br>38.9% | 2023e<br>635.9<br>253.1<br>39.8% | 2024e<br>676.1<br>273.6<br>40.5%        | 2025e<br>719.8<br>296.2<br>41.2%         | 2026e<br>770.3<br>323.2<br>42.0%         | 2027e<br>823.8<br>352.1<br>42.7% | 2028e<br>885.2<br>386.1<br>43.6% |
|---|---------------------------------|----------------------------------|---|--|--|----------------------------------|----------------------------------|
| Core Sales<br>% Growth Y/Y  | 531.6                           | 588.4<br>10.7%                   | 611.9<br>4%                             | 636.4<br>4%                              | 661.9<br>4%                              | 688.3<br>4%                      | 715.9<br>4%                      |
| Core GM %<br>Core GP Dollars  | 36.9%<br>196.2                  | 37.4%<br>219.9                   | 37.4%<br>228.7                          | 37.4%<br>237.8                           | 37.4%<br>247.4                           | 37.4%<br>257.2                   | 37.4%<br>267.5                   |
| SaaS Sales<br>% Sales<br>% Growth Y/Y   | 33.9<br>6.0%                    | 47.5<br>7.5%<br>40%              | 64.1<br>9.5%<br>35%                     | 83.4<br>11.6%<br>30%                     | 108.4<br>14.1%<br>30%                    | 135.5<br>16.4%<br>25%            | 169.4<br>19.1%<br>25%            |
| SaaS GM %<br>SaaS GP Dollars  | 70%<br>23.8                     | 70%<br>33.3                      | 70%<br>44.9                             | 70%<br>58.4                              | 70%<br>75.9                              | 70%<br>94.8                      | 70%<br>118.6                     |
| SaaS EBIT %<br>SaaS EBIT Dollars  | 30%<br>10.2                     | 30%<br>14.3                      | 30%<br>19.2                             | 30%<br>25.0                              | 30%<br>32.5                              | 30%<br>40.6                      | 30%<br>50.8                      |
| Tax Rate<br>Share Count   | 24.2%<br>29.4                   | 24.4%<br>29.4                    | 24.4%                                   | 24.4%                                    | 24.4%                                    | 24.4%                            | 24.4%<br>29.4                    |
| SaaS EPS Impact<br>Y/Y Change<br>Incremental vs. 2023e<br>% vs. 2023e Current EPS | 0.26                            | 0.37<br><i>39%</i>               | 0.49<br><i>35%</i><br>0.13<br><i>5%</i> | 0.64<br><i>30%</i><br>0.28<br><i>10%</i> | 0.84<br><i>30%</i><br>0.47<br><i>17%</i> | 1.04<br>25%<br>0.68<br>25%       | 1.30<br>25%<br>0.94<br>34%       |
| Current Total EPS   | 2.26                            | 2.75                             |   |  |  |                                  |                                  |





December 5<sup>th</sup>, 2024

**Team Number: 2** 

Students: Sarah Ashkar, Sid Balaji, Advik Shetty



### **Executive Summary**

# **Crocs**<sup>tm</sup>

### **Company Overview**

Crocs, Inc., founded in 2002 and headquartered in Broomfield,
 Colorado, is a global leader in casual footwear, best known for its foam clogs and customizable Jibbitz charms. The company operates in over 80 countries through wholesale, retail, and e-commerce channels.

# Investment Rationale

- Crocs has robust fundamentals, and the market has overreacted to recent earnings.
- International growth presents a significant opportunity for Crocs to expand its market share, diversify revenue streams, and capitalize on increasing global demand for casual, comfort-focused footwear.
- The expansion into new product categories, such as sandals, leverages Crocs' brand recognition and taps into adjacent markets, driving incremental revenue growth.

#### **Recommendation**

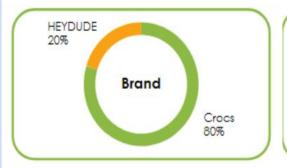
BUY: Price target of \$150



# Crocs – A Globally Recognized Brand & Incredibly Stable Core Business

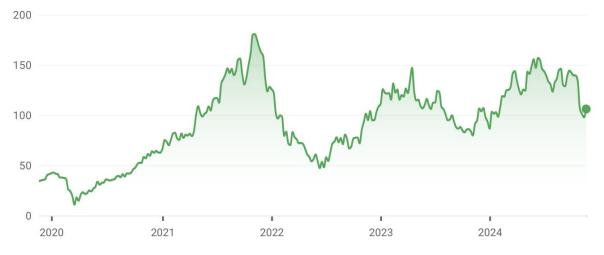
- ~150 million pairs sold in 2023
- Acquired HeyDude for 2.5bn in 2022
- Products sold in 85 + countries
- Annual sales of \$4 billion
- Casual shoe market valued at \$80.1b (2023); expected to grow at a CAGR of 7.4% \$163.1b
- Considered a workwear item: hospitals, restaurants, military members, and teachers

#### Revenue Breakdown



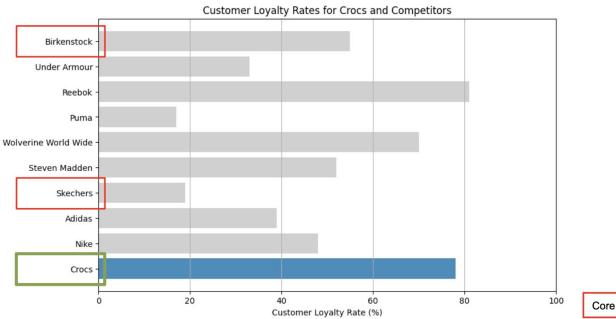








### Crocs has Competitive Advantage in High Brand Loyalty



Core Competitors

#### **Innovative Materials**

Crocs' proprietary Croslite™ material is cost-effective, offering higher margins compared to traditional footwear materials.

#### **High Penetration of Molded Products**

A large portion of Crocs' product line consists of molded footwear, which is generally less expensive to produce than more complex shoe constructions

#### 78% customer loyalty rate

Higher than all of core competitors, and nearly all other footwear companies



### We Believe Crocs' Business is Stronger than Consensus

#### Consensus

#### **Investment Thesis**

# Crocs



- A declining fad
- Covid Stock w/o growth prospects

- Double digit revenue growth in Asia
- Product resiliency of US demand not priced in
- More brands entering the category in the luxury, sports and fashion spaces. Viewed as a positive as it validates the clog silhouette with customers

# New Business HeyDude



- A failed acquisition after Q3 earnings miss
- Crocs overpaid in 2022
- Recent revenue miss is result of marketing shift from performance to brand marketing.
- Management expected short term revenue decline.

# New Management Terence Reilly



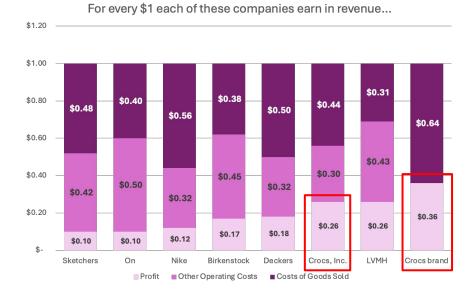
- Will not be able to recreate Stanley mug growth in turnaround of HeyDude
- Brand Awareness increased from 18%
   Q1 → 38% Q3
- Market is underestimating power of brand partnerships & ease of scaling through alternative media platforms

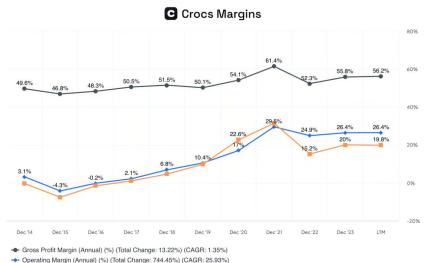


#### Thesis 1: Market has Overreacted to Recent Earnings

- Net Profit Margin (Annual) (%)

- The Crocs brand continues to show strong growth, Q3 2024 revenue increasing by 7.4% YoY, exceeding expectations
- Q3 2024 total revenue reached \$1.06b, a
   1.6% increase YoY
- Adjusted earnings per share (EPS) of \$3.60 in Q3 2024, surpassing guidance and showing a 10.8% increase from the previous year
- Gross margin improved to 59.6% in Q3
   2024, up from 57.4% in Q3 2023
- The company repaid \$387m in debt TYD and repurchased \$151m of shares in Q3 2024
- Paid off \$1.4b of debt from 2022 2023
- As Q3 '24, interest coverage ratio:
   10.30

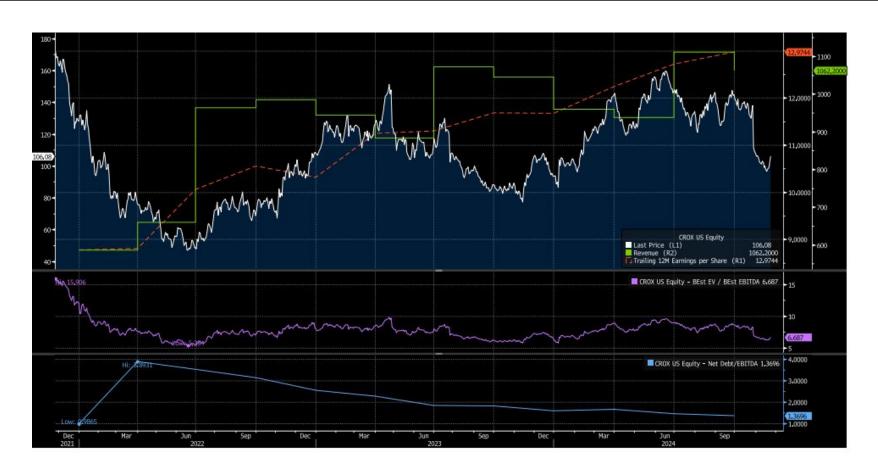






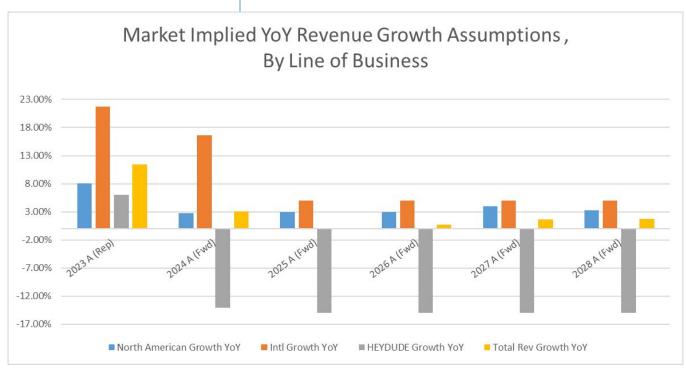
### Thesis 1.1: Market has Overreacted to Recent Earnings

Price correction post Q3 earnings disappointment despite longer term robust fundamentals. Low EV/EBITDA multiple implies market perceives business as without growth prospects.





# Thesis 1.1: Reverse DCF, Current Price Implies Top-Line Growth of 1% at Stable Gross Margins.



At current price ~\$100, the market is very conservative on Crocs' business, and price includes a free call option on HeyDude business.

# **Growth and Revenue Assumptions to Arrive at Current Price from DCF**

- HeyDude Revenue Growth: -15% avg
- International Revenue Growth: 5% avg
- North America Revenue Growth: 3.3% avg
- Top Line Revenue Growth: 1%
- Terminal Growth rate at 2%





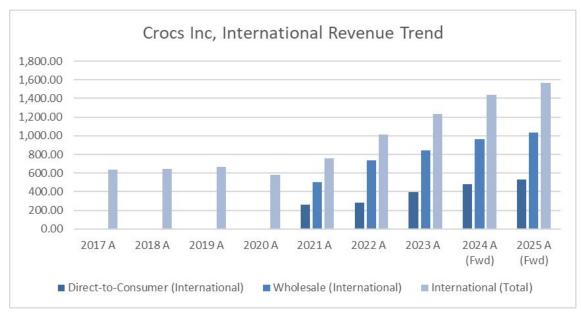
### Thesis 2: Emerging International Market: A Key Growth Driver

### **International Expansion**

- Crocs is focusing on international markets as a key driver of growth.
- International sales for the Crocs brand increased by 24% (Q3 2024)

### **Emerging Markets**

- Rising disposable incomes in emerging economies have increased spending on new fashionable footwear.
- Market Growing at CAGR 20-25%



#### Hiring Openings in Asia

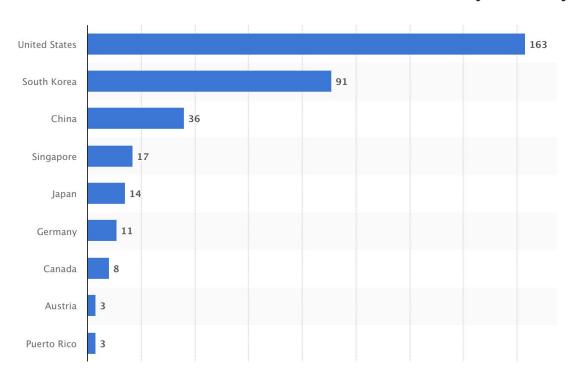




#### Thesis 2.1: The Success of Crocs in the Global and Chinese Market

Crocs employs more refined and localized strategies in China to better align with Chinese consumers' preferences and purchasing behaviors.

### Number of Crocs' stores worldwide in 2023, by country



# Performance and Localized Management in the Chinese Market

- Core Consumer Segment Analysis
- 2. Localized Strategies
  - Localized Product Design
  - Digital Marketing and E-commerce Partnerships
  - Multi-Fronted Strategy against Counterfeits



# Thesis 2.2: Crocs Has Been Targeting China through Digital E-Commerce and Marketing

- Partner operated stores in major cities and digital
- Crocs Brand ranked as a Top 10 overall fashion brand on Tmall during the Midsummer Festival (Summer 2024) for the first time. One of only two footwear brands mentioned in the top 10 fashion rankings.
  - Tmall is a Chinese e-commerce website. Owned by Alibaba Group and is China's largest business-to-consumer platform.

• Partnered with local style icons and influencers, such as Yang Mi and Bai

Jingting















# Thesis 3: New Markets & Expanded Products Show Continued Demand

### **Market Demand & Business Impact**



- \$30bn TAM
- Accounts for 13% of the Crocs' sales
- Category can grow at 25-30% annually



- In 2023, clog sales rose 12%, driven by diversification into height and fashion-forward items
- Continued strong post-pandemic trend

Personalization



- Sales rose 17% above the growth of the business in 2023
- Jibbitz; accessorize and personalize clogs, for 9% of Crocs' sales
- Crocs customers who buy Jibbitz have twice the average lifetime value



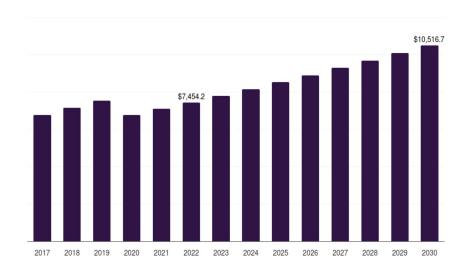
# Thesis 3.1: Crocs' Sandals Expands Market Reach and Strengthens Brand Presence

# Sandals provide an additional entry point to the Crocs brand for consumers who may not choose to engage with the clog

- Revenue in the Asia sandals market amounts to US\$46.1bn in 2024. The market is expected to grow annually by 1.39% (CAGR 2024-2029).
- In the China sandals market, volume is expected to amount to 842.5M pairs by 2029 and show a volume growth of 1.3% in 2025.
  - a. Crocs Brand sold 119M pairs in 2023
- Asian culture leans towards sandals, with keeping feet cool in hot climate and with many wearing slippers or sandals inside the house.

  | Everyday | Style | S

Asia Pacific flip flops market, 2017-2030 (US\$M)



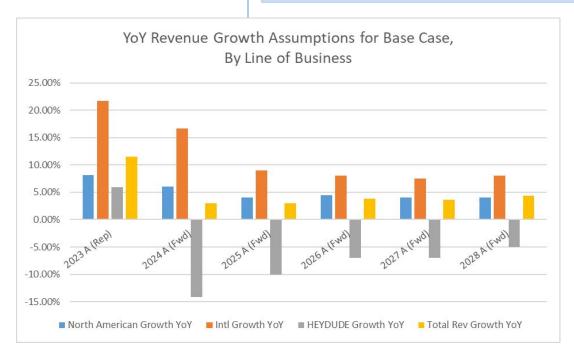








### Valuation: Base Case ~50% Upside, without HeyDude Turnaround



| Free Cash Flow to Firm:            | Value  | Per Share |
|------------------------------------|--------|-----------|
| Present Value of FCFF:             | 4,331  | 74.3      |
| Terminal Value:                    |        |           |
| <ul><li>Perpetual Growth</li></ul> | 6,698  | 114.9     |
| Firm Intrinsic Value               | 11,029 | 189.2     |
| - Net Debt                         | 1,847  | 31.7      |
| - Preferred                        | 0      | 0.0       |
| - Minority Interst                 | 0      | 0.0       |
| Value of Equity                    | 9,182  | 157.5     |
| Current Price                      |        | 106.08    |
| Upside/Downside                    |        | 48.51%    |

### **Key Assumptions**

- HeyDude revenue shrinks at -7.25% avg
- International revenue grows at 8.1% avg
- North America revenue grows at 4.1% avg
- Terminal Growth rate at 2.1%

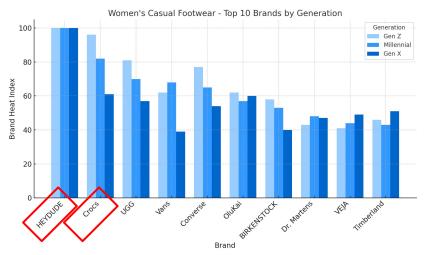


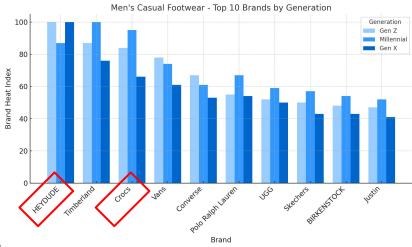
### Valuation: Base Case Revenue

| INCOME STATEMENT                          | FY '21 A<br>12/31/21 | FY '22 A<br>12/31/22 | FY '23 A<br>12/31/23 | FY '24 E<br>12/31/24 | FY '25 E<br>12/31/25 | FY '26 E<br>12/31/26 | FY '27 E<br>12/31/27 | FY '28 E<br>12/31/28 |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Revenue                                   | 2,313                | 3,555                | 3,962                | 4,082                | 4,203                | 4,362                | 4,521                | 4,718                |
| Revenue Growth (YoY)                      | 66.9%                | 53.7%                | 11.5%                | 3.0%                 | 2.9%                 | 3.8%                 | 3.6%                 | 4.3%                 |
| Cost of Revenue                           | (887)                | (1,684)              | (1,725)              | (1,701)              | (1,761)              | (1,832)              | (1,899)              | (1,981)              |
| Gross Profit                              | 1,426                | 1,871                | 2,237                | 2,382                | 2,442                | 2,530                | 2,622                | 2,736                |
| Gross margin                              | 61.6%                | 52.6%                | 56.5%                | 58.3%                | 58.1%                | 58.0%                | 58.0%                | 58.0%                |
| Other Operating Income                    | -                    | -                    | -                    |                      |                      |                      |                      |                      |
| Operating Expenses                        | (737)                | (945)                | (1,164)              | (1,346)              | (1,472)              | (1,527)              | (1,596)              | (1,685)              |
| Other Operating Expenses                  |                      | 2                    | 0.4                  |                      | -                    | - 1                  | -                    | -                    |
| Operating Income                          | 689                  | 926                  | 1,074                | 1,036                | 970                  | 1,003                | 1,026                | 1,051                |
| Operating Margin                          | 29.8%                | 26.0%                | 27.1%                | 25.4%                | 23.1%                | 23.0%                | 22.7%                | 22.3%                |
| Non-Operating Income (Loss)               | (19)                 | (132)                | (161)                | (118)                | (126)                | (123)                | (120)                | (116)                |
| Interest Expense, Net                     | (21)                 | (135)                | (159)                | (114)                | (126)                | (124)                | (121)                | (117)                |
| Foreign Exch Gain (Loss)                  | (0)                  | 3                    | (1)                  | (4)                  |                      | 20. 20               |                      |                      |
| Income (Loss) from Affiliates (Pre Tax)   | -                    | -                    | -                    | 3-3                  | -                    | -:                   | \$ <b>-</b> 2        | 2.5                  |
| Other Non-Op Income (Loss)                | 2                    | (0)                  | (0)                  | 0                    | 1                    | 1                    | 1                    | 1                    |
| Pretax Income                             | 670                  | 794                  | 913                  | 918                  | 844                  | 880                  | 906                  | 935                  |
| Income Taxes                              | 60                   | (167)                | (218)                | (153)                | (190)                | (198)                | (204)                | (210)                |
| Income (Loss) from Affiliates (After Tax) | -                    | -                    | -                    | 3-2                  | -                    | -                    | 3-3                  | 2-                   |
| Income (Loss) from Cont Ops               | 726                  | 540                  | 793                  | 765                  | 654                  | 682                  | 702                  | 725                  |
| Net Extraordinary Items                   | -                    | -                    |                      |                      |                      |                      |                      |                      |
| Minority Interest                         | 2                    | 2                    | 2                    | 100                  | -                    | 20                   | 102                  | - 62                 |
| Net Income                                | 730                  | 626                  | 695                  | 765                  | 654                  | 682                  | 702                  | 725                  |



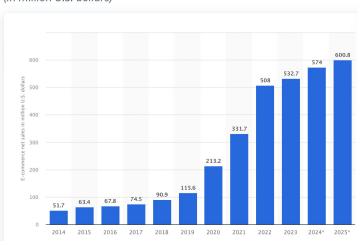
#### Catalysts and Tailwinds for Crocs





- 1. Increasing popularity is proof that Crocs' switch from performance to brand marketing is working. LEK's survey of 4,000 U.S. consumers between the ages of 14 and 55 show HeyDude and Crocs brands are on the steepest positive trajectory with shoppers
- 2. Direct-to-Consumer (DTC) Channel: Crocs has been capitalizing on its DTC channel, which allows more control over Average Selling Prices (ASPs)
  - Crocs ASP has grown from \$18.21 (2019) to \$24.92 (2023); ASP CAGR of 8.1%
- 3. Personalization Trend: 44% of consumers are interested in personalized fashion, only **6% of shoe brands offer this feature**
- 4. E-commerce Growth: Growing popularity of online shopping platforms has made it easier for consumers to access a wider variety of shoe options and brands
- 5. Athleisure Trend: Athleisure footwear estimated to grow at a **5.0% CAGR** from 2024 to 2030
- 6. Health & Comfort Consciousness: Consumers are prioritizing comfort and functionality, leading to a surge in demand for comfortable footwear

# E-commerce net sales of crocs.com from 2014 to 2025 (in million U.S. dollars)





#### Catalyst: HeyDude Turnaround



#### **Terence Reilly**

- •Hired as HEYDUDE's President in April 2024
- •25 years in global marketing and operations

Previously employed at Crocs for 6 years, left in 2020 as the Chief Marketing Officer

- •Prior to HEYDUDE, Terence Reilly was the **President of Stanley (mugs) from 2020 2024**
- •<u>His Crocs and Stanley Playbook:</u> Using influencer marketing on niche items that create a personal statement, and by create scarcity
  - •Implemented a new marketing strategy, **grew sales by 300%** for Stanley's core product, the Quencher
  - •During his <u>4-year's at Stanley</u>, he radically altered the brand image of Stanley and grew <u>sales</u> from <u>\$70m to \$750m</u>

**Terence Reilly, President HEYDUDE** 

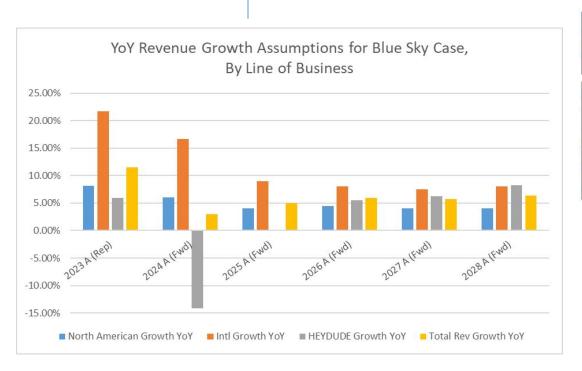
#### The Public HEYDUDE Marketing Strategy thus far...

Partnering leading influencers, attracting more female customers, launching online stores within social media platforms (TikTok, etc.), appeal to a younger demographic

- 1. Developing an <u>outlet and physical storefront</u>; opened 13 new stores in Q2 '24, expanded <u>to 32 from</u> <u>19 stores</u>
- 2. Exploring <u>test markets in Europe</u> and planning expansion into <u>new international markets</u> over the next 2-3 years
- 3. Reduced performance, last quarter and 24E decreasing sales from marketing, Shift to *investment* in developing brand



### Valuation Blue Sky Case - ~70% Upside



| Free Cash Flow to Firm:            | Value  | Per Share |
|------------------------------------|--------|-----------|
| Present Value of FCFF:             | 4,333  | 74.4      |
| Terminal Value:                    |        |           |
| <ul><li>Perpetual Growth</li></ul> | 8,065  | 138.4     |
| Firm Intrinsic Value               | 12,398 | 212.7     |
| - Net Debt                         | 1,847  | 31.7      |
| - Preferred                        | 0      | 0.0       |
| - Minority Interst                 | 0      | 0.0       |
| Value of Equity                    | 10,551 | 181.0     |
| Current Price                      |        | 106.08    |
| Upside/Downside                    |        | 70.66%    |

### **Key Assumptions**

HeyDude business turnaround

 Same assumptions as Base case, with difference in Hey Dude growth, average at 5% through 2028



# Valuation - Blue Sky Revenue

| INCOME STATEMENT                          | FY '21 A<br>12/31/21 | FY '22 A<br>12/31/22 | FY '23 A<br>12/31/23 | FY '24 E<br>12/31/24 | FY '25 E<br>12/31/25 | FY '26 E<br>12/31/26 | FY '27 E<br>12/31/27 | FY '28 E<br>12/31/28 |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Revenue                                   | 2,313                | 3,555                | 3,962                | 4,082                | 4,284                | 4,540                | 4,800                | 5,104                |
| Revenue Growth (YoY)                      | 66.9%                | 53.7%                | 11.5%                | 3.0%                 | 4.9%                 | 6.0%                 | 5.7%                 | 6.3%                 |
| Cost of Revenue                           | (887)                | (1,684)              | (1,725)              | (1,695)              | (1,768)              | (1,869)              | (2,000)              | (2,125)              |
| Gross Profit                              | 1,426                | 1,871                | 2,237                | 2,388                | 2,516                | 2,671                | 2,801                | 2,979                |
| Gross margin                              | 61.6%                | 52.6%                | 56.5%                | 58.5%                | 58.7%                | 58.8%                | 58.3%                | 58.4%                |
| Other Operating Income                    | 74                   | 12                   | -                    | -                    |                      |                      |                      |                      |
| Operating Expenses                        | (737)                | (945)                | (1,164)              | (1,307)              | (1,332)              | (1,398)              | (1,566)              | (1,665)              |
| Other Operating Expenses                  | -                    | 2                    | 0.4                  | -                    | -                    |                      | -                    | 64)                  |
| Operating Income                          | 689                  | 926                  | 1,074                | 1,081                | 1,184                | 1,274                | 1,235                | 1,314                |
| Operating Margin                          | 29.8%                | 26.0%                | 27.1%                | 26.5%                | 27.6%                | 28.1%                | 25.7%                | 25.7%                |
| Non-Operating Income (Loss)               | (19)                 | (132)                | (161)                | (118)                | (126)                | (124)                | (121)                | (118)                |
| Interest Expense, Net                     | (21)                 | (135)                | (159)                | (114)                | (126)                | (125)                | (122)                | (119)                |
| Foreign Exch Gain (Loss)                  | (0)                  | 3                    | (1)                  | (4)                  |                      |                      |                      |                      |
| Income (Loss) from Affiliates (Pre Tax)   | 1-1                  | -                    | -                    |                      | -                    | -                    |                      | -                    |
| Other Non-Op Income (Loss)                | 2                    | (0)                  | (0)                  | 0                    | 1                    | 1                    | 1                    | 1                    |
| Pretax Income                             | 670                  | 794                  | 913                  | 963                  | 1,059                | 1,150                | 1,114                | 1,196                |
| Income Taxes                              | 60                   | (167)                | (218)                | (162)                | (238)                | (259)                | (251)                | (269)                |
| Income (Loss) from Affiliates (After Tax) | -                    | -                    | -                    | -                    | -                    | -                    | -                    | -                    |
| Income (Loss) from Cont Ops               | 726                  | 540                  | 793                  | 801                  | 820                  | 891                  | 863                  | 927                  |
| Net Extraordinary Items                   | -                    | -                    | -                    | -                    |                      |                      |                      |                      |
| Minority Interest                         | 6                    | · ·                  | -                    | 70                   | 270                  | 5                    | 70                   |                      |
| Net Income                                | 730                  | 626                  | 695                  | 801                  | 820                  | 891                  | 863                  | 927                  |



#### Valuation - Comparables

Crocs stands out as the leader across most metrics, especially in profitability, efficiency, and valuation. It is positioned as a high-performing company with solid growth and strong margins.

|             | Market  | EV/EI | BITDA | Rev                 | Profits/  | Forward | FCF    |       | ROA       | ROIC      | ROIC      | Gross  | Profit |
|-------------|---------|-------|-------|---------------------|-----------|---------|--------|-------|-----------|-----------|-----------|--------|--------|
| Company     | Cap (b) | '23   | '24E  | Growth<br>('22-'23) | Employee  | P/E     | /Share | P/FCF | ('21-'23) | ('21-'23) | ('17-'19) | Margin | Margin |
| Crocs       | \$5.58  | 6.9x  | 10.2x | 11.5%               | \$118,741 | 7.6     | 13.15  | 5.9   | 21.5%     | 32.1%     | 12.7%     | 58.2%  | 20.5%  |
| Skechers    | \$9.03  | 10.7x | 10.4x | 7.5%                | \$35,046  | 12.3    | 5.81   | 22.7  | 6.0%      | 7.4%      | 11.9%     | 50.7%  | 7.2%   |
| Birkenstock | \$8.71  | 25.5x | 23.2x | 20.0%               | \$18,992  | 24.9    | 1.40   | 33.2  | 5.5%      | 4.6%      | 4.7%      | 55.8%  | 6.4%   |
| Average     | \$7.77  | 14.4x | 14.6x | 12.9%               | \$57,593  | 14.9    | 6.79   | 20.6  | 11.0%     | 14.7%     | 9.8%      | 54.9%  | 11.4%  |
| Crocs Dis   | count   | 52%   | 30%   | -                   | 106%      | 48%     | -      | 70%   | -         | -         | -         | -      | -      |

#### **Points of Focus:**

### **Profit per Employee:**

106% more than double the average

Valuation Ratios: Crocs appears attractively valued with the lowest Forward P/E and P/FCF, indicating strong potential earnings and free cash flow relative to price

**ROIC:** Crocs outperforms across all periods, excellent efficiency in deploying capital; even prior to the pandemic



### Risks & Mitigations

#### **Risks**

#### **Liquidity**

The acquisition of HeyDude added debt to Crocs' balance sheet; \$1.4b of LT debt (MRQ)

#### **Brand**

Crocs' success is heavily dependent on maintaining its brand image and relevance, especially among younger consumers.

#### **Competition**

Crocs faces competition in the casual footwear industry

#### **Economic**

Macroeconomic factors like recessions, or inflation can impact consumer spending on Crocs products

#### **Manufacturing Risk**

A new administration imposes tariffs of Chinese Manufactured Goods



#### Strong Cash Flows & Refinancing Ability

Crocs has expanding cash flow from operations, a current ratio of 1.43, and the ability to refinance debt; a steady QoQ reduction of debt

#### **Brand Strength**

Crocs is currently the 6th most popular footwear brand among Gen Z in the US; very high customer loyalty from a near monopoly

#### **Diversification & Innovation**

The acquisition of HEYDUDE <u>further established a foothold</u> within the <u>casual footwear</u> industry

#### **Financial Discipline**

Crocs has been engaging in share repurchases and maintaining profitability, while paying down debt

#### **Supply Chain Diversification**

Vietnam (53% of production) is the largest production hub for Crocs





### 2024 Management Expectations

Management reflected more caution when compared with Q2's earning call, primarily due to HEYDUDE

#### **Strengths**

 Management's ability to maintain margin expectations; increase in EPS guidance highlights operational efficiencies

#### **Key Challenges**

 HEYDUDE's revenue decline, finding ways to reignite its growth trajectory will be critical in the coming quarters.

#### **Opportunities**

 Leveraging Crocs' strong international momentum and maintaining cost discipline to offset revenue declines, redeveloping the HEYDUDE brand in the coming quarters

### Management's Guidance Change from Q2 to Q3

|                               | Q2 2024             | Q3 2024            |  |  |
|-------------------------------|---------------------|--------------------|--|--|
| Revenue Growth                | 3% to 5%            | 3%                 |  |  |
| Crocs Brand<br>Revenue Growth | 7% to 9%            | 8%                 |  |  |
| HEYDUDE Revenue<br>Growth     | -8% to -10%         | -14.5%             |  |  |
| Operating Margins             | Maintaining at ~25% |                    |  |  |
| EPS                           | \$12.45 to \$12.90  | \$12.82 to \$12.90 |  |  |



Q&A



# **Appendix**



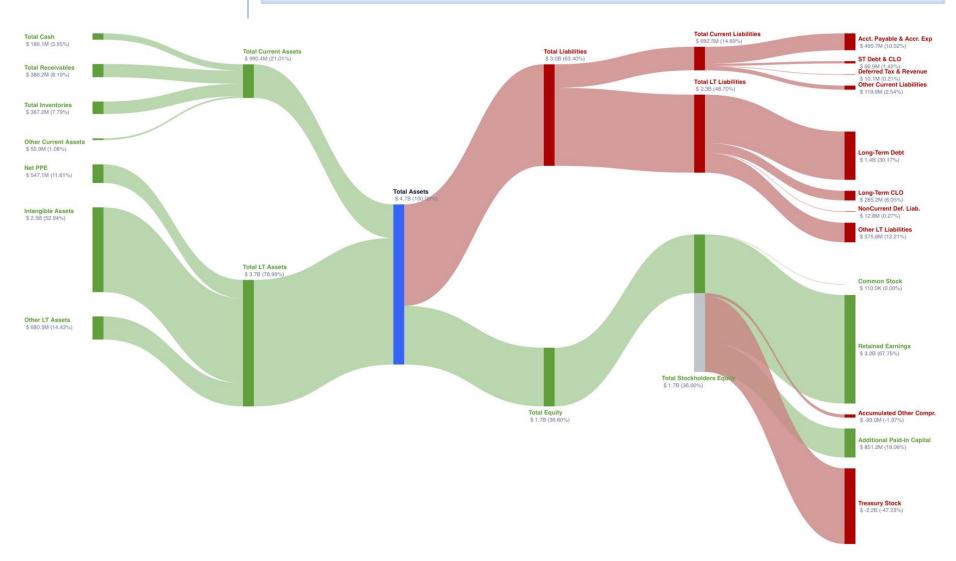
|                            | 2018 A | 2019 A | 2020 A | 2021 A  | 2022 A  | 2023 A |
|----------------------------|--------|--------|--------|---------|---------|--------|
| Operating Summary          |        |        |        |         |         |        |
| Revenue                    | 1,088  | 1,231  | 1,386  | 2,313   | 3,555   | 3,962  |
| Gross Profit               | 560    | 617    | 754    | 1,426   | 1,871   | 2,237  |
| Operating Income           | 91     | 142    | 246    | 689     | 926     | 1,074  |
| Pretax Income              | 93     | 133    | 238    | 670     | 794     | 913    |
| EBITDA                     | 120    | 227    | 335    | 779     | 1,031   | 1,208  |
| Net Income                 | 73     | 151    | 253    | 730     | 626     | 699    |
| EPS                        | (0.68) | 2.15   | 3.75   | 11.69   | 10.23   | 11.33  |
| Diluted EPS                | (0.68) | 2.10   | 3.68   | 11.46   | 10.10   | 11.22  |
| Margin Analysis            |        |        |        | 100     |         |        |
| Gross Margin               | 51.5%  | 50.1%  | 54.4%  | 61.6%   | 52.6%   | 56.59  |
| Operating Margin           | 8.4%   | 11.6%  | 17.7%  | 29.8%   | 26.0%   | 27.19  |
| Pretax Margin              | 8.6%   | 10.8%  | 17.2%  | 28.9%   | 22.3%   | 23.09  |
| EBITDA Margin              | 11.1%  | 18.4%  | 24.2%  | 33.7%   | 29.0%   | 30.59  |
| Profit Margin              | 6.7%   | 12.3%  | 18.2%  | 31.6%   | 17.6%   | 17.59  |
| Key Assumptions            |        |        |        |         |         |        |
| Revenue Growth (YoY)       | 6.3%   | 13.1%  | 12.6%  | 66.9%   | 53.7%   | 11.59  |
| Gross Margin               | 51.5%  | 50.1%  | 54.4%  | 61.6%   | 52.6%   | 56.59  |
| Operating Ratio            | 43.1%  | 38.6%  | 36.7%  | 31.9%   | 26.6%   | 29.49  |
| SG&A                       | 42.5%  | 38.9%  | 36.2%  | 31.5%   | 26.4%   | 29.19  |
| R&D                        | 0.0%   | 0.0%   | 0.0%   | 0.0%    | 0.0%    | 0.0%   |
| D&A                        | 1.0%   | 0.6%   | 0.6%   | 0.4%    | 0.3%    | 0.39   |
| Tax Rate                   | 22.1%  | -13.9% | -5.9%  | -9.0%   | 21.1%   | 23.9%  |
| Interest Rate              | 0.8%   | 2.2%   | 1.8%   | 2.2%    | 5.2%    | 8.19   |
| Cash Flow Summary          |        |        |        |         | 15      |        |
| Cash From Operations       | 114    | 90     | 267    | 567     | 603     | 930    |
| Capex                      | (12)   | (37)   | (42)   | (56)    | (104)   | (116   |
| Free Cash Flow             | 102    | 53     | 225    | 511     | 499     | 815    |
| Change in Debt             | 119    | 85     | (25)   | 605     | 1,595   | (666   |
| Change in Equity           | (63)   | (147)  | (171)  | (1,020) | (11)    | (192   |
| Dividends paid             | (205)  | (3)    | 0      | 0       | 0       | 0      |
| M&A                        | 0      | 0      | 0      | 0       | (2,047) | 0      |
| Other Changes in Cash Flow | (3)    | (4)    | (2)    | (18)    | (57)    | 1      |
| Net change in cash         | (50)   | (15)   | 27     | 78      | (22)    | (42    |



|                                    | 2018 A        | 2019 A | 2020 A | 2021 A | 2022 A | 2023 A |
|------------------------------------|---------------|--------|--------|--------|--------|--------|
| Growth, Profitability, Cash Flow & | Credit Ratios |        |        |        |        |        |
| Revenue growth                     |               | 13.1%  | 12.6%  | 66.9%  | 53.7%  | 11.5%  |
| EBITDA growth                      |               | 88.0%  | 47.8%  | 132.7% | 32.4%  | 17.1%  |
| Gross Profit margin                | 51.5%         | 50.1%  | 54.4%  | 61.6%  | 52.6%  | 56.5%  |
| EBITDA margin                      | 11.1%         | 18.4%  | 24.2%  | 33.7%  | 29.0%  | 30.5%  |
| EBITDA / interest                  | -369.6x       | 28.2x  | 51.3x  | 37.3x  | 7.6x   | 7.6x   |
| (EBITDA - capex) / interest        | -332.9x       | 23.6x  | 44.9x  | 34.7x  | 6.9x   | 6.9x   |
| Capex / revenue                    | 1.1%          | 3.0%   | 3.0%   | 2.4%   | 2.9%   | 2.9%   |
| Capex / EBITDA                     | 9.9%          | 16.1%  | 12.6%  | 7.2%   | 10.1%  | 9.6%   |
| FCF / debt                         | 85.2%         | 13.6%  | 60.2%  | 53.1%  | 19.2%  | 40.8%  |
| Gross Leverage                     | 1.0x          | 1.7x   | 1.1x   | 1.2x   | 2.5x   | 1.7x   |
| Net Leverage                       | n.a.          | 1.3x   | 0.7x   | 1.0x   | 2.3x   | 1.5x   |

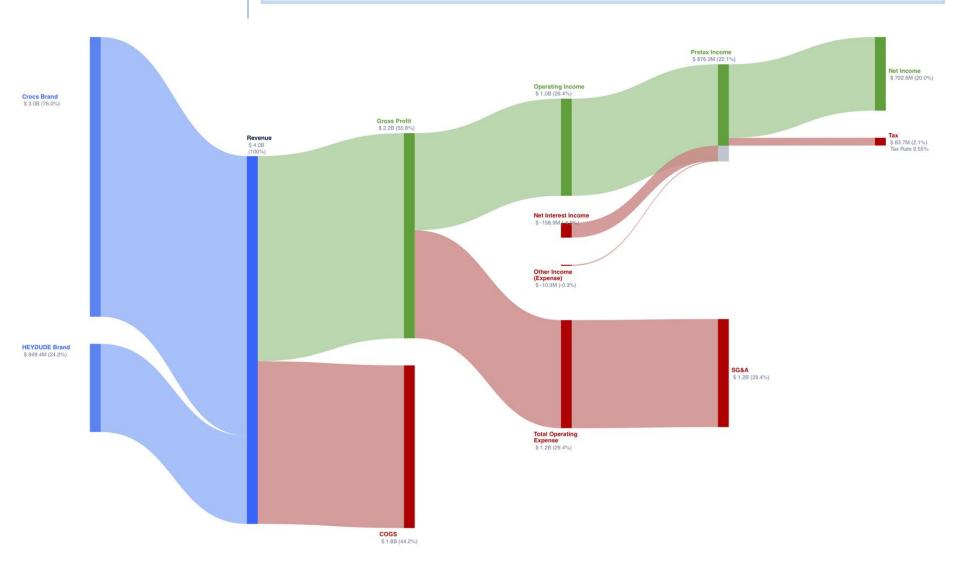


### Crox Balance Sheet Breakdown



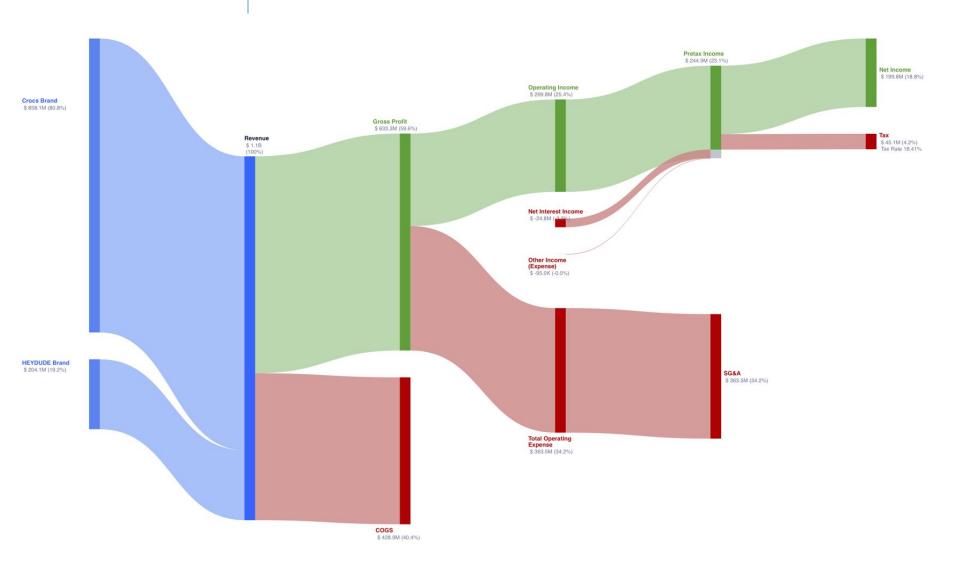


### Income Statement Breakdown



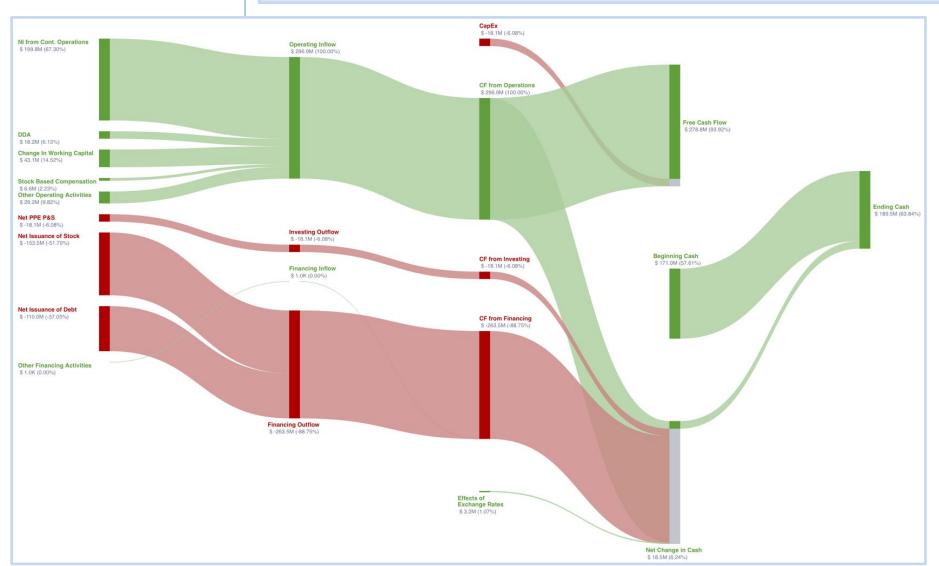


# Income Statement (Quarter Ending Sept 23) Breakdown



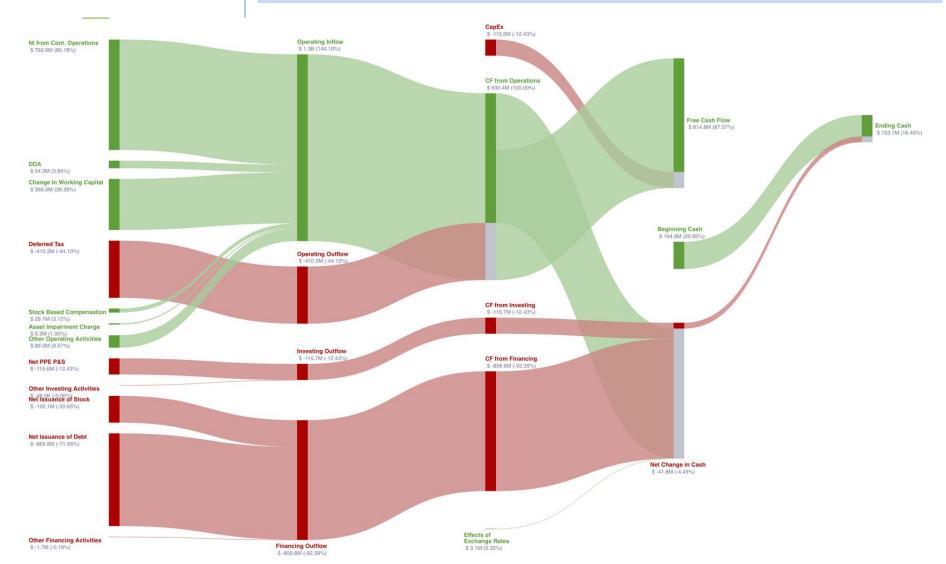


# CashFlow Statement Breakdown (Quarter Ending Sep 2024)



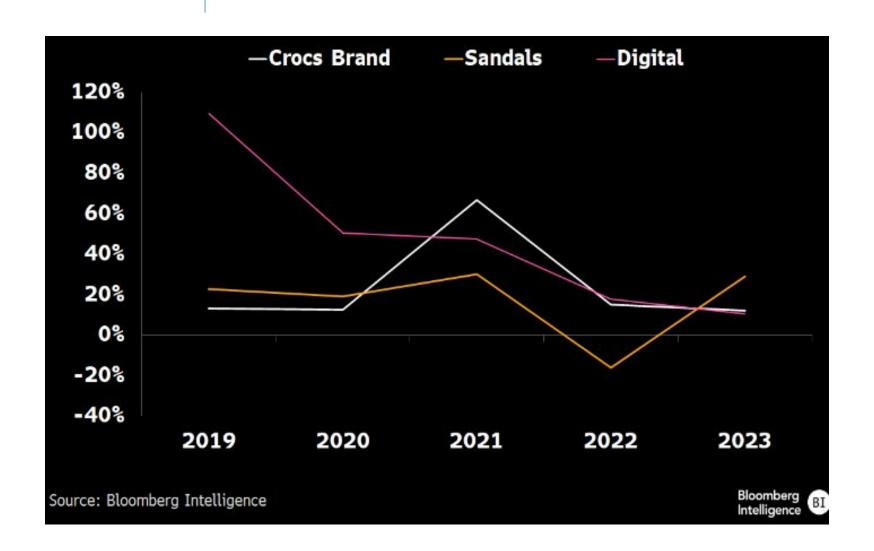


#### CashFlow Statement FY23



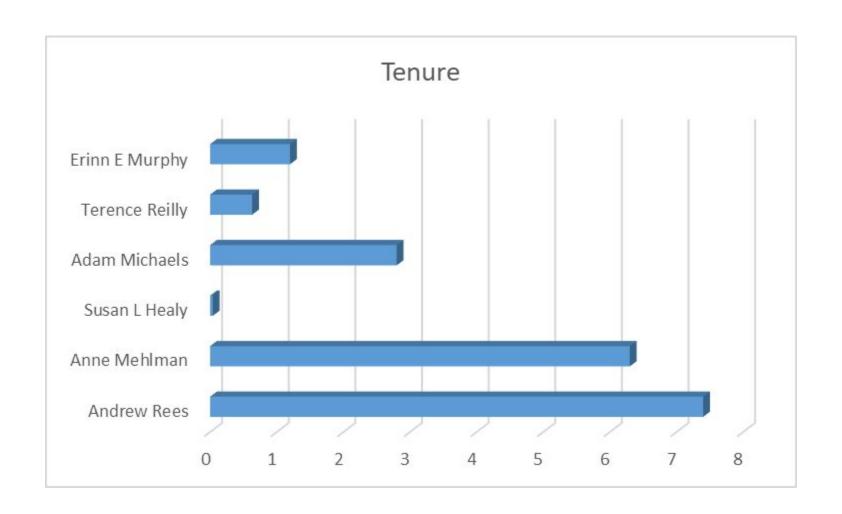


# **Chart of Segment Growth**





# Management Tenure





### Management



Andrew Rees

Director and Chief Executive Officer

Andrew Rees is the Chief Executive Officer of Crocs, Inc., overseeing the brand's global strategy and operations. Mr. Rees joined Crocs as President in June 2014 and became CEO and joined the Board of Directors in June 2017. Mr. Rees has more than 25 years of experience in the footwear and retail industry. Prior to joining Crocs, Mr. Rees served as Managing Director of L.E.K. Consulting in Boston where he founded and led the firm's Retail and Consumer Products Practice for 13 years. While at L.E.K., Mr. Rees served as a consultant for Crocs from 2013 to 2014, supporting the development and execution of the company's strategic growth plan. Previously, Mr. Rees served as Vice President of both Strategic Planning and Retail Operations for Reebok International. He also held a variety of positions at Laura Ashley. He has a Bachelor's degree from Imperial College, The University of London.

| Name              | Title                              | Board | Age  | Tenure | Sta      |
|-------------------|------------------------------------|-------|------|--------|----------|
| 1) Andrew Rees    | Chief Executive Officer            | ✓     | 57 * |        | 06/01/20 |
| 2) Anne Mehlman   | Pres:Crocs Brand/Exec VP           |       | 43 * | 6.3    | 08/24/20 |
| 3) Susan L Healy  | Exec VP/CFO                        |       | 58 * | 0.4    | 06/03/20 |
| 4) Adam Michaels  | Exec VP/Chief Digital Officer      |       | 47 * | 2.8    | 01/20/20 |
| 5) Terence Reilly | Exec VP/Pres:Heydude               |       | 56 * | 0.6    | 04/29/20 |
| 6) Erinn E Murphy | Senior VP: IR & Corporate Strategy |       |      | 1.2    | 09/05/20 |



### Management



Terence Reilly
EVP and Brand President for HEYDUDE

Terence Reilly serves as Executive Vice President and Brand President for the HEYDUDE Brand since April 2024. Mr. Reilly has more than 25 years of global marketing and operational experience and has had a decorated career. Since 2020, he has held the top spot at Stanley where he created and led the strategy that propelled the brand's resurgence into a must-have icon. Prior to Stanley, Mr. Reilly served in marketing leadership at Crocs, Inc. from 2013 to 2020 culminating in the Senior Vice President and Chief Marketing Officer role. Prior to 2013, he held various senior level marketing and leadership positions. Mr. Reilly received his Bachelor's degree in Communications from Rider University.



### Management



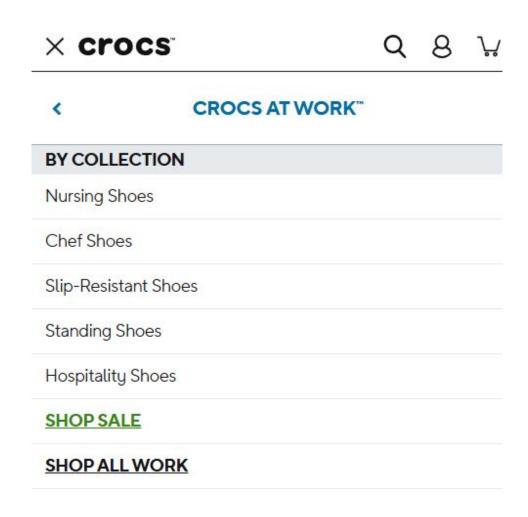
**Susan Healy**EVP and Chief Financial Officer

Susan Healy serves as the Executive Vice President and Chief Financial Officer, having joined Crocs, Inc. in June 2024. In this role, she has responsibility over financial planning and analysis, accounting, investor relations, tax, internal audit, and corporate development. Ms. Healy joins Crocs, Inc. from IAA, Inc., a global marketplace for automotive buyers and sellers, where she served as Chief Financial Officer and led the company through its \$7 billion merger with Ritchie Bros. Auctioneers Incorporated. She has over three decades of financial and operational leadership experience. Prior to 2021, Ms. Healy served as Senior Vice President of Finance for Ulta Beauty. Earlier in her career, she held various senior financial leadership roles in addition to a 12-year tenure at Goldman Sachs. Ms. Healy received her B.S. in Finance from California Polytechnic State University and her J.D. from Harvard Law School.



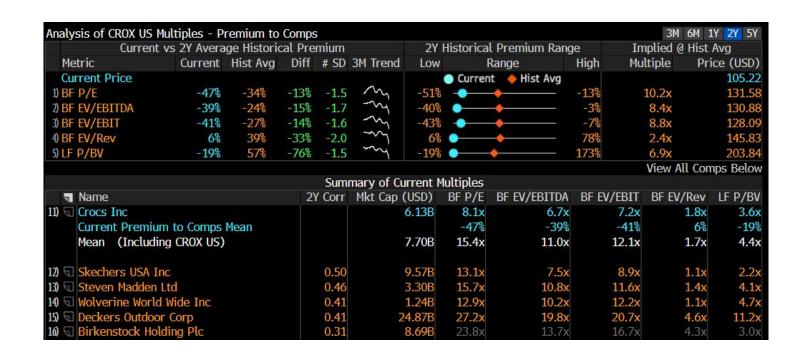
# Professional Customers, Reliable, Underlooked Segment

- Doctors/Nurses
- Lifeguards
- Clean-Lab Researchers
- Veterinary Staff
- Food Service Workers





### Comparables





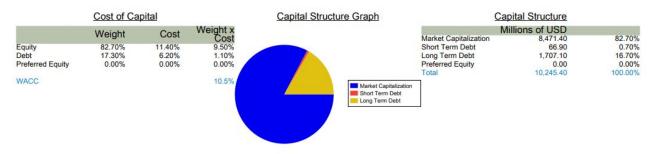
# **WACC**

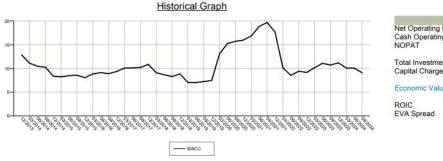
#### Weighted Average Cost of Capital

Company: Crocs Inc Ticker: CROX US Equity

Period: Current (2024 Q3)

Filing Status: Most Recent





#### Economic Value Added

| AND DESCRIPTION OF THE PARTY OF | Millions of USD |
|--|-----------------|
| Net Operating Profit   | 1,031.51        |
| Cash Operating Taxes   | 513.29          |
| NOPAT  | 518.22          |
| Total Investment Capital   | 2,992.47        |
| Capital Charge   | 315.23          |
| Economic Value Added   | 202.99          |
| ROIC   | 17.32%          |
| EVA Spread   | 6.78%           |
|  |                 |

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# **Balance Sheet**

| Millions of USD except Per Share | 2019 Y~    | 2020 Y     | 2021 Y     | 2022 Y     | 2023 Y     | 2024 Q1    | 2024 Q2    | 2024 Q     |
|----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Months Ending                    | 12/31/2019 | 12/31/2020 | 12/31/2021 | 12/31/2022 | 12/31/2023 | 03/31/2024 | 06/30/2024 | 09/30/2024 |
| Total Assets                     |            |            |            |            |            |            |            |            |
| + Cash, Cash Equivalents & STI   | 108.3      | 135.8      | 213.2      | 191.6      | 149.3      | 159.3      | 167.7      | 186.       |
| + Cash & Cash Equivalents        | 108.3      | 135.8      | 213.2      | 191.6      | 149.3      | 159.3      | 167.7      | 186.       |
| + ST Investments                 | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| + Accounts & Notes Receiv        | 108.2      | 149.8      | 182.6      | 295.6      | 305.7      | 481.5      | 420.2      | 361.       |
| + Accounts Receivable, Net       | 108.2      | 149.8      | 182.6      | 295.6      | 305.7      | 481.5      | 420.2      | 361.       |
| + Notes Receivable, Net          | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| + Inventories                    | 172.0      | 175.1      | 213.5      | 471.6      | 385.1      | 392.0      | 376.6      | 367.       |
| + Raw Materials                  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| + Work In Process                | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| + Finished Goods                 | 172.0      | 175.1      | 213.5      | 471.6      | 385.1      | -          | 376.6      | 367.       |
| + Other Inventory                | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |            | 0.0        | 0.0        |
| + Other ST Assets                | 36.9       | 32.1       | 57.2       | 67.2       | 70.6       | 73.6       | 62.4       | 75.        |
| + Derivative & Hedging Assets    | 0.1        | 0.4        | 0.0        | 0.0        | _          | -          | -          |            |
| + Taxes Receivable               | 1.3        | 1.9        | 22.3       | 14.8       | 4.4        | 3.0        | 2.5        | 2.         |
| + Misc ST Assets                 | 35.5       | 29.8       | 34.9       | 52.4       | 66.2       | 70.7       | 59.9       | 72.        |
| Total Current Assets             | 425.4      | 492.8      | 666.6      | 1,026.0    | 910.7      | 1,106.4    | 1,026.9    | 990.       |
| + Property, Plant & Equip, Net   | 229.6      | 224.9      | 269.2      | 421.4      | 525.8      | 523.0      | 536.2      | 547.       |
| + Property, Plant & Equip        | 309.2      | 311.2      | 352.9      | 518.6      | 646.3      | 652.2      | 669.4      | 694.       |
| - Accumulated Depreciation       | 79.6       | 86.3       | 83.7       | 97.1       | 120.5      | 129.1      | 133.2      | 147.       |
| + LT Investments & Receivables   | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.         |
| + Other LT Assets                | 83.8       | 401.0      | 609.3      | 3,054.4    | 3,207.4    | 3,166.2    | 3,156.7    | 3,175.     |
| + Total Intangible Assets        | 48.7       | 39.4       | 30.4       | 2,515.0    | 2,504.2    | 2,499.2    | 2,496.8    | 2,495.     |
| + Goodwill                       | 1.6        | 1.7        | 1.6        | 714.8      | 711.6      | 711.6      | 711.5      | 711.       |
| + Other Intangible Assets        | 47.1       | 37.6       | 28.8       | 1,800.2    | 1,792.6    | 1,787.6    | 1,785.3    | 1,783.     |
| + Deferred Tax Assets            | 24.7       | 350.8      | 567.2      | 528.3      | 668.0      | 647.7      | 640.6      | 659.       |
| + Derivative & Hedging Assets    | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 40.0       | -          |            |
| + Misc LT Assets                 | 10.4       | 10.9       | 11.7       | 11.1       | 35.3       | 19.3       | 19.3       | 20.        |
| Total Noncurrent Assets          | 313.4      | 625.9      | 878.5      | 3,475.8    | 3,733.1    | 3,689.2    | 3,692.9    | 3,722.     |
| Total Assets                     | 738.8      | 1,118.7    | 1.545.1    | 4,501.8    | 4,643.8    | 4,795.6    | 4,719.8    | 4,713.     |



# **Cash Flow Statement**

| In Millions of USD except Per Share | 2021 Q4    | 2022 Q1    | 2022 Q2    | 2022 Q3    | 2022 Q4  | 2023 Q1    | 2023 Q2    | 2023 Q3    | 2023 Q4    | 2024 Q1 | 2024 Q2    | 2024 Q3    |
|-------------------------------------|------------|------------|------------|------------|----------|------------|------------|------------|------------|---------|------------|------------|
| 12 Months Ending                    | 12/31/2021 | 03/31/2022 | 06/30/2022 | 09/30/2022 |          | 03/31/2023 | 06/30/2023 | 09/30/2023 | 12/31/2023 |         | 06/30/2024 | 09/30/2024 |
| Cash from Operating Activities      |            |            |            |            |          |            |            |            |            |         |            |            |
| + Net Income                        | 725.7      | 700.1      | 541.4      | 557.3      | 540.2    | 616.9      | 669.0      | 676.7      | 792.6      | 795.5   | 812.0      | 834.7      |
| + Depreciation & Amortization       | 32.0       | 31.8       | 33.0       | 34.6       | 39.2     | 44.5       | 48.3       | 53.3       | 54.3       | 57.3    | 62.2       | 65.7       |
| + Non-Cash Items                    |            | -187.0     | -21.5      | -15.3      | 52.1     | 43.2       | 44.5       | 45.4       | -358.1     | -323.1  | -317.2     | -319.3     |
| + Stock-Based Compensation          |            | 38.3       | 36.3       | 33.6       | 31.3     | 30.5       | 29.6       | 29.3       | 29.1       | 29.2    | 31.0       | 29.9       |
| + Other Non-Cash Adj                |            | -225.4     | -57.9      | -49.0      | 20.8     | 12.8       | 14.9       | 16.1       | -387.1     | -352.3  | -348.1     | -349.2     |
| + Chg in Non-Cash Work Cap          | 8.2        | -76.6      | -143.3     | -117.9     | -28.3    | -22.8      | 87.2       | 161.8      | 441.6      | 363.2   | 416.5      | 439.1      |
| + (Inc) Dec in Accts Receiv         | -35.1      | -84.5      | -133.6     | -120.9     | -56.8    | -48.2      | 10.6       | 10.2       | -13.3      | -71.1   | -18.6      | 28.1       |
| + (Inc) Dec in Inventories          | -43.1      | -47.4      | -128.4     | -141.6     | -91.6    | -68.7      | 64.7       | 126.0      | 86.3       | 83.3    | 56.6       | 26.4       |
| + Inc (Dec) in Accts Payable        |            | 35.0       | 44.4       | 55.5       | 41.7     | 3.4        | -15.6      | -14.8      | 37.2       | 6.5     | -9.7       | 9.3        |
| + Inc (Dec) in Other                |            | 20.3       | 74.2       | 89.1       | 78.4     | 90.8       | 27.5       | 40.4       | 331.4      | 344.6   | 388.1      | 375.4      |
| + Net Cash From Disc Ops            |            | 0.0        | 0.0        | 0.0        | 0.0      | 0.0        | 0.0        | 0.0        | 0.0        | 0.0     | 0.0        | 0.0        |
| Cash from Operating Activities      | 567.2      | 468.3      | 409.5      | 458.7      | 603.1    | 681.8      | 849.0      | 937.2      | 930.4      | 892.9   | 973.5      | 1,020.3    |
| Cash from Investing Activities      |            |            |            |            |          |            |            |            |            |         |            |            |
| + Change in Fixed & Intang          |            | -87.7      | -91.3      | -109.7     | -104.2   | -92.0      | -99.1      | -101.0     | -115.6     | -103.8  | -96.8      | -80.1      |
| + Disp in Fixed & Intang            |            | 0.0        | 0.0        | 0.0        | 0.0      | 0.0        | 0.0        | 0.0        | 0.0        | 0.0     | 0.0        | 0.0        |
| + Disp of Fixed Prod Assets         |            | 0.0        |            |            |          |            |            |            | 0.0        | 0.0     | 0.0        | 0.0        |
| + Disp of Intangible Assets         |            | 0.0        |            |            |          |            |            |            | 0.0        | 0.0     | 0.0        | 0.0        |
| + Acq of Fixed & Intang             |            | -87.7      | -91.3      | -109.7     | -104.2   | -92.0      | -99.1      | -101.0     | -115.6     | -103.8  | -96.8      | -80.1      |
| + Acq of Fixed Prod Assets          |            | -87.7      | -91.3      | -109.7     | -104.2   | -92.0      | -99.1      | -101.0     | -115.6     | -103.8  | -96.8      | -80.1      |
| + Acq of Intangible Assets          |            | 0.0        | 0.0        | 0.0        | 0.0      | 0.0        | 0.0        | 0.0        | 0.0        | 0.0     | 0.0        | 0.0        |
| + Net Change in LT Investment       |            | 0.0        | 0.0        | 0.0        | 0.0      | 0.0        | 0.0        | 0.0        | 0.0        | 0.0     | 0.0        | 0.0        |
| + Dec in LT Investment              | 0.0        | 0.0        | 0.0        | 0.0        | 0.0      | 0.0        | 0.0        | 0.0        | 0.0        | 0.0     | 0.0        | 0.0        |
| + Inc in LT Investment              | 0.0        | 0.0        | 0.0        | 0.0        | 0.0      | 0.0        | 0.0        | 0.0        | 0.0        | 0.0     | 0.0        | 0.0        |
| + Net Cash From Acq & Div           |            | -2,031.8   | -2,040.3   | -2,046.9   | -2,046.9 | -15.1      | -6.6       | 0.0        | 0.0        | 0.0     | 0.0        | 0.0        |
| + Cash from Divestitures            |            | 0.0        | 0.0        | 0.0        | 0.0      | 0.0        | 0.0        | 0.0        | 0.0        | 0.0     | 0.0        | 0.0        |
| + Cash for Acq of Subs              |            | -2,031.8   | -2,040.3   | -2,046.9   | -2,046.9 | -15.1      | -6.6       | 0.0        | 0.0        | 0.0     | 0.0        | 0.0        |
| + Cash for JVs                      |            | 0.0        | 0.0        | 0.0        | 0.0      | 0.0        | 0.0        | 0.0        | 0.0        | 0.0     | 0.0        | 0.0        |
| + Other Investing Activities        |            | 0.1        | 0.0        | 0.0        | 0.0      | -0.1       | 0.0        | -0.1       | 0.0        | 0.0     | 0.0        | 0.0        |
| + Net Cash From Disc Ops            |            | 0.0        | 0.0        | 0.0        | 0.0      | 0.0        | 0.0        | 0.0        | 0.0        | 0.0     | 0.0        | 0.0        |
| Cash from Investing Activities      | -55.9      | -2,119.4   | -2,131.6   | -2,156.6   | -2,151.1 | -107.2     | -105.7     | -101.1     | -115.7     | -103.8  | -96.8      | -80.1      |
| Cash from Financing Activities      |            |            |            |            |          |            |            |            |            |         |            |            |
| + Dividends Paid                    | 0.0        | 0.0        | 0.0        | 0.0        | 0.0      | 0.0        | 0.0        | 0.0        | 0.0        | 0.0     | 0.0        | 0.0        |
| + Cash From (Repayment) Debt        |            | 2,590.2    | 2,435.7    | 1,975.4    | 1,594.6  | -601.9     | -750.1     | -684.8     | -665.8     | -562.7  | -505.0     | -525.0     |
| + Cash From (Repay) ST Debt         |            | 0.0        | 0.0        |            |          |            |            |            | 0.0        | 0.0     | 0.0        | 0.0        |
| + Cash From LT Debt                 |            | 2,940.2    | 2,810.7    | 2,460.7    |          |            |            |            | 257.9      | 121.4   | 121.4      | 121.4      |
| + Repayments of LT Debt             |            | -350.0     | -375.0     | -485.3     |          |            |            |            | -923.7     | -684.1  | -626.4     | -646.4     |
| + Cash (Repurchase) of Equity       |            | -965.9     | -665.3     | -512.8     | -11.5    | -15.6      | -16.4      | -167.1     | -192.1     | -187.6  | -361.4     | -359.5     |
| + Increase in Capital Stock         | 0.0        | 0.0        | 0.0        | 0.0        | 0.0      | 0.0        | 0.0        | 0.0        | 0.0        | 0.0     | 0.0        | 0.0        |
| + Decrease in Capital Stock         | -1,020.1   | -965.9     | -665.3     | -512.8     | -11.5    | -15.6      | -16.4      | -167.1     | -192.1     | -187.6  | -361.4     | -359.5     |
| + Other Financing Activities        |            | -56.6      | -57.1      | -51.6      | -53.5    | -4.6       | -2.8       | -3.9       | -1.7       | -2.2    | -2.1       | -1.0       |
| + Net Cash From Disc Ops            |            | 0.0        | 0.0        | 0.0        | 0.0      | 0.0        | 0.0        | 0.0        | 0.0        | 0.0     | 0.0        | 0.0        |
| Cash from Financing Activities      |            | 1,567.6    | 1,713.3    | 1,411.0    | 1,529.7  | -622.1     | -769.3     | -855.8     | -859.6     | -752.5  | -868.5     | -885.5     |
| Effect of Foreign Exchange Rates    |            | -2.3       | -3.8       | -8.9       | -3.8     | 1.1        | 5.0        | 4.8        | 3.1        | -2.5    | -6.7       | 3.8        |
| Net Changes in Cash                 | 77.7       | -85.9      | -12.6      | -295.8     | -22.0    | -46.4      | -21.0      | -14.9      | -41.8      | 34.1    | 1.4        | 58.5       |

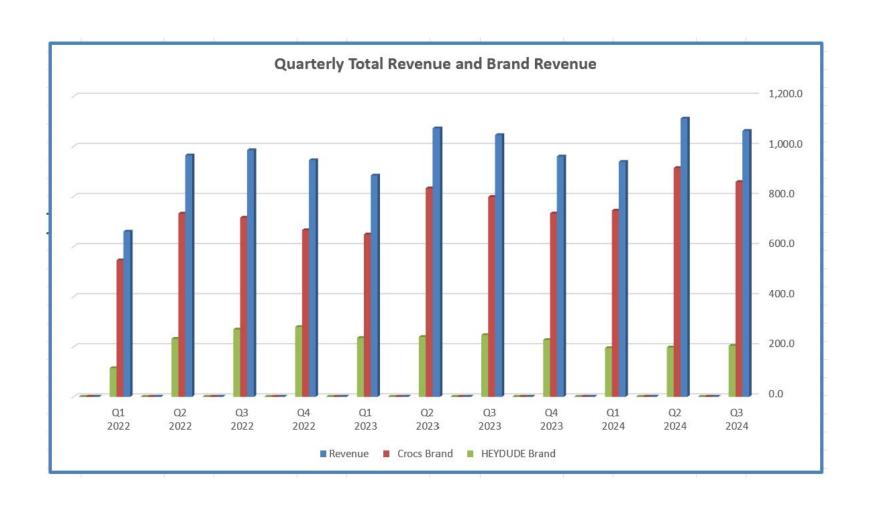


# **Income Statement**

| Millions of USD except Per Share                          | 2020 Y     | 2021 Y     | 2022 Y     | 2023 Y     | Last 12M   |
|---|------------|------------|------------|------------|------------|
| Months Ending   | 12/31/2020 | 12/31/2021 | 12/31/2022 | 12/31/2023 | 09/30/2024 |
| Revenue   | 1,386.0    | 2,313.4    | 3,555.0    | 3,962.3    | 4,072.4    |
| + Sales & Services Revenue                                | 1,386.0    | 2,313.4    | 3,555.0    | 3,962.3    | 4,072.4    |
| - Cost of Revenue   | 631.7      | 887.4      | 1,683.6    | 1,725.0    | 1,701.2    |
| + Cost of Goods & Services                                | 627.8      | 881.1      | 1,673.6    | 1,706.2    | 1,701.2    |
| + Depreciation & Amortization                             | 3.9        | 6.2        | 10.0       | 18.8       |            |
| Gross Profit + Other Operating Income                     | 754.3      | 1,426.1    | 1,871.3    | 2,237.3    | 2,371      |
| + Other Operating Income                                  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| - Operating Expenses                                      | 508.6      | 737.2      | 945.4      | 1,163.5    | 1,307.     |
| + Selling, General & Admin                                | 501.0      | 728.4      | 937.7      | 1,151.1    | 1,311.     |
| + Research & Development                                  | 0.0        | 0.0        | 0.0        | 0.0        |            |
| + Depreciation & Amortization                             | 7.9        | 8.7        | 9.6        | 12.9       |            |
| + Other Operating Expense                                 | -0.3       | 0.0        | -1.9       | -0.4       | -3.7       |
| Operating Income (Loss)                                   | 245.6      | 688.9      | 926.0      | 1,073.8    | 1,063.     |
| - Non-Operating (Income) Loss                             | 7.1        | 19.2       | 132.2      | 160.5      | 122        |
| + Interest Expense, Net                                   | 6.5        | 20.9       | 135.1      | 158.9      | 118        |
| + Interest Expense - Interest Income                      | 6.7        | 21.6       | 136.2      | 161.4      | 122.       |
| - Interest Income<br>+ Foreign Exch (Gain) Loss           | 0.2        | 0.8        | 1.0        | 2.4        | 4.         |
| + Foreign Exch (Gain) Loss                                | 1.1        | 0.1        | -3.2       | 1.2        | 3.         |
| + (Income) Loss from Affiliates                           | -          | -          | -          | -          |            |
| + Other Non-Op (Income) Loss                              | -0.5       | -1.8       | 0.3        | 0.3        | 0.         |
| Pretax Income (Loss), Adjusted                            | 238.5      | 669.7      | 793.7      | 913.3      | 941.       |
| - Abnormal Losses (Gains)                                 | 31.5       | 5.8        | 75.2       | 37.0       | 32.        |
| - Abnormal Losses (Gains)<br>+ Merger/Acquisition Expense | -          | -          | 62.2       | -          |            |
| + Disposal of Assets                                      | 0.3        | -          | -          | 0.4        |            |
| + Asset Write-Down  | 21.1       | -          | -          | 9.3        |            |
| + Legal Settlement  | -          | _          | -          | -          |            |
| + Restructuring   | 6.6        | 5.8        | 11.1       | 27.3       |            |
| + Other Abnormal Items                                    | 3.5        | _          | 1.9        | -          |            |
| Pretax Income (Loss), GAAP                                | 207.0      | 663.8      | 718.5      | 876.3      | 909.       |
| - Income Tax Expense (Benefit)                            | -105.9     | -61.8      | 178.3      | 83.7       | 74.        |
| - Income Tax Expense (Benefit)<br>+ Current Income Tax    | 219.2      | 179.4      | 183.1      | 494.0      |            |
| + Deferred Income Tax                                     | -325.1     | -241.3     | -4.8       | -410.3     |            |
| + Deferred Income Tax<br>+ Tax Allowance/Credit           |            |            | -          |            |            |
| Income (Loss) from Cont Ops                               | 312.9      | 725.7      | 540.2      | 792.6      | 834.       |
| - Net Extraordinary Losses (Gains)                        | 0.0        | 0.0        | 0.0        | 0.0        | 0.         |
| + Discontinued Operations                                 | 0.0        | 0.0        | 0.0        | 0.0        | 0.         |
| + XO & Accounting Changes                                 | 0.0        | 0.0        | 0.0        | 0.0        | 0.         |
| Income (Loss) Incl. MI                                    | 312.9      | 725.7      | 540.2      | 792.6      | 834.       |
| Income (Loss) Incl. MI - Minority Interest                | 0.0        | 0.0        | 0.0        | 0.0        | 0.         |
| Net Income, GAAP  | 312.9      | 725.7      | 540.2      | 792.6      | 834.       |
| - Preferred Dividends                                     | 0.0        | 0.0        | 0.0        | 0.0        | 0.         |
| - Other Adjustments                                       | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| Net Income Avail to Common, GAAP                          | 312.9      | 725.7      | 540.2      | 792.6      | 834.7      |
| Not Income Avait to common, daap                          | 312.9      | 123.1      | 370.2      | 792.0      | 054.       |

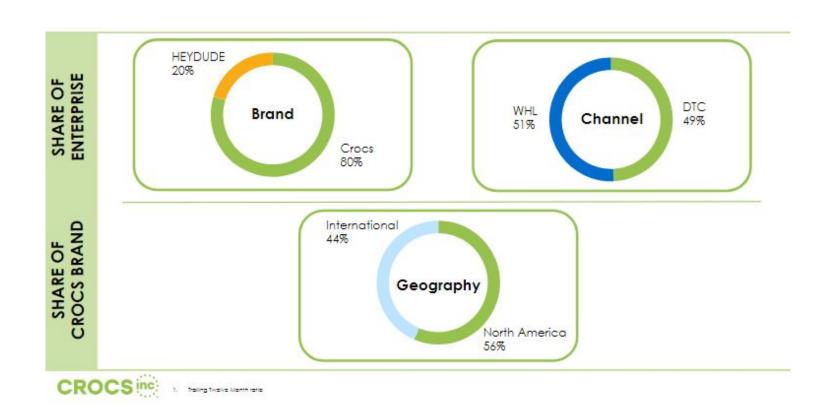


# Market Concerned About Sustainable Growth after Q3 Revenue Miss and Lower Guidance





# Rev Breakdown







| Τn   | Millions of USD except Per Share    | 2022 03    | 2022 04    | 2023 Q1    | 2023 Q2    | 2023 Q3    | 2023 04    | 2024 Q1    | 2024 02    | 2024 03    | Current     |
|------|-------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| E 48 | onths Ending                        | 09/30/2022 | 12/31/2022 | 03/31/2023 | 06/30/2023 | 09/30/2023 | 12/31/2023 | 03/31/2024 | 06/30/2024 | 09/30/2024 | 11/07/2024  |
| Lil  |                                     | 4,236.3    | 6,690.1    | 7,839.3    | 6,982.5    | 5,364.4    | 5,651.3    | 8,728.7    | 8,698.0    | 8,471.4    | 5,997.2     |
| atl  | - Cash & Equivalents                | 143.0      | 191.6      | 125.7      | 166.2      | 127.3      | 149.3      | 159.3      | 167.7      | 186.1      | 186.1       |
| all  | + Preferred Equity                  | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0         |
| atl  | + Minority Interest                 | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0         |
| all  | + Total Debt                        | 2,896.3    | 2,595.0    | 2,550.6    | 2,289.2    | 2,286.7    | 1,996.4    | 2,057.7    | 1.870.6    | 1,774.0    | 1,774.0     |
| uti  |                                     | 6,989.6    | 9.093.5    | 10,264.2   | 9,105.5    | 7,523.8    | 7,498.4    | 10,627.1   | 10,400.9   | 10,059.3   | 7,585.1     |
|      |                                     |            |            |            |            |            |            |            |            | ,          | .,          |
| all  | Total Capital                       | 3,527.1    | 3,412.9    | 3,519.1    | 3,478.9    | 3,486.9    | 3,450.3    | 3,654.8    | 3,523.8    | 3,499.1    | 3,499.1     |
| ell  | Total Debt/Total Capital            | 82.12      | 76.03      | 72.48      | 65.80      | 65.58      | 57.86      | 56.30      | 53.08      | 50.70      | 50.70       |
| all  | Total Debt/EV                       | 0.41       | 0.29       | 0.25       | 0.25       | 0.30       | 0.27       | 0.19       | 0.18       | 0.18       | 0.23        |
|      |                                     |            |            |            |            |            |            |            |            |            |             |
| vil  | EV/Sales                            | 2.19       | 2.56       | 2.72       | 2.34       | 1.91       | 1.89       | 2.65       | 2.56       | 2.47       | 1.86        |
| ati  | EV/EBITDA                           | 8.01       | 9.66       | 9.62       | 7.97       | 6.40       | 6.53       | 9.29       | 8.98       | 8.68       | 6.54        |
| atl  | EV/EBIT                             | 8.84       | 10.69      | 10.61      | 8.78       | 7.18       | 7.23       | 10.33      | 10.04      | 9.75       | 7.35        |
| +18  | EV/Cash Flow to Firm                | 11.74      | 11.83      | 11.81      | 8.69       | 6.58       | 6.51       | 9.60       | 8.82       | 8.25       | 6.22        |
| ati  | EV/Free Cash Flow to Firm           | 14.40      | 13.69      | 13.21      | 9.60       | 7.22       | 7.24       | 10.60      | 9.61       | 8.83       | 6.66        |
|      |                                     |            |            |            |            |            |            |            |            |            | (100 miles) |
| all  | Diluted Market Cap                  | 4,282.1    | 6,777.0    | 7,918.8    | 7,039.1    | 5,436.3    | 5,695.9    | 8,779.6    | 8,868.2    | 8,616.3    | 6,122.7     |
| att  | Diluted Enterprise Value            | 7,035.9    | 9,175.2    | 10,364.8   | 9,169.2    | 7,565.2    | 7,538.9    | 10,697.7   | 10,465.2   | 10,124.5   | 7,653.9     |
| ati  | EV per Share                        | 113.28     | 147.38     | 165.55     | 146.63     | 123.75     | 123.94     | 175.08     | 174.51     | 171.95     | 171.95      |
|      |                                     |            |            |            |            |            |            |            |            |            |             |
|      | Reference Items                     |            |            |            |            |            |            |            |            |            |             |
|      | Trailing 12 Month Values for Ratios |            |            |            |            |            |            |            |            |            |             |
|      | IFRS 16/ASC 842 Adoption            | Yes         |
| att  | Sales                               | 3,196.4    | 3,555.0    | 3,779.0    | 3,886.8    | 3,947.4    | 3,962.3    | 4,016.8    | 4,055.9    | 4,072.4    | 4,072.4     |
| :11  | EBITDA                              | 872.8      | 941.3      | 1,066.8    | 1,142.9    | 1,175.5    | 1,148.0    | 1,144.5    | 1,158.7    | 1,159.4    | 1,159.4     |
| all  |                                     | 790.7      | 850.8      | 967.0      | 1,037.5    | 1,047.3    | 1,036.8    | 1,028.3    | 1,035.5    | 1,031.5    | 1,031.5     |
| :11  |                                     | 534.9      | 705.5      | 803.2      | 978.8      | 1,071.8    | 1,076.4    | 1,028.1    | 1,095.9    | 1,132.6    | 1,132.6     |
| all  | Free Cash Flow To Firm              | 425.2      | 601.3      | 711.2      | 879.8      | 970.9      | 960.8      | 924.3      | 999.2      | 1,052.5    | 1,052.5     |



# Margins

| In Millions of USD except Per Share | 2018 Y     | 2019 Y~    | 2020 Y     | 2021 Y     | 2022 Y     | 2023 Y     | Last 12M   |
|-------------------------------------|------------|------------|------------|------------|------------|------------|------------|
| 12 Months Ending                    | 12/31/2018 | 12/31/2019 | 12/31/2020 | 12/31/2021 | 12/31/2022 | 12/31/2023 | 09/30/2024 |
| ■ EBITDA                            | 120.5      | 226.6      | 334.8      | 779.2      | 1,031.2    | 1,207.7    | 1,191.4    |
| EBITDA Margin (T12M)                | 11.07      | 18.41      | 24.16      | 33.68      | 29.01      | 30.48      | 29.26      |
| EBITA                               | 107.9      | 217.7      | 323.0      | 764.2      | 1,011.6    | 1,176.0    | 779.6      |
| EBIT EBIT                           | 91.2       | 142.2      | 245.6      | 688.9      | 926.0      | 1,073.8    | 1,063.5    |
| Gross Margin                        | 51.48      | 50.14      | 54.42      | 61.64      | 52.64      | 56.47      | 58.23      |
| Operating Margin                    | 8.38       | 11.56      | 17.72      | 29.78      | 26.05      | 27.10      | 26.12      |
| Profit Margin                       | 6.69       | 12.29      | 18.22      | 31.56      | 17.62      | 17.55      | 19.27      |
| Sales per Employee                  | 278,955.40 | 323,584.80 | 301,293.70 | 400,938.65 | 532,183.38 | 563,634.00 |            |
| Dividends per Share                 | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       | 0.00       |
| Total Cash Common Dividends         | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        | 0.0        |
| Capitalized Interest Expense        | -          | -          | -          | -          | -          | _          |            |
| Depreciation Expense                | 12.6       | 8.9        | 11.8       | 14.9       | 19.6       | 31.7       | 48.1       |
| Rental Expense                      | 80.3       | 80.8       | 82.2       | 98.4       | 113.1      | 137.5      | 115.9      |



# Reverse DCF Workings and Assumption

|   | FY '23 A | Q1 '24 A         | Q2 '24 A | Q3 '24 A | Q4 '24 E | FY '24 E | FY '25 E | FY '26 E | FY '27 E | FY '28 E |
|---|----------|------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| INCOME STATEMENT                          | 12/31/23 | 3/31/24          | 6/30/24  | 9/30/24  | 12/31/24 | 12/31/24 | 12/31/25 | 12/31/26 | 12/31/27 | 12/31/28 |
| Revenue                                   | 3,962    | 939              | 1,112    | 1,062    | 963      | 4,075    | 4,080    | 4,108    | 4,186    | 4,255    |
| Revenue Growth (YoY)                      | 11.5%    | 6.2%             | 3.6%     | 1.6%     | 0.3%     | 2.9%     | 0.1%     | 0.7%     | 1.9%     | 1.6%     |
| Cost of Revenue                           | (1,725)  | (413)            | (430)    | (429)    | (420)    | (1,692)  | (1,684)  | (1,691)  | (1,744)  | (1,772)  |
| Gross Profit                              | 2,237    | 525              | 682      | 633      | 543      | 2,384    | 2,396    | 2,417    | 2,442    | 2,483    |
| Gross margin                              | 56.5%    | 56.0%            | 61.4%    | 59.6%    | 56.4%    | 58.5%    | 58.7%    | 58.8%    | 58.3%    | 58.4%    |
| Other Operating Income                    | -        | 8.53             | 2.73     | -        | 2.0      | -        |          |          |          |          |
| Operating Expenses                        | (1,164)  | (271)            | (356)    | (364)    | (353)    | (1,343)  | (1,445)  | (1,501)  | (1,594)  | (1,673)  |
| Other Operating Expenses                  | 0.4      | 9 <del>-</del> 9 | -        | -        | 7.0      | -        | -        | 0.70     |          | -        |
| Operating Income                          | 1,074    | 255              | 326      | 270      | 190      | 1,040    | 951      | 916      | 848      | 810      |
| Operating Margin                          | 27.1%    | 27.1%            | 29.3%    | 25.4%    | 19.7%    | 25.5%    | 23.3%    | 22.3%    | 20.3%    | 19.0%    |
| Non-Operating Income (Loss)               | (161)    | (32)             | (29)     | (25)     | (31)     | (118)    | (126)    | (124)    | (122)    | (121)    |
| Interest Expense, Net                     | (159)    | (30)             | (28)     | (25)     | (31)     | (114)    | (126)    | (125)    | (123)    | (122)    |
| Foreign Exch Gain (Loss)                  | (1)      | (2)              | (1)      | (0)      |          | (4)      |          |          |          |          |
| Income (Loss) from Affiliates (Pre Tax)   | -        | 8.53             | 273      | -        |          | 0.50     | (5.7)    | (27)     | (5       | -        |
| Other Non-Op Income (Loss)                | (0)      | 0                | 0        | 0        | (0)      | 0        | 1        | 1        | 1        | 1        |
| Pretax Income                             | 913      | 222              | 296      | 245      | 159      | 923      | 825      | 791      | 726      | 689      |
| Income Taxes                              | (218)    | (38)             | (53)     | (31)     | (32)     | (154)    | (165)    | (158)    | (145)    | (138)    |
| Income (Loss) from Affiliates (After Tax) | -        | 8.73             | 2.5      | -        | -        | (3.5)    |          | (        | -        | -        |
| Income (Loss) from Cont Ops               | 793      | 152              | 229      | 200      | 127      | 769      | 660      | 633      | 581      | 551      |
| Net Extraordinary Items                   | -        | 2.73             |          | -        | 7.0      |          |          |          |          |          |
| Minority Interest                         | -        | 3-3              | 323      | -        | -        | 100      | 100      | 100      | 14       | =        |
| Net Income                                | 695      | 184              | 244      | 214      | 127      | 769      | 660      | 633      | 581      | 551      |

| Free Cash Flow to Firm:            |              | Value  | Per Share |  |
|------------------------------------|--------------|--------|-----------|--|
| Present Value of FCFF:             |              | 2,886  | 49.5      |  |
| Terminal Value:                    |              |        |           |  |
| <ul><li>Perpetual Growth</li></ul> |              | 4,860  | 83.4      |  |
| O EV/Sales                         | 2.56         | 7,735  | 132.7     |  |
| O EV/EBITDA                        | 6.68         | 4,345  | 74.6      |  |
| O EV/EBIT                          | 10.98        | 6,319  | 108.4     |  |
| O EV/FCF                           | 30.00        | 11,372 | 195.1     |  |
| Firm Intrinsic Value               | 31 200 200 2 | 7,746  | 132.9     |  |
| - Net Debt                         |              | 1,847  | 31.7      |  |
| - Preferred                        |              | 0      | 0.0       |  |
| - Minority Interst                 |              | 0      | 0.0       |  |
| Value of Equity                    |              | 5,899  | 101.2     |  |



### Debt Payment and Share Buyback Information

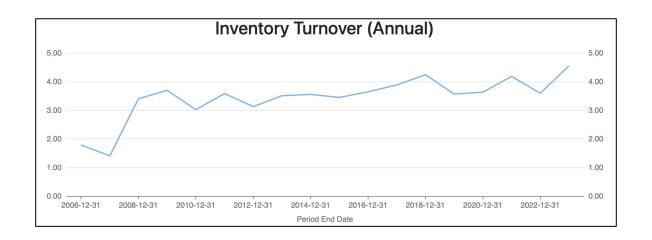
|                      | 2023      | 2022      |
|----------------------|-----------|-----------|
| Long-term borrowings | 1,640,996 | 2,298,027 |

- ✓ Q3 2024: During the quarter, we repaid approximately \$110 million of debt, reducing borrowings to approximately \$1.4 billion. Year to date, we have repaid \$248 million of debt, and we ended the quarter at the lower end of our long-term net leverage target range of 1 to 1.5 times. Year to date, we have completed \$326 million of share buybacks, repurchasing 2.3 million shares. We currently have \$549 million remaining on our share repurchase authorization.
- ✓ Q2 2024: During the quarter, we repaid approximately \$200 million of debt, reducing borrowings to approximately \$1.5 billion. We ended the quarter within our long-term net leverage target range of 1 to 1.5x. We completed \$175 million of share buybacks during the quarter repurchasing 1.2 million shares at an average price of \$149.53 per share
- Q1 2024: Q1 is a high net working capital quarter, and we typically limit buyback and debt paydown activity, as a result.
- ✓ Q4 2023: Our strong cash flow generation allowed us to repay \$666 million of debt. Since acquiring HEYDUDE in February 2022, we have repaid \$1.2 billion in debt and resumed our share repurchase activity in the second half of 2023.
- ✓ Q3 2023: Our continued strong free cash flow generation enabled us to repay approximately \$90 million of debt in Q3, reducing borrowings to approximately \$2 billion. At the end of Q3, our gross leverage was approximately 1.7 times as we ended the third quarter with \$127 million of cash and cash equivalents.
- Q2 2023: Our continued strong free cash flow generation enabled us to repay approximately \$300 million of debt in the first half, reducing borrowings to \$2 billion.
- ✓ Q1 2023: We repaid \$41 million of debt in the quarter, reducing borrowings to \$2.28 billion. At the end of Q1, adjusted gross leverage was approximately 2.1 times, and net leverage was approximately 2 times. We are confident our ability to achieve gross leverage under 2 times by the middle of this year.



# Crocs Store Analysis and Inventory Information

- ✓ Typically, a Crocs store employs a team that includes a store manager, assistant managers, and several sales associates. Smaller stores may operate with a staff of 5 to 10 employees, while larger or high-traffic locations might have 15 or more team members to adequately serve customers and manage operations.
- ✓ As of December 31, 2023, Crocs had a total of 349 stores in operation around the world.
- ✓ Current operating lease liabilities: \$62M in 2023
- ✓ Long term operating lease liabilities: \$269M in 2023
- Crocs, Inc. (CROX) had Inventory Turnover of 4.55 for the most recently reported fiscal year, ending 2023-12-31.
  - Sketchers inventory turnover ratio was 2.82 in 2023
  - Berkenstocks inventory turnover ratio was 1.15 in 2023

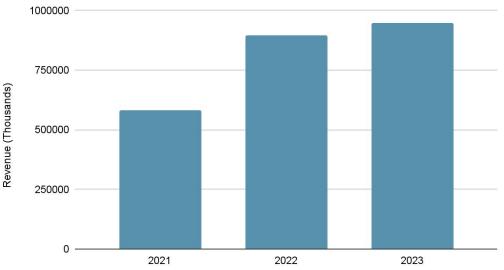




# **HEYDUDE** Acquisition

- ✓ The shoe maker bought Italian DTC brand Heydude at the end of 2021 for \$2.05 billion in cash and \$450 million in Crocs shares.
- Crocs acquired HEYDUDE to expand its addressable market and become a more prominent player in the global casual footwear market.

# HEYDUDE Revenue





# Revenues by Channel

| Revenues by Channel             |                 |       |           |                            |   |
|---------------------------------|-----------------|-------|-----------|----------------------------|---|
|                                 | Year Ended      | Dece  | mber 31,  | % Change<br>Favorable (Uni | Constant<br>Currency %<br>Change <sup>(1)</sup><br>favorable) |
|                                 | 2023 2022       |       |           | 2023-2022                  | 2023-2022   |
|                                 | <br>            | 2012. | (in thou  | ısands)                    |   |
| Crocs Brand:                    |                 |       |           |                            |   |
| Wholesale                       | \$<br>1,493,537 | \$    | 1,377,302 | 8.4 %                      | 9.3 %   |
| Direct-to-consumer              | 1,519,417       |       | 1,281,823 | 18.5 %                     | 19.0 %  |
| Total Crocs Brand               | 3,012,954       |       | 2,659,125 | 13.3 %                     | 14.0 %  |
| HEYDUDE Brand (2):              |                 |       |           |                            |   |
| Wholesale                       | 566,937         |       | 574,140   | (1.3)%                     | (1.3)%  |
| Direct-to-consumer              | <br>382,456     |       | 321,720   | 18.9 %                     | 18.9 %  |
| Total HEYDUDE Brand             | 949,393         |       | 895,860   | 6.0 %                      | 6.0 %   |
| Total consolidated revenues (2) | \$<br>3,962,347 | \$    | 3,554,985 | 11.5 %                     | 12.0 %  |



# **Crocs Supply Chain**

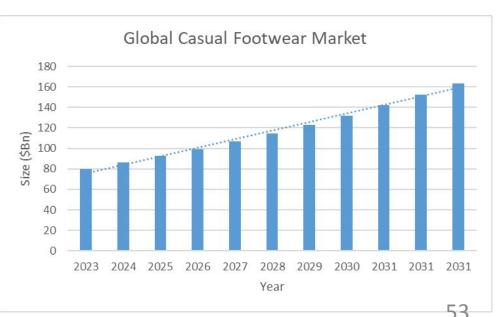
- Chief Executive Andrew Rees explained on an earnings call a key advantage is the fact that the retailer's clog shoes are easy to make and so the company faces fewer hurdles in shifting production around when needed.
- "Our shoes are really simple, and so [swapping] factories can be very, very quick," Rees
  explained. "The classic clog has three components, two of which are made on site, so you
  don't have a lot of external logistics to be able to get started. We think we're competent in
  terms of rapid manufacturing."
- Crocs are mainly manufactured in Vietnam



# Global Casual Shoe Market Expected to grow at 7%

- ✓ The global footwear market expected to grow at a CAGR of 4.3% from 2024 2030
- Casual shoe market valued at \$80.1b (2023); expected to grow at a CAGR of 7.4% \$163.1b (2033) [source: Verified Market Reports]
- Growing trend towards casualization in footwear, accelerated by the pandemic; expected to continue influencing design & consumer preferences
- ✓ Non-athletic footwear accounted for 67% of market share in 2023; growing at a CAGR of of ~6.4% a year
- ✓ Women's footwear segment held 48% market share in 2023



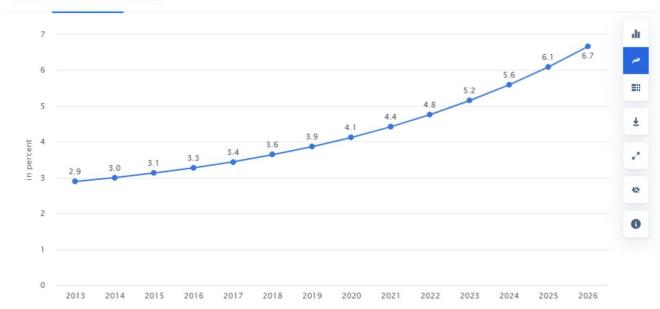




# Sustainability

The company has introduced bio-based Croslite material, for a 50% reduction in its carbon footprint per pair of Crocs shoes aiming by 2030.

#### SUSTAINABLE FOOTWEAR SHARE



Most recent update: Mar 2024

Sources: Statista Market Insights , Annual reports of key players , Desk research , Statista Consumer Insights Global



December 5<sup>th</sup>, 2024

**Team Number: 9** 

Students: Tom Alappat, Nate Ingram, Kyesha Robertson





# **Executive Summary**

#### **Company Overview**

TransMedics Group is a medical technology company focused on expanding the supply of viable transplant organs through its Organ Care System (OCS) technology and dedicated logistics network, enabling more life-saving transplants

#### **Key Highlights and Offerings:**

- OCS Machines: FDA-approved warm perfusion devices that simulate human body conditions, preserving donor hearts, livers, and lungs for twice as long as traditional cold storage
- Logistics Network: In-house, white-glove organ procurement and delivery service, staffed with TransMedics' pilots, surgeons, and aircraft

#### **Investment Rationale**

- Only FDA approved multi-organ (heart, liver, lung) portable perfusion machine on the market
- Increases the supply of available transplants by enabling organs to be donated after circulatory death
- Organ procurement service eliminates logistics burden on transplant centers to source organs and reduces patient's time on transplant waitlist
- Outcomes of transplants which utilized perfusion storage demonstrate reduced post operation complications
- Perfusion machines allow surgeons to run diagnostics to increase confidence in organ performance before transplant

| Recommendation     |                    |  |  |  |  |
|--------------------|--------------------|--|--|--|--|
| Company Name       | TransMedics Group  |  |  |  |  |
| Ticker             | TMDX               |  |  |  |  |
| Recommendation     | BUY                |  |  |  |  |
| Target price       | \$181.91           |  |  |  |  |
| Price (11/22/2024) | \$76.04            |  |  |  |  |
| 52-Week Range      | \$40.01 - \$177.37 |  |  |  |  |
| Market Cap         | \$2,552 mm         |  |  |  |  |
| Enterprise Value   | \$3,060 mm         |  |  |  |  |

#### **Key Statistics**

#### >130%

Growth in transplant volumes

#### 18

Jets in TransMedics'
Procurement Fleet

#### ~109%

Growth in LTM annualized revenues

#### >50%

Reduction in primary graft dysfunction

#### ~50%

Reduction in night-time transplants



Leadership skillset is mostly in product development and medical expertise. The



# **Company Leadership**

firm could benefit from bringing in additional management with experience Name & Designation **Experience** scaling biotech companies from growth stage through enterprise stage Founded TMDX in 1998 to revolutionize organ transplant therapy leading to the development of TMDX's revolutionary portable organ preservation and transplantation technology Waleed Hassanein, M.D. Named 50 Global Thinkers in Healthcare by Foreign Policy Magazine in 2015 Founder, President & CEO Holds MD from Georgetown University School of Medicine Over 20 years of experience in high technology and medical device companies Joined TMDX in March 2015 and presently leads the finance and accounting teams Stephen Gordon Prior to joining TMDX, held various leadership positions in Analogic Corp, Hologic, Cytyc, Maxtor and HP Holds BA in Finance and Accounting from Wharton and an MBA from Boston University Joined TMDX in 2001 and over 18 years assumed growing responsibilities (including Chief Medical Officer) to the current role of Chief Commercial Officer in Jan 2018 Tamer Khayal, M.D. As CMO, he led efforts to build TMDX's clinical evidence, reimbursement initiatives, and a patient-focused Chief Commercial Officer approach to commercial rollout of Organ Care Technology earning recognition worldwide Holds MD from Cairo University School of Medicine and GCE from University of London, England Over 24 years of experience in Medical Device Regulatory Affairs including 13 years at the FDA Internationally recognized expert in Regulatory Affairs including 13 years at the FDA where she gained broad Miriam Provost Ph.D. VP of Global Regulatory Affairs knowledge in FDA policies Holds BA in chemical engineering University of Dayton and Ph.D. from the University of Pennsylvania 15 years of experience bringing Class II and III medical products into markets including organ perfusion and heart **Mark Anderson** assist devices VP, Product Development Joined TMDX in March 2006 Holds electrical engineering degree from Worcester Polytechnic Institute

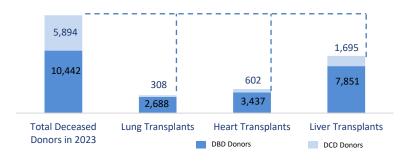




# **Organ Transplants are Supply Constrained**



#### **Massive Underutilization of Donor Organs**

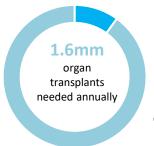


100,000+ Americans are on the waitlist for organ transplants and 17 die per day due to not receiving the transplant they need, according to the Dept. Health and Human Services

# Factors that limit organ supply Donor not identified by healthcare services, brain death cannot be diagnosed (DBD), circulatory death does not occur within the right time frame (DCD), logistical problems (no surgical team available to recover organs) Not medically suitable, unstable donor/sudden cardiac arrest, anatomy or function of organs unsatisfactory, organs damaged during removal and other issues The individual has expressed that they do not wish to donate organs, the family objects to donation

#### **North American Demand**

#### **Demand Factors**



#### 160,000 transplants annually

10% of global demand is met

#### **Demand Drivers**

- Transplantation costs less than organ failure
- Longer Lifespans
- Increased organ dysfunction syndrome





~650K

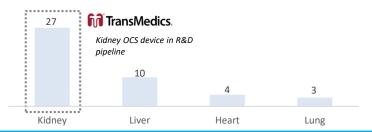
AMERICANS

Heart Failure



AMERICANS Liver Failure

#### Transplants (in'000) in the United States in 2023



OPTN has a mandate to reach **60,000** US transplants by 2026 (**36%** increase from **2023**)

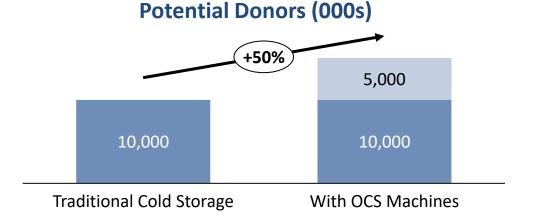
2023 OPTN US National Data



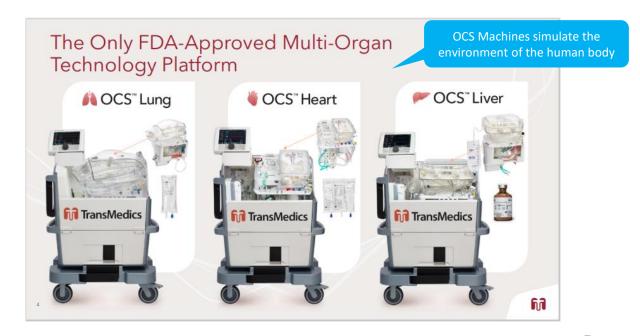


# TransMedics' OCS Solution Increases the Supply of Available Organs to Transplant

- The traditional donor pool includes ~10,000 donors who experience death after brain dead (DBD)
- OCS Machines enable physicians to harvest organs from an additional ~5,000 potential donors who experience death after circulatory death (DCD)
  - DCD donor pool continues to grow as surgeons gain more familiarity with this new class of donors



- ~12 hours with OCS Heart vs
   4-6 hours on ice
- ~24 hours with OCS Liver vs 8-10 hours on ice
- ~12 hours with OCS Lung vs
   4-6 hours on ice







# **Transplant Centers Faced with Logistical Challenges** in Donor Organ Acquisition

# 1. Travel Coordination

Planning flights and ground transport often with 3<sup>rd</sup> party vendors at odd hours Limited availability of transportation options when organ is available

# Staffing and Team Allocation

Surgeon required to travel to and from donor site and then perform transplant procedure On-Call Requirements of transplant team
Fatigue of highly-specialized staff can impact performance and retention

# 3. Coordination with Donor Hospital

Interfacing required between donor and recipient hospitals for timing, protocol alignment, and procedural requirements

# 4. Organ Transport Equipment & Preservation

Access to high-quality preservation equipment Skill required to use new perfusion technology is higher than traditional ice box method

# 5. Financial and Resource Constraints

Highly variable costs associated with emergency flights and personnel overtime Difficult resource allocation decision that strain a smaller transplant center's resources

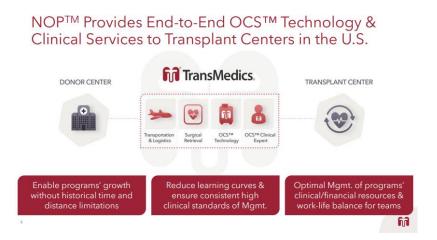




# TransMedics Simplifies Transplant Logistics for Hospitals with NOP Service

TransMedics National OCS Program (NOP) retrieves organs for transplant hospitals utilizing its in-house OCS machines, pilots, surgeons, and aircraft for ~\$20,000 fee

NOP service is staffed with firm owned jets, pilots, and surgeons





"This service is a game-changer. It enables surgeons to accept more transplant procedures because it removes the travel component and limits on-service time for a transplant procedure. This provides a huge improvement in the quality of life for transplant surgeons. And more importantly, it allows for transplants to become a scheduled procedure" — Pediatric Cardiologist

"TransMedics' NOP service has reduced organ procurement to one phone call" – UPMC Transplant Administrator





# **Physicians' Views about TransMedics' Offerings**

OCS Consoles enable diagnostic screening of a heart with the ability to monitor pH and lactic acid levels. If needed, I can take action to correct these levels while the heart is still in OCS Console. If literature comes out that this improves outcomes from 89% to 94%, this technology will become the standard of care for transplants" – Heart Failure and Transplant Surgeon in Virginia

"Extended the preservation time of an organ is only 50% of the solution. The more important half has always been the logistics planning. Combining the two enables transplant centers to both do more transplant volume and avoid middle of the night procedures" – Transplant Infectious Disease Doctor in Indiana

"Right now, we use TransMedics for probably about 50% to 70% of procurements.....successful transplant centers generate a ton of revenue for their institution. So when thinking about ways to increase the volume of transplants that are happening, that is probably near the top of the institutions' financial plan" — Heart Failure and Transplant Surgeon in Georgia

"The biggest challenge with using perfusion machines for organ harvesting is the increase in surgical skill needed to extract an organ. You are no longer just cutting arteries and clipping them. You are now attaching the perfusion machine's connection points to the heart and then detaching them later. It would be prudent to have someone who works with those machines regularly to maximize successful outcomes" — Heart Failure and Transplant Surgeon in West Virginia

We spoke with over 20 physicians involved with transplants to understand the challenges of the transplant environment and the TransMedics Group's value proposition





# **How TransMedics Makes Money**

# **Unit Economics**

1 transplant = 1 disposable set + 1 NOP Service Revenue = ~\$85k Gross Margin = ~\$56k

- OCS Consoles are designed to be a traditional razor blade business model with a machine and disposable "bag" required for each transplant
- TMDX focuses on renting OCS consoles and selling disposable sets, and its NOP logistics service

| ltem           | Price           | Margin     |  |
|----------------|-----------------|------------|--|
| OCS Console    | \$250k - \$300k | 80%        |  |
| Disposable Set | \$65k           | 80% incre  | P Margin expected to ase to ~25% as TMDX's |
| NOP Service    | ~\$20k          | ~19% fleet | gains greater efficiency                   |





# **How Hospitals Get Paid for Transplants**

#### Medicare

- Organ Procurement is separate from transplant procedures for Medicare billing process
- Medicare reimburses organ procurement at a costplus margin rate; this includes all transportation, staffing, and equipment (including OCS)
  - Hospitals make 15% 25% margin on organ procurement no matter the cost
- Organ procurement reimbursement was established in the 1960's through the Social Security Act, making it difficult to modify without Congressional action

#### **Commercial Insurance**

- Commercial insurance pays a case rate for each organ (heart, liver, lung, kidney, etc) that includes transplant procedure and organ procurement in one bill
  - e.g. case rate for heart transplant: ~\$1 million
- Case Rates can scale with the transplant center's cost if outcomes are improved
  - Strong payer interest in TransMedics' driven by cost-savings hospitals and insurance see from reduced post-transplant care

"Unfortunately, TransMedics' customers - administrators and surgeons – often lack understanding of the reimbursement dynamics, which makes them hesitant to adopt the technology. However, once they are educated on how the process works, there has been no hesitation to use the technology due to its cost-effectiveness"—

Former VP of Market Access at TransMedics





# TAM illustrates significant opportunity in international markets

2023 – 2030 Organ Procurement Market Forecast, \$ Millions 2024 Domestic TAM ~\$7B 2024 International TAM ~\$40.5B



International adoption is dependent on organ-sharing agreements between neighboring countries

"International prices are the same as US prices" – TransMedics' Heart OCS Program Manager





# **Comparable Firms**

| Company                          | TEV (mm)  | LTM<br>Revenue<br>(mm) | Gross<br>Margin % | EBITDA<br>Margin % | NTM Rev<br>Mult | NTM EBITDA<br>Mult |
|----------------------------------|-----------|------------------------|-------------------|--------------------|-----------------|--------------------|
| CONMED<br>Corporation            | \$3,216   | \$1,288                | 55.8%             | 16.9%              | 2.3x            | 11.4x              |
| Boston Scientific<br>Corporation | \$141,401 | \$15,911               | 68.7%             | 25.5%              | 7.8x            | 26.8x              |
| AtriCure, Inc.                   | \$1,689   | \$448                  | 74.8%             | -3.6%              | 3.3x            | 50.3x              |
| iRhythm<br>Technologies, Inc.    | \$2,529   | \$560                  | 67.8%             | -16.2%             | 3.9x            | 56.9x              |
| Artivion, Inc.                   | \$1,493   | \$385                  | 64.5%             | 13.7%              | 3.6x            | 18.7x              |
| Intuitive Surgical, Inc.         | \$190,908 | \$7,867                | 67.0%             | 31.8%              | 20.9x           | 50.3x              |
| Medtronic plc                    | \$130,906 | \$32,996               | 65.4%             | 28.0%              | 3.8x            | 12.7x              |
| Average                          | \$67,449  | \$8,494                | 66.3%             | 13.7%              | 6.5x            | 32.4x              |
| Median                           | \$3,216   | \$1,288                | 67.0%             | 16.9%              | 3.8x            | 26.8x              |





# **TMDX DCF Valuation – EBITDA Multiple**

| Discount Rate                          | 12.1%         |
|--|---------------|
| Terminal Value FY2028                  | 9,770.2       |
| Terminal Year EBITDA FY2028            | 325.7         |
| Terminal Multiple                      | 30.0 x        |
|  | Present Value |
| Sum of Present Value of Projected FCFF | 552.7         |
| Present Value of Terminal Value        | 6,117.0       |
| Implied Enterprise Value, mm           | 6,669.7       |
| Less: Debt                             | 508.5         |
| Less: Operating Leases                 | - 1           |
| Less: Preferred Equity                 | -             |
| Less: Unfunded Pension Liabilities     | -             |
| Less: Noncontrolling Interest          | -             |
| Plus: Cash & Cash Equiv.               | 330.1         |
| Plus: Equity Investments               | -             |
| Other Adjustments                      | -             |
| Implied Equity Value, mm               | 6,491.2       |
| Diluted Shares Outstanding             | 35.7          |
| Implied Share Price - USD              | 181.91        |
| FX - USD/USD                           | 1.00          |
| Implied Share Price - USD              | 181.91        |
| Last Price - USD                       | 76.04         |
| Premium to Last Price                  | 139.2%        |

30x EBITDA multiple justified by the proprietary technology TMDX owns that has no FDA-approved competitor and anticipation of 2<sup>nd</sup> generation of OCS technology launching in 2025

| Last Price (USD)                          | 76.04   | Dec-24           | •    | Dec-25 | Dec-26 | Dec-27 | Dec-28 |
|---|---------|------------------|------|--------|--------|--------|--------|
| Most Recent Quarter:                      | Q3-2024 | Remaining FY2024 | 1    | FY2025 | FY2026 | FY2027 | FY2028 |
| Discounted Cash Flow Analysis             |         |                  |      |        |        |        |        |
| Net Revenue                               |         | 115              | 5.2  | 592.8  | 682.3  | 772.8  | 872.4  |
| Net income (loss)                         |         | (3               | 3.1) | 79.2   | 153.7  | 205.2  | 266.1  |
| D&A                                       |         |                  | 5.9  | 25.7   | 24.2   | 21.9   | 19.8   |
| SBC                                       |         | 1                | 2.3  | 9.3    | 9.3    | 9.3    | 9.3    |
| Other                                     |         |                  |      | 0.0    | 0.0    | (0.0)  | (0.0)  |
| Operating Cash Flow before WC (Levered)   |         | (                | 5.1  | 114.2  | 187.2  | 236.4  | 295.2  |
| Interest expense                          |         | 7                | 7.7  | 30.5   | 30.5   | 30.5   | 30.5   |
| EBT                                       |         | (3               | 3.1) | 79.2   | 153.7  | 205.2  | 266.1  |
| Total Tax Expense                         |         |                  |      | -      | -      | -      | -      |
| Tax Rate                                  |         |                  |      | -      | -      | -      | -      |
| After Tax Interest Expense                |         | 7                | 7.7  | 30.5   | 30.5   | 30.5   | 30.5   |
| Operating Cash Flow before WC (Unlevered) |         | 13               | 3.8  | 144.7  | 217.7  | 266.9  | 325.7  |
| Capex                                     |         | (0               | 0.2) | (88.9) | (81.9) | (38.6) | (43.6) |
| Acquisition                               |         |                  |      | -      | -      | -      | -      |
| Divestiture                               |         |                  |      | -      | -      | -      | -      |
| Change in WC                              |         | (3:              | 1.3) | 21.2   | 24.6   | 27.8   | 31.4   |
| Free Cash Flow to Firm (FCF)              |         | (17              | 7.7) | 77.0   | 160.4  | 256.1  | 313.5  |
| Time Period                               |         | (                | 0.1  | 1.1    | 2.1    | 3.1    | 4.1    |
| Present Value of FCFF                     |         | (1:              | 7.5) | 67.9   | 126.2  | 179.7  | 196.3  |
| FCFF Growth Rate                          |         |                  |      |        | 108.3% | 59.6%  | 22.4%  |
| Capex, as % of Net Revenue                |         | 26.              | 7%   | 15.0%  | 12.0%  | 5.0%   | 5.0%   |
| Change in WC, as % of Net Revenue         |         | -16.             | 2%   | 3.6%   | 3.6%   | 3.6%   | 3.6%   |
|   |         |                  |      |        |        |        |        |

Capex forecasts the acquisition of 3 additional jets in 2025 and 2026 to bring fleet size to management's projection of 24





# **Valuation Football Field**

EV/EBITDA is using 2028 EBITDA between a 26x and 34x multiple







# **Competitive Landscape**

| Perfusion Technology Players   |   |   |  |  |  |  |  |  |  |
|--|---|---|--|--|--|--|--|--|--|
|  | TransMedics.  | XVIVO =   | Organos for life   | PARAGONIX  |  |  |  |  |  |
| Cost   | \$250,000 per machine;<br>\$65,000 per surgery  | \$250,000 - \$300,000 per machine;<br>\$35,000 - \$45,000 per surgery   | \$150,000 - \$200,000 per machine;<br>\$30,000 - \$50,000 per surgery  | \$10,000 - \$15,000 per machine;<br>\$4,000 - \$6,000 per surgery                      |  |  |  |  |  |
| Technology   | Warm Perfusion (Organs are kept alive and functioning outside the body, simulating conditions inside the human body)                                | Cold Perfusion and Lung Perfusion (organs are preserved at cold temperatures but some products also use warm perfusion) | Normothermic Perfusion (Organs are kept at body temperature, maintaining normal function)  | Cold Storage (organs are preserved using advanced cold storage technology) - SherpaPak |  |  |  |  |  |
| Organs   | Heart, Lungs & Liver (market leader in warm perfusion technology  | Primarily focuses on Lungs (market leader in lung preservation) but has products for other organs in development        | Liver (market leader in liver preservation using warm perfusion)   | Heart and Lungs (market leader in cold storage for heart transplants)                  |  |  |  |  |  |
| Offering   | Full-service logistics network with airplanes and dedicated transport services, alongside real-time support for organ transport and transplantation | On-site lung perfusion technology   | On-site liver perfusion technology & remote monitoring   | Supplies cold storage transport systems only   |  |  |  |  |  |
| FDA status   | Approved for lung and heart transplants.<br>Recently, liver OCS technology has been<br>under review or approved in some<br>contexts                 | XVIVO's Lung Perfusion System has FDA approval for lung transplants; anticipating entering US market in 2026            | Has received approval for liver transplant systems in Europe; FDA status varies, with some products undergoing trials or regulatory review | FDA cleared for use in heart transplants   |  |  |  |  |  |
| Time   | Heart: Up to 12 hours with the OCS Heart system; Lungs: Up to 12 hours with the OCS Lung system; Liver: Up to 24 hours with the OCS Liver system    | XVIVO (Cold/Warm Perfusion): Lung up to 12 hours (warm perfusion); 6-8 hours (cold storage)                             | OrganOx (Normothermic Perfusion): Liver up to 24 hours   | Paragonix (Cold Storage): Heart and<br>Lung 6-10 hours                                 |  |  |  |  |  |
| Cold Perfusion does not compete with warm perfusion; they have different use cases |   |   |  |  |  |  |  |  |  |

Paragonix was acquired by Getinge on Aug 22, 2024 for \$477mm
TransMedics acquired Bridge to Life's warm and cold perfusion technology on Aug 2, 2023





# **Investment Risks and Mitigants**

| Risk Category | Level of<br>Concern | Description  |
|---------------|---------------------|--|
| Headline      | Low                 | Doctors changed the definition of death to be able to harvest organs from DCD donors. There have been multiple articles put out calling this practice immoral  Mitigant: DCD Donors allow for thousands of lives to be saved by increasing the supply of transplant organs. Some may opt out of organ donation but too much public health good is being done to ban DCD organ donation   |
| Operational   | High                | TransMedics has zero experience operating a mission response logistics service  Mitigant: Track the average number of aircraft in service for the company over 12 months to see if operational efficiency is achieved  |
| Competition   | Medium              | New competitors like XVIVO are attempting to enter the US Market by 2026.  Mitigant: TMDX has a 3-year head start in the US market and already made relationships with the largest transplant centers in the nation. Additionally, the logistics service TMDX offers is a unique marketplace offering. Lastly, TMDX has new versions of their OCS consoles slated to finish FDA trials next year that significantly improve on their existing OCS models |
| Regulatory    | Low                 | Congressman Paul Gosar wrote a letter to TMDX asking the firm to explain their high costs billed to Medicare. This could result in an action to reduce Medicare reimbursement for organ procurement  Mitigant: Organ procurement is codified in the Social Security Act of the 1960s. It would take a law approved by Congress to change that reimbursement program  |





# **Revenue Model**

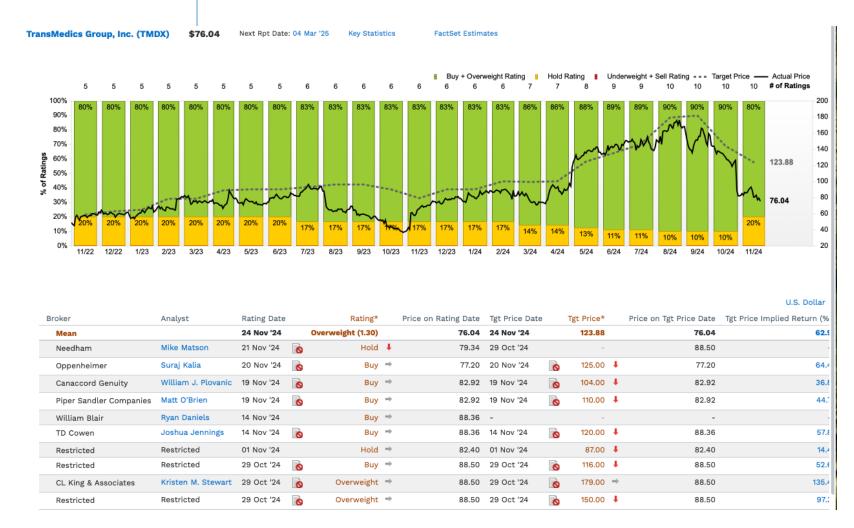
- TMDX Company Goal of 10,000 domestic transplants by 2028
  - Did not model increase in transplants mandated by OPTN by 2026
- International expansion has reduced ramp due to the uncertainty of payment structure
- Model doesn't include the introduction of the Kidney OCS console in 2026/2027
- No Historical NOP Revenue in Historical Earnings
- Assumed 50% of TMDX transplants will utilize NOP service

| Real-Time Stock Price : Bloomberg OFF Model Sheet Currency : USD           |     | <i>Dec-16</i><br>FY2016 | Dec-17<br>FY2017 | Dec-18<br>FY2018 | Dec-19<br>FY2019 | Dec-20<br>FY2020 | Dec-21<br>FY2021 | Dec-22<br>FY2022 | Dec-23<br>FY2023 | Dec-24<br>FY2024 | Dec-25<br>FY2025 | Dec-26<br>FY2026 | Dec-27<br>FY2027 | Dec-28<br>FY2028 |
|--|-----|-------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Segmented Results - Revenue Breakdown (FS)                                 |     |                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| United States - OCS Disposable Sets Revenue, mm                            |     | 3.5                     | 2.7              | 6.1              |                  |                  | 17.5             | 67.2             | 177.1            | 334.2            | 455.0            | 520.0            | 585.0            | 650.0            |
| United States - OCS Consoles Revenue, mm                                   |     | -                       | -                | 0.4              | 3.3              | 3.8              | 4.4              | 16.8             | 44.3             | 81.0             | 46.3             | 48.0             | 50.0             | 50.0             |
| United States - NOP Revenue, mm  |     |                         |                  |                  |                  |                  |                  |                  |                  |                  | 73.5             | 88.2             | 104.2            | 121.6            |
| United States - OCS Disposable Sets Revenue as % of Total United States Re | vei | 100.0%                  | 100.0%           | 93.4%            | 80.0%            | 80.0%            | 80.0%            | 80.0%            | 80.0%            | 80.5%            | 79.2%            | 79.2%            | 79.1%            | 79.1%            |
| United States - Average Selling Price per OCS Disposable Set, \$           | \$  | 40,000                  | 40,000           | \$ 40,000        | \$ 40,000        | \$ 40,000        | \$ 40,000        | \$ 40,000        | \$ 40,000        | \$ 41,234        | \$ 65,000        | \$ 65,000        | \$ 65,000        | \$ 65,000        |
| United States - OCS Disposable Sets Sold, # of units                       |     | 87                      | 69               | 153              | 325              | 385              | 437              | 1,681            | 4,427            | 8,105            | 7,000            | 8,000            | 9,000            | 10,000           |
| United States - Average Selling Price of OCS Console, \$                   | ے   | 230,000                 |                  | \$ 230,000       | \$ 230.000       | \$ 230,000       | \$ 230,000       | \$ 230,000       | \$ 230.000       | \$ 231,213       | \$ 231,250       | \$ 240.000       | \$ 250.000       | \$ 250,000       |
| United States - Average Selling Price of OCS Console, 3                    | 7   | 230,000                 |                  | \$ 230,000       | 14               | 3 230,000        | 3 230,000<br>19  | 73               | 192              | 350              | 200              | 200              | 200              | 200              |
| officed States - OCS Consoles Sold, # of drifts                            |     |                         |                  | •                | . 14             |                  | 13               | /3               | 132              | 330              | 200              | 200              | 200              | 200              |
| United States - Average Selling Price of NOP Mission, \$                   |     |                         |                  |                  |                  |                  |                  |                  |                  | \$20,000         | \$21,000         | \$22.050         | \$23,153         | \$24,310         |
| United States - NOP Mission, # of units                                    |     |                         |                  |                  |                  |                  |                  |                  |                  | 1.875            | 3,500            | 4.000            | 4.500            | 5.000            |
| onition states from mission, it of units                                   |     |                         |                  |                  |                  |                  |                  |                  |                  | 2,070            | 5,555            | .,000            | 1,500            | 5,000            |
| International - OCS Disposable Sets Revenue, mm                            |     | 2.2                     | 4.0              | 5.2              | 5.9              | 5.1              | 6.7              | 7.5              | 12.3             | 12.7             | 12.8             | 18.0             | 24.0             | 40.0             |
| International - OCS Consoles Revenue, mm                                   |     | 0.5                     | 1.0              | 1.3              | 1.5              | 1.3              | 1.7              | 1.9              | 3.1              | 3.9              | 5.3              | 8.1              | 9.6              | 10.8             |
| International - OCS Disposable Sets Revenue as % of Total United States Re | ven | 80.0%                   | 80.0%            | 80.0%            | 80.0%            | 80.0%            | 80.0%            | 80.0%            | 80.0%            | 76.6%            | 70.8%            | 69.1%            | 71.4%            | 78.7%            |
|  |     | 40.000                  | \$ 40.000        | \$ 40.000        |                  | ¢ 40.000         | ć 40.000         |                  |
| International - Average Selling Price per OCS Disposable Set, \$           | \$  |                         | ,                | +,               | +,               | ,                |                  | , ,              | \$ 40,000        | \$ 40,000        | ,                | \$ 40,000        |                  | \$ 40,000        |
| International - OCS Disposable Sets Sold, # of units                       |     | 55                      | 99               | 129              | 147              | 128              | 168              | 188              | 308              | 318              | 320              | 450              | 600              | 1,000            |
| International - Average Selling Price of OCS Console, \$                   | \$  | 230,000                 | 230,000          | \$ 230,000       | \$ 230,000       | \$ 230,000       | \$ 230,000       | \$ 230,000       | \$ 230,000       | \$ 230,000       | \$ 230,000       | \$ 230,000       | \$ 240,000       | \$ 240,000       |
| International - OCS Consoles Sold, # of units                              |     | 2                       | 4                | 6                | 6                | 6                | 7                | 8                | 13               | 17               | 23               | 35               | 40               | 45               |
|  |     |                         |                  |                  |                  |                  |                  |                  |                  | _                |                  |                  |                  |                  |
| OCS organ transplants in US, # of transplants                              |     |                         |                  |                  |                  |                  |                  | 1,000            | 2,300            | 3,750            | 1                |                  |                  | 10,000           |



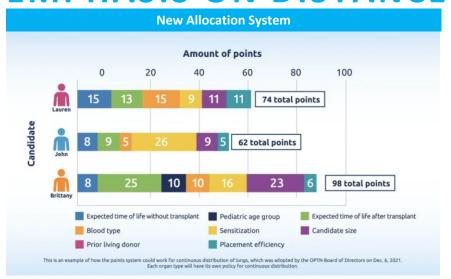


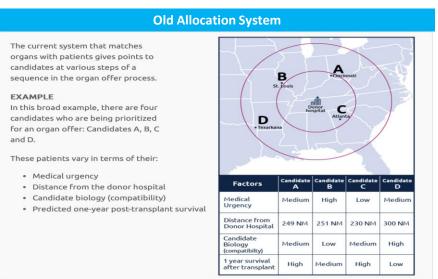
# **Analyst Targets**





# NEW ORGAN ALLOCATION SYSTEM REDUCES EMPHASIS ON DISTANCE





### New System Improves Equity through These Guidelines

- 1. Composite Score: Considers multiple factors beyond distance, like medical urgency and compatibility.
- 2. No Hard Boundaries: Removes strict geographic limits, prioritizing broader patient needs over proximity.
- 3. Balanced Efficiency: Incorporates distance but emphasizes fairness, enabling wider access across regions.

## **Reduced Emphasis on Distance is a Major Advantage for TransMedics**



# TMDX Unique Competitive Advantage

# BROAD INDICATIONS

Multiple Approved FDA PMAs with Broad DBD and DCD indications ....

### **TECHNOLOGY**

Technology Customized to Fit in and Optimize — Current Workflow

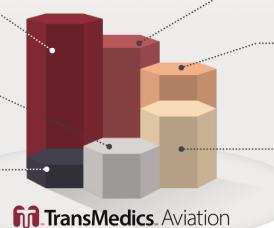
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18

>400 Issued Patents ......and Pending Patent Applications Worldwide\*

# NATIONAL OCS PROGRAM (NOP)

Streamline the Process of Organ Transplantation in U.S.



### **VERSATILE**

The Only FDA Approved Multi-Organ Platform

### **CLINICAL EVIDENCE**

Established Body of Global Clinical Evidence

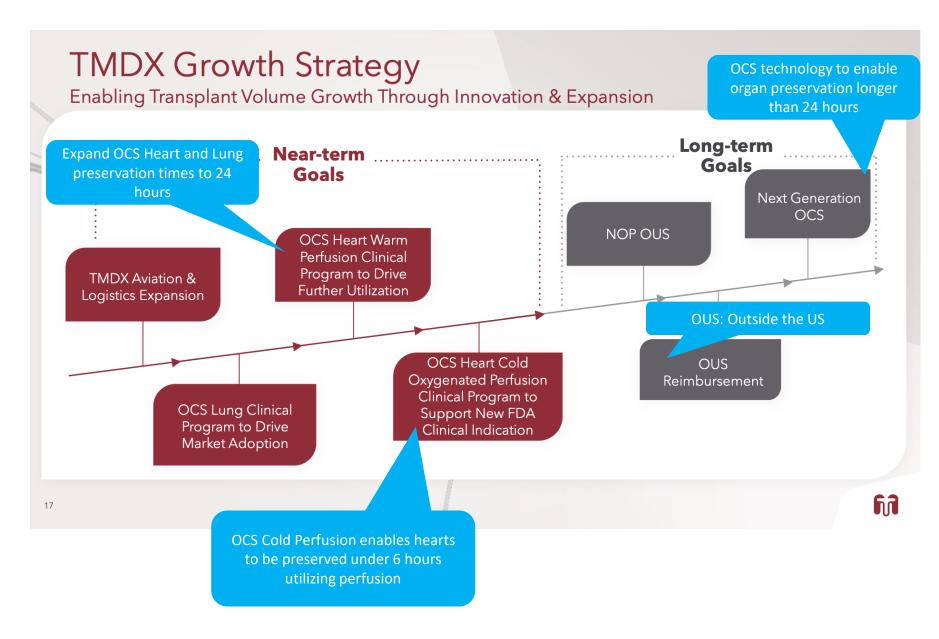
### **GLOBAL PRESENCE**

Established Presence at Leading Global Academic Transplant Centers



\* As of October 28, 2024







DECEMBER, 2024

**Team Number: 10** 

**Students: Jiahao Zhang** 

Karishma Solanki

**Mauricio Meza** 



**EXP – Eagle Materials** 



# **BUY – EAGLE MATERIALS (NYSE: EXP)**

TP'25: \$367 (22% Upside) - Current Price: \$300.27

We recommend a BUY in Eagle Materials (NYSE:EXP), based on a 2025 Target Price of \$367, implying a 22% upside from current market price of \$300.27 per share (11/20/24). This price implies a 14x EV/EBITDA multiple.

Company Overview Eagle Materials (NYSE:EXP) is a leading manufacturer of building materials. The company's main products are Portland cement and Gypsum wallboard (drywall). Operating cement plants, distribution centers, cement terminals, ready-mix concrete facilities and wallboard plants. Geographically diverse presence in 20+ States across the US heartland and sunbelt, protected from seaborn imports.

Investment Thesis STRUCTURAL CHANGE IN INDUSTRY Market's expected growth does not account for a structural shift in supply and demand balance. Regulatory constrains on supply have pushed cement and gypsum prices to a sustainable higher level. Due to its non-coastal location, Eagle is benefitting from increased pricing power. Infrastructure funding to be deployed and housing market at bottom of cycle will provide positive price action support.

CAPITAL ALLOCATION AND BUYBACKS Solid track record of growth M&A (average 30% increase in cement capacity every 4 years). Successful margin expansion through vertical integration and bolt-on projects. Management has managed to return over \$2Bn to shareholders in the past 5 years, reducing share count in 30%. Current dividend plus buyback yield is 3.6%.

MULTIPLE RE-RATING IN PROCESS Since May, multiples are on a breakout above their 5Y average. Despite the challenging year in terms demand due to bad weather, the company has seen a rerating as a combination of pricing power and commitment to its buyback program. We believe the company will reach multiple levels as other US building materials players with strong fundamentals.

### **VALUATION**

**Target price '25 of \$367:** 

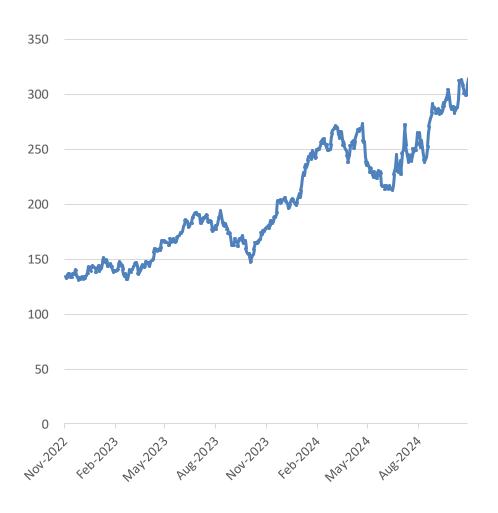
**DCF Model (\$308.2):** Assuming a 9% WACC, a terminal 12.5x EV/EBITDA multiple similar to current valuation levels and lower than peers trading multiples.

Implied perpetual growth rate of 3.9%, accounting for inflation and population organic growth.



# **Trading Overview**

### **Historical Share Price**



### **Trading Statistics**

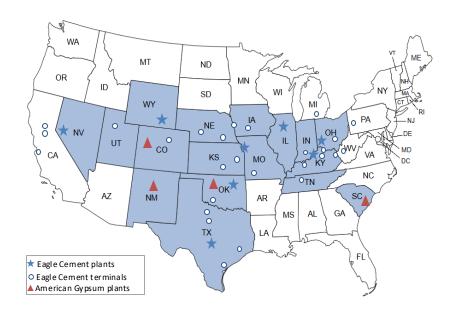
| MARKET CAP (\$M) | 10,080        |
|------------------|---------------|
| EBITDA (\$M)     | 796           |
| P/E '25          | 18.6x         |
| EV/EBITDA '25    | 12.3x         |
| P/B              | 7.2x          |
| YTD RETURN (%)   | 53%           |
| 52W Range        | 178.65-317.00 |
| Avg Volume       | 272.61K       |
| Short Float      | 3.27%         |
| Short Ratio      | 3.97          |



### **BUSINESS DESCRIPTION**

Eagle Materials (NYSE:EXP) is a leading manufacturer of heavy and light building materials products. The company produces Portland cement, gypsum wallboard, ready-mix concrete, aggregates, and recycled paperboard serving residential, commercial, and industrial clients across 20+ States. In the heavy materials segment, the company operates 8 cement plants, one slag grinding facility, over 30 cement distribution terminal, 25 ready-mix concrete plants, and 5 aggregates processing plants. In the light materials segment, the company operates 4 gypsum wallboard plants and 1 recycled paperboard facility.

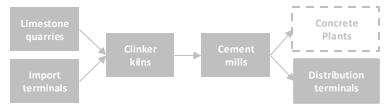
### ADVANTAGEOUS GEOGRAPHIC PRESENCE



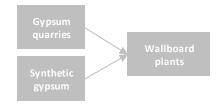
- #7 Cement producer and #2 Gypsum Wallboard producer in the US.
- Locations protected from seaborne imports grant local pricing power.
- According to a Moody's Analytics report from February 2024, population in the main ten states (65% of revenues) is expected to grow approximately 11% between 2020 and 2050, compared to 7% for the United States as a whole.

### SELECTIVE END-TO-END VERTICAL INTEGRATION

### **CEMENT – Choosing not to compete on Concrete segment**



#### **GYPSUM WALLBOARD**



### **MAIN METRICS – 302024 LTM**

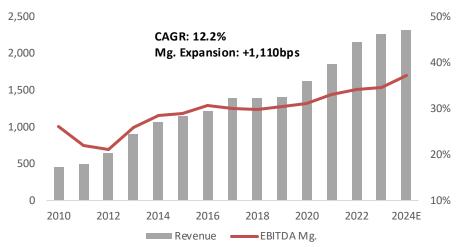
| REVENUE (\$M) | 2,267.8          | DEBT / EQUITY        | 0.76x |
|---------------|------------------|----------------------|-------|
| EBITDA (\$M)  | 796.0            | NET DEBT/EBITDA      | 1.26x |
| EBITDA MG.    | 35.1%            | INTEREST<br>COVERAGE | 14.8x |
| FCF (\$M)     | 462.5            | ROIC                 | 19.3% |
| FCF MARGIN    | FCF MARGIN 20.3% |                      | 35.3% |

EPS 13.720

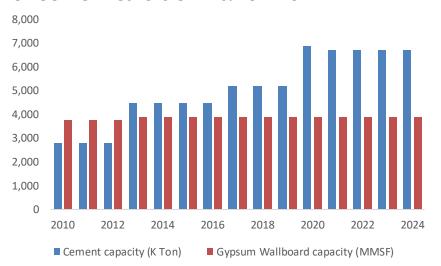


## **BUSINESS DESCRIPTION**

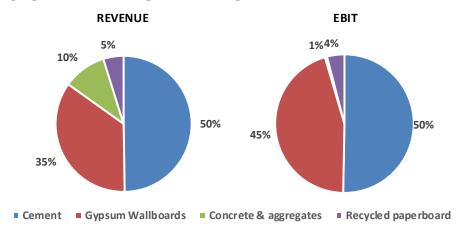
### SUSTAINED GROWTH AND MARGIN EXPANSION



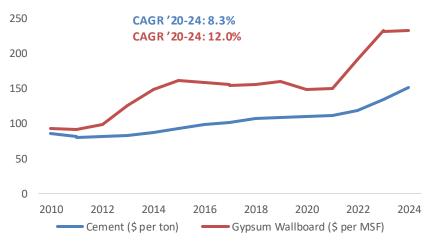
# PAST DECADE'S GROWTH HAS FOCUSED ON CEMENT ONGOING PROJECTS OF +10% CAPACITY IN 2Y



### **SEGMENT REVENUE BREAKDOWN**



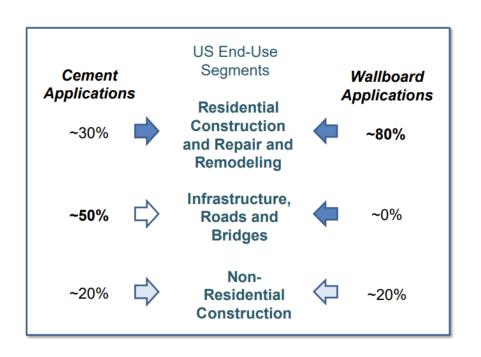
### **SUCCESSFUL PRICING STRATEGY ON BOTH MARKETS**



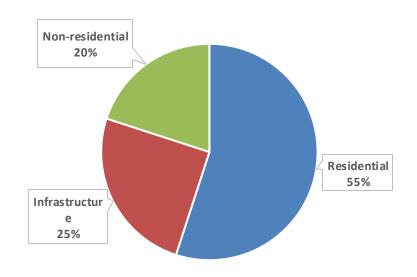


### **BUSINESS DRIVERS**

### REVENUE GROWTH DRIVEN BY RISING DEMAND AND PRICING POWER. CONTINOUS MARGIN EXPANSION.



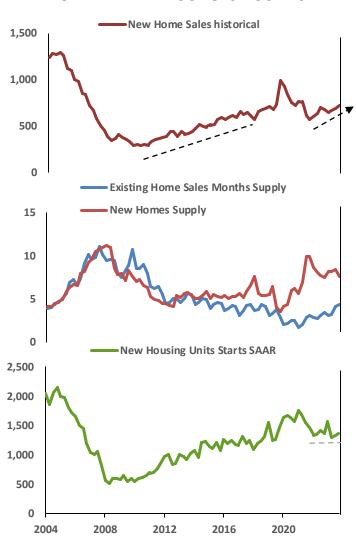
### **EAGLE MATERIALS EXPOSURE BY SEGMENT**





### **INVESTMENT THESIS #1 - HOUSING MARKET**

### **NEW HOME DEMAND SURGES POST 2022 INTEREST RATE SPIKE**



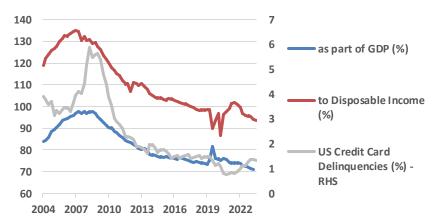
Residential demand for new homes (including single family, town houses, multi-family and condos) has resumed its upward trend after the 2022-2023 slowdown product of interest rate hikes.

Further accommodative policy and new fiscal stimulus would boost demand.

After spiking in 2022, New Homes Supply in months is decreasing. The recovery has been boosted by sales but also by a stabilization in Housing Starts.

However, Existing Homes Supply in months is increasing. New Housing Units Starts seems to have bottomed out in 2024 with a more benign level of interest rates for developers and a firmer. We expect further developments as the economy continues to grow and financial conditions become less restrictive.

### HOUSEHOLD DEBT CONTINUES TO TREND DOWN





# INVESTMENT THESIS #1 - INFRASTRUCTURE AND INDUSTRIAL DEMAND

### TAILWINDS FOR INFRASTRUCTURE SPENDING

IIIJA funds have rolled out slower than anticipated, with 75% of funds yet to materialize. Therefore, we believe that this leaves ample funding in 2025 which could surprise on the upside boosting demand.

### Infrastructure Investment and Jobs Act (IIJA) execution has been 25%

So far, \$247Bn of the total \$550Bn in the Bill have been released to the States. Final construction activity is expected to pickup between 2024 and 2028 as works are finalized. California, Texas and the Midwestern States are expected to receive significant part of the funding.



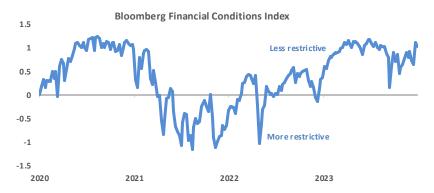
Note: White House estimates are summaries based on allocation of funds in prior legislation and are subject to change.

Source: The White House Map data: Tilegrams/NPR

### MANUFACTURING ACTIVITY

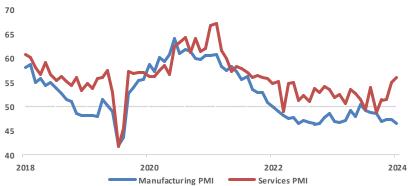
#### Financial conditions have greatly improved since 2022.

Despite the high interest rate levels, credit is available, and financial conditions are trending upwards. Ultimately, for cement demand, the delta will depend on the balance within interest sensitive sectors and the rest of the economy.



#### Manufacturing PMI has not picked up yet.

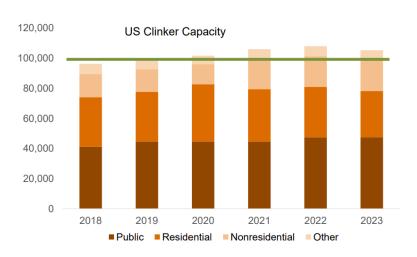
Services are supporting economic growth while Manufacturing has remained below 50 for most of the past two years. However, this hasn't affected cement demand in the past 3 years.





# INVESTMENT THESIS #1 – REGULATIONS HAVE CREATED A NEW STRUCTURAL PRICING ENVIRONMENT

### STRUCTURALLY CONSTRAINED CEMENT SUPPLY



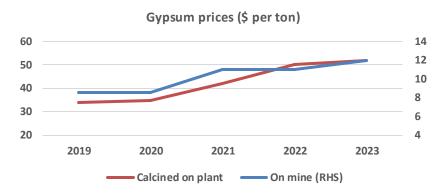
Current cement demand has surpassed national Clinker capacity, creating positive price pressure.

High competition with imported Clinker and cement from Vietnam and Turkey. Added transport costs establish new price floor.

NESHAP Regulations approved in 2010 made environmental compliance costs prohibitive for new plants.

In the US, greenfield projects for cement plants haven't been built in the past 10 years, as importing clinker is more cost-effective for manufacturers. Added capacity has come from plant modernizations.

### WALLBOARD HAS CAPACITY BUT HIGHER PRICES



Coal-mines closures in North America have boosted prices as synthetic Gypsum supply (a coal by-product) was reduced.

Producers of Gypsum have been focusing on natural mines, benefiting vertically integrated players with higher prices.



Wallboard demand is expected to grow with organic residential demand and industrial/commercial activity. Production still has excess capacity but not enough Gypsum suppliers.



# INVESTMENT THESIS #1 – MARKET IS NOT FACTORING IN THIS NEW INDUSTRY DYNAMIC

# EXPECTED GROWTH IS CONSISTENT WITH MODEST PRICE INCREASES ONLY



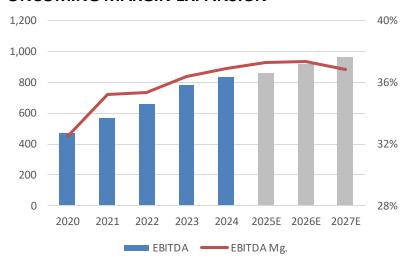
# Market is not factoring volume growth after softer volumes in 2024 due to weather disruptions on volumes (rain in Texas and Hurricane Milton).

However, average price increase in the last 4 years has been 8% in cement and 12% in wallboards, despite weather interruptions.

This upside does not take into account any volume increase from the two ongoing expansion projects coming online in the next two years (650,000 additional tons of cement capacity).

We expect a strong 2025 revenue by delayed 2024 demand from 2024 and strong pricing action.

# HOWEVER, THE MARKET DOES BELIEVE IN THE ONCOMING MARGIN EXPANSION



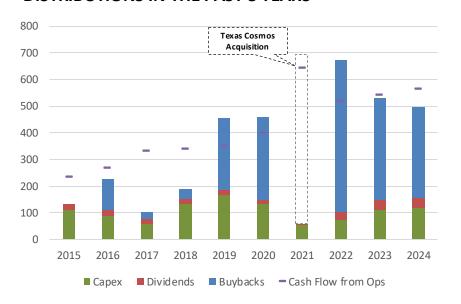
Pricing power as well as efficiency projects and vertical integration acquisitions have been vital in the past years to boost margins, which the market expects to continue in the next couple of years.

A 50bps increase is expected by 2026, more moderate than previous years.



### **INVESTMENT THESIS #2 - CAPITAL ALLOCATION**

# DISCIPLINED CAPEX ALLOWED FOR CAPITAL DISTRIBUTIONS IN THE PAST 5 YEARS



### M&A TRACK RECORD, A BIG AQCUISITON EVERY 3 YEARS

|      | Capacity Expansion                    | Vertical Integration  |
|------|---------------------------------------|---|
| 2020 | \$665M – Texas<br>Cosmos Cement Plant |   |
| 2021 |                                       |   |
| 2022 |                                       | \$120M - ConAgg concrete and aggregate facilities in California \$39M – Cement distribution terminal in Tennessee |
| 2023 |                                       | <b>\$55M</b> - Cement import and Distribution facilities in Northern California                                   |

### STRATEGIC PILLARS

I. Investment in growth opportunities that satisfy required financial return and are consistent with strategic focus Since 2010, total cement capacity has grown 138%, mainly through opportunistic acquisitions. Despite low leverage metrics, the company has been selective on executing M&A opportunities.

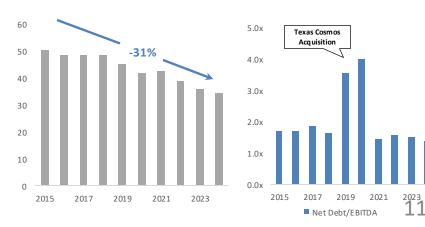
# II. Maintain advantage as a low-cost producer through continuous operational investments:

Recent CAPEX focus has been on modernization of current plants and vertical integration.

#### III. Return excess cash to shareholders:

In the past 5 years, the company has paid dividends and bought shares back for \$1.8B, amounting to 67% of the cash flow from operations. The remaining amount of the active buyback program represents 10.4% of shares outstanding.

# SHARES OUTSTANDING REDUCTION WITH LOW LEVERAGE





# **INVESTMENT THESIS #3 - COMPS**

### **FUNDAMENTALS ARE SIMILAR OR SUPERIOR TO HIGHER MULTIPLES COMPS**









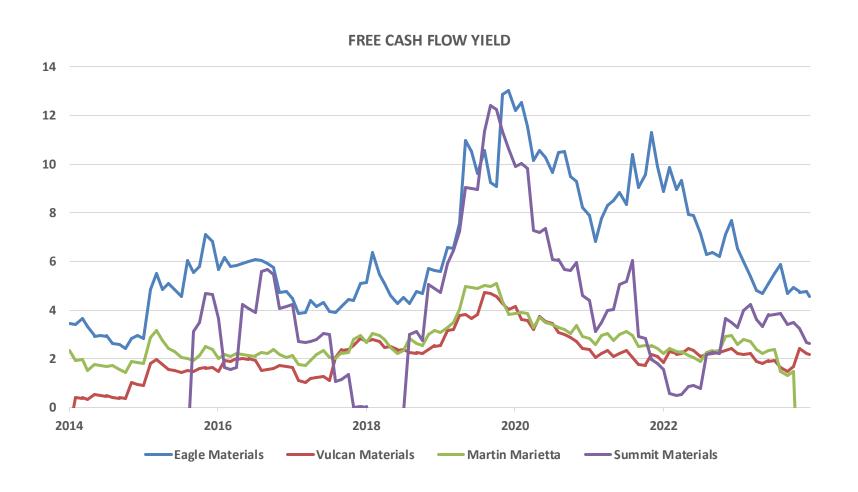


| Revenu e Mix             | Cement: 50%<br>Wallboard: 35%<br>Ready-Mix Concrete: 10% | Aggregates: 63%<br>Ready-Mix Concrete:14%<br>Cement: 10%<br>Other: 13% | Concrete and Asphalt: 46%<br>Aggregates: 27%<br>Cement: 15%<br>Services: 12% | Aggregates: 69%<br>As phalt: 15%<br>Ready-Mix Concrete: 16% | Cement: 40%<br>Ready-Mix Concrete: 32%<br>Aggregates: 13%<br>Solutions & Products: 11% |
|--------------------------|--|--|--|---|--|
| Geographical<br>Exposure | US: 100%   | US: 100%   | US: 100%   | US: 100%  | US: 30%<br>Mexico: 29%<br>EMEA: 29%<br>South America: 10%                              |
| Market Cap (\$ MM)       | 10,080   | 35,600   | 8,650  | 36,840  | 8,000  |
| EV/EBITDA '25            | 12.4x  | 16.9x  | 9.9x   | 17.3x   | 5.2x   |
| Free Cash Flow Yield     | 4.25%  | 2.43%  | 3.18%  | 1.8%  | 0.9%   |
| Revenue (\$ MM)          | \$2,267  | \$6,512  | \$3,754  | \$7,398   | \$16,936   |
| Revenue CAGR 5Y          | 10.2%  | 9.8%   | 4.5%   | 12.2%   | 5.1%   |
| EBITDA (\$ MM)           | \$796  | \$1,964  | \$857  | \$2,010   | \$3,372  |
| EBITDA Mg.               | 35.1%  | 30.1%  | 22.8%  | 27.2%   | 19.9%  |
| EPS CAGR 5Y              | 21.2%  | 22.3%  | 1.0%   | 10.2%   | -9%  |
| FCF Mg.                  | 20.4%  | -24%   | 4.5%   | 10.9%   | 4.2%   |
| ROIC 5Y Avg              | 16%  | 7.9%   | 5.9%   | 7.85%   | 2.0%   |
| Net Debt / EBITDA        | 1.3x   | 1.4x   | 2.8x   | 1.7x  | 3.1x   |



## **INVESTMENT THESIS #3 - RELATIVE VALUATION**

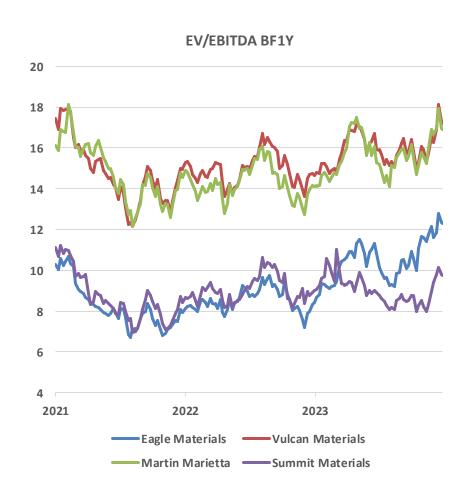
### HIGHER FREE CASH FLOW YIELD THAN US PEERS – TRENDING DOWNWARDS

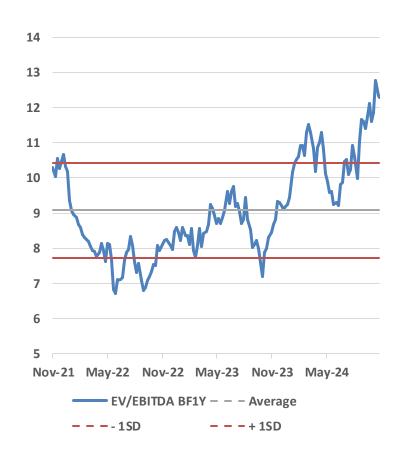




# **INVESTMENT THESIS #3 - RELATIVE VALUATION**

## MULTIPLE IS ON A BREAKOUT BETWEEN LOW AND HIGH-QUALITY PEERS







# **RELATIVE VALUATION**

### **COMPELLING DISCOUNT TO PEERS ON THE AGGREGATE SECTOR**

| Comparable Companies Multiples Forward |                  |                  |        |        |              |              |  |  |  |  |
|--|------------------|------------------|--------|--------|--------------|--------------|--|--|--|--|
| Region                                 | Company          | Market Cap (\$M) | P/E 1Y | P/E 2Y | EV/EBITDA 1Y | EV/EBITDA 2Y |  |  |  |  |
|  | Summit Materials | 8,650            | 28.4x  | 23.4x  | 10.9x        | 9.7x         |  |  |  |  |
| US                                     | Vulcan Materials | 36,840           | 38.7x  | 30.6x  | 19.9x        | 17.1x        |  |  |  |  |
| 03                                     | Martin Marietta  | 35,600           | 33.0x  | 27.6x  | 19.2x        | 16.8x        |  |  |  |  |
|  | Knife River Corp | 5,530            | 27.5x  | 23.4x  | 13.2x        | 11.8x        |  |  |  |  |
|  | US Median        | 22,125           | 30.7x  | 25.5x  | 16.2x        | 14.3x        |  |  |  |  |
|  | Global Median    | 58,020           | 15.6x  | 14.2x  | 9.6x         | 9.1x         |  |  |  |  |
|  | Asia Median      | 17,630           | 22.7x  | 13.2x  | 13.6x        | 10.2x        |  |  |  |  |
|  | Latam Median     | 1,614            | 9.8x   | 9.6x   | 6.4x         | 6.0x         |  |  |  |  |

| Comps P/E Forward                  |            |
|------------------------------------|------------|
| Comps Multiple Median (P/E 1Y FWD) | 30.7x      |
| EPS '25                            | \$17.8     |
| Number of Shares Outstanding (M)   | 33.5       |
| Equity Value (\$M)                 | \$18,344.7 |
| Share Price                        | \$546.89   |
| Total upside                       | 82.1%      |

| Comps EV/EBITDA Forward  |   |
|--|---|
| Comps Multiple Median (EV/EBITDA 1Y FWD)   | 16.2x                                     |
| EBITDA '25   | \$913.3                                   |
| Enterprise Value Less: Total Debt Less: Preferred Securities Less: Noncontrolling Interest Plus: Cash and Cash Equivalents | \$14,781.2<br>(1,061.4)<br>-<br>-<br>48.9 |
| Equity Value (\$M)   | \$13,768.8                                |
| Number of Shares Outstanding (M) Share Price Total upside  | 33.5<br><b>\$410.48</b><br>36.7%          |



### **VALUATION – BASE CASE**

# STRONG PRICING POWER, CURRENT EXPANSION PROJECTS AND SOLID DEMAND NOT FACTORING IN BUYBACK EFFECT

| Base Case     | 2019  | 2020  | 2021  | 2022  | 2023  | 2024  | 2025  | 2026  | 2027  | 2028  | 2029  | 2030  | CAGR<br>2019 - 2023 | CAGR<br>2023 - 2030 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------|---------------------|
| Revenue       | 1,384 | 1,585 | 1,792 | 2,091 | 2,253 | 2,288 | 2,591 | 2,812 | 3,005 | 3,175 | 3,355 | 3,538 | 13.0%               | 7.5%                |
| YoY           |       | 15%   | 13%   | 17%   | 8%    | 2%    | 13%   | 9%    | 7%    | 6%    | 6%    | 5%    |                     |                     |
| Gross profit  | 335   | 408   | 490   | 603   | 701   | 700   | 842   | 928   | 1,007 | 1,080 | 1,141 | 1,203 | 20.3%               | 9.4%                |
| Gross margin  | 24%   | 26%   | 27%   | 29%   | 31%   | 31%   | 33%   | 33%   | 34%   | 34%   | 34%   | 34%   |                     |                     |
| EBITDA        | 381   | 480   | 577   | 687   | 789   | 783   | 913   | 1,009 | 1,097 | 1,161 | 1,214 | 1,268 | 20.0%               | 8.4%                |
| EBITDA Margin | 28%   | 30%   | 32%   | 33%   | 35%   | 34%   | 35%   | 36%   | 37%   | 37%   | 36%   | 36%   |                     |                     |
| EBIT Margin   | 20%   | 22%   | 25%   | 26%   | 29%   | 28%   | 30%   | 31%   | 31%   | 32%   | 32%   | 32%   |                     |                     |
| Profit Margin | -9%   | 22%   | 20%   | 21%   | 22%   | 21%   | 23%   | 24%   | 24%   | 25%   | 25%   | 25%   |                     |                     |
| FCFF          | 179   | -329  | 419   | 329   | 456   | 531   | 381   | 463   | 754   | 807   | 843   | 884   | 26.3%               | 8.9%                |

| Enterprise Value                |               |
|---------------------------------|---------------|
| Cumulative Present Value of FCF | \$2,874.9     |
| Terminal Value                  |               |
| Terminal Year EBITDA (2030E)    | \$1,285.3     |
| Exit Multiple                   | <u>12.5</u> x |
| Terminal Value                  | \$16,065.6    |
| Discount Factor                 | 0.65          |
| Present Value of Terminal Value | \$10,441.6    |
| % of Enterprise Value           | 78.4%         |
| Enterprise Value                | \$13,316.4    |

| Implied Equity Value and Sha    | re Price   |
|---------------------------------|------------|
| Enterprise Value                | \$13,316.4 |
| Less: Total Debt                | (1,061.4)  |
| Less: Preferred Securities      | -          |
| Less: Noncontrolling Interest   | -          |
| Plus: Cash and Cash Equivalents | 48.9       |
| Implied Equity Value            | \$12,304.0 |
| Shares outstanding (M)          | 33.5       |
| Implied Share Price             | \$366.81   |
| Current price (11/20/24)        | 300.27     |
| Total upside                    | 22.2%      |
| Yield                           | 3.63%      |

| Implied Perpetuity Growth Rate       |            |
|--------------------------------------|------------|
| Terminal Year Free Cash Flow (2030E) | \$897.9    |
| WACC                                 | 9.0%       |
| Terminal Value                       | \$16,065.6 |
|                                      |            |
| Implied Perpetuity Growth Rate       | 3.2%       |
|                                      |            |
| Implied EV/EBITDA                    |            |
| Enterprise Value                     | \$13,316.4 |
| LTM 12/31/2030 EBITDA                | 897.9      |
|                                      |            |
| Implied EV/EBITDA                    | 14.8x      |

Considering 3.2% perpetuity growth: Inflation + organic population growth

#### **MAIN ASSUMPTIONS:**

#### Prices:

- Cement: Increases in line to recent history and converging to inflation over the projection period
- Wallboard: Short term increases at 5% and converging to inflation over the projection period

#### Shipments:

- Cement: Recovery from 2024 weather disruptions and large increase from starting infrastructure projects during 2025-2028
- Wallboard: Recovery from 2024 weather disruptions and steady growth supported by housing market bottom.

#### Efficiencies:

- Margin continue expansion due to current operational projects.
- Steady SGA expenses.

#### Expansions:

- Considering 10% increase from ongoing projects.
- Not considering any acquisition. However, we consider the balance sheet and FCF could handle another deal. We look favorably to this optionality due to management's track record.



# **ALTERNATIVE SCENARIOS - DCF**

|                                 | Base case | Upside case | Downside case |
|---------------------------------|-----------|-------------|---------------|
| Cumulative free cashflows       | 2,875     | 2,721       | 1,868         |
| Terminal Year EBITDA            | 1,285     | 1,450       | 1,038         |
| Exit Multiple                   | 13x       | 13x         | 13x           |
| Terminal Value                  | 16,066    | 18,121      | 12,980        |
| Present Value of Terminal Value | 10,442    | 11,777      | 8,436         |
| % of Enterprise Value           | 78%       | 81%         | 82%           |
| Enterprise Value                | 13,316    | 14,499      | 10,304        |
| Less: Total Debt                | -1,061    | -1,061      | -1,061        |
| Plus: Cash and Cash Equivalents | 49        | 49          | 49            |
|                                 |           |             |               |
| Implied Equity Value            | 12,304    | 13,486      | 9,292         |
| Implied share price             | 367       | 402         | 277           |
| Percentage return               | 22%       | 34%         | -8%           |

| Base Case     | 2019  | 2020  | 2021  | 2022  | 2023  | 2024  | 2025  | 2026  | 2027  | 2028  | 2029  | 2030  | CAGR<br>2019 - 2023 | CAGR<br>2023 - 2030 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------|---------------------|
| Revenue       | 1,384 | 1,585 | 1,792 | 2,091 | 2,253 | 2,288 | 2,591 | 2,812 | 3,005 | 3,175 | 3,355 | 3,538 | 13.0%               | 7.5%                |
| YoY           |       | 15%   | 13%   | 17%   | 8%    | 2%    | 13%   | 9%    | 7%    | 6%    | 6%    | 5%    |                     |                     |
| Gross profit  | 335   | 408   | 490   | 603   | 701   | 700   | 842   | 928   | 1,007 | 1,080 | 1,157 | 1,221 | 20.3%               | 9.7%                |
| Gross margin  | 24%   | 26%   | 27%   | 29%   | 31%   | 31%   | 33%   | 33%   | 34%   | 34%   | 35%   | 35%   |                     |                     |
| EBITDA        | 381   | 480   | 577   | 687   | 789   | 783   | 913   | 1,009 | 1,097 | 1,161 | 1,230 | 1,285 | 20.0%               | 8.6%                |
| EBITDA Margin | 28%   | 30%   | 32%   | 33%   | 35%   | 34%   | 35%   | 36%   | 37%   | 37%   | 37%   | 36%   |                     |                     |
| EBIT Margin   | 20%   | 22%   | 25%   | 26%   | 29%   | 28%   | 30%   | 31%   | 31%   | 32%   | 32%   | 32%   |                     |                     |
| Profit Margin | -9%   | 22%   | 20%   | 21%   | 22%   | 21%   | 23%   | 24%   | 24%   | 25%   | 25%   | 25%   |                     |                     |
| FCFF          | 179   | -329  | 419   | 329   | 456   | 531   | 381   | 463   | 754   | 807   | 859   | 898   | 26.3%               | 9.2%                |

| Upside case   | 2019  | 2020  | 2021  | 2022  | 2023  | 2024  | 2025  | 2026  | 2027  | 2028  | 2029  | 2030  | CAGR<br>2019 - 2023 | CAGR<br>2023 - 2030 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------|---------------------|
| Revenue       | 1,384 | 1,585 | 1,792 | 2,091 | 2,253 | 2,288 | 2,591 | 2,961 | 3,317 | 3,639 | 3,843 | 4,052 | 13.0%               | 10.0%               |
| YoY           |       | 15%   | 13%   | 17%   | 8%    | 2%    | 13%   | 14%   | 12%   | 10%   | 6%    | 5%    |                     |                     |
| Gross profit  | 335   | 408   | 490   | 603   | 701   | 700   | 842   | 977   | 1,111 | 1,237 | 1,326 | 1,398 | 20.3%               | 12.2%               |
| Gross margin  | 24%   | 26%   | 27%   | 29%   | 31%   | 31%   | 33%   | 33%   | 34%   | 34%   | 35%   | 35%   |                     |                     |
| EBITDA        | 381   | 480   | 577   | 687   | 789   | 783   | 913   | 1,054 | 1,194 | 1,307 | 1,387 | 1,450 | 20.0%               | 10.8%               |
| EBITDA Margin | 28%   | 30%   | 32%   | 33%   | 35%   | 34%   | 35%   | 36%   | 36%   | 36%   | 36%   | 36%   |                     |                     |
| EBIT Margin   | 20%   | 22%   | 25%   | 26%   | 29%   | 28%   | 30%   | 31%   | 31%   | 32%   | 32%   | 32%   |                     |                     |
| Profit Margin | -9%   | 22%   | 20%   | 21%   | 22%   | 21%   | 23%   | 24%   | 24%   | 25%   | 25%   | 25%   |                     |                     |
| FCFF          | 179   | -329  | 419   | 329   | 456   | 531   | 381   | 475   | 614   | 708   | 787   | 1,022 | 26.3%               | 11.5%               |

| Downside case | 2019  | 2020  | 2021  | 2022  | 2023  | 2024  | 2025  | 2026  | 2027  | 2028  | 2029  | 2030  | CAGR<br>2019 - 2023 | CAGR<br>2023 - 2030 |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------|---------------------|
| Revenue       | 1,384 | 1,585 | 1,792 | 2,091 | 2,253 | 2,288 | 2,144 | 2,278 | 2,396 | 2,564 | 2,666 | 2,767 | 13.0%               | 3.2%                |
| YoY           |       | 15%   | 13%   | 17%   | 8%    | 2%    | -6%   | 6%    | 5%    | 7%    | 4%    | 4%    |                     |                     |
| Gross profit  | 335   | 408   | 490   | 603   | 701   | 700   | 697   | 752   | 803   | 872   | 920   | 955   | 20.3%               | 5.3%                |
| Gross margin  | 24%   | 26%   | 27%   | 29%   | 31%   | 31%   | 33%   | 33%   | 34%   | 34%   | 35%   | 35%   |                     |                     |
| EBITDA        | 381   | 480   | 577   | 687   | 789   | 783   | 779   | 846   | 908   | 969   | 1,010 | 1,038 | 20.0%               | 4.8%                |
| EBITDA Margin | 28%   | 30%   | 32%   | 33%   | 35%   | 34%   | 36%   | 37%   | 38%   | 38%   | 38%   | 38%   |                     |                     |
| EBIT Margin   | 20%   | 22%   | 25%   | 26%   | 29%   | 28%   | 30%   | 31%   | 31%   | 32%   | 32%   | 32%   |                     |                     |
| Profit Margin | -9%   | 22%   | 20%   | 21%   | 22%   | 21%   | 23%   | 23%   | 24%   | 25%   | 25%   | 25%   |                     |                     |
| FCFF          | 179   | -329  | 419   | 329   | 456   | 531   | 347   | 349   | 428   | 467   | 509   | 718   | 26.3%               | 5.2%                |

### **MAIN ASSUMPTIONS:**

### Upside Case:

- Strong pricing environment for both cement and wallboard.
- 15% capacity increase by acquisition, maintaining profit margin levels. \$ 1.5Bn CAPEX

### Downside Case:

- 10% Cement and Wallboard demand drop in 2025-2026 with gradual recovery.
- Price increases only as inflation.
- No expansions projects executed.



### **RISK FACTORS**

### **ECONOMIC ACTIVITY AND CYCLICALITY**

ssue

Revenue dependence on economic activity level, mainly at the residential construction level, an economic slowdown would greatly affect revenue. High cyclicality of the company revenues. Short-term disruptions caused by weather.

Mitigants

Current demand surpasses capacity by ~10%, which could act as a buffer if demand slumps. Coastal States would be most affected by lower prices, while Eagle's area of operation remains protected in its majority. Weather disruptions tend to push demand to following quarters, causing delays but not cancellation of projects.

### **ENVIRONMENTAL REGULATION**

Issue

Regulation on environmental standards for production or new projects can increase expected CAPEX and costs. Required technological developments, less efficient fuel usage, existing plant adaptations, constrained fuel supply.

Mitigants

### **ENERGY AND FUEL PRICE RISK**

ssue

Cement manufacturing is highly energy-intensive, with fuel costs typically accounting for ~10% of costs. Sharp increases in coal, petcoke, and diesel prices can significantly compress profit margins.

Mitigants

Long-term purchase agreements of solid fuels in place to neutralize short-term price volatility. Strong price

During the fuel price hike of 2022, energy costs for the company increased by 14%, mainly affected by coal and petcoke. The company managed to offset the increase by hiking prices and gross margin expanded by 200bps in the year.

### SHIFT IN INFRASTRUCTURE AND GOVERNMENT SPENDING

ssue

Infrastructure segment is dependent on spending execution and Government funds deployment. Clawbacks or delays on States budget could result in lower cement demand than expected by the market.

Mitigants

Already approved IIJA provides a baseline for infrastructure demand for the next years.

\$380Bn were already assigned to projects at a State level from the existing Act. This creates a difficult political scenario to cancel the projects. Renewable projects pending authorization could be rescinded but could be replaced by fossil fuel and transportation projects according to the new Administration's interests.



# **APPENDIX**



### **TOP MANAGEMENT**

#### AVERAGE OF 12 YEARS AT THE COMPANY – AVERAGE OF 25 YEARS IN INDUSTRIAL COMPANIES



#### PRESIDENT AND CEO - MICHAEL R. HAACK

Joined Eagle Materials in 2014 as COO. He was appointed President and Chief Executive Officer in July 2019.

Previously Mr. Haack spent 17 years at Halliburton Energy Services, holding successively important operating positions, most recently as Global Operations Manager at Halliburton's Sperry Drilling division.

MSc from Texas A&M University and a BSc degree from Purdue University, both in Industrial Engineering, and an MBA from Rice University.



#### **EXECUTIVE VP - CFO - CRAIG KESLER**

Joined Eagle Materials in 2004 as Director - Strategic Planning and assumed the role of Vice President - Investor Relations and Corporate Development in 2005. In August 2009, he was promoted to Executive Vice President - Finance and Administration and Chief Financial Officer. Prior to Eagle Materials, served multi-national clients in public accounting with Arthur Andersen LLP and Ernst & Young LLP.

B.A. in accounting from Southwestern University and is a Certified Public Accountant.



#### PRESIDENT - AMERICAN GYPSUM - ERIC CRIBBS

Joined Eagle Materials in 2015. In November 2018 was appointed VP - Concrete & Aggregates Division, and in January 2020 assumed the role of VP - Safety, Logistics, and Procurement & Materials. In 2021 was promoted as Executive VP of Concrete & Aggregates, Advanced Cementitious Materials, Logistics and Procurement & Materials. Holds its current position since 2023. Prior to Eagle Materials, he was the US Northern Region Operations Manager for Halliburton. BSc in Petroleum Engineering from the University of Alaska Fairbanks.



#### SENIOR VP - CEMENT EAST - TONY THOMPSON

Joined Eagle Materials in 2010 as President of Texas Lehigh Cement Company LP, and assumed the role of VP - Cement, Concrete & Aggregates East Region in 2018. Was promoted to his current position in 2019.

Prior to Eagle Materials, Mr. Thompson worked for the international building materials company Holcim for 15 years in various leadership roles. BSc in Mechanical Engineering from Mississippi State University.



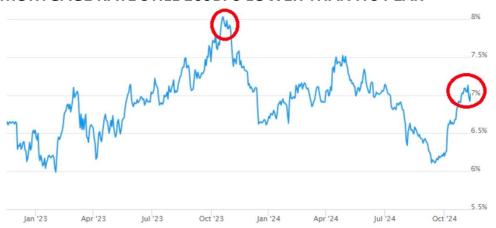
#### **EXECUTIVE VP – GENERAL COUNSEL – MATT NEWBY**

Joined Eagle Materials in June 2012 as Associate General Counsel and was promoted to Executive VP - General Counsel and Secretary in 2022. Prior to Eagle Materials, he was an associate at the law firms of Weil, Gotshal & Manges LLP and Baker Botts LLP. Holds a JD, with honors, from University of Texas School of Law and BBA from Baylor University.



### **INVESTMENT THESIS # 1 – HIGHER RATES RISKS PRICED IN**

### MORTGAGE RATE STILL 100BPS LOWER THAN ITS PEAK



In the past, public homebuilders have adapted well to mortgage rates exceeding 8% by offering buydowns and building smaller homes to address affordability challenges. Therefore, we do not expect a high risk on the end market.

Moreover, the market has already priced in risks of higher rates which could present an upside opportunity if rates end up lower than current expectations.

### **EXP Share Price No Significant Negative Correlation to US10Y**



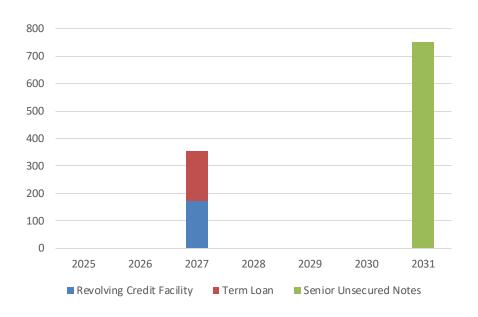
EXP share price has no inverse correlations with the US-110y year treasury yield, with the only recent period of such finding being end of 2021 to end of 2022.

Source: Mortgage News Daily, Workspace

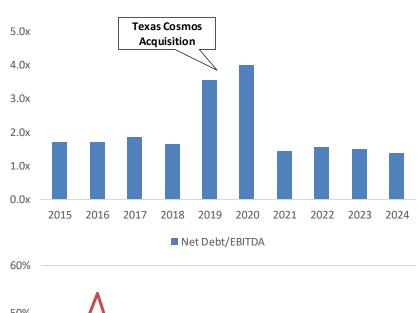


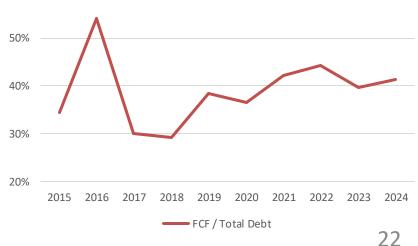
# **INVESTMENT THESIS #2 - CAPITAL STRUCTURE - (Baa2 / BBB)**

### SPREAD OUT MATURITIES AND LEVERAGE METRICS WOULD ALLOW TO EXTEND BUYBACK PROGRAMS



|                           | Maturity | Interest rate | Amount (\$ M) |
|---------------------------|----------|---------------|---------------|
| Revolving Credit Facility | May-27   | 6.6%          | 170           |
| Term Loan                 | May-27   | 6.6%          | 182.5         |
| Senior Unsecured Notes    | Jul-31   | 2.5%          | 750           |
| Operational Leases        | 5Y       |               | 33.8          |







### **STOCK PRICE**





## **HOUSING MARKET**

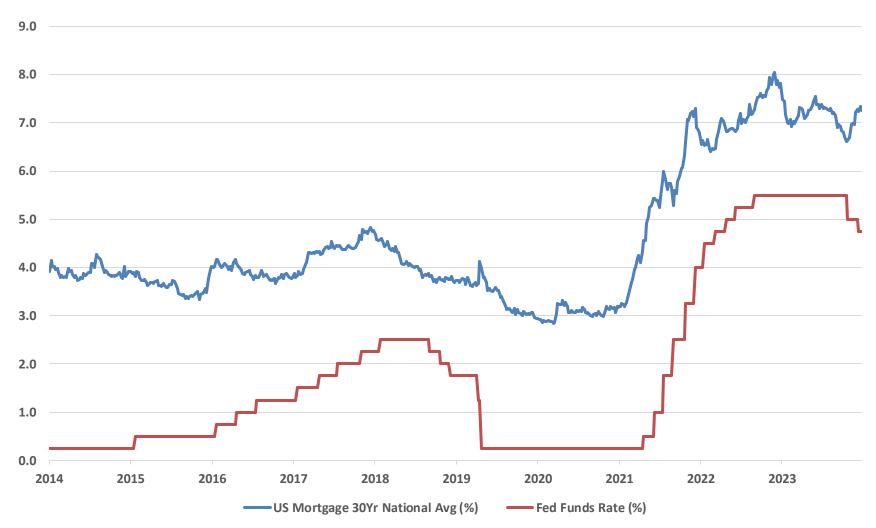
### MBA MORTGAGE APPLICATION INDEX SEEMS TO HAVE BOTTOMED OUT





## **HOUSING MARKET**

### MORTGAGE INTEREST RATES ALSO SEEM TO HAVE REACHED A CEILING





# **GLOBAL CEMENT AND BUILDING MATERIALS COMPANIES**

### MULTIPLES SHOW A CLEAR PREMIUM FOR US COMPANIES FOLLOWED BY ASIAN PEERS

| Compara | ible Companies Multiples Fo   | <u>rward</u>     |        |        |              |              |
|---------|-------------------------------|------------------|--------|--------|--------------|--------------|
| Region  | Company                       | Market Cap (\$M) | P/E 1Y | P/E 2Y | EV/EBITDA 1Y | EV/EBITDA 2Y |
|         | Summit Materials              | 8,650            | 28.4x  | 23.4x  | 10.9x        | 9.7x         |
| US      | Vulcan Materials              | 36,840           | 38.7x  | 30.6x  | 19.9x        | 17.1x        |
| US      | Martin Marietta               | 35,600           | 33.0x  | 27.6x  | 19.2x        | 16.8x        |
|         | Knife River Corp              | 5,530            | 27.5x  | 23.4x  | 13.2x        | 11.8x        |
|         | Cemex Corp                    | 8,290            | 7.6x   | 4.4x   | 5.3x         | 5.2x         |
| Global  | Holcim                        | 58,020           | 15.6x  | 14.2x  | 9.6x         | 9.1x         |
|         | CRH                           | 67,750           | 18.2x  | 16.5x  | 11.7x        | 10.8x        |
|         | China National Building Mater | i 25,641         | 22.7x  | 9.3x   | 10.7x        | 9.4x         |
|         | Ultratech Cement              | 36,710           | 43.8x  | 32.0x  | 24.0x        | 18.5x        |
| Asia    | Asia Cement Corp              | 5,870            | 14.2x  | 13.2x  | 17.8x        | 17.5x        |
|         | ACC                           | 4,850            | 24.1x  | 18.3x  | 13.6x        | 9.1x         |
|         | ANHUI                         | 17,630           | 5.2x   | 4.7x   | 11.8x        | 10.2x        |
|         | Cementos Argos                | 2,579            | 19.0x  | 16.5x  | 8.2x         | 8.5x         |
| Latam   | GCC                           | 2,922            | 9.2x   | 9.6x   | 5.2x         | 5.1x         |
| Lataiii | UNACEM                        | 649              |        |        |              |              |
|         | Cementos Pacasmayo            | 579              | 9.8x   | 8.9x   | 6.4x         | 6.0x         |
|         | Median                        | 8,470            | 19.0x  | 16.5x  | 11.7x        | 9.7x         |
|         | Average                       | 19,882           | 21.1x  | 16.8x  | 12.5x        | 11.0x        |
|         | US Median                     | 22,125           | 30.7x  | 25.5x  | 16.2x        | 14.3x        |
|         | Global Median                 | 58,020           | 15.6x  | 14.2x  | 9.6x         | 9.1x         |
|         | Asia Median                   | 17,630           | 22.7x  | 13.2x  | 13.6x        | 10.2x        |
|         | Latam Median                  | 1,614            | 9.8x   | 9.6x   | 6.4x         | 6.0x         |



## **INVESTMENT THESIS #3 - RELATIVE VALUATION**

### LOWER VALUATION DESPITE A HIGHER LONGER TERM ROIC

