RESEARCH

Virtualware S.A.

ENXTPA: MLVIR - Buy €10 PT

Action Summary - 8 February 2024

Analyst Theodore R. O'Neill

- On January 24, 2024, MLVIR reported preliminary full year 2023 results showing annual growth of 40% and positive adjusted EBITDA compared to a loss the year before. We develop and publish our estimates by the half year and this report primarily focuses on results for 2H23.
- The company reported preliminary 2H23 results of €2.37MM and an EPS loss of €0.04. We had been looking for revenue of €2.6MM and EPS of €0.01. There is no consensus. The €0.04 unfavorable variance was due to lower sales and lower gross profit margins, partially offset by lower personal expenses. We will have better data when the audited results are reported, but we believe the reduced gross profit is due to the mix of lower margin evolv revenue, partially offset by higher VRSaaS sales.
- Penetrating new verticals. The increasing adoption of user immersion technology in industries, such as education, industrial training, and healthcare, among others, is driving market growth. It is currently fueled by training for roles like engineers, pilots, and healthcare workers. On January 30, 2024, it announced it had signed a partnership agreement with GE21 Realidade Virtual to expand into the mining and geoscience verticals.
- Adjusting our 2024 and 2025 estimates. We have lowered our 2024 revenue and EPS estimates to €5.1MM and €0.04, respectively, from revenue of €6.95MM and EPS of €0.08. For 2025, we have lowered our revenue and EPS estimates to €6.2MM and €0.07 from €9.6MM and €0.15, respectively.
- Attractive Valuation. Based on our discounted future earnings model, the value of all future earnings stands at €10/share.
- Shares have been trading on the Euronext Access since April and expect to uplist to Euronext Growth.

| 2/7 price: €7.20 | Market cap: €32.7 million | Multiple of book: 39x | Market Cap/2025 Sales: 5.1 |
|-----------------------------------|---------------------------|-------------------------------------|----------------------------|
| Diluted shares outstanding: 4.5MM | Insider ownership: >80% | 3-mo avg. daily trading volume: 400 | Dividend/Yield: NA/NA |

GAAP estimates (EPS in EUR – Revenue in EUR thousands)

| Period | EPS | Revenue | Op Margin |
|-------------------------|-----------------------------------|-----------------------------------|--------------|
| 1H22A 2H22A FY22A | N/A N/A <u>N/A</u> | €1,484 €1,735 <u>€3,219</u> | <u>0.88%</u> |
| 1H23A 2H23P FY23P | €0.04 (€0.04) € <u>0.01</u> | €2,148 €2.373 <u>€4,521</u> | <u>1.84%</u> |
| 1H24E 2H24E FY24E | €0.02 €0.02 <u>€0.04</u> | €2,400 €2,700 <u>€5,100</u> | <u>4.27%</u> |
| 1H25E 2H25E FY25E | €0.04 €0.04 <u>€0.07</u> | €2,900 €3,300 <u>€6,200</u> | <u>5.48%</u> |

Numbers may not total due to rounding. See the full model at the end of this report.

Cash balance (in EUR thousands)

| • | 2022A | • | €172 |
|---|-------|---|--------|
| • | 2023P | • | €1,075 |
| • | 2024E | • | € 346 |
| • | 2025E | • | € 286 |

Debt (in EUR thousands)

| • | 2022A | • €1,197 |
|---|-------|----------------------------|
| • | 2023P | €1,000 |
| • | 2024E | €1,000 |
| • | 2025E | • €1,000 |

Risks/Valuation

- · Risks: emerging technology, potentially competitive markets, regulatory risk, technological risk, foreign currency exchange risk
- Our €10 price target is derived from our discounted future earnings model.

Company description: Virtualware S.A. develops industrial virtual reality platforms for the nuclear, medical, educational, and defense industries in Spain and internationally. Founded in 2004, it has become the European leader in immersive technology for industrial use over time. Its flagship product, VIROO, offers VR as a Service, making Virtual Reality accessible to companies of all sizes and sectors. Additionally, Virtualware S.A. is involved in Evolv, a manufacturer of immersive tech-based medical rehabilitation devices.

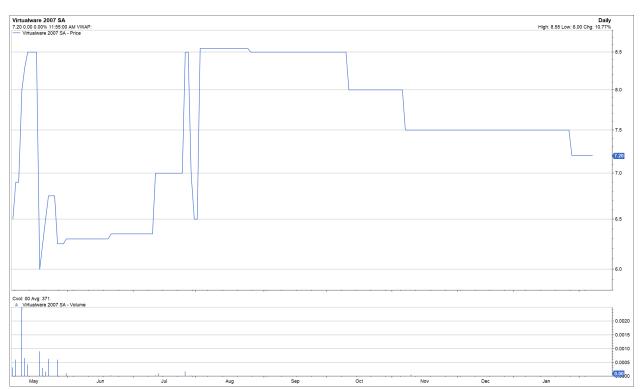


Figure 1 – Virtualware – Eight Month Trading snapshot

Source: FactSet

Quarterly Results

On January 24, 2024, MLVIR reported preliminary full year 2023 results. We develop and publish our estimates by the half year and the analysis in Figure 2 looks at results for 2H23.

The company reported preliminary 2H23 results of €2.37MM and an EPS loss of €0.04. We had been looking for revenue of €2.6MM and EPS of €0.01. There is no consensus. The €0.04 unfavorable variance was due to lower sales and lower gross profit margins, partially offset by lower personal expenses. We will have better data when the audited results are reported, but we believe the reduced gross profit is due to the mix of lower margin evolv revenue, partially offset by higher VRSaaS sales.

Figure 2 –Virtualware – 2H23 Variance Analysis (\$000)

| | 2023 | 2023 | Better/(worse) |
|--|------------------|------------------|------------------|
| <u>-</u> | H2E | H2A | than forecast |
| Business Total Revenue | 2,600,000 | 2,373,382 | (226,618) |
| Changes in inventories of finished goods and WIP | 100,000 | (168,698) | (268,698) |
| Work carried out by the company for its assets | 185,000 | 232,913 | 47,913 |
| Costs of Goods Sold | (540,000) | (694,026) | (154,026) |
| Gross Profit | 2,345,000 | <u>1,743,571</u> | <u>(601,429)</u> |
| Other Operating Revenues | 220,000 | 225,708 | 5,708 |
| Personnel Expenses | (1,750,000) | (1,298,464) | 451,536 |
| Other Operating Expenses | (615,000) | (635,571) | (20,571) |
| Fixed Assets Depreciation and Amortization | (150,000) | (145,148) | 4,852 |
| Grants to non-financial assets and others allocation | 20,000 | 21,605 | 1,605 |
| Impairment gains/losses on disposal of NCA | | (22,745) | (22,745) |
| Other Results | | (27,252) | (27,252) |
| Operating Income | 70,000 | (138,296) | (208,296) |
| Financial revenues/(expenses) | (30,000) | (7,475) | 22,525 |
| Impairment gains/losses on disposal of financial instruments | | , | |
| Income Before Tax | 40,000 | (145,771) | (185,771) |
| Income Tax | <u> </u> | (15,000) | (15,000) |
| Net Income | 40,000 | (160,771) | (200,771) |
| Number of shares | 4,542,000 | 4,542,000 | |
| EPS | € 0.01 | (€ 0.04) | (€ 0.04) |

Source: Company filings and Litchfield Hills Research LLC

Valuation and Price Target

Valuation Methodology

We believe MILVR is undervalued and we support that belief with two valuation techniques. To determine our price target, we use a discounted future earnings model, which we then compare its valuation relative to peers. The following valuation techniques are being used:

- 1) The discounted value of all future earnings was used for our price target (see Figure 3)
- 2) Valuation relative to peers (see Figure 4)

Discounted Future Earnings - Basis for Price Target

Our 12-month price target of €10 is based on a discounted earnings model. For valuation purposes, we sum up all future earnings and discount them by 9%. We assume the company grows rapidly until 2029 before growth eventually slows to GDP. Our valuation model is shown in Figure 3 below. Note, this model understates future new products and growth through acquisitions and probably understates the tax benefits, but offsetting that, the earnings never have a down year. The implied share price is €9.63, which we round to €10.

Figure 3 - Virtualware - Price Target Calculation

| Implied Value of Future | | | | | | | | |
|-------------------------|----------------|------------|--|--|--|--|--|--|
| Discounte | € 9.63 | | | | | | | |
| Year 0 is 2 | Year 0 is 2023 | | | | | | | |
| | | Discounted | | | | | | |
| Year | Forecast EPS | EPS | | | | | | |
| 0 | € 0.01 | € 0.01 | | | | | | |
| 1 | € 0.04 | € 0.04 | | | | | | |
| 2 | € 0.07 | € 0.06 | | | | | | |
| 3 | € 0.20 | € 0.15 | | | | | | |
| 4 | € 0.50 | € 0.35 | | | | | | |
| 5 | € 0.70 | € 0.45 | | | | | | |
| Terminal | | | | | | | | |
| Value | | € 8.56 | | | | | | |

Source: Litchfield Hills Research LLC

Valuation Relative to Peers

Figure 4 is a summary of our MILVR peer comparison. The average Market Cap/Sales for 2024 is ~4.00x and ranges from a low of 0.48 to a high of 6.94x and we would argue the shares should trade at the high end of the range. At the current price, and if these multiples hold into 2025 (currently, there are almost no 2025 estimates for this group) its 2025 Market Cap to sales would be 5.25, which is below the 75th percentile. At our € 10.00 price target, its 2025 market cap to sales would be 7.32x and would define the high end of the range, but not by much. All of this broadly confirms our view that, along with our discounted earnings model, the shares are undervalued.



Figure 4 – Virtualware – Valuation of Peers

| FactSet Ticker | Company Name | Closing Price USD | Market Cap USD \$MM | EV USD \$MM | LTM Sales USD \$MM | Market Cap / LTM Sales | |
|-------------------|--------------------------|----------------------|------------------------|----------------|-----------------------|---------------------------|------|
| MTTR-US | Matterport, Inc. Class A | \$2.25 | 688 | 276 | 159 | 4.32 | 3.87 |
| VUZI-US | Vuzix Corporation | \$1.66 | 105 | 68 | 14 | 7.53 | 6.94 |
| KOPN-US | Kopin Corporation | \$2.31 | 264 | 236 | 44 | 6.01 | 5.58 |
| TOBII-SE | Tobii AB | \$0.41 | 43 | 28 | 71 | 0.60 | 0.48 |
| IMMR-US | Immersion Corporation | \$6.88 | 219 | 75 | 33 | 6.70 | 6.81 |
| VRAR-US | Glimpse Group, Inc. | \$1.21 | 20 | 15 | 13 | 1.60 | 1.53 |
| EXR-GB | Engage XR Holdings PLC | \$0.04 | 22 | 8 | 4 | 4.96 | 2.77 |
| | Average | Э | | | | 4.53 | 4.00 |
| | Higi | h | | | | 7.53 | 6.94 |
| | Lov | | | | | 0.60 | 0.48 |
| | 25th Percentile | е | | | | 1.60 | 1.53 |
| | 75th Percentile | е | | | | 6.35 | 6.19 |

Source: Litchfield Hills Research LLC and FactSet

Financial Projections and Guidance

The company does not provide guidance. We have sought to make our estimates conservative, but it is hard to model a rapidly changing market as the company continues to execute its expansion plans into new markets and with new customers. We assume there will be some share growth though share compensation and we expect there will be demand for working capital as the company grows and we have factored that into our balance sheet and cash flow calculations.

Figure 5 – Virtualware – Income Statement EUR €

| | H1A | H2A | FY2022A | H1A | H2 Preliminary | FY2023P | H1E | H2E | FY2024E | H1E | H2E | FY2025E |
|--|----------------|---------------|--------------|---------------|----------------|--------------|-------------|-------------|-------------|--------------|-------------|--------------|
| Business Total Revenue | 1,484,378 | 1,734,997 | 3,219,375 | 2,148,018 | 2,373,382 | 4,521,400 | 2,400,000 | 2,700,000 | 5,100,000 | 2,900,000 | 3,300,000 | 6,200,000 |
| Changes in inventories of finished goods and WIP | (28,243) | (151,089) | (179,332) | 181,698 | (168,698) | 13,000 | 5,000 | 5,000 | 10,000 | 10,000 | 10,000 | 20,000 |
| Work carried out by the company for its assets | 313,984 | 324,922 | 638,906 | 241,174 | 232,913 | 474,087 | 225,000 | 225,000 | 450,000 | 275,000 | 275,000 | 550,000 |
| Costs of Goods Sold | (422,299) | (346,243) | (768, 542) | (452,601) | (694,026) | (1,146,627) | (888,000) | (999,000) | (1,887,000) | (1,044,000) | (1,188,000) | (2,232,000) |
| Gross Profit | 1,347,820 | 1,562,587 | 2,910,407 | 2,118,289 | 1,743,571 | 3,861,860 | 1,742,000 | 1,931,000 | 3,673,000 | 2,141,000 | 2,397,000 | 4,538,000 |
| Unadjusted Gross Profit Margin % | <u>75%</u> | <u>76%</u> | <u>75%</u> | <u>89%</u> | <u>67%</u> | <u>77%</u> | <u>66%</u> | 66% | <u>66%</u> | <u>67%</u> | 67% | <u>67%</u> |
| Other Operating Revenues | 153,202 | 388,635 | 541,837 | 181,220 | 225,708 | 406,928 | 265,000 | 310,000 | 575,000 | 380,000 | 420,000 | 800,000 |
| Personnel Expenses | (1,164,799) | (1,281,117) | (2,445,916) | (1,445,304) | (1,298,464) | (2,743,768) | (1,350,000) | (1,500,000) | (2,850,000) | (1,700,000) | (2,000,000) | (3,700,000) |
| Other Operating Expenses | (375,240) | (344,912) | (720,152) | (508,479) | (635,571) | (1,144,050) | (400,000) | (500,000) | (900,000) | (500,000) | (500,000) | (1,000,000) |
| Fixed Assets Depreciation and Amortization | (144,173) | (155,027) | (299,200) | (126,852) | (145,148) | (272,000) | (140,000) | (140,000) | (280,000) | (140,000) | (140,000) | (280,000) |
| Grants to non-financial assets and others allocation | 59,533 | - | 59,533 | 21,605 | 21,605 | 43,210 | - | - | - | - | - | - |
| Impairment gains/losses on disposal of NCA | - | - | - | (19,079) | (22,745) | (41,824) | - | - | - | - | - | - |
| Other Results | - | (18,324) | (18,324) | - | (27,252) | (27,252) | - | - | - | - | - | - |
| Operating Income | (123,657) | 151,842 | 28,185 | 221,400 | (138,296) | 83,104 | 117,000 | 101,000 | 218,000 | 181,000 | 177,000 | 358,000 |
| Operating Margin % | <u>-8.33%</u> | <u>8.75%</u> | <u>0.88%</u> | <u>10.31%</u> | <u>-5.83%</u> | <u>1.84%</u> | 4.88% | 3.74% | 4.27% | 6.24% | 5.36% | <u>5.77%</u> |
| Financial revenues/(expenses) | (83,082) | (32,916) | (115,998) | (24,386) | (7,475) | (31,861) | (9,000) | (9,000) | (18,000) | (9,000) | (9,000) | (18,000) |
| Income Before Tax | (206,739) | 118,926 | (87,813) | 197,014 | (145,771) | 51,243 | 108,000 | 92,000 | 200,000 | 172,000 | 168,000 | 340,000 |
| Income Tax | - | 525,933 | 525,933 | - | (15,000) | (15,000) | - | - | | - | - | |
| Net Income | (206,739) | 644,859 | 438,120 | 197,014 | (160,771) | 36,243 | 108,000 | 92,000 | 200,000 | 172,000 | 168,000 | 340,000 |
| Net Margin % | <u>-13.93%</u> | <u>37.17%</u> | 13.61% | 9.17% | <u>-6.77%</u> | 0.80% | 4.50% | 3.41% | 3.92% | <u>5.93%</u> | 5.09% | <u>5.48%</u> |
| EPS | (€ 0.05) | € 0.14 | € 0.10 | € 0.04 | € (0.04) | € 0.01 | € 0.02 | € 0.02 | € 0.04 | € 0.04 | € 0.04 | € 0.07 |
| Number of shares | 4,542,000 | 4,542,000 | 4,542,000 | 4,542,000 | 4,542,000 | 4,542,000 | 4,600,000 | 4,700,000 | 4,700,000 | 4,800,000 | 4,800,000 | 4,800,000 |

Source: Company reports and Litchfield Hills Research LLC

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Figure 6 - Virtualware - Balance Sheet EUR €

| | FY2021A | FY2022A | FY2023P | FY2024E | FY2025E |
|--|-----------|-----------|-----------|-----------|-----------|
| Cash and Equivalents | 502,144 | 172,164 | 1,075,950 | 345,950 | 285,950 |
| Accruals | 2,578 | 1,815 | 2,000 | 2,000 | 2,000 |
| Short-term financial investments | 283,434 | 398,726 | 400,000 | 400,000 | 400,000 |
| Short-term investments in group companies and associal | 21,610 | - | _ | - | _ |
| Account Receivables and others | 2,757,026 | 1,203,148 | 1,200,000 | 1,300,000 | 1,500,000 |
| Inventories | 210,241 | 136,780 | 150,000 | 150,000 | 150,000 |
| Current Assets | 3,777,033 | 1,912,633 | 2,827,950 | 2,197,950 | 2,237,950 |
| Assets by deferred tax | 1,592,634 | 2,120,730 | 1,900,000 | 1,600,000 | 870,000 |
| Long-term financial investments | 130,867 | 64,367 | 60,000 | 60,000 | 60,000 |
| Long-term investments in group companies and associat | - | 35,297 | 35,297 | 35,297 | 35,297 |
| Property, plant and equipment | 89,014 | 92,621 | 92,621 | 92,621 | 92,621 |
| Intangible Assets | 989,234 | 1,410,187 | 1,500,000 | 1,600,000 | 2,000,000 |
| Non-Current Assets | 2,801,749 | 3,723,202 | 2,557,918 | 3,387,918 | 4,087,918 |
| Total Assets | 6,578,782 | 5,635,835 | 5,385,868 | 5,585,868 | 6,325,868 |
| | | | | | |
| Short Term Accruals | | 508,181 | 500,000 | 500,000 | 500,000 |
| Account Payables and others | 2,850,411 | 1,392,269 | 1,400,000 | 1,400,000 | 1,400,000 |
| Short Term Debt | 1,502,618 | 1,040,207 | 1,000,000 | 1,000,000 | 1,000,000 |
| Current Liabilities | 4,353,029 | 2,940,657 | 2,900,000 | 2,900,000 | 3,300,000 |
| Long Term Accruals | | 664,201 | 650,000 | 650,000 | 650,000 |
| Liabilities by deferred tax | 16,645 | 8,639 | - | - | - |
| Long Term Debt | 1,720,704 | 1,196,719 | 1,000,000 | 1,000,000 | 1,000,000 |
| Non Current Liabilities | 1,737,349 | 1,869,559 | 1,650,000 | 1,650,000 | 1,650,000 |
| Share Capital | 409,402 | 799,625 | 835,868 | 1,035,868 | 1,375,868 |
| Capital | 158,970 | 158,970 | 158,970 | 158,970 | 158,970 |
| Reserves and Retained earnings | 250,432 | 640,655 | 676,898 | 876,898 | 1,216,898 |
| Grants, donations and legacies received | 67,254 | 35,227 | - | - | - |
| External partners | 11,748 | (9,233) | - | - | - |
| Dividend Distributed - | | | | | |
| Equity | 488,404 | 825,619 | 835,868 | 1,035,868 | 1,375,868 |
| Total Equity And Liabilities | 6,578,782 | 5,635,835 | 5,385,868 | 5,585,868 | 6,325,868 |

Source: Company reports and Litchfield Hills Research LLC

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Figure 7 – Virtualware – Cash Flow EUR €

Source: Litchfield Hills Research LLC

Disclosures:

Analyst Certification

We, the Litchfield Hills Research Department, hereby certify that the views expressed in this research report accurately reflect our personal views about the subject company and the underlying securities.

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BUY: We expect the stock to provide a total return of 15% or more within a 12-month period.

HOLD: We expect the stock to provide a total return of negative 15% to positive 15% within a 12-month period.

SELL: We expect the stock to have a negative total return of more than 15% within a 12-month period.

Total return is defined as price appreciation plus dividend yield.

Other Disclosures



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