

Strong production figures for Q1

Endomines reported strong production figures for Pampalo as the production increased 215% y/y during Q1 2023. In our view, the company is making good progress in alignment with its revised strategy and the favorable development is further supported by the current strong gold market.

Pampalo production increased 215% year-on-year

Endomines released an operational update for Q1 2023 that included updated gold production figures for Pampalo. The company was able to produce 3588 ounces of gold during Q1 2023 which was 215% higher when comparing to last year (1137 ounces in Q1 2022). In addition to strong production figures, the company's drilling program in the Karelian gold line developed according to plans during the first quarter. Endomines has completed roughly half of the planned drilling in the Korvilansuo area, and the results are expected to be published in April-July.

We increase our production estimate for H1 2023

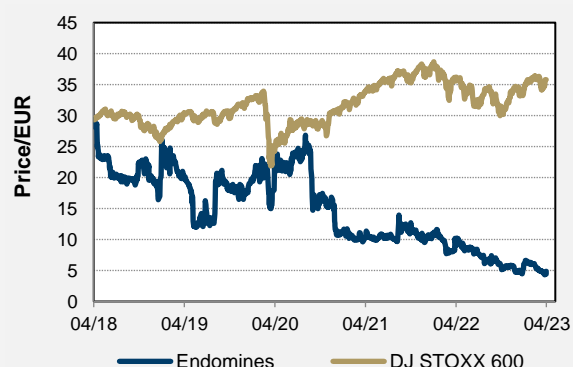
We increase our H1 2023 production estimate to 6893 ounces (5817 ounces) driven by the strong production figures for Q1. Endomines expects production increase of 35-55% for FY 2023 when comparing to FY 2022, our current production estimate is at the top end of the guidance range. There is further upside to our production estimate if the company can maintain the rate of production achieved in Q1 over the upcoming quarters. We also increase our profitability estimate for 2023 driven by the increased volumes in the first half and overall improved profitability for the full year due to the combination of lower energy prices and higher gold prices in relation to 2022.

BUY with a target price of EUR 6.5

Our view of the company remains unchanged, Endomines is implementing its strategy effectively in Finland and is benefitting from the strong gold market. However, we continue to see risks associated with the value realization of the company's asset portfolio in the United States. In addition, there is limited visibility regarding the company's exploration activities and the future Pampalo production. Due to the existing uncertainties, we base our valuation on the lower end of our SOTP-based valuation range. We retain our BUY-rating and TP of EUR 6.5.

Rating

+ BUY



Share price, EUR (Last trading day's closing price) 4.86

Target price, EUR 6.5

Latest change in recommendation	06-Mar-23
Latest report on company	06-Mar-23
Research paid by issuer:	YES
No. of shares outstanding, '000's	9,449
No. of shares fully diluted, '000's	9,449
Market cap, EURm	46
Free float, %	86.3
Exchange rate EUR	1.000
Reuters code	ENDOM.HE
Bloomberg code	ENDOM FH
Average daily volume, EURm	0.2
Next interim report	17-Aug-23
Web site	endomines.com/investors

Analyst Atte Jortikka
E-mail atte.jortikka@evli.com
Telephone +358 400 543 725

+ BUY + HOLD - SELL

KEY FIGURES

	Sales EURm	EBIT EURm	EBIT %	FCF EURm	EPS EUR	P/E (x)	EV/Sales (x)	EV/EBIT (x)	FCF yield %	DPS EUR
2021	0.5	-25.1	-5,102.0%	-16.6	-4.73	-2.1	144.2	-2.8	-29.4	0.00
2022	13.5	-15.5	-114.8%	-8.0	-1.92	-2.6	4.0	-3.5	-17.1	0.00
2023E	20.9	-3.6	-17.3%	-0.2	-0.51	-9.5	2.5	-14.6	-0.4	0.00
2024E	18.1	-2.2	-12.4%	2.8	-0.34	-14.5	2.8	-22.3	6.1	0.00
2025E	15.4	-3.2	-20.5%	2.1	-0.33	-14.5	3.1	-15.2	4.6	0.00

Market cap, EURm	46	Gearing 2023E, %	22.5	CAGR EPS 2022-25, %	-44.1
Net debt 2023E, EURm	7	Price/book 2023E	1.5	CAGR sales 2022-25, %	4.5
Enterprise value, EURm	53	Dividend yield 2023E, %	0.0	ROE 2023E, %	-14.4
Total assets 2023E, EURm	50	Tax rate 2023E, %	0.0	ROCE 2023E, %	-8.4
Goodwill 2023E, EURm	0	Equity ratio 2023E, %	62.2	PEG, P/E 23/CAGR	0.1

All the important disclosures can be found on the last pages of this report

Table 1: Sum of the parts valuation, in EUR m

	Evli est.	Gold spot	Estimate basis
US assets	49	56	In-situ & purchase price analysis
Pampalo	20	26	DCF LOM 3 years + LOM increase option value
Karelian gold line	6	11	Real option value for Karelian gold line satellite deposits
Overhead	(10)	(10)	Discounted overhead costs
Net cash	(6)	(6)	12/2022 adjusted with recent known transactions
Total	60	76	
Per share	6.3	8.0	

Long-term gold price (USD/Oz)	1 750		Evli
Spot price (USD/oz)		1 980	
Shares (m)	9.5	9.5	

Source: Evli Research

Table 2: Estimate summary

Endomines (EURm)	2021	H1/'22	H2/'22	2022	H1/'23E	H2/'23E	2023E	2024E	2025E
Net sales	0.5	5.6	7.9	13.5	10.8	10.1	20.9	18.1	15.4
sales growth %	-96.3%	>100%	61.2%	>100%	92.8%	27.7%	54.7%	-13.3%	-14.8%
EBITDA	-11.6	-3.5	-3.0	-6.4	1.2	1.9	3.1	3.9	2.1
EBIT	-25.1	-10.1	-5.4	-15.5	-2.2	-1.4	-3.6	-2.2	-3.2
EBIT margin	<-100%	<-100%	<-100%	-114.8%	-77.9%	-74.3%	-17.3%	-12.4%	-20.5%
Gold production (Oz)	460	3 478	5 123	8 601	6 893	6 481	13 375	12 239	10 546
Finland	2021	H1/'22	H2/'22	2022	H1/'23E	H2/'23E	2023E	2024E	2025E
Net sales	0.0	5.6	7.5	13.1	10.8	10.1	20.9	18.1	15.4
Gold production (Oz)	0	3 478	5 123	8601	6 893	6 481	13375	12239	10546
United States	2021	H1/'22	H2/'22	2022	H1/'23E	H2/'23E	2023E	2024E	2025E
Net sales	6.7	0.0	0.4	0.4	0.0	0.0	0.0	0.0	0.0
Gold production (Oz)	460	0	0	0	0	0	0	0	0
Assumptions	2021	H1/'22	H2/'22	2022	H1/'23E	H2/'23E	2023E	2024E	2025E
Gold price USD/Oz	1799	1874	1722	1798	1867	1873	1870	1805	1800
Gold price EUR/Oz	1521	1712	1649	1681	1720	1710	1715	1626	1607
EUR/USD	1.14	1.10	1.05	1.07	1.09	1.09	1.09	1.11	1.12

Source: Endomines, Evli Research

INTERIM FIGURES

EVLI ESTIMATES, EURm	2022Q1	2022Q2	2022Q3	2022Q4	2022	2023Q1E	2023Q2E	2023Q3E	2023Q4E	2023E	2024E	2025E
Net sales	0.0	5.6	-5.6	13.5	13.5	0.0	10.8	0.0	10.1	20.9	18.1	15.4
EBITDA	0.0	-3.6	3.6	-6.4	-6.4	0.0	1.2	0.0	1.9	3.1	3.9	2.1
<i>EBITDA margin (%)</i>	<i>0.0</i>	<i>-64.4</i>	<i>-64.4</i>	<i>-47.4</i>	<i>-47.4</i>	<i>0.0</i>	<i>11.2</i>	<i>0.0</i>	<i>18.4</i>	<i>14.7</i>	<i>21.4</i>	<i>13.7</i>
EBIT	0.0	-10.2	10.2	-15.5	-15.5	0.0	-2.2	0.0	-1.4	-3.6	-2.2	-3.2
<i>EBIT margin (%)</i>	<i>0.0</i>	<i>-181.3</i>	<i>-181.3</i>	<i>-114.8</i>	<i>-114.8</i>	<i>0.0</i>	<i>-20.7</i>	<i>0.0</i>	<i>-13.7</i>	<i>-17.3</i>	<i>-12.4</i>	<i>-20.5</i>
Net financial items	0.0	5.1	-5.1	-2.4	-2.4	0.0	-0.6	0.0	-0.6	-1.2	-0.9	0.0
Pre-tax profit	0.0	-5.1	5.1	-17.9	-17.9	0.0	-2.8	0.0	-2.0	-4.8	-3.2	-3.2
Tax	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>Tax rate (%)</i>	<i>0.0</i>	<i>0.3</i>	<i>0.4</i>	<i>-0.1</i>	<i>-0.2</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>
Net profit	0.0	-5.1	5.1	-17.9	-17.9	0.0	-2.8	0.0	-2.0	-4.8	-3.2	-3.2
EPS	0.00	-0.54	0.54	-1.91	-1.92	0.00	-0.30	0.00	-0.21	-0.51	-0.34	-0.33
EPS adjusted (diluted no. of shares)	0.00	-0.54	0.54	-1.91	-1.92	0.00	-0.30	0.00	-0.21	-0.51	-0.34	-0.33
Dividend per share	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SALES, EURm												
Endomines	0.0	5.6	-5.6	13.5	13.5	0.0	10.8	0.0	10.1	20.9	18.1	15.4
Total	0.0	5.6	-5.6	13.5	13.5	0.0	10.8	0.0	10.1	20.9	18.1	15.4
SALES GROWTH, Y/Y %												
Endomines	<i>0.0</i>	<i>57,045.8</i>	<i>57,043.8</i>	<i>2,643.3</i>	<i>2,643.4</i>	<i>0.0</i>	<i>91.4</i>	<i>-100.0</i>	<i>-25.3</i>	<i>54.7</i>	<i>-13.3</i>	<i>-14.8</i>
Total	<i>0.0</i>	<i>57,036.7</i>	<i>57,016.5</i>	<i>2,642.8</i>	<i>2,643.4</i>	<i>0.0</i>	<i>91.4</i>	<i>-100.0</i>	<i>-25.3</i>	<i>54.7</i>	<i>-13.3</i>	<i>-14.8</i>
EBIT, EURm												
Endomines	0.0	-10.2	10.2	-15.5	-15.5	0.0	-2.2	0.0	-1.4	-3.6	-2.2	-3.2
Total	0.0	-10.2	10.2	-15.5	-15.5	0.0	-2.2	0.0	-1.4	-3.6	-2.2	-3.2
EBIT margin, %												
Endomines	<i>0.0</i>	<i>-181.2</i>	<i>-181.2</i>	<i>-114.8</i>	<i>-114.8</i>	<i>0.0</i>	<i>-20.7</i>	<i>0.0</i>	<i>-13.7</i>	<i>-17.3</i>	<i>-12.4</i>	<i>-20.5</i>
Total	<i>0.0</i>	<i>-181.3</i>	<i>-181.3</i>	<i>-114.8</i>	<i>-114.8</i>	<i>0.0</i>	<i>-20.7</i>	<i>0.0</i>	<i>-13.7</i>	<i>-17.3</i>	<i>-12.4</i>	<i>-20.5</i>

INCOME STATEMENT, EURm	2018	2019	2020	2021	2022	2023E	2024E	2025E
Sales	10.1	0.5	1.3	0.5	13.5	20.9	18.1	15.4
<i>Sales growth (%)</i>	<i>-20.5</i>	<i>-94.6</i>	<i>134.3</i>	<i>-61.4</i>	<i>2,643.4</i>	<i>54.7</i>	<i>-13.3</i>	<i>-14.8</i>
EBITDA	-0.5	-4.6	-10.5	-11.6	-6.4	3.1	3.9	2.1
<i>EBITDA margin (%)</i>	<i>-5.3</i>	<i>-841.1</i>	<i>-824.5</i>	<i>-2,362.0</i>	<i>-47.4</i>	<i>14.7</i>	<i>21.4</i>	<i>13.7</i>
Depreciation	-4.2	-0.3	-7.5	-13.5	-9.1	-6.7	-6.1	-5.3
EBITA	-4.7	-4.9	-18.0	-25.1	-15.5	-3.6	-2.2	-3.2
Goodwill amortization / writedown	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBIT	-4.7	-4.9	-18.0	-25.1	-15.5	-3.6	-2.2	-3.2
<i>EBIT margin (%)</i>	<i>-46.6</i>	<i>-903.4</i>	<i>-1,410.0</i>	<i>-5,102.0</i>	<i>-114.8</i>	<i>-17.3</i>	<i>-12.4</i>	<i>-20.5</i>
Reported EBIT	-4.7	-4.9	-18.0	-25.1	-15.5	-3.6	-2.2	-3.2
<i>EBIT margin (reported) (%)</i>	<i>-46.6</i>	<i>-903.4</i>	<i>-1,410.0</i>	<i>-5,102.0</i>	<i>-114.8</i>	<i>-17.3</i>	<i>-12.4</i>	<i>-20.5</i>
Net financials	1.1	-0.7	-1.2	-1.6	-2.4	-1.2	-0.9	0.0
Pre-tax profit	-3.6	-5.6	-19.2	-26.7	-17.9	-4.8	-3.2	-3.2
Taxes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Minority shares	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net profit	-3.6	-5.6	-19.2	-26.7	-17.9	-4.8	-3.2	-3.2
Cash NRIs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non-cash NRIs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
BALANCE SHEET, EURm								
Assets								
Fixed assets	47	55	57	51	49	44	40	35
Goodwill	0	0	0	0	0	0	0	0
Right of use assets	0	0	0	0	0	0	0	0
Inventory	0	0	0	1	0	1	1	0
Receivables	0	0	0	2	2	3	3	2
Liquid funds	2	2	1	1	4	2	2	2
Total assets	49	56	58	55	55	50	45	40
Liabilities								
Shareholder's equity	25	32	33	30	36	31	28	25
Minority interest	0	0	0	0	0	0	0	0
Convertibles	17	17	0	0	0	0	0	0
Lease liabilities	0	0	0	0	0	0	0	0
Deferred taxes	0	0	0	0	0	0	0	0
Interest bearing debt	4	4	15	16	11	9	6	4
Non-interest bearing current liabilities	0	0	0	0	0	0	0	0
Other interest-free debt	4	3	10	9	9	10	11	11
Total liabilities	49	56	58	55	55	50	45	40
CASH FLOW, EURm								
+ EBITDA	-1	-5	-11	-12	-6	3	4	2
- Net financial items	1	-1	-1	-2	-2	-1	-1	0
- Taxes	0	0	0	0	0	0	0	0
- Increase in Net Working Capital	1	-1	0	0	3	0	2	0
+/- Other	-2	-2	4	1	1	0	0	0
= Cash flow from operations	-1	-7	-7	-12	-4	2	5	3
- Capex	-10	-8	-3	-5	-4	-2	-2	0
- Acquisitions	-6	0	0	0	0	0	0	0
+ Divestments	0	0	0	0	0	0	0	0
= Free cash flow	-16	-15	-10	-17	-8	0	3	2
+/- New issues/buybacks	24	13	20	24	24	0	0	0
- Paid dividend	0	0	0	0	0	0	0	0
+/- Other	-7	2	-11	-7	-13	-1	-3	-2
Change in cash	0	0	0	0	3	-2	0	0

KEY FIGURES	2019	2020	2021	2022	2023E	2024E	2025E
M-cap	42	35	57	47	46	46	46
Net debt (excl. convertibles)	3	14	14	7	7	4	2
Enterprise value	62	49	71	54	53	50	48
Sales	1	1	0	14	21	18	15
EBITDA	-5	-11	-12	-6	3	4	2
EBIT	-5	-18	-25	-15	-4	-2	-3
Pre-tax	-6	-19	-27	-18	-5	-3	-3
Earnings	-6	-19	-27	-18	-5	-3	-3
Equity book value (excl. minorities)	32	33	30	36	31	28	25
Valuation multiples							
EV/sales	113.7	38.5	144.2	4.0	2.5	2.8	3.1
EV/EBITDA	-13.5	-4.7	-6.1	-8.4	17.3	12.9	22.7
EV/EBITA	-12.6	-2.7	-2.8	-3.5	-14.6	-22.3	-15.2
EV/EBIT	-12.6	-2.7	-2.8	-3.5	-14.6	-22.3	-15.2
EV/OCF	-8.3	-6.7	-6.1	-13.1	28.5	10.4	18.5
EV/FCFF	-4.3	-5.7	-4.7	-9.6	52.4	13.5	23.0
P/FCFE	-0.1	-0.1	-0.1	-5.9	-240.8	16.4	22.0
P/E	-7.5	-1.8	-2.1	-2.6	-9.5	-14.5	-14.5
P/B	1.3	1.1	1.9	1.3	1.5	1.6	1.9
Target EV/EBITDA	0.0	0.0	0.0	0.0	22.3	16.9	30.1
Target EV/EBIT	0.0	0.0	0.0	0.0	-18.9	-29.2	-20.1
Target EV/FCF	0.0	0.0	0.0	0.0	-358.7	23.5	30.4
Target P/B	0.0	0.0	0.0	0.0	2.0	2.2	2.5
Target P/E	0.0	0.0	0.0	0.0	-12.7	-19.4	-19.4
Per share measures							
Number of shares	1,999	3,283	5,645	9,370	9,449	9,449	9,449
Number of shares (diluted)	1,999	3,283	5,645	9,370	9,449	9,449	9,449
EPS	-2.82	-5.84	-4.73	-1.92	-0.51	-0.34	-0.33
Operating cash flow per share	-3.73	-2.23	-2.07	-0.44	0.20	0.51	0.27
Free cash flow per share	-7.53	-3.01	-2.95	-0.85	-0.02	0.30	0.22
Book value per share	16.03	10.03	5.34	3.83	3.29	2.95	2.62
Dividend per share	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dividend payout ratio, %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dividend yield, %	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FCF yield, %	-35.6	-28.2	-29.4	-17.1	-0.4	6.1	4.6
Efficiency measures							
ROE	-19.9	-59.0	-84.6	-54.3	-14.4	-10.8	-12.0
ROCE	-10.0	-35.5	-53.4	-33.6	-8.4	-6.1	-10.1
Financial ratios							
Inventories as % of sales	0.6	19.2	162.0	3.0	3.0	3.0	3.0
Receivables as % of sales	23.2	25.9	360.9	14.8	14.8	14.8	14.8
Non-interest bearing liabilities as % of sales	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NWC/sales, %	-315.3	-466.5	-1,062.8	-30.4	-19.6	-33.0	-41.9
Operative CAPEX/sales, %	1,422.9	198.5	1,001.1	28.9	9.8	11.3	3.2
CAPEX/sales (incl. acquisitions), %	1,422.9	198.5	1,001.1	28.9	9.8	11.3	3.2
FCFF/EBITDA	3.1	0.8	1.3	0.9	0.3	1.0	1.0
Net debt/EBITDA, book-weighted	-0.6	-1.3	-1.2	-1.1	2.3	1.1	1.0
Debt/equity, market-weighted	0.1	0.4	0.3	0.2	0.2	0.1	0.1
Equity ratio, book-weighted	86.7	56.5	54.8	65.4	62.2	61.9	62.5
Gearing, %	6.0	43.1	47.9	18.9	22.5	15.0	8.5

COMPANY DESCRIPTION: Endomines engages in exploration, mining, and extraction of gold deposits. Its sites are found in Eastern Finland along the Karelian Gold line and in Idaho, USA. The company was founded in 2005 and is headquartered in Stockholm, Sweden. Endomines focuses its operations to assets in stable jurisdictions that can be brought to production rapidly and with limited investment.

INVESTMENT CASE: Endomines new strategy focuses on development of the company's Finnish assets, the US assets are developed through partnership models. The company has proceeded well with reinitiating production at the Pampalo site, Endomines produced 8 601 ounces of gold during 2022. The company's focus in the near term is on Pampalo underground and East open pit production and on gold exploration activities in Karelian gold line.

OWNERSHIP STRUCTURE	SHARES	EURm	%
Joensuun Kauppa ja Kone	1,763,013	8.568	18.7%
Clearstream Banking S.A.	783,264	3.807	8.3%
Mariatorp Oy	771,875	3.751	8.2%
Wipunen Varainhallinta Oy	771,875	3.751	8.2%
Skandinaviska Enskilda Banken	520,063	2.528	5.5%
K22 Finance Oy	346,029	1.682	3.7%
Taloustieto Incrementum Oy	317,159	1.541	3.4%
Transatlantic Mining Corporation	207,541	1.009	2.2%
Vakuutusosakeyhtiö Henki-Fennia	196,657	0.956	2.1%
Eyemaker's Finland Oy	180,552	0.877	1.9%
Ten largest	5,858,028	28.470	62%
Residual	3,591,374	17.454	38%
Total	9,449,402	45.924	100%

EARNINGS CALENDAR

August 17, 2023

Q2 report

OTHER EVENTS**COMPANY MISCELLANEOUS**

CEO: Kari Vyhtinen

Ahventie 4 A, FI-02170 Espoo

CFO: Mikko Sopanen

Tel:

IR:

DEFINITIONS

P/E	$\frac{\text{Price per share}}{\text{Earnings per share}}$	EPS	$\frac{\text{Profit before extraord. items and taxes} - \text{income taxes} + \text{minority interest}}{\text{Number of shares}}$
P/BV	$\frac{\text{Price per share}}{\text{Shareholders' equity} + \text{taxed provisions per share}}$	DPS	Dividend for the financial period per share
Market cap	Price per share * Number of shares	OCF (Operating cash flow)	EBITDA – Net financial items – Taxes – Increase in working capital – Cash NRIs ± Other adjustments
EV (Enterprise value)	Market cap + net debt + minority interest at market value – share of associated companies at market value	FCF (Free cash flow)	Operating cash flow – operative CAPEX – acquisitions + divestments
EV/Sales	$\frac{\text{Enterprise value}}{\text{Sales}}$	FCF yield, %	$\frac{\text{Free cash flow}}{\text{Market cap}}$
EV/EBITDA	$\frac{\text{Enterprise value}}{\text{Earnings before interest, tax, depreciation and amortization}}$	Operative CAPEX/sales	$\frac{\text{Capital expenditure} - \text{divestments} - \text{acquisitions}}{\text{Sales}}$
EV/EBIT	$\frac{\text{Enterprise value}}{\text{Operating profit}}$	Net working capital	Current assets – current liabilities
Net debt	Interest bearing debt – financial assets	Capital employed/Share	$\frac{\text{Total assets} - \text{non-interest bearing debt}}{\text{Number of shares}}$
Total assets	Balance sheet total	Gearing	$\frac{\text{Net debt}}{\text{Equity}}$
Div yield, %	$\frac{\text{Dividend per share}}{\text{Price per share}}$	Debt/Equity, %	$\frac{\text{Interest bearing debt}}{\text{Shareholders' equity} + \text{minority interest} + \text{taxed provisions}}$
Payout ratio, %	$\frac{\text{Total dividends}}{\text{Earnings before extraordinary items and taxes} - \text{income taxes} + \text{minority interest}}$	Equity ratio, %	$\frac{\text{Shareholders' equity} + \text{minority interest} + \text{taxed provisions}}{\text{Total assets} - \text{interest-free loans}}$
ROCE, %	$\frac{\text{Profit before extraordinary items} + \text{interest expenses} + \text{other financial costs}}{\text{Balance sheet total} - \text{non-interest bearing debt (average)}}$	CAGR, %	Cumulative annual growth rate = Average growth per year
ROE, %	$\frac{\text{Profit before extraordinary items and taxes} - \text{income taxes}}{\text{Shareholder's equity} + \text{minority interest} + \text{taxed provisions (average)}}$		

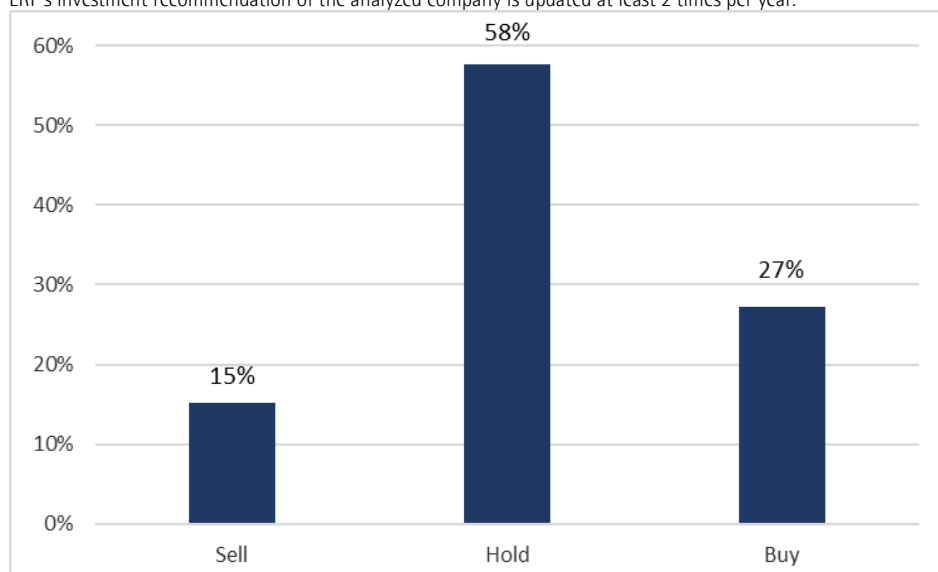
Important Disclosures

Evli Research Partners Plc ("ERP") uses 12-month target prices. Target prices are defined by utilizing analytical techniques based on financial theory including (but not limited to) discounted cash flow analysis and comparative valuation. The selection of valuation methods depends on different circumstances. Target prices may be altered on the basis of new information coming to light in the underlying company or changes in interest rates, changes in foreign exchange rates, other securities prices or market indices or outlook for the aforementioned factors or other factors that may change the conditions of financial markets. Recommendations and changes by analysts are available at [Analysts' recommendations and ratings revisions](#).

Investment recommendations are defined as follows:

Target price compared to share price	Recommendation
< -10 %	SELL
-10 – (+10) %	HOLD
> 10 %	BUY

ERP's investment recommendation of the analyzed company is updated at least 2 times per year.



The graph above shows the distribution of ERP's recommendations of companies under coverage in 11th of May 2020. If recommendation is not given, it is not mentioned here.

Name(s) of the analyst(s): Jortikka

This research report has been prepared by Evli Research Partners Plc ("ERP" or "Evli Research"). ERP is a subsidiary of Evli Plc. Production of the investment recommendation has been concluded on 05.04.2023, 09:20. This report has been published on 05.04.2023, 09:30.

None of the analysts contributing to this report, persons under their guardianship or corporations under their control have a position in the shares of the company or related securities.

The date and time for any price of financial instruments mentioned in the recommendation refer to the previous trading day's closing price(s) unless otherwise stated in the report.

Each analyst responsible for the content of this report assures that the expressed views accurately reflect the personal views of each analyst on the covered companies and securities. Each analyst assures that (s)he has not been, nor are or will be, receiving direct or indirect compensation related to the specific recommendations or views contained in this report.

Companies in the Evli Group, affiliates or staff of companies in the Evli Group, may perform services for, solicit business from, hold long or short positions in, or otherwise be interested in the investments (including derivatives) of any company mentioned in the publication or report.

Neither ERP nor any company within the Evli Group have managed or co-managed a public offering of the company's securities during the last 12 months prior to, received compensation for investment banking services from the company during the last 12 months prior to the publication of the research report.

ERP may pursue an assignment from the issuer(s) of the financial instruments mentioned in the recommendation or this report. These assignments may have a limited economic or financial impact on ERP and/or Evli. Under such assignments ERP may perform services including, but not limited to, arranging investor meetings or –events, investor relations communication advisory and production of research material.

ERP has signed an agreement with the issuer of the financial instruments mentioned in the recommendation, which includes production of research reports. This assignment has a limited economic and financial impact on ERP and/or Evli. Under the assignment ERP performs services including, but not limited to, arranging investor meetings or –events, investor relations communication advisory and production of research material.

ERP or another company within the Evli Group does not have an agreement with the company to perform market making services.

For the prevention and avoidance of conflicts of interests with respect to this report, there is an information barrier (Chinese wall) between Investment Research and Corporate Finance units concerning unpublished investment banking services to the company. The remuneration of the analyst(s) is not tied directly or indirectly to investment banking transactions performed by Evli Plc or any company within Evli Group

This report has not been disclosed to the company prior to its dissemination.

This report is provided and intended for informational purposes only and may not be used or considered under any circumstances as an offer to sell or buy any securities or as advice to trade any securities.

This report is based on sources ERP considers to be correct and reliable. The sources include information providers Reuters and Bloomberg, stock-exchange releases from the companies and other company news, Statistics Finland and articles in newspapers and magazines. However, ERP does not guarantee the materialization, correctness, accuracy or completeness of the information, opinions, estimates or forecasts expressed or implied in the report. In addition, circumstantial changes may have an influence on opinions and estimates presented in this report. The opinions and estimates presented are valid at the moment of their publication and they can be changed without a separate announcement. Neither ERP nor any company within the Evli Group are responsible for amending, correcting or updating any information, opinions or estimates contained in this report. Neither ERP nor any company within the Evli Group will compensate any direct or consequential loss caused by or derived from the use of the information represented in this publication.

All information published in this report is for the original recipient's private and internal use only. ERP reserves all rights to the report. No part of this publication may be reproduced or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, or stored in any retrieval system of any nature, without the written permission of ERP.

This report or its copy may not be published or distributed in Australia, Canada, Hong Kong, Japan, New Zealand, Singapore or South Africa. The publication or distribution of this report in certain other jurisdictions may also be restricted by law. Persons into whose possession this report comes are required to inform themselves about and to observe any such restrictions.

Evli Plc is not registered as a broker-dealer with the U. S. Securities and Exchange Commission ("SEC"), and it and its analysts are not subject to SEC rules on securities analysts' certification as to the currency of their views reflected in the research report. Evli Bank is not a member of the Financial Industry Regulatory Authority ("FINRA"). It and its securities analysts are not subject to FINRA's rules on Communications with the Public and Research Analysts and Research Reports and the attendant requirements for fairness, balance and disclosure of potential conflicts of interest. This research report is only being offered in U.S. by Auerbach Grayson & Company, LLC (Auerbach Grayson) to Major U.S. Institutional Investors and is not available to, and should not be used by, any U.S. person or entity that is not a Major U.S. Institutional Investor. Auerbach Grayson is a broker-dealer registered with the U.S. Securities and Exchange Commission and is a member of the FINRA. U.S. entities seeking more information about any of the issuers or securities discussed in this report should contact Auerbach Grayson. The securities of non-U.S. issuers may not be registered with or subject to SEC reporting and other requirements.

ERP is not a supervised entity but its parent company Evli Plc is supervised by the Finnish Financial Supervision Authority

Contact information**SALES, TRADING AND RESEARCH****Equity, ETF and Derivatives Sales**

Joachim Dannberg	+358 9 4766 9123
Ari Laine	+358 9 4766 9115
Kimmo Lilja	+358 9 4766 9130

Trading

Lauri Vehkaluoto (Head)	+358 9 4766 9120
Pasi Väisänen	+358 9 4766 9120
Antti Kässi	+358 9 4766 9120
Miika Ronkanen	+358 9 4766 9120

Structured Investments

Heikki Savijoki	+358 9 4766 9726
Aki Lakkisto	+358 9 4766 9123

Equity Research

Arttu Heikura	+358 40 082 8098
Joonas Ilvonen	+358 44 430 9071
Jerker Salokivi	+358 9 4766 9149

Evli Investment Solutions

Johannes Asuja	+358 9 4766 9205
----------------	------------------



EVLI PLC
Aleksanterinkatu 19 A
P.O. Box 1081
FIN-00101 Helsinki, FINLAND
Phone +358 9 476 690
Internet www.evli.com
E-mail firstname.lastname@evli.com

**EVLI PLC,
STOCKHOLMSFILIAL**
Regeringsgatan 67 P.O. Box 16354
SE-103 26 Stockholm
Sverige
stockholm@evli.com
Tel +46 (0)8 407 8000