

## Starting a new chapter

Trading with the company's shares in Nasdaq Helsinki commences today under ticker PAMPALO. Endomines raised gross proceeds of EUR 13m which are used especially for exploration activities along the Karelian gold line. With the funding, the company is starting a new chapter as it begins to implement its updated strategy on a larger scale. We update our target price to EUR 5.4 (SEK 59), HOLD-rating intact.

### Endomines raised gross proceeds of EUR 13m

The public offering of Endomines Finland was oversubscribed yet the company's BoD did not exercise the one million share upsize option. Therefore, the gross proceeds from the offering stayed at EUR 13m, with EUR 4m paid in cash and roughly EUR 9m paid by setting of the outstanding receivables based on the convertible loans issued by Endomines Finland. The result of the offering was in line with our prior assumptions.

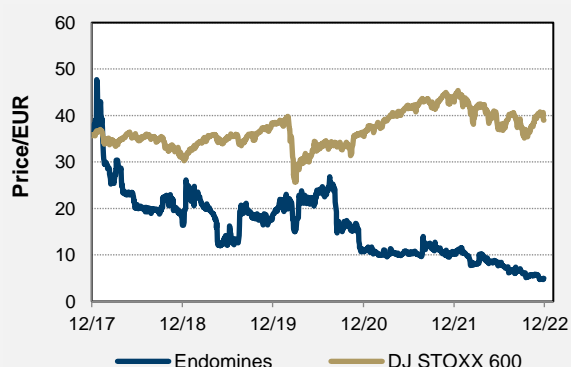
### Financing secured, strategy implementation ahead

Despite the dilution effect from the offering, we see the completion of the offering positive for the investment case. The company has now resources to begin larger scale exploration activities in the Karelian gold line which is one of the company's strategic focus areas. The funding also allows management to focus on wider strategy implementation such as ramping up the Karelian gold line gold concentrate production and partnerships and/or asset sales in the United States. In addition, the company's annual financing costs decrease as part of the offering is paid by convertible note conversion.

### HOLD with a target price of EUR 5.4 (SEK 59)

Our view of the company remains largely unchanged from the previous update. Even though we see the completion of the offering as a great enabler for the company's strategy implementation, we still see uncertainty regarding the successfulness of the company's exploration activities and the value realization of the US assets. We update our target price to EUR 5.4 (SEK 59), HOLD-rating intact.

Rating HOLD



Share price, EUR (Last trading day's closing price) 5.00

Target price, EUR 5.4

Latest change in recommendation 12-Nov-21

Latest report on company 02-Dec-22

Research paid by issuer: YES

No. of shares outstanding, '000's 9,280

No. of shares fully diluted, '000's 9,280

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

Web site [endomines.com/investors](http://endomines.com/investors)

Analyst Atte Jortikka

E-mail [atte.jortikka@evli.com](mailto: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
2020E	1.3	-18.0	-1,410.0%	-9.9	-5.84	-1.8	38.5	-2.7	-28.2	0.00
2021E	0.5	-25.1	-5,102.0%	-16.6	-4.73	-2.1	144.2	-2.8	-29.4	0.00
2022E	13.7	-11.0	-80.0%	-11.1	-0.82	-6.1	3.7	-4.6	-24.0	0.00
2023E	17.9	-1.5	-8.3%	-3.6	-0.28	-18.1	3.0	-36.4	-7.8	0.00
2024E	17.6	-1.5	-8.5%	0.7	-0.27	-18.7	3.0	-36.0	1.5	0.00
Market cap, EURm	46			Gearing 2022E, %	9.5			CAGR EPS 2021-24, %	-61.6	
Net debt 2022E, EURm	4			Price/book 2022E	1.1			CAGR sales 2021-24, %	229.2	
Enterprise value, EURm	51			Dividend yield 2022E, %	0.0			ROE 2022E, %	-20.4	
Total assets 2022E, EURm	63			Tax rate 2022E, %	-0.6			ROCE 2022E, %	-8.5	
Goodwill 2022E, EURm	0			Equity ratio 2022E, %	70.2			PEG, P/E 22/CAGR	0.1	

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

Table 1: Estimate summary

Endomines (SEKm)	2020	H1/'21	H2/'21	2021	H1/'22	H2/'22E	2022E	2023E	2024E
Net sales	13.1	0.1	4.9	6.7	5.6	8.1	13.7	17.9	17.6
sales growth %	>100%	-10.4%	88.5%	-48.9%	>100%	65.3%	>100%	31 %	-2 %
EBITDA	-108.0	-40.3	-77.9	-118.2	-3.5	0.6	-2.9	2.1	2.0
EBIT	-184.7	-95.5	-159.8	-255.1	-10.1	-0.8	-10.9	-1.5	-1.5
EBIT margin	<-100%	<-100%	<-100%	<-100%	<-100%	<-100%	-79.3%	-8.3%	-8.5%
Gold production (Oz)	538	0	460	460	3 478	5 402	8 880	11 693	11 462
<b>Finland</b>	<b>2020</b>	<b>H1/'21</b>	<b>H2/'21</b>	<b>2021</b>	<b>H1/'22</b>	<b>H2/'22E</b>	<b>2022E</b>	<b>2023E</b>	<b>2024E</b>
Net sales	5.5	0.0	0.0	0.0	5.6	8.1	13.7	17.9	17.6
Gold production (Oz)	0	0	0	0	3 478	5 402	8880	11693	11462
<b>United States</b>	<b>2020</b>	<b>H1/'21</b>	<b>H2/'21</b>	<b>2021</b>	<b>H1/'22</b>	<b>H2/'22E</b>	<b>2022E</b>	<b>2023E</b>	<b>2024E</b>
Net sales	7.6	0.0	4.9	6.7	0.0	0.0	0.0	0.0	0.0
Gold production (Oz)	538	0	460	460	0	0	0	0	0
<b>Assumptions</b>	<b>2020</b>	<b>H1/'21</b>	<b>H2/'21</b>	<b>2021</b>	<b>H1/'22</b>	<b>H2/'22E</b>	<b>2022E</b>	<b>2023E</b>	<b>2024E</b>
Gold price USD/Oz	1769	1805	1792	1799	1874	1722	1798	1750	1750
Gold price EUR/Oz	1552	1499	1543	1521	1712	1649	1681	1683	1683
EUR/USD	1.14	1.20	1.16	1.14	1.10	1.05	1.07	1.04	1.04

Source: Endomines, Evli Research

Table 2: Sum of the parts valuation, in EUR m

	Evli est.	Gold spot	Estimate basis
US assets	49	50	In-situ & purchase price analysis
Pampalo	9	10	DCF LOM 2 years, 23k ounces produced + LOM increase option value
Karelian gold line	6	7	Real option value for Karelian gold line satellite deposits
Overhead	(10)	(10)	Discounted overhead costs
Net cash	(5)	(5)	Net cash 9/2022 adj. with proceedings from the offering
<b>Total</b>	<b>49</b>	<b>52</b>	
Per share	5.3	5.6	
Long-term gold price (USD/Oz)	1 750		Evli
Spot price (USD/oz)		1 790	
Shares (m)	9.3	9.3	

Source: Evli Research

## INTERIM FIGURES

EVLI ESTIMATES, EURm	2021Q1E	2021Q2E	2021Q3E	2021Q4E	2021E	2022Q1E	2022Q2E	2022Q3E	2022Q4E	2022E	2023E	2024E
Net sales	0.0	0.0	0.0	0.5	0.5	0.0	5.6	0.0	8.1	13.7	17.9	17.6
EBITDA	0.0	-4.0	0.0	-7.6	-11.6	0.0	-3.6	0.0	0.6	-3.0	2.1	2.0
<i>EBITDA margin (%)</i>	<i>0.0</i>	<i>-44,843.4</i>	<i>0.0</i>	<i>-1,563.2</i>	<i>-2,362.0</i>	<i>0.0</i>	<i>-64.4</i>	<i>0.0</i>	<i>7.5</i>	<i>-22.0</i>	<i>11.5</i>	<i>11.4</i>
EBIT	0.0	-9.4	0.0	-15.7	-25.1	0.0	-10.2	0.0	-0.8	-11.0	-1.5	-1.5
<i>EBIT margin (%)</i>	<i>0.0</i>	<i>-</i>	<i>0.0</i>	<i>-3,206.1</i>	<i>-5,102.0</i>	<i>0.0</i>	<i>-181.2</i>	<i>0.0</i>	<i>-9.5</i>	<i>-80.0</i>	<i>-8.3</i>	<i>-8.5</i>
		<i>106,266.6</i>										
Net financial items	0.0	-2.5	0.0	0.9	-1.6	0.0	5.1	0.0	-1.6	3.5	-1.1	-1.0
Pre-tax profit	0.0	-11.9	0.0	-14.8	-26.7	0.0	-5.1	0.0	-2.4	-7.5	-2.6	-2.5
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>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.0</i>	<i>0.3</i>	<i>0.0</i>	<i>-0.8</i>	<i>-0.6</i>	<i>-0.6</i>	<i>-0.6</i>
Net profit	0.0	-11.9	0.0	-14.8	-26.7	0.0	-5.1	0.0	-2.4	-7.6	-2.6	-2.5
EPS	0.00	-2.11	0.00	-2.61	-4.73	0.00	-0.55	0.00	-0.26	-0.82	-0.28	-0.27
EPS adjusted (diluted no. of shares)	0.00	-2.11	0.00	-2.61	-4.73	0.00	-0.55	0.00	-0.26	-0.82	-0.28	-0.27
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
<b>SALES, EURm</b>												
Endomines	0.0	0.0	0.0	0.5	0.5	0.0	5.6	0.0	8.1	13.7	17.9	17.6
Total	0.0	0.0	0.0	0.5	0.5	0.0	5.6	0.0	8.1	13.7	17.9	17.6
<b>SALES GROWTH, Y/Y %</b>												
Endomines	-100.0	-98.6	-104.5	514.6	-61.4	0.0	57,631.8	-101.0	1,546.9	2,692.2	30.3	-2.0
Total	-99.6	-98.7	-103.3	511.3	-61.4	0.0	63,489.6	-114.6	1,556.0	2,692.2	30.3	-2.0
<b>EBIT, EURm</b>												
Endomines	0.0	-9.4	0.0	-15.7	-25.1	0.0	-10.2	0.0	-0.8	-11.0	-1.5	-1.5
Total	0.0	-9.4	0.0	-15.7	-25.1	0.0	-10.2	0.0	-0.8	-11.0	-1.5	-1.5
<b>EBIT margin, %</b>												
Endomines	0.0	-96,477.5	0.0	-3,188.5	-5,102.0	0.0	-181.2	0.0	-9.5	-80.0	-8.3	-8.5
Total	0.0	-	0.0	-3,206.1	-5,102.0	0.0	-181.2	0.0	-9.5	-80.0	-8.3	-8.5
		<i>106,266.6</i>										

INCOME STATEMENT, EURm	2017E	2018E	2019E	2020E	2021E	2022E	2023E	2024E
Sales	12.7	10.1	0.5	1.3	0.5	13.7	17.9	17.6
<i>Sales growth (%)</i>	<i>18.8</i>	<i>-20.5</i>	<i>-94.6</i>	<i>134.3</i>	<i>-61.4</i>	<i>2,692.2</i>	<i>30.3</i>	<i>-2.0</i>
EBITDA	-0.6	-0.5	-4.6	-10.5	-11.6	-3.0	2.1	2.0
<i>EBITDA margin (%)</i>	<i>-4.7</i>	<i>-5.3</i>	<i>-841.1</i>	<i>-824.5</i>	<i>-2,362.0</i>	<i>-22.0</i>	<i>11.5</i>	<i>11.4</i>
Depreciation	-6.1	-4.2	-0.3	-7.5	-13.5	-8.0	-3.6	-3.5
EBITA	-6.7	-4.7	-4.9	-18.0	-25.1	-11.0	-1.5	-1.5
Goodwill amortization / writedown	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBIT	-6.7	-4.7	-4.9	-18.0	-25.1	-11.0	-1.5	-1.5
<i>EBIT margin (%)</i>	<i>-53.0</i>	<i>-46.6</i>	<i>-903.4</i>	<i>-1,410.0</i>	<i>-5,102.0</i>	<i>-80.0</i>	<i>-8.3</i>	<i>-8.5</i>
Reported EBIT	-6.7	-4.7	-4.9	-18.0	-25.1	-11.0	-1.5	-1.5
<i>EBIT margin (reported) (%)</i>	<i>-53.0</i>	<i>-46.6</i>	<i>-903.4</i>	<i>-1,410.0</i>	<i>-5,102.0</i>	<i>-80.0</i>	<i>-8.3</i>	<i>-8.5</i>
Net financials	-0.5	1.1	-0.7	-1.2	-1.6	3.5	-1.1	-1.0
Pre-tax profit	-7.2	-3.6	-5.6	-19.2	-26.7	-7.5	-2.6	-2.5
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	-7.2	-3.6	-5.6	-19.2	-26.7	-7.6	-2.6	-2.5
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
<b>BALANCE SHEET, EURm</b>								
<b>Assets</b>								
Fixed assets	13	47	55	57	51	48	47	44
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	0	1	4	6	6
Receivables	1	0	0	0	2	4	6	6
Liquid funds	2	2	2	1	1	6	4	1
Total assets	16	49	56	58	55	63	62	56
<b>Liabilities</b>								
Shareholder's equity	5	25	32	33	30	44	41	39
Minority interest	0	0	0	0	0	0	0	0
Convertibles	0	17	17	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	9	4	4	15	16	10	11	8
Non-interest bearing current liabilities	0	0	0	0	0	0	0	0
Other interest-free debt	3	4	3	10	9	9	9	9
Total liabilities	16	49	56	58	55	63	62	56
<b>CASH FLOW, EURm</b>								
+ EBITDA	-1	-1	-5	-11	-12	-3	2	2
- Net financial items	0	1	-1	-1	-2	3	-1	-1
- Taxes	0	0	0	0	0	0	0	0
- Increase in Net Working Capital	1	1	-1	0	0	-7	-3	0
+/- Other	0	-2	-2	4	1	0	0	0
= Cash flow from operations	0	-1	-7	-7	-12	-6	-2	1
- Capex	-1	-10	-8	-3	-5	-5	-2	-1
- Acquisitions	0	-6	0	0	0	0	0	0
+ Divestments	0	0	0	0	0	0	0	0
= Free cash flow	-1	-16	-15	-10	-17	-11	-4	1
+/- New issues/buybacks	0	24	13	20	24	21	0	0
- Paid dividend	0	0	0	0	0	0	0	0
+/- Other	0	-7	2	-11	-7	-6	1	-3
Change in cash	-1	0	0	0	0	5	-2	-2

KEY FIGURES	2018E	2019E	2020E	2021E	2022E	2023E	2024E
M-cap	21	42	35	57	46	46	46
Net debt (excl. convertibles)	2	3	14	14	4	8	7
Enterprise value	40	62	49	71	51	54	54
Sales	10	1	1	0	14	18	18
EBITDA	-1	-5	-11	-12	-3	2	2
EBIT	-5	-5	-18	-25	-11	-1	-1
Pre-tax	-4	-6	-19	-27	-8	-3	-2
Earnings	-4	-6	-19	-27	-8	-3	-2
Equity book value (excl. minorities)	25	32	33	30	44	41	39
<b>Valuation multiples</b>							
EV/sales	3.9	113.7	38.5	144.2	3.7	3.0	3.0
EV/EBITDA	-74.4	-13.5	-4.7	-6.1	-16.7	26.2	26.8
EV/EBITA	-8.4	-12.6	-2.7	-2.8	-4.6	-36.4	-36.0
EV/EBIT	-8.4	-12.6	-2.7	-2.8	-4.6	-36.4	-36.0
EV/OCF	-53.5	-8.3	-6.7	-6.1	-8.0	-32.3	43.7
EV/FCFF	-2.3	-4.3	-5.7	-4.7	-3.4	-21.4	32.1
P/FCFE	0.0	-0.1	-0.1	-0.1	-4.2	-12.9	68.4
P/E	-5.7	-7.5	-1.8	-2.1	-6.1	-18.1	-18.7
P/B	0.8	1.3	1.1	1.9	1.1	1.1	1.2
Target EV/EBITDA	0.0	0.0	0.0	0.0	-17.9	28.0	28.7
Target EV/EBIT	0.0	0.0	0.0	0.0	-4.9	-38.9	-38.5
Target EV/FCF	0.0	0.0	0.0	0.0	-4.9	-16.1	84.3
Target P/B	0.0	0.0	0.0	0.0	1.1	1.2	1.3
Target P/E	0.0	0.0	0.0	0.0	-6.6	-19.5	-20.1
<b>Per share measures</b>							
Number of shares	879	1,999	3,283	5,645	9,280	9,280	9,280
Number of shares (diluted)	879	1,999	3,283	5,645	9,280	9,280	9,280
EPS	-4.12	-2.82	-5.84	-4.73	-0.82	-0.28	-0.27
Operating cash flow per share	-0.84	-3.73	-2.23	-2.07	-0.68	-0.18	0.13
Free cash flow per share	-18.47	-7.53	-3.01	-2.95	-1.20	-0.39	0.07
Book value per share	28.15	16.03	10.03	5.34	4.75	4.47	4.20
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, %	-79.0	-35.6	-28.2	-29.4	-24.0	-7.8	1.5
<b>Efficiency measures</b>							
ROE	-24.7	-19.9	-59.0	-84.6	-20.4	-6.0	-6.2
ROCE	49.2	-10.0	-35.5	-53.4	-8.5	-2.8	-3.0
<b>Financial ratios</b>							
Inventories as % of sales	1.7	0.6	19.2	162.0	32.0	32.0	32.0
Receivables as % of sales	3.7	23.2	25.9	360.9	32.0	32.0	32.0
Non-interest bearing liabilities as % of sales	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NWC/sales, %	-21.1	-315.3	-466.5	-1,062.8	10.5	22.9	22.1
Operative CAPEX/sales, %	96.4	1,422.9	198.5	1,001.1	35.3	10.8	3.1
CAPEX/sales (incl. acquisitions), %	39.2	1,422.9	198.5	1,001.1	35.3	10.8	3.1
FCFF/EBITDA	32.5	3.1	0.8	1.3	4.9	-1.2	0.8
Net debt/EBITDA, book-weighted	-4.7	-0.6	-1.3	-1.2	-1.4	3.8	3.6
Debt/equity, market-weighted	0.2	0.1	0.4	0.3	0.2	0.2	0.2
Equity ratio, book-weighted	84.0	86.7	56.5	54.8	70.2	67.4	69.6
Gearing, %	6.0	6.0	43.1	47.9	9.5	18.8	18.2

**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 3 478 ounces of gold during H1 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	812,610	4.063	8.8%
Clearstream Banking S.A.	786,438	3.932	8.5%
Northern Trust Global Services	734,688	3.673	7.9%
Nordea Bank Abp (Publ)	410,585	2.053	4.4%
Skandinaviska Enskilda Banken	323,536	1.618	3.5%
Evli Plc	260,109	1.301	2.8%
Mariatorp Oy	200,000	1.000	2.2%
Wipunen Varainhallinta Oy	200,000	1.000	2.2%
K22 Finance Oy	127,592	0.638	1.4%
Aktia Bank Abp	103,251	0.516	1.1%
Ten largest	3,958,808	19.794	43%
Residual	5,321,151	26.606	57%
Total	9,279,959	46.400	100%

## EARNINGS CALENDAR

## OTHER EVENTS

## COMPANY MISCELLANEOUS

CEO: Kari Vyhtinen  
CFO: Mikko Sopanen  
IR:

Ahventie 4 A, FI-02170 Espoo  
Tel:

## 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, %	$\frac{\text{Profit before extraordinary items and taxes} - \text{income taxes}}{\text{Shareholder's equity} + \text{minority interest} + \text{taxed provisions (average)}}$		

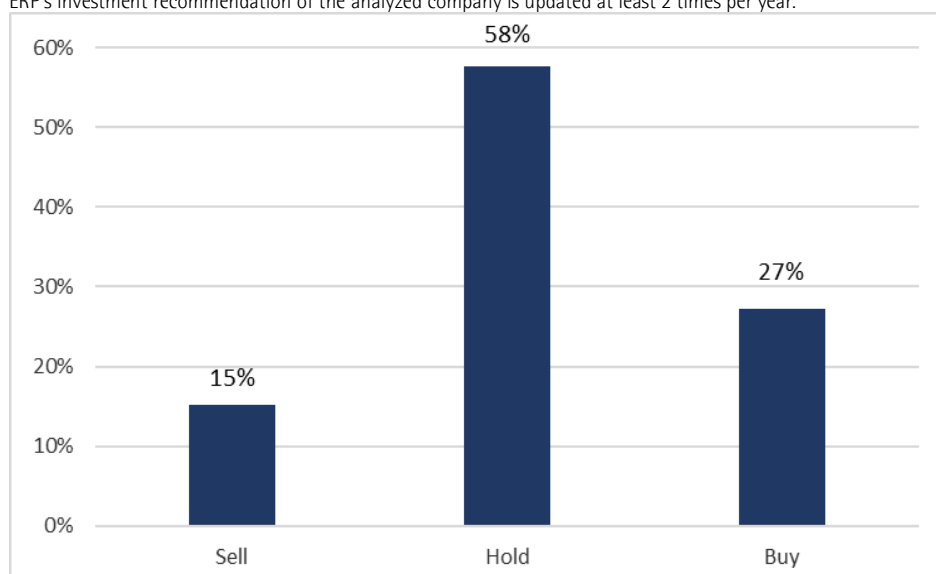
## Important Disclosures

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 20.12.2022, 09:00. This report has been published on 20.12.2022, 09:10.

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](http://www.evli.com)  
E-mail [firstname.lastname@evli.com](mailto:firstname.lastname@evli.com)

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