

Software/Finland, January 28, 2019 Company update

Second profit warning for 2018

Innofactor issued a second profit warning, expecting net sales to decline from 2017 and EBITDA to be negative, from previously having expected net sales to be at a similar level to 2017 (EUR 65.7m) and EBITDA in between EUR 0.0–1.3m. Our revised 2018 net sales and EBITDA estimates are at EUR 63.7m and –0.9m respectively. We retain our HOLD-rating with a target price of EUR 0.4.

Lowered quidance for 2018

Innofactor issued its second profit warning for 2018 on January 25th. Innofactor now expects its net sales to decline from 2017 and EBITDA to be negative. Innofactor's previously expected its net sales to be at a similar level to 2017 and the operating margin to be positive but weaker than in 2017. Innofactor's net sales and EBITDA in 2017 amounted to EUR 65.7m and EUR 1.3m respectively. The weaker than expected sales is according to Innofactor due to the timing of customer's purchases related to the Dynasty product family along with lower sales in Denmark. Profitability is affected by the lower sales along with some write offs related to project deliveries, of which to our understanding the lower sales have a bigger impact. Innofactor further held cooperation negotiations during Q4 that is expected to have affected profitability.

Expect improvements in 2019

Following the updated guidance, we have revised our 2018 estimates, with our net sales and EBITDA estimates at EUR 63.7m and EUR -0.9m respectively, with our other estimates largely intact. We expect to see a minor improvement in sales going into 2019 and a more notable profitability improvement, mainly from the organizational changes made in late 2018.

HOLD with a target price of EUR 0.4

KEN EIGHBEC

On our estimates valuation continues to appear justifiable on EV/EBITDA multiples, as the improvement we expect to see in profitability in 2019 is still well below historically seen levels. We retain our HOLD-rating with a target price of EUR 0.4.



Target price, EUR	0.4
Latest change in recommendation	09-0ct-18
Latest report on company	28-Jan-19
Research paid by issuer:	YES
No. of shares outstanding, '000's	36,188
No. of shares fully diluted, '000's	36,188
Market cap, EURm	14
Free float, %	45.0
Exchange rate EUR	0.000
Reuters code	IFA1V.HE
Bloomberg code	IFA1V FH
Average daily volume, EURm	0.03
Next interim report	05-Mar-19
Web site	www.innofactor.fi
Analyst	Jerker Salokivi

■ BUY □ HOLD ■ SELL

jerker.salokivi@evli.com

+358 9 4766 9149

KET FIGU	KES									
	Sales EURm	EBIT EURm	EBIT %	Ptx profit EURm	EPS EUR	P/E (x)	EV/Sales (x)	P/CF (x)	EV/EBIT (x)	DPS EUR
2016	60	2	3.9%	2	0.04	25.8	0.9	11.2	23.3	0.00
2017	66	-1	-2.2%	-2	-0.03	-26.9	0.7	8.2	-32.4	0.00
2018E	64	-4	-5.6%	-4	-0.09	-4.6	0.5	-16.8	-8.3	0.00
2019E	65	0	0.5%	0	0.00	-94.4	0.4	3.2	86.2	0.00
2020E	66	2	3.3%	2	0.04	10.3	0.4	3.2	10.5	0.00
Market cap	o, EURm		14 E	3V per share 201	8E, EUR		0.0			
Net debt 2	018E, EURm		15 F	Price/book 2018l	E		0.7 CAGR	sales 2017-	20, %	0.3
Enterprise	value, EURm		30 [Dividend yield 20	D18E, %			-13.5		
Total asset	s 2018E, EURn	n	55 T	ax rate 2018E, o	/o			-9.3		
Goodwill 2	018E, EURm		26 E	quity ratio 2018	BE, %			0.0		

E-mail

Telephone

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

-13%

Software/Finland, January 28, 2019 Company update

	MCAP		EV/EBITDA			EV/EBIT			P/E	
INNOFACTOR PEER GROUP	MEUR	18E	19E	20E	18E	19E	20E	18E	19E	20E
Tieto	1865	9.5x	9.2x	8.8x	12.1x	11.4x	10.9 x	14.2x	13.7x	13.2x
Atea	1299	11.6x	9.2x	7.8x	18.4x	12.9x	10.4x	25.2x	16.8x	14.0x
Knowit	301	9.3x	7.9x	7.4x	9.8x	8.6x	7.7x	13.2x	12.0x	11.1x
HiQ	293	13.5x	12.2x	11.1x	14.6x	12.7x	11.8x	19.5x	16.9x	15.7x
Bouvet	224	9.1x	8.2x	7.9x	10.3x	9.2x	8.8x	14.0x	12.6x	12.1x
Enea	210	12.5x	10.9x	8.5x	15.0x	13.2x	9.9x	17.3x	14.8x	11.6x
Gofore	109	11.7x	8.5x	6.7x	12.5x	8.9 x	7.0x	17.9x	13.9x	11.8x
Digia	77	7.8x	6.2x	5.1x	9.8x	8.0x	6.4x	13.8x	11.4x	9.7x
Siili Solutions	60	13.2x	7.1x		16.3x	7.8x		23.5x	11.7x	9.9x
Solteq	27							24.7x	12.7x	10.9x
Peer Group Average	446	10.9x	8.8x	7.9x	13.2x	10.3x	9.1x	18.3x	13.6x	12.0x
Peer Group Median	217	11.6x	8.5x	7.8x	12.5x	9.2x	9.4x	17.6x	13.2x	11.7x
Innofactor (Evli est.)	14	Neg.	9.1x	5.0x	Neg.	86.0x	10.5x	Neg.	Neg.	10.2x

-36%

>100%

Innofactor prem./disc. to peer median

Source FactSet, Evli Research

Software/Finland, January 28, 2019 Company update

VALUATION RESULTS	BASE CASE DETAILS	VALUATION ASSUMPTIONS	ASSUMPTIONS FOR WACC	
Current share price	0.40 PV of Free Cash Flow	19 Long-term growth, %	2.0 Risk-free interest rate, %	2.25
DCF share value	0.80 PV of Horizon value	24 WACC, %	8.4 Market risk premium, %	5.8
Share price potential, %	99.6 Unconsolidated equity	0 Spread, %	0.5 Debt risk premium, %	2.8
Maximum value	0.9 Marketable securities	1 Minimum WACC, %	7.9 Equity beta coefficient	1.00
Minimum value	0.7 Debt - dividend	-16 Maximum WACC, %	8.9 Target debt ratio, %	20
Horizon value, %	55.3 Value of stock	29 Nr of shares, Mn	36.2 Effective tax rate, %	20

DCF valuation, EURm	2017	2018E	2019E	2020E	2021E	2022E	2023E	2024E	2025E	2026E	2027E	Horizon
Net sales	66	64	65	66	68	70	71	73	75	77	78	80
Sales growth, %	10.1	-3.1	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5	2.0	2.0
Operating income (EBIT)	-1	-4	0	2	3	3	4	4	4	4	4	4
EBIT margin, %	-2.2	-5.6	0.5	3.3	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
+ Depreciation+amort.	3	3	3	2	1	1	1	1	1	1	1	
- Income taxes	0	2	0	0	0	0	0	-1	-1	-1	-1	
- Change in NWC	2	-2	1	0	0	0	0	0	0	0	0	
NWC / Sales, %	-0.4	2.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
+ Change in other liabs	2	0	0	0	0	0	0	0	0	0	0	
- Capital Expenditure	-2	-1	-1	-2	-1	0	-1	-1	-1	-1	-1	-1
Investments / Sales, %	2.6	1.2	2.1	2.3	0.9	0.7	1.2	1.4	1.4	1.4	1.4	1.4
- Other items	1	0	0	0	0	0	0	0	0	0	0	
= Unlevered Free CF (FCF)	4	-2	3	3	4	4	4	3	3	3	3	48
= Discounted FCF (DFCF)		-2	3	3	3	3	2	2	2	2	1	24
= DFCF min WACC		-2	3	3	3	3	2	2	2	2	2	27
= DFCF max WACC		-2	3	3	3	3	2	2	2	2	1	21

Software/Finland, January 28, 2019 Company update

INTERIM FIGURES

EVLI ESTIMATES, EURm	2017Q1	2017Q2	2017Q3	2017Q4	2017	2018Q1	2018Q2	2018Q3	2018Q4E	2018E	2019E	2020E
Net sales	17	17	14	17	66	16	17	14	16	64	65	66
EBITDA	1	1	-1	1	1	0	0	0	-1	-1	3	5
EBITDA margin (%)	5.2	3.3	-4.8	3.1	2.0	2.1	0.2	-3.6	-4.4	-1.3	4.4	7.0
EBIT	0	0	-1	0	-1	0	-1	-1	-1	-4	0	2
EBIT margin (%)	1.3	-0.6	-9.5	-1.4	-2.2	-2.2	-3.7	-8.6	-8.5	-5.6	0.5	3.3
Net financial items	0	0	0	0	0	0	0	0	0	0	0	0
Pre-tax profit	0	0	-1	0	-2	0	-1	-1	-1	-4	0	2
Tax	0	0	0	0	0	0	0	0	0	1	0	0
Tax rate (%)	19.8	19.9	20.0	25.0	20.0	19.9	20.1	20.0	21.0	20.4	21.0	21.0
Net profit	0	0	-1	0	-1	0	-1	-1	-1	-3	0	1
EPS	0.00	-0.01	-0.03	0.00	-0.03	-0.01	-0.02	-0.03	-0.03	-0.09	0.00	0.04
EPS adjusted (diluted no. of shares)	0.00	-0.01	-0.03	0.00	-0.03	-0.01	-0.02	-0.03	-0.03	-0.09	0.00	0.04
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												
Innofactor	17	17	14	17	66	16	17	14	16	64	65	66
Total	17	17	14	17	66	16	17	14	16	64	65	66
SALES GROWTH, Y/Y %												
Innofactor	18.2	12.6	19.7	-4.7	10.1	-4.5	-0.8	-2.5	-4.3	-3.1	2.0	2.0
Total	18.2	12.6	19.7	-4.7	10.1	-4.5	-0.8	-2.5	-4.3	-3.1	2.0	2.0
EBIT, EURm												
Innofactor	0	0	-1	0	-1	0	-1	-1	-1	-4	0	2
Total	0	0	-1	0	-1	0	-1	-1	-1	-4	0	2
EBIT margin, %										·		
Innofactor	1.3	-0.6	-9.5	-1.4	-2.2	-2.2	<i>-3.7</i>	-8.6	-8.5	-5.6	0.5	3.3
Total	1.3	-0.6	-9.5	-1.4	-2.2	-2.2	-3.7	-8.6	-8.5	-5.6	0.5	3.3

Software/Finland, January 28, 2019 Company update

INCOME STATEMENT, EURm	2013	2014	2015	2016	2017	2018E	2019E	2020E
Sales	33	44	44	60	66	64	65	66
Sales growth (%)	73.7	34.1	1.4	34.1	10.1	-3.1	2.0	2.0
Costs	-29	-40	-41	-55	-64	-65	-62	-62
Reported EBITDA	3	4	4	5	1	-1	3	5
Extraordinary items in EBITDA	0	0	0	0	0	0	0	0
EBITDA margin (%)	10.0	8.7	8.3	8.1	2.0	-1.3	4.4	7.0
Depreciation	-1	-1	-1	-2	-3	-3	-3	-2
EBITA	2	2	3	2	-1	-4	0	2
Goodwill amortization / writedown	0	0	0	0	0	0	0	0
Reported EBIT	2	2	3	2	-1	-4	0	2
EBIT margin (%)	6.9	5.5	<i>5.7</i>	3.9	-2.2	-5.6	0.5	3.3
Net financials	0	0	-1	0	0	0	0	0
Pre-tax profit	2	2	2	2	-2	-4	0	2
Extraordinary items	0	0	0	0	0	0	0	0
Taxes	0	0	0	0	0	1	0	0
Minority shares	0	0	0	0	0	0	0	0
Net profit	1	1	1	1	-1	-3	0	1
BALANCE SHEET, EURm		<u>'</u>	<u> </u>			-5	0	
Assets								
Fixed assets	5	4	4	10	8	7	5	4
% of sales	15	9	8	16		10	8	7
Goodwill					<i>13</i>			
	19	20	20	28	26	26	26	26
% of sales	59	45	44	46	40	41	41	40
Inventory	0	0	0	0	0	0	0	0
% of sales	0	0	0	0	0	0	0	0
Receivables	14	16	13	19	17	17	17	17
% of sales	43	36	30	33	26	26	26	26
Liquid funds	1	1	1	1	1	1	2	2
% of sales	3	2	2	2	1	1	3	3
Total assets	47	48	44	64	59	55	54	54
Liabilities								
Equity	16	20	21	23	25	22	23	24
% of sales	50	45	48	38	38	34	35	37
Deferred taxes	1	1	1	2	2	2	2	1
% of sales	3	2	2	4	3	3	2	2
Interest bearing debt	15	14	12	17	14	16	13	11
% of sales	46	32	28	28	22	25	20	16
Non-interest bearing current liabilities	14	13	9	22	17	15	17	17
% of sales	43	31	21	37	27	24	26	26
Other interest free debt	0	0	0	0	0	0	0	0
% of sales	0	0	0	0	0	0	0	0
Total liabilities	47	48	44	64	59	55	54	54
CASH FLOW, EURm								
+ EBITDA	3	4	4	5	1	-1	3	5
- Net financial items	0	0	-1	0	0	0	0	0
- Taxes	0	0	0	2	0	2	0	0
- Increase in Net Working Capital	-1	-1	1	-1	2	-2	1	0
+/- Other	-1	0	0	-2	1	0	0	0
= Cash flow from operations	1	2	4	3	4	-2	4	4
- Capex	0	-1	0	-1	-2	-1	-1	-2
- Acquisitions	-2	0	-2	-6	0	0	0	0
+ Divestments	0	0	0	0	0	0	0	0
= Net cash flow	-1	2	2	-4	2	-3	2	2
+/- Change in interest-bearing debt	14	-1	-1	4	-2	-3 2	-3	-2
+/- New issues/buybacks	1	2	1	0	-2 4	0	-s 1	-2 0
- Paid dividend								
	0	0	0	0	0	0	0	0
+/- Change in loan receivables	0	0	0	1	2	0	0	0
Change in cash	14	2	1	1	5	-1	0	0

Software/Finland, January 28, 2019 Company update

KEY FIGURES	2014	2015	2016	2017	2018E	2019E	2020E
M-cap	25	33	38	34	14	14	14
Net debt	13	12	16	13	15	11	9
Enterprise value	38	44	54	47	30	26	23
Sales	44	44	60	66	64	65	66
EBITDA	4	4	5	1	-1	3	5
EBIT	2	3	2	-1	-4	0	2
Pre-tax	2	2	2	-2	-4	0	2
Earnings	1	1	1	-1	-3	0	1
Book value	20	21	23	25	22	23	24
Valuation multiples							
EV/sales	0.9	1.0	0.9	0.7	0.5	0.4	0.4
EV/EBITDA	9.9	12.0	11.2	36.2	-35.1	9.1	5.0
EV/EBITA	15.6	17.4	23.3	-32.4	-8.3	86.2	10.5
EV/EBIT	15.6	17.4	23.3	-32.4	-8.3	86.2	10.5
EV/operating cash flow	16.3	11.3	15.8	11.4	-34.6	5.7	5.2
EV/cash earnings	11.5	14.0	8.5	37.1	63.8	9.1	5.6
P/E	21.9	26.0	25.8	-26.9	-4.6	-94.4	10.3
P/E excl. goodwill	21.9	26.0	25.8	-26.9	-4.6	-94.4	10.3
P/B	1.3	1.5	1.7	1.4	0.7	0.6	0.6
P/sales	0.6	0.7	0.6	0.5	0.2	0.2	0.2
P/CF	10.8	8.3	11.2	8.2	-16.8	3.2	3.2
Target EV/EBIT	0.0	0.0	0.0	0.0	-8.3	86.2	10.5
Target P/E	0.0	0.0	0.0	0.0	-4.6	-94.4	10.3
Target P/B	0.0	0.0	0.0	0.0	0.7	0.6	0.6
Per share measures							
Number of shares	32,154	33,454	33,454	36,188	36,188	36,188	36,188
Number of shares (diluted)	32,154	33,454	33,454	36,188	36,188	36,188	36,188
EPS	0.04	0.04	0.04	-0.03	-0.09	0.00	0.04
EPS excl. goodwill	0.04	0.04	0.04	-0.03	-0.09	0.00	0.04
Cash EPS	0.10	0.10	0.19	0.04	0.01	0.08	0.12
Operating cash flow per share	0.07	0.12	0.10	0.12	-0.02	0.12	0.12
Capital employed per share	1.01	0.98	1.14	1.06	1.03	0.95	0.91
Book value per share	0.61	0.64	0.67	0.69	0.61	0.63	0.67
Book value excl. goodwill	0.00	0.05	-0.16	-0.04	-0.12	-0.10	-0.06
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
Efficiency measures							
ROE	6.7	6.2	6.8	-5.3	-13.5	-0.7	6.0
ROCE	7.4	7.6	6.4	-3.7	-9.3	0.8	6.2
Financial ratios							
Capex/sales, %	1.6	4.9	12.3	2.6	1.2	2.1	2.3
Capex/depreciation excl. goodwill,%	31.8	185.9	-31.5	107.6	28.8	54.0	63.3
		3.1	3.3	10.2	-18.0	4.0	1.9
Net debt/EBITDA, book-weighted	3.4	3.1					
Net debt/EBITDA, book-weighted Debt/equity, market-weighted	3.4 0.6	0.4	0.4	0.4	1.1	0.9	0.7
				0.4 42.8	1.1 39.8	0.9 42.3	0.7 45.5
Debt/equity, market-weighted	0.6	0.4	0.4				
Debt/equity, market-weighted Equity ratio, book-weighted	0.6 41.0	0.4 48.5	0.4 35.4	42.8	39.8	42.3	45.5
Debt/equity, market-weighted Equity ratio, book-weighted Gearing	0.6 41.0 0.66	0.4 48.5 0.54	0.4 35.4 0.70	42.8 0.53	39.8 0.70	42.3 0.50	45.5 0.36

Software/Finland, January 28, 2019 Company update

COMPANY DESCRIPTION: Innofactor provides software products and solutions to commercial, public sector, and membership-based organizations in the Nordic countries. It specializes in Microsoft-based cloud solutions and digital transformation.

INVESTMENT CASE:

OWNERSHIP STRUCTURE	SHARES	EURm	0/0
Ensio Sami	7,716,173	3.086	21.3%
Ilmarinen Mutual Pension Insurance Company	1,800,000	0.720	5.0%
Tilman Tuomo Tapani	1,465,437	0.586	4.0%
Svalroma Invest AB	1,435,196	0.574	4.0%
Linturi Kaija and Risto	1,256,411	0.503	3.5%
Laiho Rami Tapani	1,255,159	0.502	3.5%
• rje Matias Juhanpoika	882,065	0.353	2.4%
M• ki Antti Jussi	877,192	0.351	2.4%
Muukkonen Teemu Heikki	522,230	0.209	1.4%
Ingman Finance Oy Ab	500,000	0.200	1.4%
Ten largest	17,709,863	7.084	49%
Residual	18,478,362	7.391	51%
Total	36,188,225	14.475	100%

EARNINGS CALENDAR	
March 05, 2019	FY 2018 Results
May 14, 2019	Q1 report
July 23, 2019	Q2 report
October 29, 2019	Q3 report
OTHER EVENTS	
April 02, 2019	AGM

COMPANY MISCELLANEOUS

Software/Finland, January 28, 2019 Company update

DEFINITIONS

D/F	FDC
P/E	EPS D. Cit. C
Price per share	Profit before extraordinary items and taxes
Earnings per share	— income taxes + minority interest
	Number of shares
P/Sales	DPS
Market cap	Dividend for the financial period per share
Sales	period per share
Jaics	
P/BV	CEPS
Priceper share	Gross cash flow from operations
Shareholders' equity + taxed provisionsper share	Number of shares
P/CF	EV/Share
Priceper share	Enterprise value
Operating cash flow per share	Number of shares
operating cash now per share	rumoer of shares
EV (Enterprise value)	Sales/Share
Market cap + net debt + minority interest at market value	Sales
 share of associated companies at market value 	Number of shares
Net debt	EBITDA/Share
Interest bearing debt – financial assets	Earnings before interest, tax, depreciation and amortisation
-	Number of shares
DUC	FDITIC
EV/Sales	EBIT/Share
Enterprise value	Operating profit
Sales	Number of shares
EV/EBITDA	EAFI/Share
Enterprise value	Pretax profit
Earnings before interest, tax, depreciation and amortisation	Number of shares
EV/EBIT	Capital employed/Share
Enterprise value	Total assets – non interest bearing debt
Operating profit	Number of shares
operating prom	Name: 6. Shares
Div yield, %	Total assets
Dividend per share	Balance sheet total
Price per share	
Payout ratio, %	Interest coverage (x)
Total dividends	Operating profit
Earnings before extraordinary items and taxes – income taxes + minority interest	Financial items
zummigs octore extraordinary recinsum taxes - medine taxes + minority meetest	manciaritems
Net cash/Share	Asset turnover (x)
Financial assets — interest bearing debt	Turnover
Number of shares	Balance sheet total (average)
ROA, %	Debt/Equity, %
Operating profit + financial income + extraordinary items	Interest bearing debt
Balance sheet total — interest free short term debt	Shareholders' equity + minority interest + taxed provisions
 long term advances received and accounts payable (average) 	יייייייייייייייייייייייייייייייייייייי
ROCE, %	Equity ratio, %
Profit before extraordinary items + interest expenses + other financial costs	Shareholders' equity + minority interest + taxed provisions
Balance sheet total — noninterest bearing debt(average)	Total assets – interest free loans
ROE, %	CAGR, %
Profit before extraordinary items and taxes – income taxes	Cumulativeannual growthrate = Average growthper year
Shareholders' equity + minority interest + taxed provisions (average)	

Software/Finland, January 28, 2019 Company update

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

Detailed information about the valuation or methodology and the underlying assumptions is accessible via ERP:

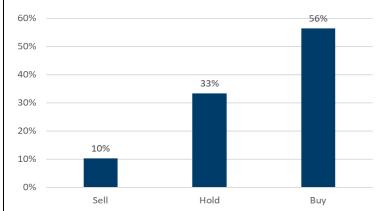
http://research.evli.com

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 in general updated 2 - 4 per year.



The graph above shows the distribution of ERP's recommendations of companies under coverage in 16th of April 2018. If recommendation is not given, it is not mentioned here

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

This research report has been prepared by Evli Research Partners Plc ("ERP" or "Evli Research"). ERP is a subsidiary of Evli Bank Plc. Production of the investment recommendation has been concluded on 28.1.2019, 9:00. This report has been published on 28.1.2019, 9:30.

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

EVLI EQUITY RESEARCH

INNOFACTOR

Software/Finland, January 28, 2019 Company update

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 Bank 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 Bank 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 Bank Plc is supervised by the Finnish Financial Supervision Authority.

Software/Finland, January 28, 2019 Company update

Contact information SALES, TRADING AND RESEARCH

	Trading		ETFs and Derivatives	
			Tobias Björk (Head)	+358 9 4766 9130 +358 9 4766 9123
		+358 9 4766 9120	Kimmo Lilja Sami Järvinen	+358 9 4766 9123 +358 9 4766 9110
1	Equity Research			
358 9 4766 9123	Jonas Forslund Joonas Ilvonen	+358 9 4766 9662 +358 9 4766 9314 +358 44 430 9071		
•	Jerker Salokivi	+358 9 4766 9149		
358 9 4766 9205 358 9 4766 9669				
3	158 9 4766 9115 158 9 4766 9117 158 9 4766 9116 158 9 4766 9726 158 9 4766 9123	Pasi Väisänen Antti Kässi	Lauri Vehkaluoto (Head) +358 9 4766 9130 +358 9 4766 9117 Pasi Väisänen +358 9 4766 9120 +358 9 4766 9116 Antti Kässi +358 9 4766 9120 +358 9 4766 9120 +358 9 4766 9120 +358 9 4766 9120 +358 9 4766 9120 +358 9 4766 9120 +358 9 4766 9120 +358 9 4766 9120 +358 9 4766 9120 +358 9 4766 9120 +358 9 4766 9120 +358 9 4766 9123 Jonas Forslund +358 9 4766 9314 Jonas Ilvonen +358 44 430 9071 Jerker Salokivi +358 9 4766 9149 +358 9 4766 9205	Lauri Vehkaluoto (Head) +358 9 4766 9130 Tobias Björk (Head) 158 9 4766 9117 Pasi Väisänen +358 9 4766 9120 Joachim Dannberg 158 9 4766 9116 Antti Kässi +358 9 4766 9120 Kimmo Lilja Sami Järvinen Equity Research 158 9 4766 9726 Jonas Häyhä +358 9 4766 962 Jonas Forslund +358 9 4766 9314 Jonas Ilvonen +358 44 430 9071 Jerker Salokivi +358 9 4766 9149



Aleksanterinkatu 19 A P.O. Box 1081 FIN-00101 Helsinki, FINLAND Phone +358 9 476 690 Fax +358 9 634 382 Internet www.evli.com E-mail firstname.lastname@evli.com

EVLI BANK PLC, STOCKHOLMSFILIAL Kungsgatan 27, P.O. Box 16354 SE-111 56 Stockholm Sverige stockholm@evli.com Tel +46 (0)8 407 8000 Fax +46 (0)8 407 8001