(CDAX, Retail)



Dun/		Value Indicators:	EUR	Share data:		Description:	
Buy				Bloomberg:	ELB GR	elumeo is a vertically-integr	
2 00				Reuters:	ELBG.DE	multi-channel, precious jew	ellery
EUR <b>3.00</b>				ISIN:	DE000A11Q059	retailer	
		Market Snapshot:	EUR m	Shareholders:		Risk Profile (WRe):	2020e
Duine		Market cap:	11.6	Freefloat	21.8 %	Beta:	1.8
Price	EUR 2.10	No. of shares (m):	5.5	Blackflint Itd. (Boyé)	26.6 %	Price / Book:	3.9 x
Upside	42.9 %	EV:	13.2	Ottoman Strategy Holding	gs 26.2 %	Equity Ratio:	17 %
		Freefloat MC:	2.5	Universal Investment	9.6 %	Net Debt / EBITDA:	31.6 x
		Ø Trad. Vol. (30d):	46.17 th	Sycomore Asset Managemen	nt 5.1 %		

# Success despite COVID

Stated Figures Q2/20	020:				Comment on Figures:
in EURm	Q2 2020 actual	Q2 2020e	Q2 2019	% change	<ul> <li>Q2 sales declined by just over 14%. This mainly reflects the closure of the Italian subsidiary in November 2019. Sales in Germany were virtually</li> </ul>
Sales	9,66	10,70	11,30	-14,6%	flat (-1.8% yoy). E-commerce sales, which include live bidding via app,
Gross profit	5,49	5,67	5,13	7,0%	rose 0.8% in Q2 and the stationary webshop outperformed substantially generating 52% growth yoy.
Gross profit margin	56,9%	53,0%	45,4%		<ul> <li>Gross margin was the big positive surprise, surging to nearly 57%. This reflects the successful implementation of the near surply shall with</li> </ul>
selling expenses	3,85	4,15	4,20	-8,3%	reflects the successful implementation of the new supply chain with outsourced production. Although the lockdowns severely impacted
admin. expenses	1,51	1,50	1,71	-11,4%	production in key sourcing markets (e.g. India, China); elumeo has been able to mitigate these challenges with a flexible approach to sourcing.
EBITDA	0,31	0,32	-0,68		<ul> <li>With a reduction in broadcasting hours to 12h/day from 18h/day and the</li> </ul>
EBITDA-margin	3,2%	3,0%	-6,0%		use of short-term labour, operating costs decreased by around 10%. Together with the strong gross margin, this was instrumental to the
EBIT	0,08	0,02	-0,99		achievement of the first positive EBIT (and net income) in years.
EBIT-margin	0,9%	0,2%	-8,7%		In H1 the free cash flow remained positive, reaching EUR 330k.

The Q2 figures confirm the restructuring success which was the basis for our upgrade in June. While sales missed our estimates, the Q2 figure was nevertheless impressive as it was generated despite a reduction in broadcasting time of more than 30%. In H2 we expect a return to growth. The VAT reduction coupled with more occasions to wear jewellery should drive underlying demand while, on the numbers front, the comparison base gets easier as the Rome closure annualises.

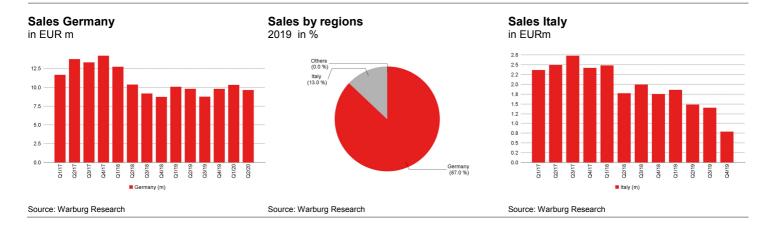
• We confirm our Buy rating as the path to profitability is now visible. Once elumeo's Q2 gross margin can be sustained for a full year, only slight sales growth should already lead to a high single-digit EBITDA margin. In light of the expected margin improvement, the positive FCF, and an EV/sales multiple of just 0.3 we consider elumeo an attractive turnaround story.

Changes in E	stimates:						Comment on Changes:
FY End: 31.12. in EUR m	2020e (old)	+ / -	2021e (old)	+ / -	2022e (old)	+ / -	<ul> <li>Sales estimates trimmed slightly, based on Q2 figures</li> <li>Our EBITDA estimates remain unchanged, as the Q2 margin surprised</li> </ul>
Sales	43.0	-2.3 %	47.0	-2.1 %	51.0	-2.0 %	positively
EBITDA	0.0	4.0 %	1.5	0.0 %	2.8	0.0 %	
EBT	-1.3	n.m.	0.1	149.5 %	1.4	14.2 %	
EPS	-0.24	n.m.	0.02	149.5 %	0.26	14.2 %	
Net Debt	1.8	-10.5 %	1.6	-16.0 %	0.6	-55.3 %	

3 -	FY End: 31.12.	CAGR							
2.75 -	in EUR m	(19-22e)	2016	2017	2018	2019	2020e	2021e	2022e
2.5 -	Sales	4.3 %	58.5	67.6	51.1	44.1	42.0	46.0	50.0
2.25 -	Change Sales yoy		-19.5 %	15.5 %	-24.3 %	-13.7 %	-4.7 %	9.6 %	8.7 %
2 -	Gross profit margin		45.6 %	44.1 %	26.4 %	46.8 %	51.8 %	53.5 %	54.5 %
1.75 -	EBITDA adj.	-	-4.2	-0.6	-17.5	-0.3	0.1	1.5	2.8
1.5 - Awy Home	Margin		-10.0 %	-3.2 %	-36.1 %	-5.3 %	-2.3 %	1.0 %	3.5 %
1.25 -	EBIT	-	-9.0	-1.6	-18.4	-2.3	-1.0	0.5	1.8
1 - Day Alternation	Margin		-15.5 %	-2.4 %	-36.1 %	-5.3 %	-2.3 %	1.0 %	3.5 %
0.75	Net income	-	-15.5	-6.0	-27.4	-2.6	-1.2	0.3	1.6
09/19 11/19 01/20 03/20 05/20 07/20	EPS	-	-2.82	-1.10	-4.98	-0.47	-0.21	0.05	0.29
- elumeo SE - CDAX (normalised)	EPS adj.	-	-1.29	-0.49	-3.73	-0.47	-0.21	0.05	0.29
	DPS	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Rel. Performance vs CDAX:	Dividend Yield		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
1 month: 22.7 %	FCFPS		-2.34	0.90	-1.22	0.11	0.46	0.15	0.28
	EV / Sales		1.4 x	0.9 x	0.8 x	0.3 x	0.3 x	0.3 x	0.2 x
6 months: -10.1 %	EV / EBITDA		n.a.	n.a.	n.a.	n.a.	254.5 x	8.6 x	4.2 x
Year to date: 43.1 %	EV / EBIT		n.a.	n.a.	n.a.	n.a.	n.a.	28.0 x	6.7 x
Trailing 12 months: 109.4 %	P/E		n.a.	n.a.	n.a.	n.a.	n.a.	40.7 x	7.2 x
, <b>,</b> , , , , , , , , , , , , , , , , ,	P / E adj.		n.a.	n.a.	n.a.	n.a.	n.a.	40.7 x	7.2 x
Company events:	FCF Potential Yield		-11.6 %	-1.8 %	-49.7 %	-15.7 %	-5.1 %	6.0 %	17.5 %
13.11.20 Q3	Net Financial Debt		11.4	9.8	-0.6	-0.4	-2.9	-3.2	-4.2
	ROE		-34.5 %	-17.0 %	-141.9 %	-47.8 %	-33.5 %	9.2 %	40.1 %
	ROCE (NOPAT)		n.a.	n.a.	n.a.	n.a.	n.a.	10.1 %	36.4 %
	Guidance: e	excluding CO	VID19 up to I	EUR +1m E	BITDA				
		-							

# WARBURG

# elumeo

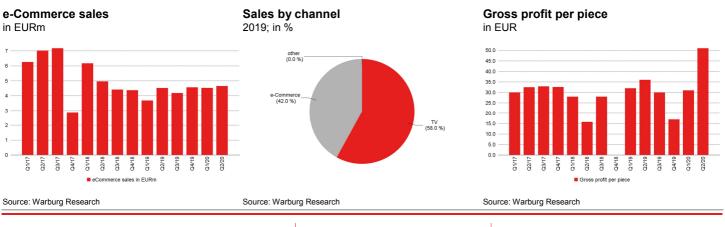


# **Company Background**

- Elumeo is a precious jewellery retailer offering a broad range of gemstones mostly in the price range of EUR 25 to EUR 1,000. Products priced at more than EUR 1,000 generate about 15% of sales.
- Elumeo is a multi-channel retailer. Revenues generated on the company's television channel amount to about 60% of sales while ecommerce generates 35%.
- On its TV channels, Elumeo sells its products exclusively in a Dutch auction-like process. The auction starts with a high price, which is
  gradually lowered until customers bid at a price level they deem attractive.
- Elumeo has a range of collections targeting a variety of target customers with specific design elements.
- Due to the vertically integrated structure, elumeo is the price leader in (online-) jewellery.

# **Competitive Quality**

- Elumeo's vertically integrated business model cuts out several steps in the supply chain. It uses its cost leadership for a price differentiation to peers and prices are significantly lower than the competition.
- The integration of design and production processes in combination with distribution via a proprietary TV channel represent high barriers to entry. This model ensures very short lead times and a wide product assortment.
- The auction process leads to a higher customer engagement while the limited product availability coupled with the continuous supply
  of "fresh" merchandise prompts frequent purchases.
- The internet is already responsible for attracting about 60% of new customers. Structural growth of the internet sales channel should also be a major driver of growth for the company.





DCF model														
	Detailed	d forecas	t period				Т	ransition	al period				l l	Ferm. Value
Figures in EUR m	2020e	2021e	2022e	2023e	2024e	2025e	2026e	2027e	2028e	2029e	2030e	2031e	2032e	
Sales	42.0	46.0	50.0	54.0	58.4	62.4	66.2	69.5	73.0	76.6	80.5	84.5	87.0	
Sales change	-4.7 %	9.6 %	8.7 %	8.0 %	8.0 %	7.0 %	6.0 %	5.0 %	5.0 %	5.0 %	5.0 %	5.0 %	3.0 %	2.0 %
EBIT	-1.0	0.5	1.8	2.2	2.6	3.1	3.3	3.5	3.6	3.8	4.0	4.2	4.4	
EBIT-margin	-2.3 %	1.0 %	3.5 %	4.0 %	4.5 %	5.0 %	5.0 %	5.0 %	5.0 %	5.0 %	5.0 %	5.0 %	5.0 %	
Tax rate (EBT)	0.0 %	0.0 %	0.0 %	5.0 %	5.0 %	5.0 %	5.0 %	5.0 %	5.0 %	5.0 %	5.0 %	5.0 %	5.0 %	
NOPAT	-1.0	0.5	1.8	2.1	2.5	3.0	3.1	3.3	3.5	3.6	3.8	4.0	4.1	
Depreciation	1.0	1.0	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.7	
in % of Sales	2.5 %	2.3 %	2.1 %	2.0 %	2.0 %	2.0 %	2.0 %	2.0 %	2.0 %	2.0 %	2.0 %	2.0 %	2.0 %	
Changes in provisions	-0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Change in Liquidity from														
- Working Capital	0.0	0.0	0.0	0.5	0.6	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.3	
- Capex	0.3	0.4	0.6	1.1	1.2	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.7	
Capex in % of Sales	0.7 %	0.9 %	1.2 %	2.0 %	2.0 %	2.0 %	2.0 %	2.0 %	2.0 %	2.0 %	2.0 %	2.0 %	2.0 %	
Other	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Free Cash Flow (WACC Model)	-1.1	0.6	1.7	1.5	1.9	2.4	2.7	2.9	3.0	3.2	3.3	3.5	3.8	3
PV of FCF	-1.0	0.5	1.3	1.1	1.2	1.4	1.3	1.3	1.2	1.2	1.1	1.0	1.0	9
share of PVs		3.78 %						54.95	5%					41.27 %
Model parameter							Valuati	on (m)						
Derivation of WACC:			Derivation	of Beta:			Presen	t values 20	32e	1	3			
								al Value			9			
Debt ratio	0.00 %		Financial S	•		2.50		al liabilities	6		0			
Cost of debt (after tax)	3.8 %		Liquidity (s	hare)		3.00		n liabilities			5			
Market return	7.00 %		Cyclicality			1.00	Hybrid	•			0			
Risk free rate	1.50 %	-	Transparer	псу		1.40	Minority	/ interest			0			
		(	Others			1.00		val. of inve	estments	-	1			
		-					Liquidit	y				No. of sha	res (m)	5.5
WACC	11.29 %		Beta			1.78	Equity	Value		1	7	Value per	share (EU	R) 3.00

#### Sensitivity Value per Share (EUR)

		Terminal C	Growth								Delta EBIT	-margin					
Beta	WACC	1.00 %	1.50 %	1.75 %	2.00 %	2.25 %	2.50 %	3.00 %	Beta	WACC	-2.0 pp	-1.0 pp	-0.5 pp	+0.0 pp	+0.5 pp	+1.0 pp	+2.0 pp
2.05	12.8 %	2.25	2.30	2.32	2.35	2.38	2.41	2.47	2.05	12.8 %	0.45	1.40	1.87	2.35	2.82	3.30	4.25
1.96	12.3 %	2.43	2.48	2.51	2.55	2.58	2.61	2.69	1.96	12.3 %	0.56	1.55	2.05	2.55	3.04	3.54	4.53
1.87	11.8 %	2.63	2.69	2.73	2.76	2.80	2.84	2.93	1.87	11.8 %	0.67	1.72	2.24	2.76	3.28	3.81	4.85
1.78	11.3 %	2.85	2.92	2.96	3.00	3.05	3.10	3.20	1.78	11.3 %	0.81	1.91	2.46	3.00	3.55	4.10	5.20
1.69	10.8 %	3.09	3.18	3.22	3.27	3.33	3.38	3.51	1.69	10.8 %	0.96	2.12	2.69	3.27	3.85	4.43	5.59
1.60	10.3 %	3.36	3.46	3.52	3.58	3.64	3.71	3.85	1.60	10.3 %	1.12	2.35	2.96	3.58	4.19	4.80	6.03
1.51	9.8 %	3.66	3.78	3.85	3.92	3.99	4.07	4.25	1.51	9.8 %	1.31	2.62	3.27	3.92	4.57	5.22	6.52

• We expect a return to mid single-digit sales growth and assume 2% growth in the terminal value

• The group EBITDA margin should reach the 7%-level, less than 50% of the historical peak margin of 15% in Germany (2014)

• We assume a beta of 1.8 to account for the low liquidity and the execution risk for the gross margin increase

• The tax loss carry-forwards lead to very low tax rate.



### **Free Cash Flow Value Potential**

Warburg Research's valuation tool "FCF Value Potential" reflects the ability of the company to generate sustainable free cash flows. It is based on the "FCF potential" - a FCF "ex growth" figure - which assumes unchanged working capital and pure maintenance capex. A value indication is derived via the perpetuity of a given year's "FCF potential" with consideration of the weighted costs of capital. The fluctuating value indications over time add a timing element to the DCF model (our preferred valuation tool).

in EUR m		2016	2017	2018	2019	2020e	2021e	2022e
Net Income before minorities		-10.6	-2.1	-20.5	-2.6	-1.2	0.3	1.6
+ Depreciation + Amortisation		1.6	1.6	0.9	2.0	1.0	1.0	1.0
- Net Interest Income		-0.6	-0.6	-0.2	-0.2	-0.2	-0.2	-0.1
<ul> <li>Maintenance Capex</li> </ul>		1.1	1.1	0.7	1.4	0.7	0.7	0.7
+ Other		0.0	0.0	0.0	0.0	0.0	0.0	0.0
= Free Cash Flow Potential		-9.6	-1.0	-20.0	-1.7	-0.7	0.8	2.1
FCF Potential Yield (on market EV	<b>)</b>	-11.6 %	-1.8 %	-49.7 %	-15.7 %	-5.1 %	6.0 %	17.5 %
WACC		11.29 %	11.29 %	11.29 %	11.29 %	11.29 %	11.29 %	11.29 %
= Enterprise Value (EV)		82.3	58.5	40.2	11.1	13.2	12.9	11.8
= Fair Enterprise Value		n.a.	n.a.	n.a.	n.a.	n.a.	6.8	18.3
- Net Debt (Cash)		13.0	13.2	11.3	2.0	0.4	0.0	0.0
- Pension Liabilities		7.5	7.5	7.5	7.5	4.5	4.5	4.5
- Other		0.0	0.0	0.0	0.0	0.0	0.0	0.0
<ul> <li>Market value of minorities</li> </ul>		0.0	0.0	0.0	0.0	0.0	0.0	0.0
<ul> <li>Market value of investments</li> </ul>		0.0	0.0	0.0	0.0	0.0	0.0	0.0
= Fair Market Capitalisation		n.a.	n.a.	n.a.	n.a.	n.a.	2.3	13.8
Number of shares, average		5.5	5.5	5.5	5.5	5.5	5.5	5.5
= Fair value per share (EUR)		n.a.	n.a.	n.a.	n.a.	n.a.	0.42	2.51
premium (-) / discount (+) in %							-80.0 %	19.7 %
Sensitivity Fair value per Share (	EUR)							
	14.29 %	n.a.	n.a.	n.a.	n.a.	n.a.	0.16	1.81
	13.29 %	n.a.	n.a.	n.a.	n.a.	n.a.	0.23	2.01
	12.29 %	n.a.	n.a.	n.a.	n.a.	n.a.	0.32	2.24
WACC	11.29 %	n.a.	n.a.	n.a.	n.a.	n.a.	0.42	2.51
	10.29 %	n.a.	n.a.	n.a.	n.a.	n.a.	0.54	2.84
	9.29 %	n.a.	n.a.	n.a.	n.a.	n.a.	0.69	3.23
	8.29 %	n.a.	n.a.	n.a.	n.a.	n.a.	0.87	3.72

• We estimate maintenance capex in line with depreciation



#### Valuation 2022e 2016 2017 2018 2019 2020e 2021e Price / Book 1.8 x 1.5 x 5.0 x 1.7 x 3.9 x 3.6 x 2.4 x 0.45 0.51 Book value per share ex intangibles 6.92 0.66 0.81 5.67 1.11 EV / Sales 1.4 x 0.9 x 0.8 x 0.3 x 0.3 x 0.3 x 0.2 x 254.5 x EV / EBITDA 8.6 x 4.2 x n.a. n.a. n.a. n.a. EV / EBIT 28.0 x 6.7 x n.a. n.a. n.a. n.a. n.a. EV / EBIT adj.\* 28.0 x 6.7 x n.a. n.a. n.a. n.a. n.a. P / FCF 9.7 x 11.5 x 4.6 x 14.1 x 7.5 x n.a. n.a. P/E 40.7 x 7.2 x n.a. n.a. n.a. n.a. n.a. P / E adj.\* n.a. n.a. n.a. n.a. n.a. 40.7 x 7.2 x **Dividend Yield** n.a. n.a. n.a. n.a. n.a. n.a. n.a. FCF Potential Yield (on market EV) -15.7 % -5.1 % 6.0 % 17.5 % -11.6 % -1.8 % -49.7 % \*Adjustments made for: -

#### **Company Specific Items**

oompany opeenic items							
	2016	2017	2018	2019	2020e	2021e	2022e
Active Customers	84,587	82,062	74,198	59,750	64,246	69,024	75,340
Revenue per Customer	691.31	823.28	688.90	737.87	653.70	666.98	664.15
Average Selling Price	69.72	73.16	68.50	61.54	55.83	58.29	60.34
eCommerce sales in % of group sales	41.9 %	34.5 %	39.0 %	41.8 %	51.7 %	102.9 %	300.9 %
eCommerce sales in EURm	25	23	20	18	22	47	151
Volume (in pieces)	894,407	923,476	746,254	716,395	752,215	789,825	829,317
Gross profit per piece	35.00	32.00	18.11	28.80	28.89	31.18	32.88



# Consolidated profit and loss

<b>58.5</b> -19.5 % 31.8 <b>26.7</b> 45.6 % 0.0 23.4 12.8 0.0 0.5 0.0	67.6 15.5 % 37.7 29.8 44.1 % 0.0 23.7 8.9	<b>51.1</b> -24.3 % 37.6 <b>13.5</b> 26.4 % 0.0 23.7	<b>44.1</b> -13.7 % 23.5 <b>20.6</b> 46.8 % 0.0	<b>42.0</b> -4.7 % 20.3 <b>21.7</b> 51.8 %	<b>46.0</b> 9.6 % 21.4 <b>24.6</b>	22.8
31.8 <b>26.7</b> 45.6 % 0.0 23.4 12.8 0.0 0.5	37.7 <b>29.8</b> 44.1 % 0.0 23.7 8.9	37.6 <b>13.5</b> 26.4 % 0.0	23.5 <b>20.6</b> 46.8 %	20.3 <b>21.7</b>	21.4 <b>24.6</b>	
<b>26.7</b> 45.6 % 0.0 23.4 12.8 0.0 0.5	<b>29.8</b> 44.1 % 0.0 23.7 8.9	<b>13.5</b> 26.4 % 0.0	<b>20.6</b> 46.8 %	21.7	24.6	22.8 <b>27.3</b>
45.6 % 0.0 23.4 12.8 0.0 0.5	44.1 % 0.0 23.7 8.9	26.4 % 0.0	46.8 %			27.3
0.0 23.4 12.8 0.0 0.5	0.0 23.7 8.9	0.0		51.8 %		
23.4 12.8 0.0 0.5	23.7 8.9		0.0		53.5 %	54.5 %
12.8 0.0 0.5	8.9	22 7		0.0	0.0	0.0
0.0 0.5			18.1	16.5	17.4	18.4
0.5		7.7	8.3	6.3	6.8	7.1
	0.0	0.6	1.2	0.1	0.1	0.1
0.0	1.1	0.1	4.7	0.1	0.1	0.1
	0.0	0.0	0.0	0.0	0.0	0.0
-7.5	0.0	-17.5	-0.3	0.1	1.5	2.8
-12.8 %	0.0 %	-34.2 %	-0.7 %	0.1 %	3.3 %	5.6 %
1.6	1.6	0.9	2.0	1.0	1.0	1.0
-4.2	-0.6	-17.5	-0.3	0.1	1.5	2.8
-7.2 %	-0.8 %	-34.2 %	-0.7 %	0.1 %	3.3 %	5.6 %
0.0	0.0	0.0	0.0	0.0	0.0	0.0
-9.0	-1.6	-18.4	-2.3	-1.0	0.5	1.8
-15.5 %	-2.4 %	-36.1 %	-5.3 %	-2.3 %	1.0 %	3.5 %
-5.8	-2.2	-18.4	-2.3	-1.0	0.5	1.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.6	0.6	0.2	0.2	0.2	0.2	0.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0
-9.6	-2.2	-18.6	-2.6	-1.2	0.3	1.6
-16.5 %	-3.3 %	-36.5 %	-5.9 %	-2.8 %	0.6 %	3.2 %
1.0	-0.1	1.8	0.0	0.0	0.0	0.0
-10.6	-2.1	-20.5	-2.6	-1.2	0.3	1.6
-4.9	-3.9	-6.9	0.0	0.0	0.0	0.0
-15.5	-6.0	-27.4	-2.6	-1.2	0.3	1.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0
-15.5	-6.0	-27.4	-2.6	-1.2	0.3	1.6
-26.5 %	-8.9 %	-53.6 %	-5.9 %	-2.8 %	0.6 %	3.2 %
5.5	5.5	5.5	5.5	5.5	5.5	5.5
-2.82	-1.10	-4.98	-0.47	-0.21	0.05	0.29
	-0.49	0 70				
-1.29	0.40	-3.73	-0.47	-0.21	0.05	0.29
	-4.2 -7.2 % 0.0 -15.5 % -5.8 0.0 0.6 0.0 -9.6 -16.5 % 1.0 -10.6 -4.9 -15.5 0.0 -15.5 0.0 -15.5 -26.5 % 5.5 -2.82	-4.2         -0.6           -7.2 %         -0.8 %           0.0         0.0           -9.0         -1.6           -15.5 %         -2.4 %           -5.8         -2.2           0.0         0.0           0.6         0.6           0.0         0.0           0.6         0.6           0.0         0.0           -5.8         -2.2           -16.5 %         -3.3 %           1.0         -0.1           -16.5 %         -3.3 %           1.0         -0.1           -16.5 %         -3.9           -15.5         -6.0           0.0         0.0           -15.5         -6.0           -26.5 %         -8.9 %           5.5         5.5           -2.82         -1.10	-4.2-0.6-17.5 $-7.2 \%$ $-0.8 \%$ $-34.2 \%$ $0.0$ $0.0$ $0.0$ $-9.0$ $-1.6$ $-18.4$ $-15.5 \%$ $-2.4 \%$ $-36.1 \%$ $-5.8$ $-2.2$ $-18.4$ $0.0$ $0.0$ $0.0$ $0.6$ $0.2$ $-16.6$ $0.0$ $0.0$ $0.0$ $0.6$ $0.2$ $0.0$ $0.0$ $0.0$ $-9.6$ $-2.2$ $-18.6$ $-16.5 \%$ $-3.3 \%$ $-36.5 \%$ $1.0$ $-0.1$ $1.8$ $-10.6$ $-2.1$ $-20.5$ $-4.9$ $-3.9$ $-6.9$ $-15.5$ $-6.0$ $-27.4$ $0.0$ $0.0$ $0.0$ $-15.5$ $-6.0$ $-27.4$ $-26.5 \%$ $-8.9 \%$ $-53.6 \%$ $5.5$ $5.5$ $5.5$ $-2.82$ $-1.10$ $-4.98$	-4.2-0.6-17.5-0.3 $-7.2 \%$ $-0.8 \%$ $-34.2 \%$ $-0.7 \%$ $0.0$ $0.0$ $0.0$ $0.0$ $-9.0$ $-1.6$ $-18.4$ $-2.3$ $-15.5 \%$ $-2.4 \%$ $-36.1 \%$ $-5.3 \%$ $-5.8$ $-2.2$ $-18.4$ $-2.3$ $0.0$ $0.0$ $0.0$ $0.0$ $0.6$ $0.6$ $0.2$ $0.2$ $0.0$ $0.0$ $0.0$ $0.0$ $0.6$ $0.2$ $0.2$ $0.0$ $0.0$ $0.0$ $-9.6$ $-2.2$ $-18.6$ $-2.6$ $-3.3 \%$ $-36.5 \%$ $-16.5 \%$ $-3.3 \%$ $-36.5 \%$ $-5.9 \%$ $-16.6$ $-27.4$ $-2.6$ $-4.9$ $-3.9$ $-6.9$ $0.0$ $-15.5$ $-6.0$ $-27.4$ $-2.6$ $-4.9$ $-3.9$ $-53.6 \%$ $-5.9 \%$ $5.5$ $5.5$ $5.5$ $-26.5 \%$ $-8.9 \%$ $-53.6 \%$ $5.5$ $5.5$ $5.5$ $-2.82$ $-1.10$ $-4.98$	-4.2-0.6-17.5-0.30.1 $-7.2 \%$ $-0.8 \%$ $-34.2 \%$ $-0.7 \%$ $0.1 \%$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $-9.0$ $-1.6$ $-18.4$ $-2.3$ $-1.0$ $-15.5 \%$ $-2.4 \%$ $-36.1 \%$ $-5.3 \%$ $-2.3 \%$ $-5.8$ $-2.2$ $-18.4$ $-2.3$ $-1.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.6$ $0.6$ $0.2$ $0.2$ $0.0$ $0.0$ $0.0$ $0.0$ $0.6$ $0.2$ $0.2$ $0.2$ $0.0$ $0.0$ $0.0$ $0.0$ $0.6$ $0.2$ $0.2$ $0.2$ $0.0$ $0.0$ $0.0$ $0.0$ $-9.6$ $-2.2$ $-18.6$ $-2.6$ $-1.2$ $-16.5 \%$ $-3.3 \%$ $-36.5 \%$ $-5.9 \%$ $-2.8 \%$ $1.0$ $-0.1$ $1.8$ $0.0$ $0.0$ $0.0$ $0.0$ $-16.5 \%$ $-3.3 \%$ $-36.5 \%$ $-2.6 \%$ $-2.1$ $-20.5$ $-2.6$ $-1.2$ $-4.9$ $-3.9$ $-6.9$ $0.0$ $0.0$ $0.0$ $-15.5$ $-6.0$ $-27.4$ $-2.6$ $-1.2$ $-26.5 \%$ $-8.9 \%$ $-5.5$ $5.5$ $5.5$ $5.5$ $5.5$ $5.5$ $5.5$ $5.5$ $5.5$ $5.5$ $5.5$ $5.5$	-4.2-0.6-17.5-0.30.11.5 $-7.2\%$ $-0.8\%$ $-34.2\%$ $-0.7\%$ $0.1\%$ $3.3\%$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $-9.0$ -1.6 $-18.4$ $-2.3$ $-1.0$ $0.5$ $-15.5\%$ $-2.4\%$ $-36.1\%$ $-5.3\%$ $-2.3\%$ $1.0\%$ $-5.8$ $-2.2$ $-18.4$ $-2.3$ $-1.0$ $0.5$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.6$ $0.6$ $0.2$ $0.2$ $0.2$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.6$ $0.6$ $0.2$ $0.2$ $0.2$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.6$ $0.6$ $0.2$ $0.2$ $0.2$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.6$ $0.2$ $0.2$ $0.2$ $0.2$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $0.6$ $0.2$ $0.2$ $0.2$ $0.2$ $0.0$ $0.0$ $0.0$ $0.0$ $0.0$ $-16.5\%$ $-3.3\%$ $-36.5\%$ $-5.9\%$ $-2.8\%$ $1.0$ $-0.1$ $1.8$ $0.0$ $0.0$ $0.0$ $-16.6$ $-2.1$ $-20.5$ $-2.6$ $-1.2$ $0.3$ $-4.9$ $-3.9$ $-6.9$ $0.0$ $0.0$ $0.0$ $-15.5$ $-6.0$ $-27.4$ $-2.6$ $-1.2$ $0.3$ $0.0$ $0.0$ $0.0$ $0.6\%$ $0.6\%$ $-26.5\%$

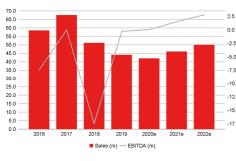
#### Guidance: excluding COVID19 up to EUR +1m EBITDA

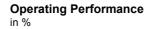
#### **Financial Ratios**

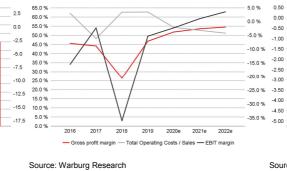
	2016	2017	2018	2019	2020e	2021e	2022e
Total Operating Costs / Sales	62.0 %	48.2 %	62.7 %	62.8 %	54.3 %	52.7 %	51.2 %
Operating Leverage	-0.2 x	-5.3 x	-43.4 x	6.3 x	12.2 x	n.a.	32.5 x
EBITDA / Interest expenses	n.m.	0.0 x	n.m.	n.m.	0.3 x	8.3 x	18.7 x
Tax rate (EBT)	-10.2 %	3.3 %	-9.9 %	0.0 %	0.0 %	0.0 %	0.0 %
Dividend Payout Ratio	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
Sales per Employee	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.



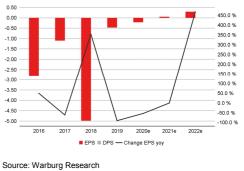
Source: Warburg Research







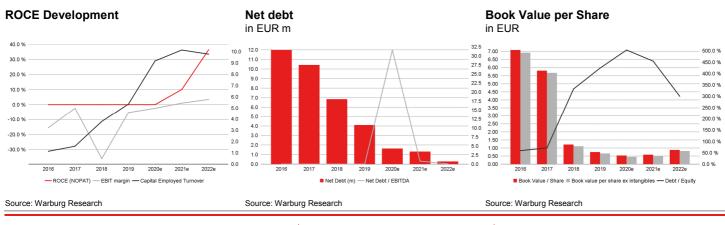
#### Performance per Share



# Consolidated balance sheet



2016 0.9 0.0 11.2 0.0 2.5 14.7	2017 0.8 0.0 9.4 0.0	<b>2018</b> 0.6 0.6 0.0 2.2	2019 0.5 0.5 0.0	<b>2020e</b> 0.4 0.4	<b>2021e</b> 0.4 0.4	<b>2022e</b>
0.9 0.0 11.2 0.0 2.5	0.8 0.0 9.4 0.0	0.6 0.0	0.5	0.4		0.4
0.9 0.0 11.2 0.0 2.5	0.8 0.0 9.4 0.0	0.6 0.0	0.5	0.4		0.4
0.0 11.2 0.0 2.5	0.0 9.4 0.0	0.0			0.4	
11.2 0.0 2.5	9.4 0.0		0.0		0.4	0.4
0.0 2.5	0.0	2.2		0.0	0.0	0.0
2.5			1.6	1.4	1.3	1.4
		0.0	0.0	0.0	0.0	0.0
14.7	2.3	0.4	3.3	2.8	2.3	1.8
	12.4	3.2	5.4	4.6	4.0	3.6
38.9	33.5	20.5	13.4	8.4	8.7	9.5
3.5	3.0	1.4	1.4	1.3	1.4	1.5
1.8	1.5	2.6	0.9	2.9	3.2	4.2
1.7	2.4	1.0	0.5	0.5	0.5	0.5
45.9	40.5	25.5	16.2	13.1	13.9	15.8
62.1	54.7	28.8	21.6	17.7	17.9	19.4
39.0	32.0	6.7	4.1	2.9	3.2	4.8
1.2	1.0	7.8	7.5	7.2	6.7	6.2
0.6	0.7	7.5	4.5	4.5	4.5	4.5
13.2	11.3	2.0	0.4	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.2	7.3	9.0	5.6	3.8	4.1	4.5
2.5	3.1	3.4	3.8	3.8	3.8	3.8
23.1	22.8	22.2	17.5	14.8	14.7	14.5
62.1	54.7	28.8	21.6	17.7	17.9	19.4
2016	2017	2018	2019	2020e	2021e	2022e
1.2 x	1.8 x	3.4 x	4.1 x	5.7 x	6.3 x	6.3 x
1.1 x	1.6 x	3.8 x	5.4 x	9.2 x	10.1 x	9.8 x
-105.5 %	-48.8 %	-858.0 %	-47.9 %	-25.4 %	7.1 %	45.2 %
n.a.	n.a.	n.a.	n.a.	n.a.	10.1 %	36.4 %
-34.5 %	-17.0 %	-141.9 %	-47.8 %	-33.5 %	9.2 %	40.1 %
-15.7 %	-7.6 %	-106.1 %	-47.8 %	-33.5 %	9.2 %	40.1 %
12.0	10.4	6.8	4.1	1.6	1.3	0.3
11.4	9.8	-0.6	-0.4			-4.2
						5.9 %
		n.a.	n.a.		n.a.	n.a
						0.9
						0.8
	1.8 1.7 45.9 62.1 39.0 1.2 0.6 13.2 0.0 6.2 2.5 23.1 62.1 62.1 62.1 2016 1.2 x 1.1 x -105.5 % n.a. -34.5 % -15.7 %	$1.8$ $1.5$ $1.7$ $2.4$ $45.9$ $40.5$ $62.1$ $54.7$ $39.0$ $32.0$ $1.2$ $1.0$ $0.6$ $0.7$ $13.2$ $11.3$ $0.0$ $0.0$ $6.2$ $7.3$ $2.5$ $3.1$ $23.1$ $22.8$ $62.1$ $54.7$ $2016$ $2017$ $1.2 \times$ $1.8 \times$ $1.1 \times$ $1.6 \times$ $-105.5 \%$ $-48.8 \%$ $n.a.$ $n.a.$ $-34.5 \%$ $-17.0 \%$ $-15.7 \%$ $-7.6 \%$ $12.0$ $10.4$ $11.4$ $9.8$ $30.8 \%$ $32.6 \%$ $n.a.$ $n.a.$ $7.1$ $5.8$	1.8       1.5       2.6         1.7       2.4       1.0         45.9       40.5       25.5         62.1       54.7       28.8	1.81.52.60.91.72.41.00.545.940.525.516.262.154.728.821.639.032.06.74.11.21.07.87.50.60.77.54.513.211.32.00.40.00.00.00.06.27.39.05.62.53.13.43.823.122.822.217.562.154.728.821.62016201720162017201820191.2 x1.8 x3.4 x4.1 x1.6 x3.8 x5.4 x-105.5 %-48.8 %-858.0 %-47.9 %n.a.n.a.n.a.n.a34.5 %-17.0 %-141.9 %-47.8 %12.010.46.84.111.49.8-0.6-0.430.8 %32.6 %102.5 %99.4 %n.a.n.a.n.a.n.a.7.15.81.20.7	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$



COMMENT

Published 18.08.2020

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### Consolidated cash flow statement



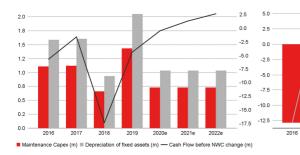
In EUR m	2016	2017	2018	2019	2020e	2021e	20226
Net income	-15.5	-6.0	-27.4	-2.6	-1.2	0.3	1.6
Depreciation of fixed assets	1.6	1.6	0.9	2.0	1.0	1.0	1.0
Amortisation of goodwill	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Amortisation of intangible assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Increase/decrease in long-term provisions	0.7	0.0	0.2	0.6	-0.3	0.0	0.0
Other non-cash income and expenses	7.6	2.8	8.9	-4.4	0.0	0.0	0.0
Cash Flow before NWC change	-5.7	-1.6	-17.4	-4.4	-0.5	1.3	2.7
Increase / decrease in inventory	-2.5	4.6	4.4	7.1	5.0	-0.3	-0.8
Increase / decrease in accounts receivable	-1.5	-0.4	1.9	0.6	0.1	-0.1	-0.1
Increase / decrease in accounts payable	-2.2	2.6	4.7	-2.5	-1.9	0.4	0.4
Increase / decrease in other working capital positions	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Increase / decrease in working capital (total)	-6.2	6.8	11.1	5.1	3.3	-0.1	-0.5
Net cash provided by operating activities [1]	-11.9	5.2	-6.3	0.8	2.8	1.2	2.1
Investments in intangible assets	0.1	0.0	0.1	0.0	0.1	0.1	0.1
Investments in property, plant and equipment	0.9	0.2	0.4	0.2	0.2	0.3	0.5
Payments for acquisitions	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Financial investments	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Income from asset disposals	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net cash provided by investing activities [2]	-1.0	-0.2	-0.5	-0.2	-0.3	-0.4	-0.6
Change in financial liabilities	-0.7	-2.0	-3.3	-2.2	-0.5	-0.5	-0.5
Dividends paid	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Purchase of own shares	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Capital measures	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	1.9	-3.2	10.5	0.0	0.0	0.0	0.0
Net cash provided by financing activities [3]	1.2	-5.2	7.2	-2.2	-0.5	-0.5	-0.5
Change in liquid funds [1]+[2]+[3]	-11.7	-0.3	0.4	-1.6	2.0	0.3	1.0
Effects of exchange-rate changes on cash	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cash and cash equivalent at end of period	1.8	1.5	2.6	0.9	2.9	3.2	4.2

# **Financial Ratios**

Financial Ratios							
	2016	2017	2018	2019	2020e	2021e	2022e
Cash Flow							
FCF	-12.8	5.0	-6.7	0.6	2.5	0.8	1.5
Free Cash Flow / Sales	-22.0 %	7.4 %	-13.2 %	1.4 %	6.0 %	1.8 %	3.1 %
Free Cash Flow Potential	-9.6	-1.0	-20.0	-1.7	-0.7	0.8	2.1
Free Cash Flow / Net Profit	82.8 %	-82.2 %	24.6 %	-23.5 %	-212.2 %	287.6 %	94.9 %
Interest Received / Avg. Cash	0.0 %	0.0 %	0.2 %	0.2 %	0.2 %	0.1 %	0.1 %
Interest Paid / Avg. Debt	4.6 %	5.0 %	3.3 %	19.5 %	89.5 %	n.a.	n.a.
Management of Funds							
Investment ratio	1.7 %	0.3 %	0.9 %	0.4 %	0.7 %	0.9 %	1.2 %
Maint. Capex / Sales	1.9 %	1.7 %	1.3 %	3.3 %	1.7 %	1.6 %	1.5 %
Capex / Dep	61.3 %	14.4 %	48.2 %	8.7 %	28.9 %	38.5 %	57.8 %
Avg. Working Capital / Sales	61.1 %	48.4 %	41.2 %	25.0 %	17.9 %	12.9 %	12.5 %
Trade Debtors / Trade Creditors	56.2 %	40.4 %	15.8 %	24.8 %	33.3 %	33.3 %	33.3 %
Inventory Turnover	0.8 x	1.1 x	1.8 x	1.8 x	2.4 x	2.4 x	2.4 x
Receivables collection period (days)	22	16	10	12	11	11	11
Payables payment period (days)	71	71	87	88	68	71	72
Cash conversion cycle (Days)	397	270	122	132	94	89	91

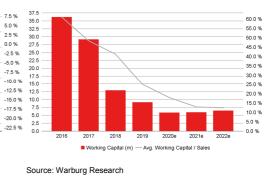
# CAPEX and Cash Flow in EUR m

Source: Warburg Research



Free Cash Flow Generation

#### **Working Capital**





2017

Source: Warburg Research

2018

20226

2019 2020e 2021e

FCF (m) - Free Cash Flow / Sales

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The valuation underlying the investment recommendation for the company analysed here is based on generally accepted and widely used methods of fundamental analysis, such as e.g. DCF Model, Free Cash Flow Value Potential, NAV, Peer Group Comparison or Sum of the Parts Model (see also <u>http://www.mmwarburg.de/disclaimer/disclaimer.htm#Valuation</u>). The result of this fundamental valuation is modified to take into consideration the analyst's assessment as regards the expected development of investor sentiment and its impact on the share price.

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Company	Disclosure	Link to the historical price targets and rating changes (last 12 months)
elumeo	5	http://www.mmwarburg.com/disclaimer/disclaimer en/DE000A11Q059.htm



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Investment recommendation: expected direction of the share price development of the financial instrument up to the given <u>price target</u> in the opinion of the analyst who covers this financial instrument.

-В-	Buy:	The price of the analysed financial instrument is expected to rise over the next 12 months.	
-H-	Hold:	The price of the analysed financial instrument is expected to remain mostly flat over the next 12 months.	
-S-	Sell:	The price of the analysed financial instrument is expected to fall over the next 12 months.	
"_"	Rating suspended:	The available information currently does not permit an evaluation of the company.	

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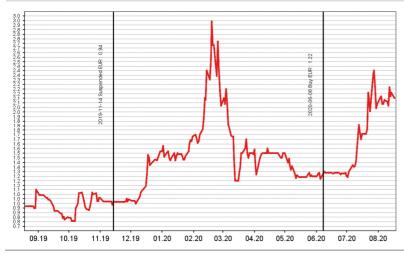
Rating	Number of stocks	% of Universe
Buy	131	65
Hold	56	28
Sell	11	5
Rating suspended	5	2
Total	203	100

#### WARBURG RESEARCH GMBH – ANALYSED RESEARCH UNIVERSE BY RATING ...

... taking into account only those companies which were provided with major investment services in the last twelve months.

Rating	Number of stocks	% of Universe
Buy	35	88
Hold	3	8
Sell	0	0
Rating suspended	2	5
Total	40	100

#### PRICE AND RATING HISTORY ELUMEO AS OF 18.08.2020



Markings in the chart show rating changes by Warburg Research GmbH in the last 12 months. Every marking details the date and closing price on the day of the rating change.

#### EQUITIES

Matthias Rode Head of Equities

#### RESEARCH

Michael Heider Head of Research Henner Rüschmeier Head of Research Stefan Augustin Cap. Goods, Engineering Jan Bauer Renewables Jonas Blum Telco. Construction **Christian Cohrs** Industrials & Transportation Felix Ellmann Software, IT Jörg Philipp Frey Retail, Consumer Goods Marius Fuhrberg **Financial Services** Mustafa Hidir Automobiles, Car Suppliers **Ulrich Huwald** Health Care, Pharma Philipp Kaiser Real Estate

#### INSTITUTIONAL EQUITY SALES

Marc Niemann Head of Equity Sales, Germany Klaus Schilling Head of Equity Sales, Germany Tim Beckmann United Kingdom Lyubka Bogdanova Ireland, Poland, Australia Jens Buchmüller Scandinavia, Austria Alexander Eschweiler Germany, Luxembourg Matthias Fritsch United Kingdom

#### SALES TRADING

Oliver Merckel Head of Sales Trading Elyaz Dust Sales Trading Michael Ilgenstein Sales Trading

#### MACRO RESEARCH

For access please contact:

Warburg Research

Andrea Schaper

Sales Assistance

Bloomberg

FactSet

saugustin@warburg-research.com +49 40 309537-155 jbauer@warburg-research.com +49 40 309537-240 jblum@warburg-research.com +49 40 309537-175 ccohrs@warburg-research.com +49 40 309537-120 fellmann@warburg-research.com +49 40 309537-258 jfrey@warburg-research.com +49 40 309537-185 mfuhrberg@warburg-research.com +49 40 309537-230 mhidir@warburg-research.com +49 40 309537-255 uhuwald@warburg-research.com +49 40 309537-260 pkaiser@warburg-research.com

+49 40 3282-2678

+49 40 309537-280

+49 40 309537-270

+49 40 309537-168

mheider@warburg-research.com

hrueschmeier@warburg-research.com

mrode@mmwarburg.com

+49 40 3282-2660 mniemann@mmwarburg.com +49 40 3282-2664 kschilling@mmwarburg.com +49 40 3282-2665 tbeckmann@mmwarburg.com +49 69 5050-7411 lbogdanova@mmwarburg.com +49 69 5050-7415 jbuchmueller@mmwarburg.com +49 40 3282-2669 aeschweiler@mmwarburg.com +49 40 3282-2696 mfritsch@mmwarburg.com

+49 40 3282-2634

+49 40 3282-2702

+49 40 3282-2700

MMWA GO

www.factset.com

+49 40 3282-2632

aschaper@mmwarburg.com

edust@mmwarburg.com

omerckel@mmwarburg.com

milgenstein@mmwarburg.com

research.mmwarburg.com/en/index.html

Thilo Kleibauer Retail, Consumer Goods Eggert Kuls Engineering Andreas Pläsier Banks, Financial Services Malte Schaumann Technology **Patrick Schmidt** Leisure. Internet **Oliver Schwarz** Chemicals, Agriculture Simon Stippig Real Estate Cansu Tatar Cap. Goods, Engineering Marc-René Tonn Automobiles, Car Suppliers Robert-Jan van der Horst Technology Andreas Wolf Software, IT

Tobias Hald United Kingdom Maximilian Martin Austria, Poland Christopher Seedorf Switzerland

Sophie Hauer Roadshow/Marketing Juliane Niemann

Roadshow/Marketing

Marcel Magiera Sales Trading Bastian Quast Sales Trading Jörg Treptow Sales Trading

**Kerstin Muthig** 

Sales Assistance

#### Dr. Christian Jasperneite Investment Strategy

Thomson Reuters Capital IQ bquast@mmwarburg.com +49 40 3282-2658 jtreptow@mmwarburg.com

+49 40 3282-2439 cjasperneite@mmwarburg.com

#### www.thomsonreuters.com www.capitaliq.com

+49 40 3282-2703 kmuthig@mmwarburg.com

WARBURG

+49 40 309537-257

+49 40 309537-256 ekuls@warburg-research.com

+49 40 309537-246

+49 40 309537-170

+49 40 309537-125

+49 40 309537-250

+49 40 309537-265

+49 40 309537-248

+49 40 309537-259

+49 40 309537-290

+49 40 309537-140 awolf@warburg-research.com

+49 40 3282-2695

+49 69 5050-7413

+49 69 5050-7414

+49 69 5050-7417

+49 40 3282-2694

+49 40 3282-2662

+49 40 3282-2701

shauer@mmwarburg.com

iniemann@mmwarburg.com

mmagiera@mmwarburg.com

thald@mmwarburg.com

mmartin@mmwarburg.com

cseedorf@mmwarburg.com

tkleibauer@warburg-research.com

aplaesier@warburg-research.com

pschmidt@warburg-research.com

oschwarz@warburg-research.com

sstippig@warburg-research.com

ctatar@warburg-research.com

mtonn@warburg-research.com

rvanderhorst@warburg-research.com

mschaumann@warburg-research.com