



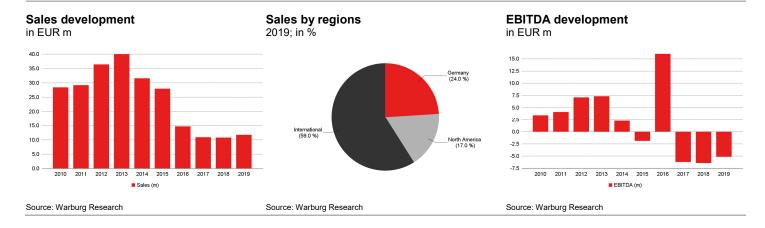
	(Under	Value Indicators:	EUR	Warburg ESG Risk Score:	1.8	Description:	
Hold	Review)	DCF:	3.77	ESG Score (MSCI based): Balance Sheet Score:	3.0 2.5	Producer of implants to men	id broken
EUR 3.77				Market Liquidity Score:	0.0	bones	
EUR J.II	_	Market Snapshot:	EUR m	Shareholders:		Key Figures (WRe):	2020e
		Market cap:	10.8	Freefloat	50.8 %	Beta:	1.7
Duite e		No. of shares (m):	3.2	Ratio Capital Management	16.3 %	Price / Book:	0.8 x
Price	EUR 3.38	EV:	15.2	Noes Beheer B.V.	13.6 %	Equity Ratio:	63 %
Upside	11.7 %	Freefloat MC:	5.5	Jürgen W. Krebs	9.9 %		
		Ø Trad. Vol. (30d):	17.47 th	Deepblue Holding AG	4.9 %		

## **Business stabilising**

- Improvement in operational and financial situation: aap announced in December 2020 a further stabilisation of the operating business. The avoidance of a total lockdown in Germany and parts of Europe allowed for progressive recovery in these regions while the positive development in the US continued. Following the first refinancing steps, including a capital reduction and the placement of a convertible bond, further financing measures will be evaluated in Q1 2021. At the end of Q3 2020, aap had cash holdings of EUR 1.7m, which should secure financing into H1 2021. Further refinancing measures will therefore be necessary in the short term. Measures under examination include further capital measures but also the out-licensing or targeted financing of the two platform technologies antibacterial silver coating and resorbable magnesium implants which are under development.
- aap was able to overcome the negative effects of the COVID-19 pandemic: The most important points are that sales are recovering in main markets such as Germany (Q3: -5%, 9M: -19% y-o-y) while the strong momentum in the US is continuing with sales growth of +68% in Q3 and +43% in the first nine months of 2020. aap is aiming for a full-year sales increase of at least 30%, a run-rate that should continue in 2021 in our view. Earnings are benefiting from the restructuring measures implemented (lower personnel expenses) and an increase in higher-margin sales in the US. In view of this and the discontinuation of the standard trauma portfolio, the gross profit margin improved to 93% in Q3 and 90% in 9M/2020. The loss at EBITDA level was clearly reduced. Recurring EBITDA improved to minus EUR 0.4m in Q3 and to minus EUR 3.3 in the first nine months, compared to minus EUR 4.6m in 9M 2019. Thus aap was able to compensate for the negative effects of the COVID-19 pandemic by massively reducing costs and improving margins by delivering on its plans to boost sales in the important North America region.
- Hold rating with PT of EUR 3.77: Our model has been reworked to consider the capital reduction (at a ratio of 10:1) and important refinancing steps like the issuance of a convertible bond with a volume of approx. EUR 2.6m. In regard to the underlying operating business we are assuming a continuation of high growth in the region of North America driven by new partnerships and an increased network of clinics and surgical operation centres. In Germany, Europe, and the rest of world, we are expecting sales growth of up to a mid-single-digit percentage rate. Margins should benefit from the increasing share of US sales (currently approx. 30% of group sales). Based on a DCF model, we derive a PT of EUR 3.77 per share. However, as we have excluded all potential contributions from the two platform strategies currently under development (antibacterial silver coating and resorbable magnesium implants), only the underlying business is reflected in the current share price level. Positive news in regard to the platform strategies and higher visibility of their value would allow us to increase our PT and should also be reflected in a higher share price. At this point in time, we rate aap with a Hold.

7.5		FY End: 31.12. in EUR m	CAGR (19-22e)	2016	2017	2018	2019	2020e	2021e	2022e
7 -										
6.5 - 6 -		Sales	0.7 %	14.7	10.9	10.8	11.7	9.4	10.6	12.0
5.5		Change Sales yoy		-47.5 %	-25.8 %	-1.1 %	8.9 %	-19.6 %	12.4 %	12.9 %
5 march March		EBITDA	-	16.0	-6.2	-6.4	-5.1	-5.5	-1.8	-0.1
4.5 -	m mmm	Margin		109.0 %	-57.0 %	-59.5 %	-43.8 %	-58.3 %	-17.4 %	-0.5 %
	V	EBITDA adj.		-7.9	-6.2	-6.4	-5.1	-5.5	-1.8	-0.1
3.5 - WWWW	N	Margin		-53.7 %	-57.0 %	-59.5 %	-43.8 %	-58.3 %	-17.4 %	-0.5 %
3 W MM	MMY	EBIT	-	13.7	-8.0	-8.1	-19.8	-8.3	-2.7	-0.9
2.5 -	1 LM	Margin		93.4 %	-73.3 %	-75.5 %	-168.4 %	-88.0 %	-25.1 %	-7.7 %
03/20 05/20 07/20 09/20	11/20 01/21	Net income	-	14.6	-8.9	-7.8	-19.5	-8.3	-2.8	-1.1
ap Implantate AG — CDAX (normal		EPS	-	0.47	-0.31	-0.27	-0.61	-2.59	-0.88	-0.34
	iseu)	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.
		FCFPS		-0.30	-0.26	-0.31	-0.23	-1.47	-0.89	-0.52
1 month:	33.4 %	FCF / Market cap		-2.3 %	-1.8 %	-1.8 %	-2.7 %	-43.5 %	-26.3 %	-15.5 %
6 months:	n/a	EV / Sales		25.9 x	36.4 x	44.7 x	23.1 x	1.3 x	1.4 x	1.4 x
Year to date:	7.2 %	EV / EBITDA		23.7 x	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Trailing 12 months:	n/a	EV / EBIT		27.7 x	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
5		P/E		27.7 x	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Company events:		FCF Potential Yield		3.8 %	-1.9 %	-1.7 %	-7.1 %	-66.5 %	-16.9 %	-4.9 %
31.03.21	FY 2020	Net Debt		-21.5	-12.2	-3.9	-0.6	1.5	4.4	6.0
13.08.21	Q2	ROCE (NOPAT)		48.8 %	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
		Guidance:	Sales EUR 8-	10m, upper h	alf; EBITDA	EUR -5.9 to	-4.5m			
		l								



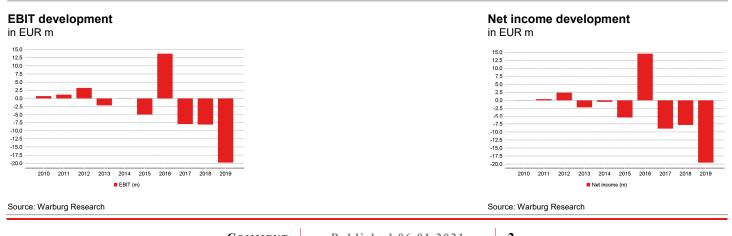


# **Company Background**

- aap Implantate AG develops, produces and sells medical implants, which are primarily used in orthopaedics to mend fractures.
- aap Implantate AG was founded in 1990 as a MBO from the Johnson & Johnson Group and is headquartered in Berlin.
- The company covers the entire value chain and sells the products worldwide with a focus on established markets as Germany, North America as well as further European countries.
- The products are sold by direct sale, international sales partners or OEM partnerships.
- Also addressed are so-called "Global Partners", larger companies interested in an agreement to distribute aap's current products (and, if approved, the silver coating technology) via their sales channels.

# **Competitive Quality**

- aap Implantate AG has developed a patent protected anatomical plating system (LOQTEQ), which provides significant improvements for surgeons, hospitals and clinics as well as patients.
- Additionally aap has a promising development pipeline with an antibacterial silver coating for the implants as well as coated magnesium implants.





DCF model														
	Detaile	d forecas	t period				٦	ransition	al period					Term. Value
Figures in EUR m	2020e	2021e	2022e	2023e	2024e	2025e	2026e	2027e	2028e	2029e	2030e	2031e	2032e	
Sales	9.4	10.6	12.0	13.6	15.3	17.1	19.2	21.2	23.0	24.7	26.0	26.9	27.8	
Sales change	-19.6 %	12.4 %	12.9 %	13.2 %	12.6 %	12.2 %	11.8 %	10.7 %	8.7 %	7.1 %	5.3 %	3.5 %	3.3 %	2.5 %
EBIT	-8.3	-2.7	-0.9	0.3	1.1	2.0	2.4	3.0	3.4	3.7	3.9	4.0	4.2	
EBIT-margin	-88.0 %	-25.1 %	-7.7 %	2.2 %	7.2 %	11.4 %	12.7 %	14.0 %	14.8 %	15.0 %	15.0 %	15.0 %	15.0 %	
Tax rate (EBT)	1.2 %	3.4 %	8.5 %	28.0 %	28.0 %	28.0 %	28.0 %	28.0 %	28.0 %	28.0 %	28.0 %	28.0 %	28.0 %	
NOPAT	-8.2	-2.6	-0.8	0.2	0.8	1.4	1.8	2.1	2.5	2.7	2.8	2.9	3.0	
Depreciation	2.8	0.8	0.9	0.6	0.7	0.7	0.8	0.8	0.9	1.0	1.0	0.8	0.8	
in % of Sales	29.7 %	7.8 %	7.2 %	4.5 %	4.3 %	4.1 %	4.0 %	3.9 %	3.9 %	3.9 %	4.0 %	3.0 %	3.0 %	
Changes in provisions	0.0	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	-1.1	0.5	1.1	0.5	0.6	0.5	0.4	0.3	0.0	-0.2	-0.5	-0.7	-1.4	
- Capex	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.6	0.7	0.7	0.8	0.8	0.8	
Capex in % of Sales	3.7 %	3.3 %	3.0 %	3.0 %	3.0 %	3.0 %	3.0 %	3.0 %	3.0 %	3.0 %	3.0 %	3.0 %	3.0 %	
Other	0.0	0.0	0.0	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)	-4.6	-2.6	-1.4	-0.1	0.4	1.1	1.5	2.0	2.6	3.1	3.5	3.6	4.4	3
PV of FCF	-4.2	-2.2	-1.1	-0.1	0.3	0.6	0.8	0.9	1.1	1.2	1.2	1.1	1.2	11
share of PVs		-65.25 %						73.23	3 %					92.02 %
Model parameter							Valuat	ion (m)						
Derivation of WACC:			Derivation	of Beta:			Presen	t values 20	032e		1			
							Termin	al Value		1	1			
Debt ratio	15.00 %		Financial S	Strength		2.90	Financ	al liabilitie	s		2			
Cost of debt (after tax)	6.8 %		Liquidity (s	share)		1.80	Pensio	n liabilities	;		0			
Market return	7.00 %		Cyclicality			1.20	Hybrid	capital			0			
Risk free rate	1.50 %		Transpare	ncy		1.40	Minorit	y interest			0			
			Others			1.20	Market	val. of inv	estments		0			
							Liquidit	,				No. of sha	. ,	3.2
WACC	10.24 %		Beta			1.70	Equity	Value		1	2	Value per	r share (E	UR) 3.77
Sensitivity Value per Sl	hare (FUP	)												
Sensitivity value per Si		1												

		Terminal	Growth								Delta EBIT	-margin					
Beta	WACC	1.75 %	2.00 %	2.25 %	2.50 %	2.75 %	3.00 %	3.25 %	Beta	WACC	-1.5 pp	-1.0 pp	-0.5 pp	+0.0 pp	+0.5 pp	+1.0 pp	+1.5 pp
1.91	11.2 %	2.68	2.74	2.81	2.88	2.96	3.04	3.13	1.91	11.2 %	2.20	2.43	2.66	2.88	3.11	3.34	3.57
1.81	10.7 %	3.05	3.13	3.21	3.30	3.39	3.49	3.59	1.81	10.7 %	2.57	2.81	3.05	3.30	3.54	3.78	4.03
1.75	10.5 %	3.26	3.34	3.43	3.52	3.62	3.73	3.84	1.75	10.5 %	2.77	3.02	3.27	3.52	3.78	4.03	4.28
1.70	10.2 %	3.48	3.57	3.67	3.77	3.88	4.00	4.12	1.70	10.2 %	2.99	3.25	3.51	3.77	4.03	4.29	4.55
1.65	10.0 %	3.71	3.81	3.92	4.03	4.15	4.28	4.42	1.65	10.0 %	3.22	3.49	3.76	4.03	4.30	4.57	4.84
1.59	9.7 %	3.96	4.07	4.19	4.31	4.44	4.59	4.74	1.59	9.7 %	3.47	3.75	4.03	4.31	4.59	4.87	5.15
1.49	9.2 %	4.51	4.64	4.79	4.94	5.10	5.28	5.47	1.49	9.2 %	4.03	4.33	4.63	4.94	5.24	5.54	5.85

• High beta due to weak financial position and up to now only limited presence in the important region North America.



Valuation							
	2016	2017	2018	2019	2020e	2021e	2022e
Price / Book	7.3 x	9.6 x	13.9 x	14.4 x	0.8 x	0.9 x	1.0 x
Book value per share ex intangibles	1.42	1.07	0.75	0.46	3.40	2.61	2.37
EV / Sales	25.9 x	36.4 x	44.7 x	23.1 x	1.3 x	1.4 x	1.4 x
EV / EBITDA	23.7 x	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
EV / EBIT	27.7 x	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
EV / EBIT adj.*	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
P / FCF	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
P/E	27.7 x	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
P / E adj.*	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Dividend Yield	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
FCF Potential Yield (on market EV)	3.8 %	-1.9 %	-1.7 %	-7.1 %	-66.5 %	-16.9 %	-4.9 %
*Adjustments made for: -							

# Consolidated profit & loss



In EUR m	2016	2017	2018	2019	2020e	2021e	2022e
Sales	14.7	10.9	10.8	11.7	9.4	10.6	12.0
Change Sales yoy	-47.5 %	-25.8 %	-1.1 %	8.9 %	-19.6 %	12.4 %	12.9 %
Increase / decrease in inventory	1.3	-0.5	0.0	0.0	0.0	0.0	0.0
Own work capitalised	1.4	1.3	1.9	1.2	0.0	0.0	0.0
Total Sales	17.4	11.7	12.6	13.0	9.4	10.6	12.0
Material expenses	5.7	1.9	2.3	2.4	1.0	1.0	1.1
Gross profit	11.6	9.8	10.3	10.6	8.4	9.7	10.9
Gross profit margin	79.1 %	89.9 %	95.5 %	90.3 %	89.4 %	91.0 %	91.0 %
Personnel expenses	10.0	7.4	7.8	8.2	8.2	5.8	6.1
Other operating income	24.3	0.8	0.5	1.2	0.9	0.9	1.4
Other operating expenses	10.0	9.4	9.4	8.8	6.7	6.7	6.2
Unfrequent items	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBITDA	16.0	-6.2	-6.4	-5.1	-5.5	-1.8	-0.1
Margin	109.0 %	-57.0 %	-59.5 %	-43.8 %	-58.3 %	-17.4 %	-0.5 %
Depreciation of fixed assets	1.1	1.2	1.1	13.1	1.0	0.5	0.6
EBITA	14.9	-7.4	-7.5	-18.2	-6.5	-2.4	-0.6
Amortisation of intangible assets	1.1	0.6	0.7	1.5	1.8	0.3	0.3
Goodwill amortisation	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBIT	13.7	-8.0	-8.1	-19.8	-8.3	-2.7	-0.9
Margin	93.4 %	-73.3 %	-75.5 %	-168.4 %	-88.0 %	-25.1 %	-7.7 %
EBIT adj.	-10.2	-8.0	-8.1	-19.8	-8.3	-2.7	-0.9
Interest income	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interest expenses	0.0	0.0	0.0	0.5	0.1	0.3	0.3
Other financial income (loss)	0.3	-1.3	0.5	0.2	0.0	0.0	0.0
EBT	14.0	-9.3	-7.7	-20.0	-8.4	-2.9	-1.2
Margin	95.6 %	-85.3 %	-71.0 %	-170.7 %	-89.1 %	-27.5 %	-9.8 %
Total taxes	-0.6	0.0	0.0	-0.6	-0.1	-0.1	-0.1
Net income from continuing operations	14.6	-9.3	-7.6	-19.4	-8.3	-2.8	-1.1
Income from discontinued operations (net of tax)	-0.1	0.3	-0.2	-0.1	0.0	0.0	0.0
Net income before minorities	14.6	-8.9	-7.8	-19.5	-8.3	-2.8	-1.1
Minority interest	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net income	14.6	-8.9	-7.8	-19.5	-8.3	-2.8	-1.1
Margin	99.2 %	-82.0 %	-72.5 %	-166.3 %	-88.0 %	-26.6 %	-9.0 %
Number of shares, average	30.8	28.6	28.7	32.1	3.2	3.2	3.2
EPS	0.47	-0.31	-0.27	-0.61	-2.59	-0.88	-0.34
EPS adj.	-0.30	-0.31	-0.27	-0.61	-2.59	-0.88	-0.34
*Adjustments made for:							

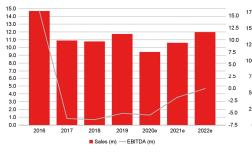
#### Guidance: Sales EUR 8-10m, upper half; EBITDA EUR -5.9 to -4.5m

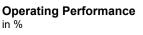
### **Financial Ratios**

	2016	2017	2018	2019	2020e	2021e	2022e
Total Operating Costs / Sales	9.2 %	164.0 %	176.8 %	154.6 %	158.3 %	117.4 %	100.5 %
Operating Leverage	n.a.	n.a.	-1.7 x	16.1 x	3.0 x	-5.5 x	-5.1 x
EBITDA / Interest expenses	800.5 x	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.
Tax rate (EBT)	-4.2 %	0.3 %	0.2 %	3.0 %	1.2 %	3.4 %	8.5 %
Dividend Payout Ratio	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
Sales per Employee	94,755	75,186	74,352	80,959	92,944	104,513	118,016

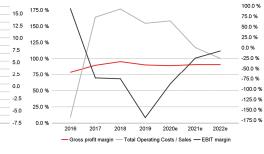
Sales, EBITDA in EUR m

Source: Warburg Research

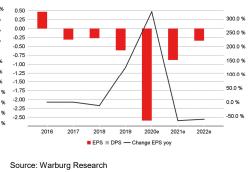




Source: Warburg Research



### Performance per Share



COMMENT Published 06.01.2021

5

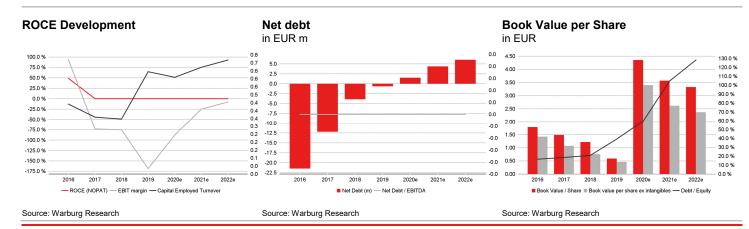
# Consolidated balance sheet



In EUR m	2016	2017	2018	2019	2020e	2021e	2022e
Assets							
Goodwill and other intangible assets	11.1	11.8	13.3	4.1	3.1	3.1	3.1
thereof other intangible assets	0.1	0.1	0.2	0.1	0.0	0.0	0.0
thereof Goodwill	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Property, plant and equipment	7.6	7.2	6.9	6.2	5.6	5.4	5.2
Financial assets	0.2	0.2	0.2	0.0	0.0	0.0	0.0
Other long-term assets	1.8	1.1	0.6	0.4	0.4	0.4	0.4
Fixed assets	20.8	20.3	20.9	10.7	9.1	8.9	8.7
Inventories	11.1	9.6	9.6	7.7	6.3	7.1	8.0
Accounts receivable	2.9	2.5	2.7	1.9	1.9	1.7	2.0
Liquid assets	23.8	13.3	4.3	2.9	1.9	2.6	2.5
Other short-term assets	5.3	4.7	4.8	3.1	3.1	3.1	3.1
Current assets	43.1	30.2	21.3	15.6	13.1	14.5	15.6
Total Assets	63.9	50.5	42.2	26.3	22.2	23.4	24.3
Liabilities and shareholders' equity							
Subscribed capital	30.8	28.6	28.7	32.1	3.2	3.2	3.2
Capital reserve	17.5	19.9	20.0	20.1	2.0	2.0	2.0
Retained earnings	15.2	12.1	11.9	11.8	3.5	0.6	-0.4
Other equity components	-8.7	-18.0	-25.7	-45.1	5.3	5.6	5.9
Shareholders' equity	54.8	42.6	34.9	18.9	14.0	11.4	10.7
Minority interest	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total equity	54.8	42.6	34.9	18.9	14.0	11.4	10.7
Provisions	0.4	0.8	0.3	0.4	0.4	0.4	0.4
thereof provisions for pensions and similar obligations	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Financial liabilities (total)	2.3	1.1	0.3	2.3	3.4	7.0	8.6
thereof short-term financial liabilities	1.3	0.3	0.0	0.5	0.4	4.0	5.6
Accounts payable	2.5	1.8	2.1	1.3	1.1	1.2	1.3
Other liabilities	3.8	4.3	4.5	3.4	3.4	3.4	3.4
Liabilities	9.1	7.9	7.3	7.4	8.3	12.0	13.7
Total liabilities and shareholders' equity	63.9	50.5	42.2	26.3	22.2	23.4	24.3

### **Financial Ratios**

	2016	2017	2018	2019	2020e	2021e	2022e
Efficiency of Capital Employment							
Operating Assets Turnover	0.8 x	0.6 x	0.6 x	0.8 x	0.7 x	0.8 x	0.9 x
Capital Employed Turnover	0.4 x	0.4 x	0.3 x	0.6 x	0.6 x	0.7 x	0.7 x
ROA	70.2 %	-44.0 %	-37.4 %	-181.8 %	-91.4 %	-31.7 %	-12.4 %
Return on Capital							
ROCE (NOPAT)	48.8 %	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
ROE	30.7 %	-18.4 %	-20.2 %	-72.6 %	-50.6 %	-22.2 %	-9.8 %
Adj. ROE	-19.6 %	-18.4 %	-20.2 %	-72.6 %	-50.6 %	-22.2 %	-9.8 %
Balance sheet quality							
Net Debt	-21.5	-12.2	-3.9	-0.6	1.5	4.4	6.0
Net Financial Debt	-21.5	-12.2	-3.9	-0.6	1.5	4.4	6.0
Net Gearing	-39.2 %	-28.7 %	-11.2 %	-3.4 %	10.8 %	38.1 %	56.6 %
Net Fin. Debt / EBITDA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Book Value / Share	1.8	1.5	1.2	0.6	4.4	3.6	3.3
Book value per share ex intangibles	1.4	1.1	0.8	0.5	3.4	2.6	2.4



COMMENT

6

# Consolidated cash flow statement



In EUR m	2016	2017	2018	2019	2020e	2021e	2022e
Net income	14.6	-9.3	-7.6	-19.9	-8.3	-2.8	-1.1
Depreciation of fixed assets	1.1	1.2	1.1	13.3	1.0	0.5	0.6
Amortisation of goodwill	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Amortisation of intangible assets	1.1	0.6	0.7	1.5	1.8	0.3	0.3
Increase/decrease in long-term provisions	0.4	0.3	-0.5	0.1	0.0	0.0	0.0
Other non-cash income and expenses	-24.6	1.5	-0.2	0.1	0.0	0.0	0.0
Cash Flow before NWC change	-7.2	-5.6	-6.6	-4.9	-5.5	-2.0	-0.2
Increase / decrease in inventory	0.1	0.1	0.6	0.4	1.4	-0.8	-0.9
Increase / decrease in accounts receivable	0.0	0.0	0.0	-0.8	0.0	0.2	-0.3
Increase / decrease in accounts payable	0.0	0.0	0.0	-0.4	-0.2	0.1	0.1
Increase / decrease in other working capital positions	-0.1	0.1	0.1	0.0	0.0	0.0	0.0
Increase / decrease in working capital (total)	0.0	0.2	0.7	-0.8	1.1	-0.5	-1.1
Net cash provided by operating activities [1]	-7.2	-5.4	-5.9	-5.8	-4.4	-2.5	-1.3
Investments in intangible assets	-1.0	-1.3	-2.2	-1.0	0.0	0.0	0.0
Investments in property, plant and equipment	-1.0	-0.7	-0.7	-0.7	-0.4	-0.4	-0.4
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	-2.0	0.0	0.0	0.0
Income from asset disposals	31.9	0.5	0.0	0.0	0.0	0.0	0.0
Net cash provided by investing activities [2]	29.8	-1.5	-3.0	0.3	-0.4	-0.4	-0.4
Change in financial liabilities	-2.3	-1.4	-0.8	-0.5	1.1	3.6	1.6
Dividends paid	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Purchase of own shares	0.0	-3.4	0.0	0.0	0.0	0.0	0.0
Capital measures	0.0	0.1	0.1	3.4	0.0	0.0	0.0
Other	-2.3	1.2	0.6	1.3	2.6	0.0	0.0
Net cash provided by financing activities [3]	-4.6	-3.5	-0.2	4.1	3.6	3.6	1.6
Change in liquid funds [1]+[2]+[3]	18.1	-10.5	-9.0	-1.3	-1.1	0.8	-0.1
Effects of exchange-rate changes on cash	0.8	0.0	0.0	0.0	0.0	0.0	0.0
Cash and cash equivalent at end of period	23.8	13.3	4.3	2.9	1.9	2.6	2.5

# **Financial Ratios**

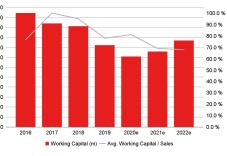
Financial Ratios							
	2016	2017	2018	2019	2020e	2021e	2022e
Cash Flow							
FCF	-9.3	-7.5	-8.9	-7.5	-4.7	-2.8	-1.7
Free Cash Flow / Sales	-63.4 %	-68.6 %	-82.5 %	-63.6 %	-49.9 %	-26.8 %	-14.0 %
Free Cash Flow Potential	14.3	-7.6	-8.3	-19.3	-8.2	-2.6	-0.8
Free Cash Flow / Net Profit	-63.9 %	83.7 %	113.8 %	38.2 %	56.7 %	100.8 %	155.3 %
Interest Received / Avg. Cash	0.1 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
Interest Paid / Avg. Debt	0.6 %	2.8 %	4.2 %	38.5 %	3.5 %	4.9 %	3.3 %
Management of Funds							
Investment ratio	13.6 %	18.8 %	26.9 %	14.8 %	3.7 %	3.3 %	3.0 %
Maint. Capex / Sales	15.6 %	16.4 %	16.0 %	124.6 %	29.7 %	7.8 %	7.2 %
Capex / Dep	87.2 %	114.8 %	167.7 %	11.8 %	12.5 %	42.3 %	41.7 %
Avg. Working Capital / Sales	76.8 %	100.2 %	95.3 %	78.2 %	81.3 %	69.3 %	68.0 %
Trade Debtors / Trade Creditors	115.5 %	145.1 %	123.9 %	141.8 %	172.7 %	141.7 %	153.8 %
Inventory Turnover	0.5 x	0.2 x	0.2 x	0.3 x	0.2 x	0.1 x	0.1 x
Receivables collection period (days)	73	85	90	58	74	58	61
Payables payment period (days)	162	342	335	202	402	459	440
Cash conversion cycle (Days)	614	1,619	1,255	1,027	1,972	2,314	2,329

#### **CAPEX** and Cash Flow in EUR m



**Free Cash Flow Generation** 

# **Working Capital**



COMMENT

Published 06.01.2021

7



### LEGAL DISCLAIMER

This research report ("investment recommendation") was prepared by the Warburg Research GmbH, a fully owned subsidiary of the M.M.Warburg & CO (AG & Co.) KGaA and is passed on by the M.M.Warburg & CO (AG & Co.) KGaA. It is intended solely for the recipient and may not be passed on to another company without their prior consent, regardless of whether the company is part of the same corporation or not. It contains selected information and does not purport to be complete. The investment recommendation is based on publicly available information and data ("information") believed to be accurate and complete. Warburg Research GmbH neither examines the information for accuracy and completeness, nor guarantees its accuracy and completeness. Possible errors or incompleteness of the information do not constitute grounds for liability of M.M.Warburg & CO (AG & Co.) KGaA or Warburg Research GmbH for damages of any kind whatsoever, and M.M.Warburg & CO (AG & Co.) KGaA and Warburg Research GmbH are not liable for indirect and/or direct and/or consequential damages. In particular, neither M.M.Warburg & CO (AG & Co.) KGaA nor Warburg Research GmbH are liable for the statements, plans or other details contained in these investment recommendations concerning the examined companies, their affiliated companies, strategies, economic situations, market and competitive situations, regulatory environment, etc. Although due care has been taken in compiling this investment recommendation, it cannot be excluded that it is incomplete or contains errors. M.M.Warburg & CO (AG & Co.) KGaA and Warburg Research GmbH, their shareholders and employees are not liable for the accuracy and completeness of the statements, estimations and the conclusions derived from the information contained in this investment recommendation. Provided a investment recommendation is being transmitted in connection with an existing contractual relationship, i.e. financial advisory or similar services, the liability of M.M.Warburg & CO (AG & Co.) KGaA and Warburg Research GmbH shall be restricted to gross negligence and wilful misconduct. In case of failure in essential tasks, M.M.Warburg & CO (AG & Co.) KGaA and Warburg Research GmbH are liable for normal negligence. In any case, the liability of M.M.Warburg & CO (AG & Co.) KGaA and Warburg Research GmbH is limited to typical, expectable damages. This investment recommendation does not constitute an offer or a solicitation of an offer for the purchase or sale of any security. Partners, directors or employees of M.M.Warburg & CO (AG & Co.) KGaA, Warburg Research GmbH or affiliated companies may serve in a position of responsibility, i.e. on the board of directors of companies mentioned in the report. Opinions expressed in this investment recommendation are subject to change without notice. All rights reserved.

#### **COPYRIGHT NOTICE**

This work including all its parts is protected by copyright. Any use beyond the limits provided by copyright law without permission is prohibited and punishable. This applies, in particular, to reproductions, translations, microfilming, and storage and processing on electronic media of the entire content or parts thereof.

# DISCLOSURE ACCORDING TO §85 OF THE GERMAN SECURITIES TRADING ACT (WPHG), MAR AND MIFID II INCL. COMMISSION DELEGATED REGULATION (EU) 2016/958 AND (EU) 2017/565

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.

Independent of the applied valuation methods, there is the risk that the price target will not be met, for instance because of unforeseen changes in demand for the company's products, changes in management, technology, economic development, interest rate development, operating and/or material costs, competitive pressure, supervisory law, exchange rate, tax rate etc. For investments in foreign markets and instruments there are further risks, generally based on exchange rate changes or changes in political and social conditions.

This commentary reflects the opinion of the relevant author at the point in time of its compilation. A change in the fundamental factors underlying the valuation can mean that the valuation is subsequently no longer accurate. Whether, or in what time frame, an update of this commentary follows is not determined in advance.

Additional internal and organisational arrangements to prevent or to deal with conflicts of interest have been implemented. Among these are the spatial separation of Warburg Research GmbH from M.M.Warburg & CO (AG & Co.) KGaA and the creation of areas of confidentiality. This prevents the exchange of information, which could form the basis of conflicts of interest for Warburg Research GmbH in terms of the analysed issuers or their financial instruments.

The analysts of Warburg Research GmbH do not receive a gratuity – directly or indirectly – from the investment banking activities of M.M.Warburg & CO (AG & Co.) KGaA or of any company within the Warburg-Group.

All prices of financial instruments given in this investment recommendation are the closing prices on the last stock-market trading day before the publication date stated, unless another point in time is explicitly stated.

M.M.Warburg & CO (AG & Co.) KGaA and Warburg Research GmbH are subject to the supervision of the Federal Financial Supervisory Authority, BaFin. M.M.Warburg & CO (AG & Co.) KGaA is additionally subject to the supervision of the European Central Bank (ECB).



### SOURCES

All data and consensus estimates have been obtained from FactSet except where stated otherwise.

The **Warburg ESG Risk Score** is based on information © 2020 MSCI ESG Research LLC. Reproduced by permission. Although Warburg Research's information providers, including without limitation, MSCI ESG Research LLC and its affiliates (the "ESG Parties"), obtain information (the "Information") from sources they consider reliable, none of the ESG Parties warrants or guarantees the originality, accuracy and/or completeness, of any data herein and expressly disclaim all express or implied warranties, including those of merchantability and fitness for a particular purpose. The Information may only be used for your internal use, may not be reproduced or redisseminated in any form and may not be used as a basis for, or a component, of any financial instruments or products indices. Further, none of the Information can in and of itself be used to determine which securities to buy or sell or when to buy or sell them. None of the ESG Parties shall have any liability for any errors or omissions in connection with any data herein, or any liability for any direct, indirect, special, punitive, consequential or any other damage (including lost profits) even if notified of the possibility.



#### Additional information for clients in the United States

1. This research report (the "Report") is a product of Warburg Research GmbH, Germany, a fully owned subsidiary of M.M.Warburg & CO (AG & Co.)

KGaA, Germany (in the following collectively "Warburg"). Warburg is the employer of the research analyst(s), who have prepared the Report. The research analyst(s) reside outside the United States and are not associated persons of any U.S. regulated broker-dealer and therefore are not subject to the supervision of any U.S. regulated broker-dealer.

2. The Report is provided in the United States for distribution solely to "major U.S. institutional investors" under Rule 15a-6 of the U.S. Securities Exchange Act of 1934 by CIC.

3. CIC (Crédit Industriel et Commercial) and M.M. Warburg & CO have concluded a Research Distribution Agreement that gives CIC Market Solutions exclusive distribution in France, the US and Canada of the Warburg Research GmbH research product.

4. The research reports are distributed in the United States of America by CIC ("CIC") pursuant to a SEC Rule 15a-6 agreement with CIC Market Solutions Inc ("CICI"), a U.S. registered broker-dealer and a related company of CIC, and are distributed solely to persons who qualify as "Major U.S. Institutional Investors" as defined in SEC Rule 15a-6 under the Securities Exchange Act of 1934.

5. Any person who is not a Major U.S. Institutional Investor must not rely on this communication. The delivery of this research report to any person in the United States of America is not a recommendation to effect any transactions in the securities discussed herein, or an endorsement of any opinion expressed herein.

# Reference in accordance with section 85 of the German Securities Trading Act (WpHG) and Art. 20 MAR regarding possible conflicts of interest with companies analysed:

- -1- Warburg Research, or an affiliated company, or an employee of one of these companies responsible for the compilation of the research, hold a share of more than 5% of the equity capital of the analysed company.
- Warburg Research, or an affiliated company, within the last twelve months participated in the management of a consortium for an issue in
  the course of a public offering of such financial instruments, which are, or the issuer of which is, the subject of the investment recommendation.
- -3- Companies affiliated with Warburg Research manage financial instruments, which are, or the issuers of which are, subject of the investment recommendation, in a market based on the provision of buy or sell contracts.

MMWB, Warburg Research, or an affiliated company, reached an agreement with the issuer to provide **investment banking and/or investment services** and the relevant agreement was in force in the last 12 months or there arose for this period, based on the relevant

- -4agreement, the obligation to provide or to receive a service or compensation - provided that this disclosure does not result in the disclosure of confidential business information.
- -5- The company compiling the analysis or an affiliated company had reached an **agreement on the compilation of the investment recommendation** with the analysed company.
- -6a- Warburg Research, or an affiliated company, holds a **net long position of more than 0.5%** of the total issued share capital of the analysed company.
- -6b- Warburg Research, or an affiliated company, holds a **net short position of more than 0.5%** of the total issued share capital of the analysed company.
- -6c- The issuer holds shares of more than 5% of the total issued capital of Warburg Research or an affiliated company.
- -7- The company preparing the analysis as well as its affiliated companies and employees have other important interests in relation to the analysed company, such as, for example, the exercising of mandates at analysed companies.

Company	Disclosure	Link to the historical price targets and rating changes (last 12 months)
aap Implantate	5	http://www.mmwarburg.com/disclaimer/disclaimer en/DE000A3H2101.htm



### INVESTMENT RECOMMENDATION

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.

-B-	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.	

#### WARBURG RESEARCH GMBH - ANALYSED RESEARCH UNIVERSE BY RATING

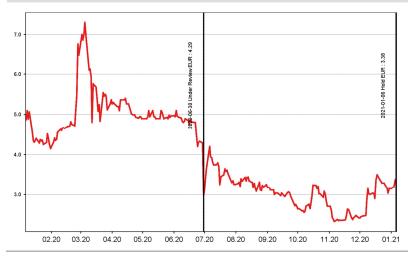
Rating	Number of stocks	% of Universe
Buy	131	65
Hold	59	29
Sell	7	3
Rating suspended	6	3
Total	203	100

### 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	38	83
Hold	6	13
Sell	0	0
Rating suspended	2	4
Total	46	100

#### PRICE AND RATING HISTORY AAP IMPLANTATE AS OF 06.01.2021



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, Media, Construction **Christian Cohrs** Industrials & Transportation Dr. Christian Ehmann BioTech, Life Science Felix Ellmann Software, IT Jörg Philipp Frey Retail, Consumer Goods Marius Fuhrberg **Financial Services** Mustafa Hidir Automobiles, Car Suppliers Ulrich Huwald Health Care Pharma

## INSTITUTIONAL EQUITY SALES

+49 40 309537-280 mheider@warburg-research.com +49 40 309537-270 hrueschmeier@warburg-research.com +49 40 309537-168 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 309537-167 cehmann@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 3282-2678

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

#### SALES TRADING

Marc Niemann

Klaus Schilling

Tim Beckmann

Lea Bogdanova

Jens Buchmüller

Scandinavia, Austria

United Kingdom, Ireland

Alexander Eschweiler

Germany, Luxembourg

Matthias Fritsch

United Kingdom

United Kingdom

Head of Equity Sales, Germany

Head of Equity Sales, Germany

Oliver Merckel +49 40 3282-2634 Head of Sales Trading omerckel@mmwarburg.com Elyaz Dust +49 40 3282-2702 Sales Trading edust@mmwarburg.com Michael Ilgenstein +49 40 3282-2700 Sales Trading milgenstein@mmwarburg.com

**MACRO RESEARCH** Carsten Klude

cklude@mmwarburg.com Macro Research Our research can be found under: research.mmwarburg.com/en/index.html

Warburg Research Thomson Reuters www.thomsonreuters.com Bloomberg MMWA GO Capital IQ www.capitaliq.com FactSet www.factset.com For access please contact: **Kerstin Muthig** Andrea Schaper +49 40 3282-2632 Sales Assistance aschaper@mmwarburg.com Sales Assistance

+49 40 3282-2572

WARBURG

+49 40 309537-260

+49 40 309537-257

+49 40 309537-256

+49 40 309537-246

+49 40 309537-170

+49 40 309537-250

+49 40 309537-265 sstippig@warburg-research.com

+49 40 309537-248

+49 40 309537-259

+49 40 309537-290

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

+49 69 5050-7413

+49 69 5050-7414

+49 69 5050-7417

+49 40 3282-2694

+49 40 3282-2662

+49 40 3282-2701

+49 40 3282-2658

+49 40 3282-2439

shauer@mmwarburg.com

jniemann@mmwarburg.com

mmagiera@mmwarburg.com

bquast@mmwarburg.com

jtreptow@mmwarburg.com

cjasperneite@mmwarburg.com

mmartin@mmwarburg.com

cseedorf@mmwarburg.com

pkaiser@warburg-research.com

ekuls@warburg-research.com

tkleibauer@warburg-research.com

aplaesier@warburg-research.com

oschwarz@warburg-research.com

ctatar@warburg-research.com

mtonn@warburg-research.com

rvanderhorst@warburg-research.com

mschaumann@warburg-research.com

**Philipp Kaiser** Real Estate Thilo Kleibauer Retail, Consumer Goods Eggert Kuls Engineering Andreas Pläsier Banks, Financial Services Malte Schaumann Technology **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

**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

Dr. Christian Jasperneite Investment Strategy

+49 40 3282-2703 kmuthig@mmwarburg.com