(CDAX, Software/IT)



Buy (Hold)	Value Indicators:	EUR	Share data:		Description:	
Buy (Hold)	DCF:	161.87	Bloomberg:	AOF GR	ATOSS supplies software ar	
460 00 (FUD 440 00)			Reuters:	AOFG	services for the optimisation	of
EUR <b>162.00</b> (EUR 146.00)			ISIN:	DE0005104400	workforce management.	
	Market Snapshot:	EUR m	Shareholders:		Risk Profile (WRe):	2019e
D-i	Market cap:	534.8	Freefloat	32.7 %	Beta:	1.2
Price EUR 134.50	No. of shares (m):	4.0	Founding Family	56.4 %	Price / Book:	20.9 x
Upside 20.4 %	EV:	511.8	Mainfirst	5.1 %	Equity Ratio:	58 %
	Freefloat MC:	174.9	Investment TGV Bonn	5.8 %		
	Ø Trad. Vol. (30d):	162.69 th				

### On track; Upgrade to Buy

Stated Figures	Q3/2019:						
Figures in EUR m	Q3/19	Q3/19e	Q3/18	yoy	9 M / 19	9 M / 18	уоу
Sales	17.8	16.3	15.9	11.4%	51.7	45.4	14.0%
EBIT margin	4.8 27.0%	4.9 30.1%	4.6 28.7%	4.7%	13.5 26.0%	12.0 26.6%	11.6%
Net income margin	3.2 18.1%	3.3 20.2%	3.0 19.0%	5.9%	9.1 17.6%	8.0 17.7%	13.7%

### Comment on Figures:

- On October 24, 2019, ATOSS Software AG reported the figures for the third quarter and first nine months of the 2019 financial year.
- These were in line with expectations and showed excellent development, especially in the Cloud segment.

ATOSS Software AG remains on course for growth and will probably again report record figures for FY 2019. Over the 9M period, the important Software Licenses business generated total sales of EUR 10.0m (9.3). The biggest driver of growth in Software revenue was Cloud Solutions (recurring), which increased by 89% to EUR 5.5m (2.9). The consistent positive development of software maintenance over the years has also continued. In total, the share of recurring revenues in software sales now amounts to 70% (67%). Worthy of particular mention is the high order momentum within the last nine months. Order intake for software licenses and contracted cloud subscriptions increased to EUR 15.7m (+31%) as of September 30, 2019 (12).

Thus, the fundamental development, especially the transformation in the area of Cloud, is within the expected range (WRe). Against the background of slight model adjustments as well as the recently somewhat reduced price level, the share is **now again rated Buy (Hold) with a PT of EUR 162 (146).** 

Changes in E	stimates:					
FY End: 31.12. in EUR m	2019e (old)	+ / -	2020e (old)	+ / -	2021e (old)	+/-
Sales	70.8	0.0 %	79.9	0.0 %	90.3	0.0 %
EBITDA	20.8	9.5 %	23.5	8.1 %	26.6	8.1 %
EBIT	19.7	-0.4 %	22.2	-0.7 %	25.1	-0.7 %
EPS	3.32	-0.3 %	3.75	-0.8 %	4.24	-0.9 %
DPS	1.66	0.0 %	1.88	-1.1 %	2.12	-0.9 %

### Comment on Changes:

- The operative forecasts remain unchanged. However, there is a change in the area of the EBITDA as IFRS 16 is incorporated for the first time. This has no impact on the valuation of the company.
- Minor adjustments in the DCF model are responsible for the slight increase in the price target.

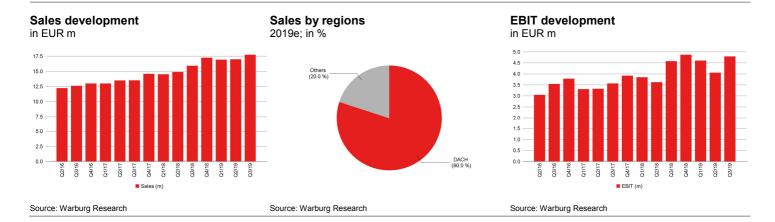


Rel. Performance vs CDAX:	
1 month:	4.0 %
6 months:	28.8 %
Year to date:	54.5 %
Trailing 12 months:	65.9 %

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Company oventer	
Company events:	

FY End: 31.12.	CAGR							
in EUR m	(18-21e)	2015	2016	2017	2018	2019e	2020e	2021e
Sales	13.0 %	44.9	49.5	54.6	62.6	70.8	79.9	90.3
Change Sales yoy		13.2 %	10.2 %	10.2 %	14.7 %	13.0 %	13.0 %	13.0 %
Gross profit margin		68.5 %	69.9 %	70.3 %	70.5 %	70.9 %	70.8 %	70.8 %
EBITDA	16.9 %	12.0	14.3	14.9	18.0	22.8	25.4	28.7
Margin		26.8 %	28.8 %	27.2 %	28.7 %	32.2 %	31.8 %	31.8 %
EBIT	13.8 %	11.3	13.6	14.1	16.9	19.6	22.1	24.9
Margin		25.2 %	27.4 %	25.9 %	27.0 %	27.7 %	27.6 %	27.6 %
Net income	14.4 %	7.6	9.3	9.3	11.2	13.1	14.8	16.7
EPS	14.3 %	1.91	2.33	2.34	2.81	3.31	3.72	4.20
EPS adj.	14.3 %	1.91	2.33	2.34	2.81	3.31	3.72	4.20
DPS	-19.3 %	2.80	1.16	1.16	4.00	1.66	1.86	2.10
Dividend Yield		6.0 %	1.9 %	1.6 %	4.8 %	1.2 %	1.4 %	1.6 %
FCFPS		1.81	2.80	1.95	2.74	2.62	3.26	3.66
FCF / Market cap		3.9 %	4.7 %	2.8 %	3.3 %	1.9 %	2.4 %	2.7 %
EV / Sales		3.7 x	4.4 x	4.7 x	4.9 x	7.2 x	6.3 x	5.5 x
EV / EBITDA		13.7 x	15.3 x	17.4 x	17.0 x	22.5 x	19.9 x	17.3 x
EV / EBIT		14.5 x	16.0 x	18.3 x	18.1 x	26.1 x	22.9 x	20.0 x
P/E		24.3 x	25.6 x	30.2 x	29.9 x	40.6 x	36.2 x	32.0 x
P / E adj.		24.3 x	25.6 x	30.2 x	29.9 x	40.6 x	36.2 x	32.0 x
FCF Potential Yield		4.8 %	4.3 %	3.8 %	3.9 %	3.1 %	3.5 %	4.0 %
Net Debt		-19.6	-19.4	-22.3	-28.5	-23.0	-29.4	-36.5
ROCE (NOPAT)		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Guidance:	Revenue grov	vth 11-13 %, I	EBIT margin	25-28 %				



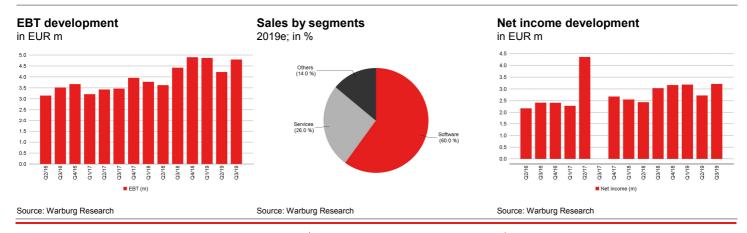


### **Company Background**

- ATOSS Software AG is a supplier of software and services for the optimisation of workforce management.
- ATOSS solutions optimises companies' personnel procedures, improving the level of service and efficiency of the employees and improving customer satisfaction
- The company has achieved a leading market position, particularly in the German speaking countries.
- From medium-sized companies (Mittelstand) to blue-chip firms, several million employees use ATOSS solutions.

# **Competitive Quality**

- ATOSS has a leading software product (the most modern Java technology)
- ATOSS specialises in regions and industry sectors (country-specific work conditions in the Germany, Austria, Swiss region and mapping out work processes in core industries)
- ATOSS works independently of producers (no ties to hardware or large software producers) and the ATOSS solutions have a high level of compatibility (e.g. seamless integration in the ERP systems possible)
- Financial stability and balance sheet quality is excellent, which can be regarded as a competitive advantage in the software industry.
- ATOSS is a relatively large supplier (in comparison to the competition) among many much smaller suppliers, which still pose stiff competition for ATOSS.





DCF model														
	Detaile	d forecas	t period				٦	ransition	al period					Term. Value
Figures in EUR m	2019e	2020e	2021e	2022e	2023e	2024e	2025e	2026e	2027e	2028e	2029e	2030e	2031e	
Sales	70.8	79.9	90.3	102.1	115.4	129.2	142.1	153.5	162.7	169.2	176.0	181.3	186.7	
Sales change	13.0 %	13.0 %	13.0 %	13.0 %	13.0 %	12.0 %	10.0 %	8.0 %	6.0 %	4.0 %	4.0 %	3.0 %	3.0 %	2.5 %
EBIT	19.6	22.1	24.9	29.6	35.2	41.3	47.6	53.7	59.4	66.0	73.0	77.9	82.1	
EBIT-margin	27.7 %	27.6 %	27.6 %	29.0 %	30.5 %	32.0 %	33.5 %	35.0 %	36.5 %	39.0 %	41.5 %	43.0 %	44.0 %	
Tax rate (EBT)	33.0 %	33.0 %	33.0 %	34.0 %	34.0 %	34.0 %	34.0 %	34.0 %	34.0 %	34.0 %	34.0 %	34.0 %	34.0 %	
NOPAT	13.1	14.8	16.7	19.5	23.2	27.3	31.4	35.5	39.2	43.6	48.2	51.4	54.2	
Depreciation	3.2	3.4	3.8	4.6	5.2	5.8	6.4	6.9	7.3	7.6	7.9	8.2	8.4	
in % of Sales	4.5 %	4.2 %	4.2 %	4.5 %	4.5 %	4.5 %	4.5 %	4.5 %	4.5 %	4.5 %	4.5 %	4.5 %	4.5 %	
Changes in provisions	0.0	0.0	0.0	0.3	0.3	0.4	0.3	0.2	0.1	-0.1	0.1	0.0	0.0	
Change in Liquidity from														
- Working Capital	2.2	1.0	1.3	0.9	0.3	1.4	1.3	1.1	0.9	0.7	0.7	0.5	0.5	
- Capex	3.7	4.2	4.7	4.6	5.2	5.8	6.4	6.9	7.3	7.6	7.9	8.2	8.4	
Capex in % of Sales	5.2 %	5.2 %	5.2 %	4.5 %	4.5 %	4.5 %	4.5 %	4.5 %	4.5 %	4.5 %	4.5 %	4.5 %	4.5 %	
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)	10.4	13.0	14.5	18.9	23.2	26.3	30.4	34.5	38.3	42.8	47.6	50.9	53.7	56
PV of FCF	10.3	11.9	12.3	14.8	16.8	17.6	18.9	19.8	20.4	21.0	21.6	21.4	20.9	387
share of PVs		5.60 %						31.43	3 %					62.97 %

Model parameter				Valuation (m)			
Derivation of WACC:		Derivation of Beta:		Present values 2031e	228		
				Terminal Value	387		
Debt ratio	0.00 %	Financial Strength	1.20	Financial liabilities	0		
Cost of debt (after tax)	3.9 %	Liquidity (share)	1.20	Pension liabilities	5		
Market return	7.00 %	Cyclicality	1.20	Hybrid capital	0		
Risk free rate	1.50 %	Transparency	1.20	Minority interest	0		
		Others	1.20	Market val. of investments	0		
				Liquidity	33	No. of shares (m)	4.0
WACC	8.10 %	Beta	1.20	Equity Value	644	Value per share (EUR)	161.87

Sens	itivity Va	lue per Sh	are (EUR	)													
		Terminal (	Growth								Delta EBIT	-margin					
Beta	WACC	1.75 %	2.00 %	2.25 %	2.50 %	2.75 %	3.00 %	3.25 %	Beta W	/ACC	-1.5 pp	-1.0 pp	-0.5 pp	+0.0 pp	+0.5 pp	+1.0 pp	+1.5 pp
1.38	9.1 %	127.34	129.68	132.19	134.89	137.80	140.94	144.36	<b>1.38</b> 9.1	1 %	129.91	131.57	133.23	134.89	136.55	138.20	139.86
1.29	8.6 %	137.98	140.83	143.91	147.23	150.85	154.78	159.09	<b>1.29</b> 8.6	6 %	141.83	143.63	145.43	147.23	149.04	150.84	152.64
1.25	8.4 %	143.93	147.09	150.51	154.23	158.28	162.70	167.56	<b>1.25</b> 8.4	4 %	148.58	150.46	152.35	154.23	156.11	158.00	159.88
1.20	8.1 %	150.37	153.89	157.71	161.87	166.42	171.42	176.94	<b>1.20</b> 8.1	1 %	155.95	157.93	159.90	161.87	163.85	165.82	167.79
1.15	7.9 %	157.36	161.29	165.57	170.25	175.39	181.06	187.35	1.15 7.9	9 %	164.04	166.11	168.18	170.25	172.32	174.39	176.46
1.11	7.6 %	164.97	169.37	174.19	179.48	185.31	191.77	198.98	1.11 7.6	6 %	172.95	175.12	177.30	179.48	181.65	183.83	186.00
1.02	7.1 %	182.41	188.01	194.18	201.02	208.65	217.20	226.87	<b>1.02</b> 7.1	1 %	193.74	196.17	198.59	201.02	203.44	205.87	208.29

In the DCF model, a moderate continuation of the constant growth of the past years is anticipated.

In the long term, a margin improvement due to the cloud transformation is assumed.

The long-term margin remains at a high level

# **ATOSS**



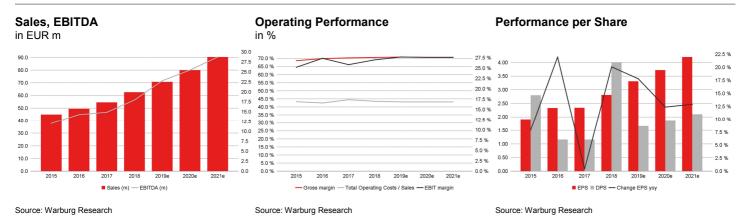
Valuation							
	2015	2016	2017	2018	2019e	2020e	2021e
Price / Book	9.7 x	14.0 x	12.9 x	11.7 x	20.9 x	15.8 x	12.3 x
Book value per share ex intangibles	4.71	4.19	5.40	7.07	6.34	8.43	10.80
EV / Sales	3.7 x	4.4 x	4.7 x	4.9 x	7.2 x	6.3 x	5.5 x
EV / EBITDA	13.7 x	15.3 x	17.4 x	17.0 x	22.5 x	19.9 x	17.3 x
EV / EBIT	14.5 x	16.0 x	18.3 x	18.1 x	26.1 x	22.9 x	20.0 x
EV / EBIT adj.*	14.5 x	16.0 x	18.3 x	18.1 x	26.1 x	22.9 x	20.0 x
P / FCF	25.6 x	21.3 x	36.3 x	30.7 x	51.4 x	41.2 x	36.8 x
P/E	24.3 x	25.6 x	30.2 x	29.9 x	40.6 x	36.2 x	32.0 x
P / E adj.*	24.3 x	25.6 x	30.2 x	29.9 x	40.6 x	36.2 x	32.0 x
Dividend Yield	6.0 %	1.9 %	1.6 %	4.8 %	1.2 %	1.4 %	1.6 %
FCF Potential Yield (on market EV)	4.8 %	4.3 %	3.8 %	3.9 %	3.1 %	3.5 %	4.0 %
*Adjustments made for: -							



Consolidated profit and loss							
In EUR m	2015	2016	2017	2018	2019e	2020e	2021
Sales	44.9	49.5	54.6	62.6	70.8	79.9	90.3
Change Sales yoy	13.2 %	10.2 %	10.2 %	14.7 %	13.0 %	13.0 %	13.0 %
COGS	14.1	14.9	16.2	18.4	20.6	23.3	26.4
Gross profit	30.8	34.6	38.4	44.2	50.2	56.6	64.0
Gross margin	68.5 %	69.9 %	70.3 %	70.5 %	70.9 %	70.8 %	70.8 %
Research and development	8.7	9.5	10.3	11.2	12.7	14.4	16.3
Sales and marketing	7.4	8.0	9.7	10.9	12.4	14.0	15.8
Administration expenses	3.5	3.8	4.3	5.2	5.7	6.4	7.2
Other operating expenses	0.2	0.1	0.2	0.2	0.0	0.0	0.0
Other operating income	0.3	0.4	0.2	0.3	0.2	0.2	0.3
Unfrequent items	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBITDA	12.0	14.3	14.9	18.0	22.8	25.4	28.7
Margin	26.8 %	28.8 %	27.2 %	28.7 %	32.2 %	31.8 %	31.8 %
Depreciation of fixed assets	0.6	0.6	0.6	0.9	3.0	3.2	3.6
EBITA	11.5	13.7	14.2	17.1	19.7	22.2	25.1
Amortisation of intangible assets	0.1	0.1	0.1	0.2	0.1	0.2	0.2
Goodwill amortisation	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBIT	11.3	13.6	14.1	16.9	19.6	22.1	24.9
Margin	25.2 %	27.4 %	25.9 %	27.0 %	27.7 %	27.6 %	27.6 %
EBIT adj.	11.3	13.6	14.1	16.9	19.6	22.1	24.9
Interest income	0.1	0.2	0.1	0.1	0.1	0.1	0.1
Interest expenses	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Other financial income (loss)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBT	11.3	13.7	14.1	16.8	19.6	22.1	25.0
Margin	25.2 %	27.6 %	25.7 %	26.8 %	27.7 %	27.6 %	27.6 %
Total taxes	3.7	4.4	4.7	5.6	6.5	7.3	8.2
Net income from continuing operations	7.6	9.3	9.3	11.2	13.1	14.8	16.7
Income from discontinued operations (net of tax)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net income before minorities	7.6	9.3	9.3	11.2	13.1	14.8	16.7
Minority interest	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net income	7.6	9.3	9.3	11.2	13.1	14.8	16.7
Margin	16.9 %	18.7 %	17.1 %	17.9 %	18.6 %	18.5 %	18.5 %
Number of shares, average	4.0	4.0	4.0	4.0	4.0	4.0	4.0
EPS	1.91	2.33	2.34	2.81	3.31	3.72	4.20
EPS adj.	1.91	2.33	2.34	2.81	3.31	3.72	4.20
*Adjustments made for:							

Guidance: Revenue growth 11-13 %, EBIT margin 25-28 %

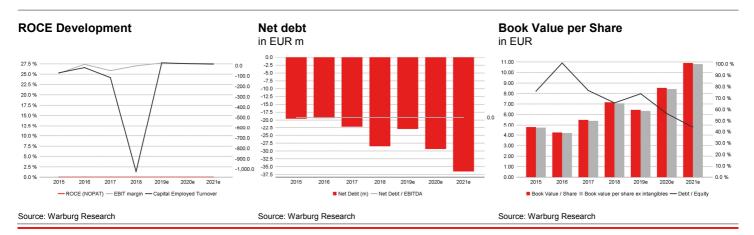
Financial Ratios							
	2015	2016	2017	2018	2019e	2020e	2021e
Total Operating Costs / Sales	43.3 %	42.5 %	44.4 %	43.5 %	43.2 %	43.2 %	43.2 %
Operating Leverage	1.2 x	1.9 x	0.4 x	1.3 x	1.2 x	1.0 x	1.0 x
EBITDA / Interest expenses	100.6 x	122.0 x	122.0 x	72.1 x	227.8 x	254.2 x	287.3 x
Tax rate (EBT)	33.0 %	32.2 %	33.6 %	33.3 %	33.0 %	33.0 %	33.0 %
Dividend Payout Ratio	146.7 %	49.7 %	49.4 %	142.1 %	50.2 %	50.0 %	49.9 %
Sales per Employee	146,103	153,395	161,023	175,832	189,229	203,647	219,162





Consolidated balance sheet							
In EUR m	2015	2016	2017	2018	2019e	2020e	20216
Assets							
Goodwill and other intangible assets	0.2	0.2	0.4	0.4	0.4	0.4	0.4
thereof other intangible assets	0.2	0.2	0.4	0.4	0.4	0.4	0.4
thereof Goodwill	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Property, plant and equipment	2.7	3.0	3.7	4.3	4.7	5.5	6.4
Financial assets	0.4	0.5	0.5	0.5	0.5	0.5	0.5
Other long-term assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fixed assets	3.3	3.8	4.6	5.2	5.7	6.5	7.4
Inventories	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Accounts receivable	4.5	4.5	5.1	6.3	8.5	9.6	10.9
Liquid assets	23.9	24.3	27.1	33.3	27.8	34.2	41.3
Other short-term assets	1.6	1.5	1.8	2.4	2.4	2.6	2.8
Current assets	30.0	30.3	34.0	42.0	38.8	46.5	55.1
Total Assets	33.4	34.0	38.5	47.2	44.5	53.0	62.5
Liabilities and shareholders' equity							
Subscribed capital	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Capital reserve	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7
Retained earnings	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other equity components	15.6	13.6	18.5	25.2	22.3	30.6	40.0
Shareholders' equity	18.9	16.9	21.8	28.5	25.6	33.9	43.4
Minority interest	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total equity	18.9	16.9	21.8	28.5	25.6	33.9	43.3
Provisions	5.1	4.9	5.0	4.9	5.0	5.1	5.2
thereof provisions for pensions and similar obligations	4.3	4.9	4.8	4.8	4.8	4.8	4.8
Financial liabilities (total)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
thereof short-term financial liabilities	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Accounts payable	0.3	0.6	0.4	0.5	0.6	0.7	0.7
Other liabilities	9.0	11.5	11.3	13.3	13.3	13.3	13.3
Liabilities	14.4	17.1	16.7	18.7	18.9	19.1	19.2
Total liabilities and shareholders' equity	33.4	34.0	38.5	47.2	44.5	53.0	62.5

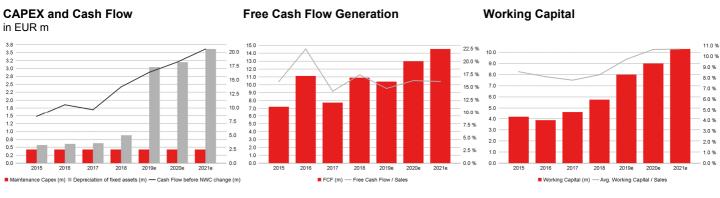
Financial Ratios							
	2015	2016	2017	2018	2019e	2020e	2021e
Efficiency of Capital Employment							
Operating Assets Turnover	6.6 x	7.2 x	6.6 x	6.2 x	5.6 x	5.5 x	5.4 x
Capital Employed Turnover	-69.1 x	-20.1 x	-115.7 x	-1024.3 x	27.4 x	17.8 x	13.3 x
ROA	226.4 %	247.0 %	204.6 %	216.2 %	232.2 %	228.4 %	227.2 %
Return on Capital							
ROCE (NOPAT)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
ROE	44.8 %	51.8 %	48.1 %	44.4 %	48.6 %	49.7 %	43.3 %
Adj. ROE	44.8 %	51.8 %	48.1 %	44.4 %	48.6 %	49.7 %	43.3 %
Balance sheet quality							
Net Debt	-19.6	-19.4	-22.3	-28.5	-23.0	-29.4	-36.5
Net Financial Debt	-23.9	-24.3	-27.1	-33.3	-27.8	-34.2	-41.3
Net Gearing	-103.4 %	-114.6 %	-102.2 %	-100.2 %	-89.9 %	-86.7 %	-84.4 %
Net Fin. Debt / EBITDA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Book Value / Share	4.8	4.2	5.5	7.2	6.4	8.5	10.9
Book value per share ex intangibles	4.7	4.2	5.4	7.1	6.3	8.4	10.8





Consolidated cash flow statement							
In EUR m	2015	2016	2017	2018	2019e	2020e	2021e
Net income	7.6	9.3	9.3	11.2	13.1	14.8	16.7
Depreciation of fixed assets	0.6	0.6	0.6	0.9	3.0	3.2	3.6
Amortisation of goodwill	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Amortisation of intangible assets	0.1	0.1	0.1	0.2	0.1	0.2	0.2
Increase/decrease in long-term provisions	0.1	0.5	-0.1	0.0	0.0	0.0	0.0
Other non-cash income and expenses	0.0	0.0	-0.4	1.5	0.0	0.0	0.0
Cash Flow before NWC change	8.4	10.5	9.6	13.7	16.3	18.2	20.5
Increase / decrease in inventory	0.0	0.0	0.0	0.0	-0.1	0.0	0.0
Increase / decrease in accounts receivable	-0.6	0.0	-0.6	-1.2	-2.2	-1.1	-1.3
Increase / decrease in accounts payable	0.0	0.3	-0.2	0.1	0.1	0.1	0.0
Increase / decrease in other working capital positions	0.2	1.4	0.0	0.0	0.0	0.0	0.0
Increase / decrease in working capital (total)	-0.4	1.7	-0.8	-1.1	-2.2	-1.0	-1.3
Net cash provided by operating activities [1]	8.0	12.2	8.9	12.6	14.1	17.2	19.2
Investments in intangible assets	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2
Investments in property, plant and equipment	-0.7	-1.0	-1.0	-1.5	-3.5	-4.0	-4.5
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	-1.1	-3.0	-2.5	0.0	0.0	0.0	0.0
Net cash provided by investing activities [2]	-1.9	-4.1	-3.6	-1.7	-3.7	-4.2	-4.7
Change in financial liabilities	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dividends paid	-3.5	-11.1	-4.6	-4.7	-15.9	-6.6	-7.4
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net cash provided by financing activities [3]	-3.5	-11.1	-4.6	-4.7	-15.9	-6.6	-7.4
Change in liquid funds [1]+[2]+[3]	2.6	-3.0	0.7	6.2	-5.5	6.4	7.1
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	22.7	20.9	24.9	33.4	27.8	34.2	41.3

Financial Ratios							
	2015	2016	2017	2018	2019e	2020e	2021e
Cash Flow							
FCF	7.2	11.1	7.7	10.9	10.4	13.0	14.5
Free Cash Flow / Sales	16.1 %	22.4 %	14.2 %	17.4 %	14.7 %	16.2 %	16.1 %
Free Cash Flow Potential	7.9	9.4	9.7	12.0	15.9	17.7	20.1
Free Cash Flow / Net Profit	95.1 %	119.8 %	83.1 %	97.5 %	79.1 %	87.7 %	87.0 %
Interest Received / Avg. Cash	0.4 %	0.9 %	0.2 %	0.4 %	0.4 %	0.4 %	0.3 %
Interest Paid / Avg. Debt	n.a.						
Management of Funds							
Investment ratio	1.7 %	2.3 %	2.0 %	2.7 %	5.2 %	5.2 %	5.2 %
Maint. Capex / Sales	1.0 %	0.9 %	0.8 %	0.7 %	0.6 %	0.5 %	0.5 %
Capex / Dep	113.3 %	157.8 %	148.3 %	158.8 %	115.4 %	124.3 %	123.2 %
Avg. Working Capital / Sales	8.6 %	8.1 %	7.8 %	8.3 %	9.7 %	10.6 %	10.7 %
Trade Debtors / Trade Creditors	1487.0 %	720.6 %	1138.3 %	1226.3 %	1416.7 %	1371.4 %	1557.1 %
Inventory Turnover	1707.9 x	1803.3 x	4056.0 x	4131.1 x	205.9 x	233.4 x	263.8 x
Receivables collection period (days)	36	33	34	36	44	44	44
Payables payment period (days)	8	15	10	10	11	11	10
Cash conversion cycle (Days)	29	18	24	26	35	34	36



Source: Warburg Research Source: Warburg Research Source: Warburg Research



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ATOSS	5	http://www.mmwarburg.com/disclaimer/disclaimer_en/DE0005104400.htm

**Total** 



100

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-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.
<u>"_"</u>	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	118	59				
Hold	72	36				
Sell	7	3				
Rating suspended	4	2				

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### 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	34	79
Hold	7	16
Sell	0	0
Rating suspended	2	5
Total	43	100

### PRICE AND RATING HISTORY ATOSS AS OF 25.10.2019



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.



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