(CDAX, Software/IT)



Hold	<b>(D.</b> )	Value Indicators:	EUR	Share data:		Description:	
поіц	(Buy)	DCF:	136.93	Bloomberg:	AOF GR		
426 00	(EUD 440 00)			Reuters:	AOFG		of
EUR <b>136.00</b>	(EUR 116.00)			ISIN:	DE0005104400	workforce management.	
		Market Snapshot:	EUR m	Shareholders:		Risk Profile (WRe):	2019e
Direction	5UD 400 50	Market cap:	550.8	Freefloat	32.7 %	Beta:	1.1
Price	EUR 138.50	No. of shares (m):	4.0	Founding Famely	56.4 %	Price / Book:	21.4 x
Downside	-1.8 %	EV:	527.8	Mainfirst	5.1 %	Equity Ratio:	58 %
		Freefloat MC:	180.1	Investment TGV Bonn	5.8 %		
		Ø Trad. Vol. (30d):	318.55 th				

## Price target reached; Downgrade

The development of the share price of ATOSS Software AG has been very strong over the last few months. The operative data were also very convincing (See e.g. our Comment dated 29.4.2019)

The strong operative development together with the increase in the long-term margin expectation as regards the potentially high-margin cloud business already justified increases in the price target in the past. Currently, the company generates EBIT margins of about 27%. In the context of the further expansion of the cloud business model, a margin of 45% (formerly 36%) is now anticipated in the long term (as of 2032) and with that, once again implies a very significant improvement.

From an earnings point of view, the strongly scalable servicing of "almost all" customers via the Cloud would theoretically facilitate even higher long-term margins. However, to date there has not been comparably long-lasting developments in the corporate software market that would sustainably justify such a scenario. As yet, there are no examples of a completed Cloud transformation process in a steady-state new situation.

However, it can be assumed that even a new delivery process (cloud) will continue to require further development by software producers and sales and marketing services, which will naturally limit the margins.

The share is now rated Hold (Buy) with a price target of EUR 136 (116).

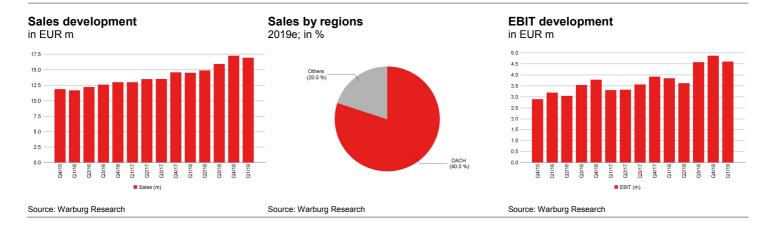


Rel. Performance vs CDAX	:
1 month:	25.1 %
6 months:	71.3 %
Year to date:	66.6 %
Trailing 12 months:	55.6 %

Company events:	
24.07.19	Prel. Q2
09.08.19	Q2
24.10.19	Q3

FY End: 31.12. in EUR m	CAGR (18-21e)	2015	2016	2017	2018	2019e	2020e	2021e
Sales	12.3 %	44.9	49.5	54.6	62.6	70.8	79.2	88.7
Change Sales yoy		13.2 %	10.2 %	10.2 %	14.7 %	13.0 %	12.0 %	12.0 %
Gross profit margin		68.5 %	69.9 %	70.3 %	70.5 %	71.0 %	71.0 %	71.0 %
EBITDA	13.2 %	12.0	14.3	14.9	18.0	20.8	23.3	26.1
Margin		26.8 %	28.8 %	27.2 %	28.7 %	29.4 %	29.4 %	29.4 %
EBIT	13.4 %	11.3	13.6	14.1	16.9	19.7	22.0	24.7
Margin		25.2 %	27.4 %	25.9 %	27.0 %	27.8 %	27.8 %	27.8 %
Net income	14.0 %	7.6	9.3	9.3	11.2	13.2	14.8	16.5
EPS	14.0 %	1.91	2.33	2.34	2.81	3.32	3.72	4.16
EPS adj.	14.0 %	1.91	2.33	2.34	2.81	3.32	3.72	4.16
DPS	-19.6 %	2.80	1.16	1.16	4.00	1.66	1.86	2.08
Dividend Yield		6.0 %	1.9 %	1.6 %	4.8 %	1.2 %	1.3 %	1.5 %
FCFPS		1.81	2.80	1.95	2.74	2.61	3.33	3.84
FCF / Market cap		3.9 %	4.7 %	2.8 %	3.3 %	1.9 %	2.4 %	2.8 %
EV / Sales		3.7 x	4.4 x	4.7 x	4.9 x	7.5 x	6.6 x	5.8 x
EV / EBITDA		13.7 x	15.3 x	17.4 x	17.0 x	25.4 x	22.4 x	19.7 x
EV / EBIT		14.5 x	16.0 x	18.3 x	18.1 x	26.8 x	23.7 x	20.8 x
P/E		24.3 x	25.6 x	30.2 x	29.9 x	41.7 x	37.2 x	33.3 x
P / E adj.		24.3 x	25.6 x	30.2 x	29.9 x	41.7 x	37.2 x	33.3 x
FCF Potential Yield		4.8 %	4.3 %	3.8 %	3.9 %	2.6 %	3.0 %	3.4 %
Net Debt		-19.6	-19.4	-22.3	-28.5	-23.0	-29.6	-37.5
ROCE (NOPAT)		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Guidance:	Revenue grow	th 11-13 %,	EBIT margin	25-28 %				



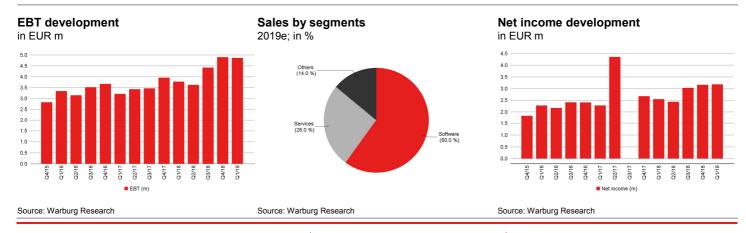


### **Company Background**

- 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	Γransition	al period					Term. Value
Figures in EUR m	2019e	2020e	2021e	2022e	2023e	2024e	2025e	2026e	2027e	2028e	2029e	2030e	2031e	
Sales	70.8	79.2	88.7	97.6	107.4	118.1	127.6	137.8	148.8	157.7	164.0	170.6	177.4	
Sales change	13.0 %	12.0 %	12.0 %	10.0 %	10.0 %	10.0 %	8.0 %	8.0 %	8.0 %	6.0 %	4.0 %	4.0 %	4.0 %	2.5 %
EBIT	19.7	22.0	24.7	28.3	32.8	37.8	42.7	48.2	54.3	61.5	68.1	73.4	78.1	
EBIT-margin	27.8 %	27.8 %	27.8 %	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	13.2	14.8	16.5	18.7	21.6	24.9	28.2	31.8	35.8	40.6	44.9	48.4	51.5	
Depreciation	1.1	1.3	1.4	2.0	1.8	1.8	1.9	2.1	2.2	2.4	2.5	2.6	2.7	
in % of Sales	1.6 %	1.6 %	1.6 %	2.0 %	1.7 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	
Changes in provisions	0.0	0.0	0.0	0.2	0.2	0.3	0.2	0.2	0.2	0.0	0.1	0.1	0.1	
Change in Liquidity from														
- Working Capital	2.2	1.1	1.0	0.6	0.0	1.1	0.9	1.0	1.1	0.9	0.6	0.7	0.7	
- Capex	1.7	1.7	1.7	1.5	1.6	1.8	1.9	2.1	2.2	2.4	2.5	2.6	2.7	
Capex in % of Sales	2.4 %	2.2 %	1.9 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	
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	13.2	15.2	18.7	22.0	24.2	27.4	31.0	34.9	39.7	44.4	47.8	50.9	53
PV of FCF	9.9	11.7	12.4	14.0	15.2	15.4	16.1	16.7	17.4	18.2	18.8	18.6	18.3	313
share of PVs		6.60 %						32.70	0 %					60.70 %

Model parameter				Valuation (m)			
Derivation of WACC:		Derivation of Beta:		Present values 2031e	203		
				Terminal Value	313		
Debt ratio	0.00 %	Financial Strength	1.10	Financial liabilities	0		
Cost of debt (after tax)	3.9 %	Liquidity (share)	1.10	Pension liabilities	5		
Market return	8.00 %	Cyclicality	1.10	Hybrid capital	0		
Risk free rate	2.50 %	Transparency	1.10	Minority interest	0		
		Others	1.10	Market val. of investments	0		
				Liquidity	33	No. of shares (m)	4.0
WACC	8.55 %	Beta	1.10	Equity Value	545	Value per share (EUR)	136.93

Sensi	itivity Va	lue per Sh	are (EUR	)													
		Terminal (	Growth								Delta EBIT	Γ-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
1.28	9.6 %	109.44	111.25	113.17	115.24	117.45	119.84	122.41	1.28	9.6 %	111.00	112.41	113.82	115.24	116.65	118.07	119.48
1.19	9.1 %	118.16	120.35	122.70	125.22	127.95	130.90	134.10	1.19	9.1 %	120.63	122.16	123.69	125.22	126.75	128.28	129.81
1.15	8.8 %	123.02	125.43	128.03	130.83	133.87	137.17	140.76	1.15	8.8 %	126.05	127.64	129.24	130.83	132.43	134.03	135.62
1.10	8.6 %	128.24	130.92	133.81	136.93	140.33	144.03	148.08	1.10	8.6 %	131.93	133.60	135.26	136.93	138.60	140.27	141.93
1.05	8.3 %	133.89	136.86	140.08	143.58	147.38	151.55	156.13	1.05	8.3 %	138.34	140.09	141.83	143.58	145.32	147.06	148.81
1.01	8.1 %	140.01	143.32	146.92	150.84	155.13	159.85	165.05	1.01	8.1 %	145.35	147.18	149.01	150.84	152.67	154.50	156.33
0.92	7.6 %	153.91	158.07	162.61	167.61	173.13	179.25	186.08	0.92	7.6 %	161.54	163.56	165.58	167.61	169.63	171.66	173.68

- In the DCF model, a moderate continuation of the constant growth of the past years is anticipated.
- A margin improvement due to economies of scale is not assumed.
- The long-term margin remains at a high level

# **ATOSS**



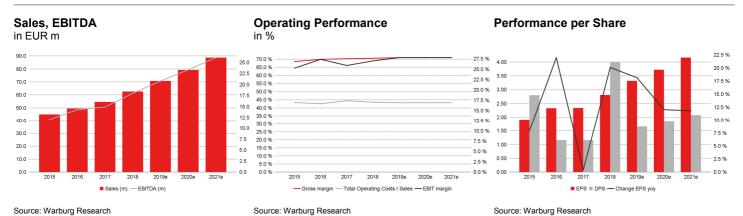
Valuation							
	2015	2016	2017	2018	2019e	2020e	2021e
Price / Book	9.7 x	14.0 x	12.9 x	11.7 x	21.4 x	16.2 x	12.7 x
Book value per share ex intangibles	4.71	4.19	5.40	7.07	6.36	8.43	10.76
EV / Sales	3.7 x	4.4 x	4.7 x	4.9 x	7.5 x	6.6 x	5.8 x
EV / EBITDA	13.7 x	15.3 x	17.4 x	17.0 x	25.4 x	22.4 x	19.7 x
EV / EBIT	14.5 x	16.0 x	18.3 x	18.1 x	26.8 x	23.7 x	20.8 x
EV / EBIT adj.*	14.5 x	16.0 x	18.3 x	18.1 x	26.8 x	23.7 x	20.8 x
P / FCF	25.6 x	21.3 x	36.3 x	30.7 x	53.1 x	41.6 x	36.1 x
P/E	24.3 x	25.6 x	30.2 x	29.9 x	41.7 x	37.2 x	33.3 x
P / E adj.*	24.3 x	25.6 x	30.2 x	29.9 x	41.7 x	37.2 x	33.3 x
Dividend Yield	6.0 %	1.9 %	1.6 %	4.8 %	1.2 %	1.3 %	1.5 %
FCF Potential Yield (on market EV)	4.8 %	4.3 %	3.8 %	3.9 %	2.6 %	3.0 %	3.4 %
*Adjustments made for: -							



Consolidated profit and loss							
In EUR m	2015	2016	2017	2018	2019e	2020e	2021e
Sales	44.9	49.5	54.6	62.6	70.8	79.2	88.7
Change Sales yoy	13.2 %	10.2 %	10.2 %	14.7 %	13.0 %	12.0 %	12.0 %
COGS	14.1	14.9	16.2	18.4	20.5	23.0	25.7
Gross profit	30.8	34.6	38.4	44.2	50.2	56.3	63.0
Gross margin	68.5 %	69.9 %	70.3 %	70.5 %	71.0 %	71.0 %	71.0 %
Research and development	8.7	9.5	10.3	11.2	12.7	14.3	16.0
Sales and marketing	7.4	8.0	9.7	10.9	12.4	13.9	15.5
Administration expenses	3.5	3.8	4.3	5.2	5.7	6.3	7.1
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	20.8	23.3	26.1
Margin	26.8 %	28.8 %	27.2 %	28.7 %	29.4 %	29.4 %	29.4 %
Depreciation of fixed assets	0.6	0.6	0.6	0.9	1.0	1.1	1.2
EBITA	11.5	13.7	14.2	17.1	19.8	22.2	24.8
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	19.7	22.0	24.7
Margin	25.2 %	27.4 %	25.9 %	27.0 %	27.8 %	27.8 %	27.8 %
EBIT adj.	11.3	13.6	14.1	16.9	19.7	22.0	24.7
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	19.7	22.1	24.7
Margin	25.2 %	27.6 %	25.7 %	26.8 %	27.8 %	27.8 %	27.8 %
Total taxes	3.7	4.4	4.7	5.6	6.5	7.3	8.1
Net income from continuing operations	7.6	9.3	9.3	11.2	13.2	14.8	16.5
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	13.2	14.8	16.5
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	13.2	14.8	16.5
Margin	16.9 %	18.7 %	17.1 %	17.9 %	18.6 %	18.6 %	18.6 %
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	3.32	3.72	4.16
EPS adj.	1.91	2.33	2.34	2.81	3.32	3.72	4.16
*Adjustments made for:							

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

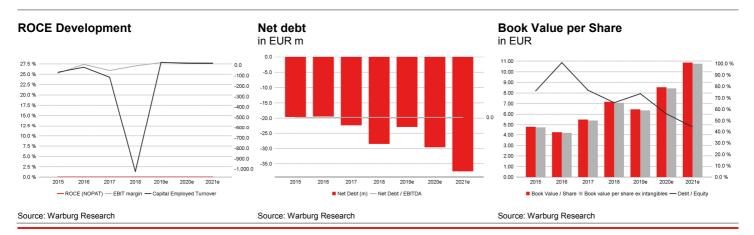
Financial Ratios							
	2015	2016	2017	2018	2019e	2020e	2021e
Total Operating Costs / Sales	43.3 %	42.5 %	44.4 %	43.5 %	43.2 %	43.2 %	43.2 %
Operating Leverage	1.2 x	1.9 x	0.4 x	1.3 x	1.3 x	1.0 x	1.0 x
EBITDA / Interest expenses	100.6 x	122.0 x	122.0 x	72.1 x	208.0 x	233.0 x	261.0 x
Tax rate (EBT)	33.0 %	32.2 %	33.6 %	33.3 %	33.0 %	33.0 %	33.0 %
Dividend Payout Ratio	146.7 %	49.7 %	49.4 %	142.1 %	50.0 %	50.1 %	50.0 %
Sales per Employee	146,103	153,395	161,023	175,832	189,229	201,844	215,301





Consolidated balance sheet							
In EUR m	2015	2016	2017	2018	2019e	2020e	2021e
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	4.8	5.2	5.5
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	6.2	6.5
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	10.7
Liquid assets	23.9	24.3	27.1	33.3	27.8	34.4	42.3
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	46.7	55.9
Total Assets	33.4	34.0	38.5	47.2	44.5	52.9	62.3
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	22.4	30.6	39.9
Shareholders' equity	18.9	16.9	21.8	28.5	25.7	34.0	43.2
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	43.2
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	0.6	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	19.0	19.2
Total liabilities and shareholders' equity	33.4	34.0	38.5	47.2	44.5	52.9	62.3

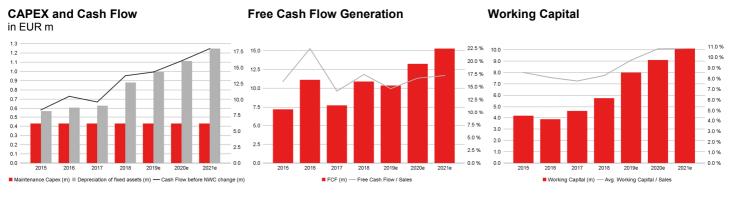
Financial Ratios							
	2015	2016	2017	2018	2019e	2020e	2021e
Efficiency of Capital Employment							
Operating Assets Turnover	6.6 x	7.2 x	6.6 x	6.2 x	5.5 x	5.5 x	5.7 x
Capital Employed Turnover	-69.1 x	-20.1 x	-115.7 x	-1024.3 x	26.6 x	18.4 x	15.6 x
ROA	226.4 %	247.0 %	204.6 %	216.2 %	229.6 %	238.9 %	255.7 %
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 %	48.7 %	49.5 %	42.9 %
Adj. ROE	44.8 %	51.8 %	48.1 %	44.4 %	48.7 %	49.5 %	42.9 %
Balance sheet quality							
Net Debt	-19.6	-19.4	-22.3	-28.5	-23.0	-29.6	-37.5
Net Financial Debt	-23.9	-24.3	-27.1	-33.3	-27.8	-34.4	-42.3
Net Gearing	-103.4 %	-114.6 %	-102.2 %	-100.2 %	-89.6 %	-87.3 %	-86.8 %
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	6.5	8.5	10.9
Book value per share ex intangibles	4.7	4.2	5.4	7.1	6.4	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	13.2	14.8	16.5
Depreciation of fixed assets	0.6	0.6	0.6	0.9	1.0	1.1	1.2
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	14.3	16.0	18.0
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	-1.1
Increase / decrease in accounts payable	0.0	0.3	-0.2	0.1	0.1	0.0	0.1
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	-1.1	-1.0
Net cash provided by operating activities [1]	8.0	12.2	8.9	12.6	12.1	14.9	17.0
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	-1.5	-1.5	-1.5
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	-1.7	-1.7	-1.7
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	6.6	7.9
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	34.4	42.3

Financial Ratios							
	2015	2016	2017	2018	2019e	2020e	2021e
Cash Flow							
FCF	7.2	11.1	7.7	10.9	10.4	13.2	15.3
Free Cash Flow / Sales	16.1 %	22.4 %	14.2 %	17.4 %	14.7 %	16.7 %	17.2 %
Free Cash Flow Potential	7.9	9.4	9.7	12.0	13.9	15.6	17.5
Free Cash Flow / Net Profit	95.1 %	119.8 %	83.1 %	97.5 %	78.6 %	89.6 %	92.2 %
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 %	2.4 %	2.2 %	1.9 %
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 %	150.6 %	134.5 %	120.1 %
Avg. Working Capital / Sales	8.6 %	8.1 %	7.8 %	8.3 %	9.7 %	10.8 %	10.8 %
Trade Debtors / Trade Creditors	1487.0 %	720.6 %	1138.3 %	1226.3 %	1416.7 %	1600.0 %	1528.6 %
Inventory Turnover	1707.9 x	1803.3 x	4056.0 x	4131.1 x	205.2 x	229.8 x	257.4 x
Receivables collection period (days)	36	33	34	36	44	44	44
Payables payment period (days)	8	15	10	10	11	10	10
Cash conversion cycle (Days)	29	18	24	26	35	36	35



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



#### **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 Potential, Peer Group Comparison or Sum of the Parts Model (see also <a href="http://www.mmwarburg.de/disclaimer/disclaimer.htm#Valuation">http://www.mmwarburg.de/disclaimer/disclaimer.htm#Valuation</a>). 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 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.



#### 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.
- 3. Any recipient of the Report should effect transactions in the securities discussed in the Report only through J.P.P. Euro-Securities, Inc., Delaware.
- 4. J.P.P. Euro-Securities, Inc. does not accept or receive any compensation of any kind for the dissemination of the research reports from Warburg.

# 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.
- 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 agreement, 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.
- The company compiling the analysis or an affiliated company had reached an **agreement on the compilation of the investment recommendation** with the analysed company.
- -6- Companies affiliated with Warburg Research regularly trade financial instruments of the analysed company or derivatives of these.
- -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)
ATOSS	5	http://www.mmwarburg.com/disclaimer/disclaimer_en/DE0005104400.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.
<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	123	62			
Hold	66	33			
Sell	4	2			
Rating suspended	6	3			
Total	199	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	34	83
Hold	5	12
Sell	0	0
Rating suspended	2	5
Total	41	100

#### PRICE AND RATING HISTORY ATOSS AS OF 12.06.2019



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.



EQUITIES			
Matthias Rode Head of Equities	+49 40 3282-2678 mrode@mmwarburg.com		
RESEARCH			
Michael Heider	+49 40 309537-280	Andreas Pläsier	+49 40 309537-246
Head of Research  Henner Rüschmeier	mheider@warburg-research.com +49 40 309537-270	Banks, Financial Services  Franz Schall	aplaesier@warburg-research.com +40 40 309537-230
Head of Research	hrueschmeier@warburg-research.com	Automobiles, Car Suppliers	fschall@warburg-research.com
Jan Bauer Renewables	+40 40 309537-155 jbauer@warburg-research.com	Malte Schaumann Technology	+49 40 309537-170 mschaumann@warburg-research.com
Jonas Blum	+40 40 309537-240	Patrick Schmidt	+49 40 309537-125
Telco, Construction	jblum@warburg-research.com	Leisure, Internet	pschmidt@warburg-research.com
Christian Cohrs Industrials & Transportation	+49 40 309537-175 ccohrs@warburg-research.com	Oliver Schwarz Chemicals, Agriculture	+49 40 309537-250 oschwarz@warburg-research.com
Felix Ellmann	+49 40 309537-120	Cansu Tatar	+49 40 309537-248
Software, IT  Jörg Philipp Frey	fellmann@warburg-research.com +49 40 309537-258	Cap. Goods, Engineering  Marc-René Tonn	ctatar@warburg-research.com +49 40 309537-259
Retail, Consumer Goods	jfrey@warburg-research.com	Automobiles, Car Suppliers	mtonn@warburg-research.com
Marius Fuhrberg Financial Services	+49 40 309537-185 mfuhrberg@warburg-research.com	Robert-Jan van der Horst Technology	+49 40 309537-290 rvanderhorst@warburg-research.com
Ulrich Huwald	+49 40 309537-255	Andreas Wolf	+49 40 309537-140
Health Care, Pharma	uhuwald@warburg-research.com	Software, IT	awolf@warburg-research.com
Philipp Kaiser Real Estate	+49 40 309537-260 pkaiser@warburg-research.com		
Thilo Kleibauer	+49 40 309537-257		
Retail, Consumer Goods  Eggert Kuls	tkleibauer@warburg-research.com +49 40 309537-256		
Engineering	ekuls@warburg-research.com		
INSTITUTIONAL EQU	ITY SALES		
Marc Niemann	+49 40 3282-2660	Michael Kriszun	+49 40 3282-2695
Head of Equity Sales, Germany	mniemann@mmwarburg.com	United Kingdom	mkriszun@mmwarburg.com
Klaus Schilling Head of Equity Sales, Germany	+49 40 3282-2664 kschilling@mmwarburg.com	Sanjay Oberoi United Kingdom, USA	+49 69 5050-7410 soberoi@mmwarburg.com
Tim Beckmann	+49 40 3282-2665	Simon Pallhuber	+49 69 5050-7414
United Kingdom  Lyubka Bogdanova	tbeckmann@mmwarburg.com +49 69 5050-7411	Switzerland, France	spallhuber@mmwarburg.com
Ireland, Poland, Australia	lbogdanova@mmwarburg.com		
Jens Buchmüller Scandinavia, Austria	+49 69 5050-7415		
Alexander Eschweiler	jbuchmueller@mmwarburg.com +49 40 3282-2669	Julia Fesenberg	+49 69 5050-7417
Germany	aeschweiler@mmwarburg.com	Roadshow/Marketing	jfesenberg@mmwarburg.com
Matthias Fritsch United Kingdom	+49 40 3282-2696 mfritsch@mmwarburg.com	Juliane Willenbruch Roadshow/Marketing	+49 40 3282-2694 jwillenbruch@mmwarburg.com
SALES TRADING	minison@mmwarburg.com		jwiiichbrach@mmwarbarg.com
Oliver Merckel	+49 40 3282-2634	Bastian Quast	+49 40 3282-2701
Head of Sales Trading	+49 40 3282-2634 omerckel@mmwarburg.com	Sales Trading	+49 40 3282-2701 bquast@mmwarburg.com
Elyaz Dust	+49 40 3282-2702	Jörg Treptow	+49 40 3282-2658
Sales Trading Michael Ilgenstein	edust@mmwarburg.com +49 40 3282-2700	Sales Trading  Jan Walter	jtreptow@mmwarburg.com +49 40 3282-2662
Sales Trading	milgenstein@mmwarburg.com	Sales Trading	jwalter@mmwarburg.com
MACRO RESEARCH			
Carsten Klude	+49 40 3282-2572	Dr. Christian Jasperneite	+49 40 3282-2439
Macro Research	cklude@mmwarburg.com	Investment Strategy	cjasperneite@mmwarburg.com
Our research can be			
Warburg Research	research.mmwarburg.com/en/index.html	Thomson Reuters	www.thomsonreuters.com
Bloomberg	MMWA GO	Capital IQ	www.capitaliq.com
FactSet	www.factset.com		
For access please conta		Manualin B. O.	. 40 10 0000 5
Andrea Schaper Sales Assistance	+49 40 3282-2632 aschaper@mmwarburg.com	Kerstin Muthig Sales Assistance	+49 40 3282-2703 kmuthig@mmwarburg.com
			5@219.00