(CDAX, Software/IT, GKS GR)



Buy		Value Indicators: DCF:		EUR Warburg ESG Risk Score: 200.64 ESG Score (MSCI based): Balance Sheet Score:		<b>Description:</b> Leading software company for	
EUR <b>200.00</b>				Market Liquidity Score:	0.0	stationary retailers	
		Market Snapshot:	EUR m	Shareholders:		Key Figures (WRe):	2021e
		Market cap:	329.0	Freefloat	41.6 %	Beta:	1.3
Price	EUR 140.00	No. of shares (m):	2.4	Rainer Gläß	29.2 %	Price / Book:	5.5 x
Upside	42.9 %	EV:	335.9	Stephan Kronmüller	23.0 %	Equity Ratio:	49 %
		Freefloat MC:	136.9	Wilhelm K.T. Zours	6.2 %	Net Fin. Debt / EBITDA:	0.7 x
		Ø Trad. Vol. (30d):	286.46 th			Net Debt / EBITDA:	0.8 x

### Fast cloud-transition indicated

in EUR m	Q4/21	Q4/21e	Q4/20	yoy	2021	2020	yoy	Comment on Figures:
								On March 28, GK Software announced preliminary figures for
								the fiscal year.
								Probably due to a rapid cloud transformation, sales were below
								expectations.
								<ul> <li>Complete figures are expected on April 28.</li> </ul>

The first impression of the published figures is that only very few "old" on-premise licenses were sold in Q4. Reading between the lines, there were long-term cloud agreements instead (which typically imply only small payments but full cost at the beginning of a project and generally higher customer lifetime value) as the company announced the acquisition of a total of 15 new customers in the CLOUD4RETAIL business (2021), seven of which concluded SaaS contracts and made an important contribution to the results. This implies that GK is making a fast transition to the cloud business.

As fiscalization (started Q2/21) and these new cloud contracts will show the first full-year effect in 2022, the numbers will probably be more predictable in the future and the estimates (WRe) are rather showing the lower end of what is possible, as some more "old fashioned upfront licences" should also be coming in 2022. For 2023, the company originally targeted revenues of EUR 160-175m and an EBIT margin of EUR 15% (WRe: EUR 170m, 15.9%). We expect this guidance to be underlined on April 28 with the final figures. This could correspond to EPS of EUR 7-8 (WRe).

The share continues to be rated Buy with a PT of EUR 200.

Changes in E	estimates:					
FY End: 31.12. in EUR m	2021e (old)	+/-	2022e (old)	+ / -	2023e (old)	+/-
Sales	133.0	-1.6 %	150.3	0.0 %	169.8	0.0 %
EBITDA	29.9	-11.4 %	31.6	0.0 %	37.7	0.0 %
EBIT	21.5	-15.2 %	22.1	0.0 %	27.0	0.0 %
DPS	0.00	0.0 %	1.50	0.0 %	1.50	0.0 %

FY 2021

Q1

Q2

AGM

### Comment on Changes:

- For 2022, the basis of recurring revenues should be solid.
- Furthermore, some "old" license revenues seem to be realistic, if not to the extent originally expected, but the mid-term expectations remain unchanged.



Rel. Performance vs CDAX:	
1 month:	7.1 %
6 months:	-3.3 %
Year to date:	-1.9 %
Trailing 12 months:	27.8 %
Company events:	

FY End: 31.12.	CAGR							
in EUR m	(20-23e)	2017	2018	2019	2020	2021e	2022e	2023e
Sales	13.0 %	90.5	106.2	115.4	117.6	130.9	150.3	169.8
Change Sales yoy		17.0 %	17.4 %	8.8 %	1.8 %	11.3 %	14.8 %	13.0 %
Gross profit margin		90.6 %	92.7 %	94.6 %	92.7 %	92.0 %	92.0 %	92.0 %
EBITDA	24.2 %	8.8	6.8	12.3	19.7	26.5	31.6	37.7
Margin		9.7 %	6.4 %	10.6 %	16.7 %	20.3 %	21.0 %	22.2 %
EBIT	36.9 %	5.0	1.6	3.4	10.5	18.3	22.1	27.0
Margin		5.5 %	1.5 %	3.0 %	9.0 %	14.0 %	14.7 %	15.9 %
Net income	40.6 %	3.9	0.9	-3.1	6.3	11.4	14.1	17.6
EPS	35.6 %	2.05	0.49	-1.55	3.00	4.86	6.01	7.48
EPS adj.	35.6 %	2.05	0.49	-1.55	3.00	4.86	6.01	7.48
DPS	-	0.00	0.00	0.00	0.00	0.00	1.50	1.50
Dividend Yield		n.a.	n.a.	n.a.	n.a.	n.a.	1.1 %	1.1 %
FCFPS		3.70	-9.27	-1.92	7.11	2.46	5.89	7.68
FCF / Market cap		3.9 %	-9.0 %	-2.8 %	10.3 %	1.8 %	4.2 %	5.5 %
EV / Sales		2.0 x	2.1 x	1.5 x	1.5 x	2.7 x	2.2 x	1.9 x
EV / EBITDA		20.9 x	32.3 x	14.1 x	8.7 x	13.2 x	10.6 x	8.5 x
EV / EBIT		36.7 x	138.3 x	50.4 x	16.4 x	19.2 x	15.2 x	11.9 x
P/E		46.0 x	210.4 x	n.a.	23.0 x	28.8 x	23.3 x	18.7 x
P / E adj.		46.0 x	210.4 x	n.a.	23.0 x	28.8 x	23.3 x	18.7 x
FCF Potential Yield		4.5 %	3.4 %	4.6 %	9.8 %	6.2 %	7.7 %	9.5 %
Net Debt		3.7	24.6	34.8	26.5	20.7	6.9	-7.6
ROCE (NOPAT)		10.6 %	16.1 %	n.a.	9.5 %	16.6 %	19.3 %	23.6 %
Guidance:	n.a.							

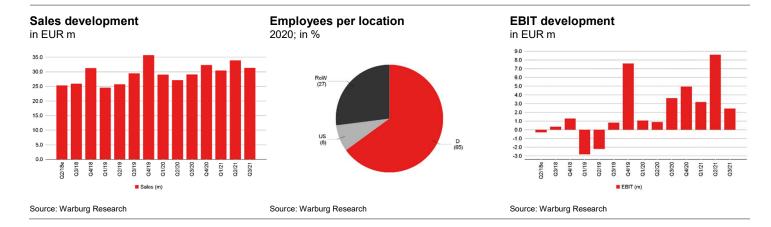
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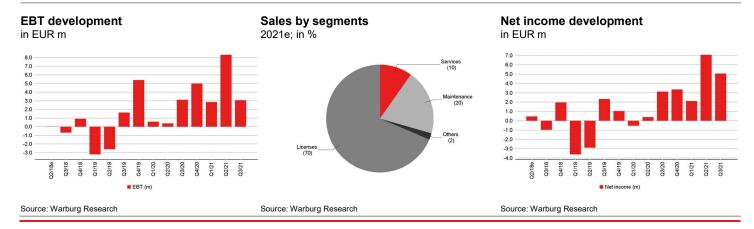


## **Company Background**

- GK Software is the leading software supplier for retailers.
- As well as standard processes, GK Software solutions facilitate special requirements such as bonus programmes, the recording of fiscal details and the seamless integration in back-end solutions.
- The business activities of GK Software divides into two segments the sale of product licences and the corresponding services.

## **Competitive Quality**

- The structural advantages of GK Software are compelling:
- GK Software's leading solution is completely Java-based, which makes it lean, platform independent and means it can be operated on the existing customer infrastructure.
- For many retail projects, GK competitors tend to undercalculate their bids and as a consequence are unable to complete the project on time and within budget.
- GK has outstanding reference clients (Hornbach, Kaufhof, Doublas, Netto, Tchibo, T-Punkt, Thalia, JYSK Nordic...)
- At the same time, GK Software's personnel costs are, depending on the location, often about 20% below those of a similar project team of a large system integrator.



# **GK Software**



DCF model														
	Detaile	d forecas	t period				٦	ransition	al period					Term. Value
Figures in EUR m	2021e	2022e	2023e	2024e	2025e	2026e	2027e	2028e	2029e	2030e	2031e	2032e	2033e	
Sales	130.9	150.3	169.8	191.9	213.0	232.2	250.8	268.3	284.4	301.5	319.6	335.5	352.3	
Sales change	11.3 %	14.8 %	13.0 %	13.0 %	11.0 %	9.0 %	8.0 %	7.0 %	6.0 %	6.0 %	6.0 %	5.0 %	5.0 %	2.5 %
EBIT	18.3	22.1	27.0	30.7	36.2	39.5	42.6	45.6	48.4	51.3	54.3	57.0	59.9	
EBIT-margin	14.0 %	14.7 %	15.9 %	16.0 %	17.0 %	17.0 %	17.0 %	17.0 %	17.0 %	17.0 %	17.0 %	17.0 %	17.0 %	
Tax rate (EBT)	29.0 %	29.0 %	29.0 %	29.0 %	29.0 %	29.0 %	29.0 %	29.0 %	29.0 %	29.0 %	29.0 %	29.0 %	29.0 %	
NOPAT	13.0	15.7	19.2	21.8	25.7	28.0	30.3	32.4	34.3	36.4	38.6	40.5	42.5	
Depreciation	8.2	9.5	10.7	13.4	10.7	9.3	7.5	8.0	8.5	9.0	9.6	10.1	10.6	
in % of Sales	6.3 %	6.3 %	6.3 %	7.0 %	5.0 %	4.0 %	3.0 %	3.0 %	3.0 %	3.0 %	3.0 %	3.0 %	3.0 %	
Changes in provisions	0.0	0.0	0.0	-2.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Change in Liquidity from														
- Working Capital	9.0	4.4	4.4	5.0	4.8	4.3	4.2	4.0	3.6	3.9	4.1	3.6	3.8	
- Capex	5.0	5.5	6.0	6.7	8.5	7.0	7.5	8.0	8.5	9.0	9.6	10.1	10.6	
Capex in % of Sales	3.8 %	3.7 %	3.5 %	3.5 %	4.0 %	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)	7.2	15.3	19.5	21.5	23.1	26.1	26.1	28.5	30.7	32.6	34.5	36.9	38.8	43
PV of FCF	7.4	14.3	16.8	17.1	17.0	17.6	16.2	16.3	16.2	15.8	15.4	15.1	14.6	263
share of PVs	nare of PVs 8.32 %				34.81 %									56.87 %

Model parameter				Valuation (m)							
Derivation of WACC:		Derivation of Beta:		Present values 2033e	200						
				Terminal Value	263						
Debt ratio	0.00 %	Financial Strength	1.30	Financial liabilities	33						
Cost of debt (after tax)	4.2 %	Liquidity (share)	1.30	Pension liabilities	3						
Market return	7.00 %	Cyclicality	1.30	Hybrid capital	0						
Risk free rate	1.50 %	Transparency	1.30	Minority interest	1						
		Others	1.30	Market val. of investments	0						
				Liquidity	45	No. of shares (m)	2.4				
WACC	8.65 %	Beta	1.30	Equity Value	472	Value per share (EUR)	200.64				

Jens	isluvity value per Silare (EUK)																
		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
1.48	9.7 %	162.46	165.02	167.76	170.68	173.82	177.19	180.82	1.48	9.7 %	154.73	160.05	165.36	170.68	176.00	181.31	186.63
1.39	9.2 %	174.55	177.63	180.94	184.50	188.34	192.48	196.98	1.39	9.2 %	167.30	173.03	178.77	184.50	190.24	195.97	201.71
1.35	8.9 %	181.25	184.65	188.31	192.25	196.51	201.13	206.16	1.35	8.9 %	174.34	180.31	186.28	192.25	198.22	204.18	210.15
1.30	8.7 %	188.46	192.21	196.26	200.64	205.39	210.56	216.20	1.30 8	8.7 %	181.97	188.19	194.42	200.64	206.86	213.09	219.31
1.25	8.4 %	196.23	200.39	204.88	209.76	215.07	220.88	227.24	1.25	8.4 %	190.27	196.77	203.26	209.76	216.26	222.76	229.26
1.21	8.2 %	204.63	209.25	214.26	219.72	225.68	232.22	239.43	1.21 8	8.2 %	199.32	206.12	212.92	219.72	226.51	233.31	240.11
1.12	7.7 %	223.63	229.39	235.68	242.59	250.20	258.63	268.02	1.12	7.7 %	220.12	227.61	235.10	242.59	250.08	257.57	265.06

- GK has been able to grow strongly in recent years and, last but not least, convince in terms of profitability
- The technological leadership position and the cooperation with SAP form a good basis for further growth
- This leading position in the world provides considerable scope for sales and earnings

# **GK Software**



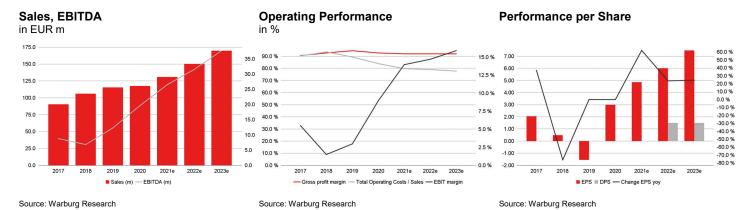
Valuation							
	2017	2018	2019	2020	2021e	2022e	2023e
Price / Book	4.6 x	5.0 x	3.3 x	3.0 x	5.5 x	4.5 x	3.7 x
Book value per share ex intangibles	7.02	4.82	6.71	10.68	16.36	24.67	33.31
EV / Sales	2.0 x	2.1 x	1.5 x	1.5 x	2.7 x	2.2 x	1.9 x
EV / EBITDA	20.9 x	32.3 x	14.1 x	8.7 x	13.2 x	10.6 x	8.5 x
EV / EBIT	36.7 x	138.3 x	50.4 x	16.4 x	19.2 x	15.2 x	11.9 x
EV / EBIT adj.*	36.7 x	138.3 x	50.4 x	16.4 x	19.2 x	15.2 x	11.9 x
P/FCF	25.5 x	n.a.	n.a.	9.7 x	56.9 x	23.8 x	18.2 x
P/E	46.0 x	210.4 x	n.a.	23.0 x	28.8 x	23.3 x	18.7 x
P / E adj.*	46.0 x	210.4 x	n.a.	23.0 x	28.8 x	23.3 x	18.7 x
Dividend Yield	n.a.	n.a.	n.a.	n.a.	n.a.	1.1 %	1.1 %
FCF Potential Yield (on market EV)	4.5 %	3.4 %	4.6 %	9.8 %	6.2 %	7.7 %	9.5 %
*Adjustments made for: -							



Consolidated profit & loss							
In EUR m	2017	2018	2019	2020	2021e	2022e	2023
Sales	90.5	106.2	115.4	117.6	130.9	150.3	169.8
Change Sales yoy	17.0 %	17.4 %	8.8 %	1.8 %	11.3 %	14.8 %	13.0 %
Increase / decrease in inventory	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Own work capitalised	0.0	0.0	0.0	8.0	0.0	0.0	0.0
Total Sales	90.5	106.2	115.4	118.4	130.9	150.3	169.8
Material expenses	8.5	7.7	6.2	9.4	10.5	12.0	13.6
Gross profit	81.9	98.4	109.2	109.0	120.4	138.3	156.2
Gross profit margin	90.6 %	92.7 %	94.6 %	92.7 %	92.0 %	92.0 %	92.0 %
Personnel expenses	57.8	68.8	78.1	75.6	82.1	93.2	104.1
Other operating income	5.2	3.6	3.8	4.3	6.5	5.3	5.9
Other operating expenses	20.5	26.4	22.7	17.9	18.3	18.8	20.4
Unfrequent items	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBITDA	8.8	6.8	12.3	19.7	26.5	31.6	37.7
Margin	9.7 %	6.4 %	10.6 %	16.7 %	20.3 %	21.0 %	22.2 %
Depreciation of fixed assets	1.4	2.7	2.0	2.0	2.0	2.3	2.5
EBITA	7.4	4.1	10.3	17.7	24.5	29.3	35.2
Amortisation of intangible assets	2.2	2.5	6.8	7.2	6.3	7.2	8.2
Goodwill amortisation	0.2	0.0	0.0	0.0	0.0	0.0	0.0
EBIT	5.0	1.6	3.4	10.5	18.3	22.1	27.0
Margin	5.5 %	1.5 %	3.0 %	9.0 %	14.0 %	14.7 %	15.9 %
EBIT adj.	5.0	1.6	3.4	10.5	18.3	22.1	27.0
Interest income	0.1	0.1	0.1	0.2	0.0	0.0	0.0
Interest expenses	8.0	1.6	2.3	1.6	2.0	2.0	2.0
Other financial income (loss)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBT	4.3	0.2	1.2	9.1	16.3	20.1	25.0
Margin	4.8 %	0.2 %	1.1 %	7.7 %	12.4 %	13.4 %	14.7 %
Total taxes	0.5	-0.8	4.4	2.8	4.7	5.8	7.3
Net income from continuing operations	3.9	0.9	-3.1	6.3	11.5	14.3	17.8
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	3.9	0.9	-3.1	6.3	11.5	14.3	17.8
Minority interest	0.0	0.0	0.0	-0.1	0.1	0.2	0.2
Net income	3.9	0.9	-3.1	6.3	11.4	14.1	17.6
Margin	4.3 %	0.9 %	-2.7 %	5.4 %	8.7 %	9.4 %	10.4 %
Number of shares, average	1.9	1.9	2.0	2.1	2.4	2.4	2.4
EPS	2.05	0.49	-1.55	3.00	4.86	6.01	7.48
EPS adj.	2.05	0.49	-1.55	3.00	4.86	6.01	7.48
*Adjustments made for:							

Guidance: n.a.

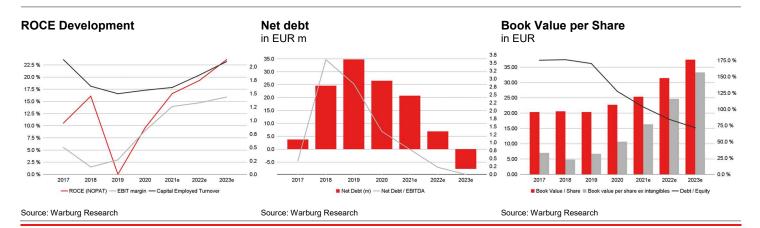
Financial Ratios										
	2017	2018	2019	2020	2021e	2022e	2023e			
Total Operating Costs / Sales	90.3 %	93.6 %	89.4 %	84.0 %	79.8 %	79.0 %	77.8 %			
Operating Leverage	1.6 x	-3.9 x	13.1 x	113.2 x	6.5 x	1.4 x	1.7 x			
EBITDA / Interest expenses	11.2 x	4.4 x	5.4 x	12.0 x	13.3 x	15.8 x	18.9 x			
Tax rate (EBT)	10.5 %	-439.8 %	354.6 %	31.1 %	29.0 %	29.0 %	29.0 %			
Dividend Payout Ratio	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	24.7 %	19.9 %			
Sales per Employee	201,806	232,188	247,572	247,158	269,808	303,700	336,452			





Consolidated balance sheet							
In EUR m	2017	2018	2019	2020	2021e	2022e	2023e
Assets							
Goodwill and other intangible assets	25.4	30.0	27.6	25.4	21.1	15.9	9.8
thereof other intangible assets	21.4	12.2	22.2	25.4	21.1	15.9	9.8
thereof Goodwill	4.0	17.9	5.4	0.0	0.0	0.0	0.0
Property, plant and equipment	14.2	22.7	33.0	31.1	32.1	33.4	34.8
Financial assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other long-term assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fixed assets	39.6	52.8	60.7	56.6	53.3	49.3	44.6
Inventories	1.0	0.5	0.3	0.2	1.3	1.5	1.7
Accounts receivable	17.7	26.0	24.0	24.0	32.3	37.1	41.9
Liquid assets	30.5	11.8	8.1	9.4	15.2	29.0	43.6
Other short-term assets	17.8	20.0	21.2	20.6	20.6	20.6	20.6
Current assets	67.0	58.4	53.5	54.2	69.4	88.2	107.7
Total Assets	106.6	111.2	114.2	110.7	122.7	137.6	152.4
Liabilities and shareholders' equity							
Subscribed capital	1.9	1.9	2.0	2.1	2.1	2.1	2.1
Capital reserve	20.5	21.4	27.3	28.7	28.7	28.7	28.7
Retained earnings	0.0	0.0	0.0	0.0	11.4	25.6	39.6
Other equity components	16.3	15.8	11.8	17.2	17.4	17.6	17.7
Shareholders' equity	38.7	39.2	41.2	47.9	59.6	73.9	88.0
Minority interest	0.0	1.1	1.1	0.7	0.7	0.7	0.7
Total equity	38.7	40.3	42.3	48.7	60.3	74.6	88.8
Provisions	3.7	3.1	4.2	3.5	3.5	3.5	3.5
thereof provisions for pensions and similar obligations	1.9	1.6	2.8	2.7	2.7	2.7	2.7
Financial liabilities (total)	32.3	34.8	40.1	33.2	33.2	33.2	33.2
Short-term financial liabilities	10.3	12.3	13.9	7.8	7.8	7.8	7.8
Accounts payable	1.8	2.4	2.5	3.6	4.0	4.6	5.2
Other liabilities	30.0	30.7	25.2	21.7	21.7	21.7	21.7
Liabilities	67.9	70.9	71.9	62.0	62.4	63.0	63.6
Total liabilities and shareholders' equity	106.6	111.2	114.2	110.7	122.7	137.6	152.4

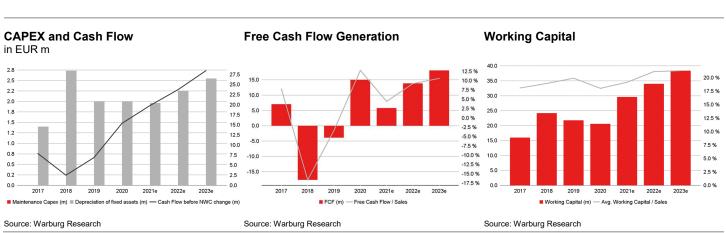
Financial Ratios							
	2017	2018	2019	2020	2021e	2022e	2023e
Efficiency of Capital Employment							
Operating Assets Turnover	3.0 x	2.3 x	2.1 x	2.3 x	2.1 x	2.2 x	2.3 x
Capital Employed Turnover	2.1 x	1.6 x	1.5 x	1.6 x	1.6 x	1.8 x	2.1 x
ROA	9.8 %	1.8 %	-5.2 %	11.2 %	21.4 %	28.6 %	39.4 %
Return on Capital							
ROCE (NOPAT)	10.6 %	16.1 %	n.a.	9.5 %	16.6 %	19.3 %	23.6 %
ROE	11.1 %	2.4 %	-7.8 %	14.2 %	21.2 %	21.2 %	21.7 %
Adj. ROE	11.1 %	2.4 %	-7.8 %	14.2 %	21.2 %	21.2 %	21.7 %
Balance sheet quality							
Net Debt	3.7	24.6	34.8	26.5	20.7	6.9	-7.6
Net Financial Debt	1.8	23.0	32.0	23.8	18.0	4.2	-10.4
Net Gearing	9.6 %	61.1 %	82.3 %	54.5 %	34.4 %	9.2 %	-8.6 %
Net Fin. Debt / EBITDA	21.0 %	337.0 %	261.2 %	120.8 %	67.9 %	13.2 %	n.a.
Book Value / Share	20.3	20.6	20.4	22.7	25.3	31.4	37.5
Book value per share ex intangibles	7.0	4.8	6.7	10.7	16.4	24.7	33.3





Consolidated cash flow statement							
In EUR m	2017	2018	2019	2020	2021e	2022e	2023e
Net income	3.9	0.9	-3.1	6.3	11.5	14.3	17.8
Depreciation of fixed assets	1.4	2.7	2.0	2.0	2.0	2.3	2.5
Amortisation of goodwill	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Amortisation of intangible assets	2.2	2.5	6.8	7.2	6.3	7.2	8.2
Increase/decrease in long-term provisions	0.2	-0.3	1.2	0.0	0.0	0.0	0.0
Other non-cash income and expenses	0.0	-3.3	0.0	0.0	0.0	0.0	0.0
Cash Flow before NWC change	7.9	2.5	6.9	15.4	19.8	23.7	28.5
Increase / decrease in inventory	0.2	0.5	0.2	0.1	-1.1	-0.2	-0.2
Increase / decrease in accounts receivable	0.3	-8.3	2.0	0.0	-8.3	-4.8	-4.8
Increase / decrease in accounts payable	0.2	-0.3	0.1	1.1	0.4	0.6	0.6
Increase / decrease in other working capital positions	6.6	0.0	-9.6	1.1	0.0	0.0	0.0
Increase / decrease in working capital (total)	7.3	-8.2	-7.1	2.3	-9.0	-4.4	-4.4
Net cash provided by operating activities [1]	15.2	-5.7	-0.2	17.7	10.8	19.3	24.1
Investments in intangible assets	-0.3	-0.3	-0.5	-0.8	-2.0	-2.0	-2.0
Investments in property, plant and equipment	<b>-</b> 7.9	-11.7	-3.1	-1.9	-3.0	-3.5	-4.0
Payments for acquisitions	0.0	-3.9	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	0.2	0.0	-0.3	0.0	0.0	0.0
Net cash provided by investing activities [2]	-9.3	-15.7	-3.6	-3.0	-5.0	-5.5	-6.0
Change in financial liabilities	17.5	-0.9	5.3	-6.9	0.0	0.0	0.0
Dividends paid	0.0	0.0	0.0	0.0	0.0	0.0	-3.5
Purchase of own shares	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Capital measures	0.0	0.6	0.0	0.0	0.0	0.0	0.0
Other	1.6	0.0	-5.2	-4.4	0.0	0.0	0.0
Net cash provided by financing activities [3]	19.1	-0.3	0.1	-11.3	0.0	0.0	-3.5
Change in liquid funds [1]+[2]+[3]	25.1	-21.7	-3.8	3.4	5.8	13.8	14.5
Effects of exchange-rate changes on cash	0.0	-0.1	0.0	0.0	0.0	0.0	0.0
Cash and cash equivalent at end of period	27.9	8.7	2.3	5.7	15.2	29.0	43.6

Financial Ratios							
	2017	2018	2019	2020	2021e	2022e	2023e
Cash Flow							
FCF	7.0	-17.6	-3.9	15.0	5.8	13.8	18.1
Free Cash Flow / Sales	7.8 %	-16.6 %	-3.4 %	12.8 %	4.4 %	9.2 %	10.6 %
Free Cash Flow Potential	8.3	7.6	7.9	16.9	21.8	25.7	30.5
Free Cash Flow / Net Profit	180.8 %	-1907.9 %	124.3 %	237.2 %	50.7 %	98.0 %	102.7 %
Interest Received / Avg. Cash	0.7 %	0.7 %	0.7 %	2.2 %	0.0 %	0.0 %	0.0 %
Interest Paid / Avg. Debt	3.3 %	4.7 %	6.1 %	4.5 %	6.0 %	6.0 %	6.0 %
Management of Funds							
Investment ratio	9.0 %	11.3 %	3.2 %	2.3 %	3.8 %	3.7 %	3.5 %
Maint. Capex / Sales	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
Capex / Dep	215.8 %	228.7 %	41.3 %	29.3 %	60.6 %	58.1 %	56.1 %
Avg. Working Capital / Sales	18.1 %	18.9 %	19.9 %	18.0 %	19.2 %	21.2 %	21.3 %
Trade Debtors / Trade Creditors	964.6 %	1100.6 %	965.5 %	667.8 %	807.5 %	806.5 %	805.8 %
Inventory Turnover	8.6 x	14.8 x	21.9 x	47.2 x	8.1 x	8.0 x	8.0 x
Receivables collection period (days)	71	90	76	74	90	90	90
Payables payment period (days)	79	112	146	139	139	140	140
Cash conversion cycle (Days)	-1	2	-53	-57	-4	-4	-4





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10

**Total** 



100

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-B-	Buy:	The price of the analysed financial instrument is expected to rise over the next 12 months.
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<b>"_</b> "	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	170	80			
Hold	35	17			
Sell	4	2			
Rating suspended	3	1			

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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	51	86
Hold	5	8
Sell	1	2
Rating suspended	2	3
Total	59	100

### PRICE AND RATING HISTORY GK SOFTWARE AS OF 29.03.2022



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