

D		Value Indicators:	EUR	Warburg ESG Risk Score:	2.8	Description:	
Buy		DCF:	52.35	ESG Score (MSCI based):	3.0	Online broker specialized	on heavy
				Balance Sheet Score:	5.0	traders	On neavy
EUR 52.30				Market Liquidity Score:	0.5		
		Market Snapshot:	EUR m	Shareholders:		Key Figures (WRe):	2021/22e
		Market cap:	65.9	Freefloat	64.10 %	Beta:	1.4
Price	EUR 28.20	No. of shares (m):	2.3	Ingo Hillen	11.00 %	Price / Book:	2.6 x
Upside	85.5 %	EV:	44.3	HSBC Trinkaus & Burkhardt	24.90 %	Equity Ratio:	84 %
-		Freefloat MC:	42.3				
		Ø Trad. Vol. (30d):	31.59 th				

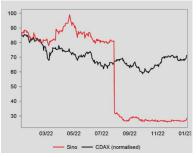
First Glance: Trade Republic to attract new customers by paying 2% interest

Trade Republic (in which sino holds a stake of 2.3%) announced it would pay its customers 2% interest on deposits up to EUR 50k. With other banks or brokers are increasing their rates only moderately, this step was rather surprising. However, for the reasons outlined below, this step is probably to be seen as a smart marketing move to gain further clients:

- Trade Republic (TR) announced it would pay 2% interest on deposits for existing and new clients. In the short run, this will probably cost the company, as the ECB currently pays 2% interest on its deposit facility, of which the partner banks presumably keep a fair share. Assuming the partner banks keep 0.5%, the remaining delta for Trade Republic would be 1.5%, leaving the company with costs of 0.5% on deposits.
- However, the ECB will probably increase interest rates at its next meeting which should lower or eliminate the costs TR effectively has to pay, assuming that the interest for customers remains at 2%.
- Assuming about EUR 1bn cash of existing customers and interest expenses of 0.5% for three months, the effective costs from existing customers would be only EUR 1.25m.
- Furthermore, assuming that this measure attracts 250k new customers, each with deposits of about EUR 10k, total fresh deposits would amount to EUR 2.5bn. Once again, with 0.5% interest expenses for three months, this would effectively cost the company EUR 3.125m.
- Expressing these interest expenses as customer acquisition costs, TR would have spent EUR 4.375m for another 250k customers, which is EUR 17.5 per new customer and a bargain in terms of customer acquisition costs.
- Even though not all of these customers become trading customers initially, they have at least an affinity for finance and saving. In our view this should result in a relatively high probability of converting a good share of these new customers into at least ETF saving-plan customers. Assuming that interest rates increase further and assuming no change in TR's 2% on customer deposits, the company would then still earn a considerable interest income.

Assessment: Even though the surprising step by Trade Republic to pay 2% interest on customer deposits has no direct impact on sino, it should boost the customer growth rate at TR. This in turn should increase the probability of a higher valuation in a potential exit scenario for sino, which is the main value contributor of our investment case. Therefore, the step is regarded to be positive for sino as well.

CACD



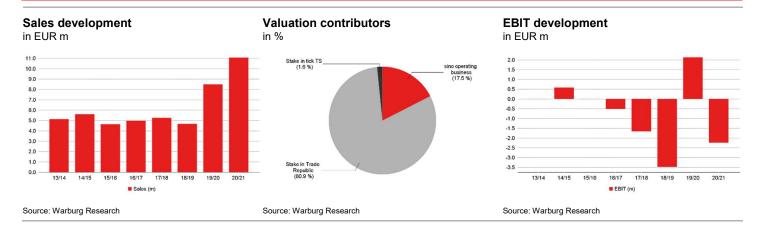
Rel. Performance vs CDAX:	
1 month:	4.6 %
6 months:	-79.7 %
Year to date:	0.9 %
Trailing 12 months:	-50.1 %

in EUR m	(20/21-23/24e)	2017/18	2018/19	2019/20	2020/21	2021/22e	2022/23e	2023/24e
Sales	-6.2 %	5.3	4.7	8.5	11.1	8.9	9.0	9.1
Change Sales yoy		5.8 %	-11.1 %	82.0 %	30.3 %	-19.9 %	1.5 %	1.4 %
Gross profit margin		100.0 %	95.8 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %
EBITDA	-	-1.4	-3.1	2.4	-2.0	0.6	1.4	1.9
Margin		-26.6 %	-66.6 %	28.4 %	-18.0 %	7.1 %	15.6 %	20.5 %
EBIT	-	-1.7	-3.5	2.1	-2.2	0.3	1.0	1.5
Margin		-31.6 %	-74.3 %	25.0 %	-20.2 %	3.1 %	11.6 %	16.5 %
Net income	-79.2 %	-1.0	-1.6	9.5	139.4	0.4	1.0	1.3
EPS	-79.2 %	-0.42	-0.69	4.07	59.65	0.19	0.42	0.54
EPS adj.	-79.2 %	-0.42	-0.69	4.07	59.65	0.19	0.42	0.54
DPS	-	0.00	0.64	2.92	0.00	53.00	0.00	0.00
Dividend Yield		n.a.	15.0 %	33.7 %	n.a.	187.9 %	n.a.	n.a.
FCFPS		-0.36	-1.01	1.43	-2.27	0.54	0.48	0.65
FCF / Market cap		-10.1 %	-23.8 %	16.5 %	-4.1 %	1.9 %	1.7 %	2.3 %
EV / Sales		1.6 x	2.1 x	2.4 x	n.a.	5.1 x	4.9 x	4.7 x
EV / EBITDA		n.a.	n.a.	8.4 x	n.a.	71.7 x	31.6 x	22.9 x
EV / EBIT		n.a.	n.a.	9.5 x	n.a.	163.0 x	42.6 x	28.4 x
P/E		n.a.	n.a.	2.1 x	0.9 x	148.4 x	67.1 x	52.2 x
P / E adj.		n.a.	n.a.	2.1 x	0.9 x	148.4 x	67.1 x	52.2 x
FCF Potential Yield	I	-11.7 %	-22.6 %	8.4 %	39.9 %	1.0 %	2.2 %	3.0 %
Net Debt		-0.3	0.0	0.0	-143.1	-20.5	-21.6	-23.1
ROCE (NOPAT)		n.a.	n.a.	19.1 %	n.a.	3.7 %	15.3 %	22.4 %
Guidance:	Net income b	etween EUR	0.2m and 1.3	3m				

Company events:

FV End: 30 9



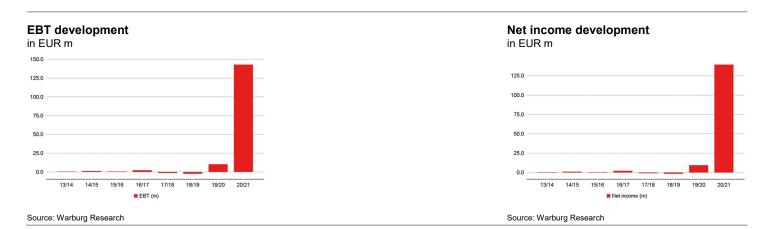


Company Background

- sino is a high end online brokerage company, specializing on providing services to heavy traders.
- The trading software tool MX-PRO is especially designed to fulfill the needs of heavy traders providing extraordinary high stability.
- In addition to common product offerings, such as stocks, bonds, futures, derivatives, ETFs, funds and forex, sino also grants access to IPOs and the ability to short-sale securities.
- The very experienced management team is actively contributing to the development of the industry with investments in the fintech startups Trade Republic and Quinn Technologies.

Competitive Quality

- High end trading platform provides extended scale of services through customizable software tools with access to a greater variety of financial products than usual brokerage businesses.
- sino operates in the niche market of heavy traders with few competitors and considerable entry barriers due to the loyalty of the customer base.
- The strong software and trading partners, HSBC Trinkaus and tick Trading Software, support sino through banking and operational frameworks.
- With the outsourcing of the IT and technical settlements to third-parties, sino is able to keep a lean corporate structure.
- Attractive shareholdings in Trade Republic, tick Trading Software and Quinn Technologies add significant value.





DCF model														
	Detaile	d forecas	t period				٦	ransition	al period					Term. Value
Figures in EUR m	21/22e	22/23e	23/24e	24/25e	25/26e	26/27e	27/28e	28/29e	29/30e	30/31e	31/32e	32/33e	33/34e	
Sales	8.9	9.0	9.1	9.3	9.4	9.6	9.7	9.8	10.0	10.1	10.3	10.4	10.6	
Sales change	-19.9 %	1.5 %	1.4 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %	1.5 %
EBIT	0.3	1.0	1.5	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1	
EBIT-margin	3.1 %	11.6 %	16.5 %	20.0 %	20.0 %	20.0 %	20.0 %	20.0 %	20.0 %	20.0 %	20.0 %	20.0 %	20.0 %	
Tax rate (EBT)	30.0 %	30.0 %	32.0 %	32.0 %	32.0 %	32.0 %	32.0 %	32.0 %	32.0 %	32.0 %	32.0 %	32.0 %	32.0 %	
NOPAT	0.2	0.7	1.0	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	
Depreciation	0.4	0.4	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
in % of Sales	4.0 %	4.0 %	4.0 %	4.0 %	3.0 %	2.0 %	1.0 %	1.0 %	1.0 %	1.0 %	1.0 %	1.0 %	1.0 %	
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	-0.6	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
- Capex	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Capex in % of Sales	1.2 %	1.2 %	1.2 %	1.5 %	1.5 %	1.5 %	1.0 %	1.0 %	1.0 %	1.0 %	1.0 %	1.0 %	1.0 %	
- 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)	1.0	0.9	1.3	1.5	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1
PV of FCF	1.0	8.0	1.0	1.1	0.9	0.8	0.7	0.6	0.6	0.5	0.5	0.4	0.4	5
share of PVs		19.86 %						46.37	7 %					33.77 %

Model parameter				Valuation (m)							
Derivation of WACC:		Derivation of Beta:		Present values 2033/34e	9						
				Terminal Value	5						
Debt ratio	0.00 %	Financial Strength	1.20	Financial liabilities	0						
Cost of debt (after tax)	4.2 %	Liquidity (share)	1.50	Pension liabilities	0						
Market return	8.25 %	Cyclicality	1.40	Hybrid capital	0						
Risk free rate	2.75 %	Transparency	1.40	Minority interest	0						
		Others	1.40	Market val. of investments	94						
				Liquidity	14	No. of shares (m)	2.3				
WACC	10.34 %	Beta	1.38	Equity Value	122	Value per share (EUR)	52.35				

Sens	itivity Va	lue per Sh	are (EUR)													
		Terminal (Growth								Delta EBI	Γ-margin					
Beta	WACC	0.75 %	1.00 %	1.25 %	1.50 %	1.75 %	2.00 %	2.25 %	Beta	WACC	-1.5 pp	-1.0 pp	-0.5 pp	+0.0 pp	+0.5 pp	+1.0 pp	+1.5 pp
1.56	11.3 %	51.66	51.69	51.73	51.77	51.81	51.86	51.91	1.56	11.3 %	51.34	51.49	51.63	51.77	51.91	52.06	52.20
1.47	10.8 %	51.91	51.95	52.00	52.05	52.10	52.15	52.20	1.47	10.8 %	51.60	51.75	51.90	52.05	52.20	52.35	52.50
1.43	10.6 %	52.05	52.09	52.14	52.19	52.25	52.31	52.37	1.43	10.6 %	51.73	51.89	52.04	52.19	52.35	52.50	52.65
1.38	10.3 %	52.19	52.24	52.29	52.35	52.41	52.47	52.54	1.38	10.3 %	51.88	52.03	52.19	52.35	52.51	52.67	52.82
1.33	10.1 %	52.34	52.40	52.45	52.52	52.58	52.65	52.72	1.33	10.1 %	52.03	52.19	52.35	52.52	52.68	52.84	53.00
1.29	9.8 %	52.50	52.56	52.62	52.69	52.76	52.84	52.92	1.29	9.8 %	52.19	52.36	52.52	52.69	52.86	53.02	53.19
1.20	9.3 %	52.85	52.92	53.00	53.07	53.16	53.25	53.35	1.20	9.3 %	52.54	52.72	52.90	53.07	53.25	53.43	53.60

- Strong top-line growth in 2021 is triggered by a favourable market environment
- A normalisation is assumed thereafter, resulting in declining revenues in 2022e
- The remaining stakes in Trade Republic and tick TS AG are reflected in market value of investments
- The value of the remaining share in Trade Republic bases on the last financing round

sino



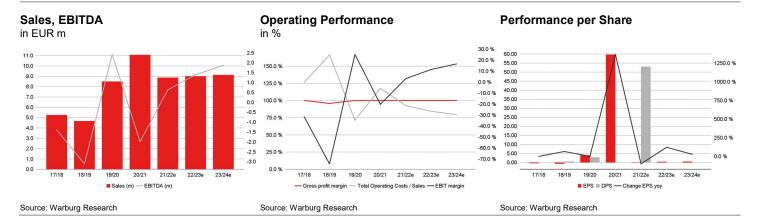
Valuation							
	2017/18	2018/19	2019/20	2020/21	2021/22e	2022/23e	2023/24e
Price / Book	1.2 x	2.2 x	1.2 x	0.9 x	2.6 x	2.5 x	2.4 x
Book value per share ex intangibles	2.63	1.72	6.83	63.57	10.72	11.13	11.67
EV / Sales	1.6 x	2.1 x	2.4 x	n.a.	5.1 x	4.9 x	4.7 x
EV / EBITDA	n.a.	n.a.	8.4 x	n.a.	71.7 x	31.6 x	22.9 x
EV / EBIT	n.a.	n.a.	9.5 x	n.a.	163.0 x	42.6 x	28.4 x
EV / EBIT adj.*	n.a.	n.a.	9.5 x	n.a.	163.0 x	42.6 x	28.4 x
P / FCF	n.a.	n.a.	6.1 x	n.a.	52.7 x	58.5 x	43.3 x
P/E	n.a.	n.a.	2.1 x	0.9 x	148.4 x	67.1 x	52.2 x
P / E adj.*	n.a.	n.a.	2.1 x	0.9 x	148.4 x	67.1 x	52.2 x
Dividend Yield	n.a.	15.0 %	33.7 %	n.a.	187.9 %	n.a.	n.a.
FCF Potential Yield (on market EV)	-11.7 %	-22.6 %	8.4 %	39.9 %	1.0 %	2.2 %	3.0 %
*Adjustments made for: -							



Consolidated profit & loss							
In EUR m	2017/18	2018/19	2019/20	2020/21	2021/22e	2022/23e	2023/24e
Sales	5.3	4.7	8.5	11.1	8.9	9.0	9.1
Change Sales yoy	5.8 %	-11.1 %	82.0 %	30.3 %	-19.9 %	1.5 %	1.4 %
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	0.0	0.0	0.0	0.0
Total Sales	5.3	4.7	8.5	11.1	8.9	9.0	9.1
Material expenses	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Gross profit	5.3	4.5	8.5	11.1	8.9	9.0	9.1
Gross profit margin	100.0 %	95.8 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %
Personnel expenses	2.6	2.9	2.7	3.4	3.5	3.4	3.2
Other operating income	0.5	0.5	0.3	0.5	0.9	0.5	0.5
Other operating expenses	4.6	5.1	3.7	10.2	5.6	4.7	4.6
Unfrequent items	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBITDA	-1.4	-3.1	2.4	-2.0	0.6	1.4	1.9
Margin	-26.6 %	-66.6 %	28.4 %	-18.0 %	7.1 %	15.6 %	20.5 %
Depreciation of fixed assets	0.3	0.4	0.3	0.2	0.4	0.4	0.4
EBITA	-1.7	-3.5	2.1	-2.2	0.3	1.0	1.5
Amortisation of intangible assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Goodwill amortisation	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBIT	-1.7	-3.5	2.1	-2.2	0.3	1.0	1.5
Margin	-31.6 %	-74.3 %	25.0 %	-20.2 %	3.1 %	11.6 %	16.5 %
EBIT adj.	-1.7	-3.5	2.1	-2.2	0.3	1.0	1.5
Interest income	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interest expenses	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other financial income (loss)	0.6	1.2	8.1	145.3	0.5	0.5	0.5
EBT	-1.4	-2.5	10.2	143.0	0.6	1.4	1.9
Margin	-26.8 %	-53.1 %	120.5 %	1291.3 %	7.1 %	15.4 %	20.3 %
Total taxes	-0.4	-0.9	0.7	3.6	0.2	0.4	0.6
Net income from continuing operations	-1.0	-1.6	9.5	139.4	0.4	1.0	1.3
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	-1.0	-1.6	9.5	139.4	0.4	1.0	1.3
Minority interest	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net income	-1.0	-1.6	9.5	139.4	0.4	1.0	1.3
Margin	-18.5 %	-34.7 %	112.0 %	1258.9 %	5.0 %	10.8 %	13.8 %
Number of shares, average	2.3	2.3	2.3	2.3	2.3	2.3	2.3
EPS	-0.42	-0.69	4.07	59.65	0.19	0.42	0.54
EPS adj.	-0.42	-0.69	4.07	59.65	0.19	0.42	0.54
*Adjustments made for:							

Guidance: Net income between EUR 0.2m and 1.3m

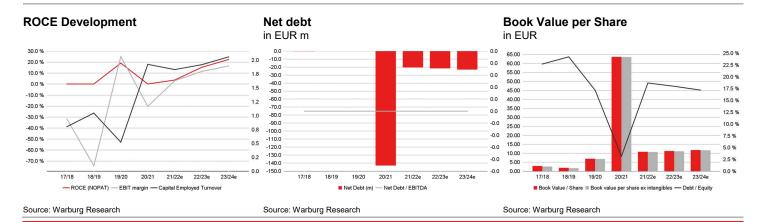
Financial Ratios							
	2017/18	2018/19	2019/20	2020/21	2021/22e	2022/23e	2023/24e
Total Operating Costs / Sales	126.6 %	166.6 %	71.6 %	118.0 %	92.9 %	84.4 %	79.5 %
Operating Leverage	38.4 x	-9.8 x	n.a.	n.a.	n.a.	185.7 x	30.8 x
EBITDA / Interest expenses	n.m.	n.m.	490.4 x	n.m.	n.a.	n.a.	n.a.
Tax rate (EBT)	31.0 %	34.7 %	7.1 %	2.5 %	30.0 %	30.0 %	32.0 %
Dividend Payout Ratio	0.0 %	n.m.	71.7 %	0.0 %	28145.1 %	0.0 %	0.0 %
Sales per Employee	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.





Consolidated balance sheet							
In EUR m	2017/18	2018/19	2019/20	2020/21	2021/22e	2022/23e	2023/24
Assets							
Goodwill and other intangible assets	0.7	0.5	0.3	0.3	0.3	0.3	0.3
thereof other intangible assets	0.5	0.5	0.3	0.3	0.3	0.3	0.3
thereof Goodwill	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Property, plant and equipment	0.4	0.3	0.2	0.4	0.1	-0.1	-0.4
Financial assets	0.6	2.5	9.4	5.6	5.5	5.5	5.4
Other long-term assets	0.3	0.3	1.3	0.0	0.0	0.0	0.0
Fixed assets	2.0	3.6	11.2	6.2	5.9	5.6	5.3
Inventories	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Accounts receivable	5.4	1.9	7.7	4.2	3.6	3.7	3.7
Liquid assets	0.3	0.0	0.0	143.1	20.5	21.6	23.1
Other short-term assets	8.0	0.1	0.1	0.1	0.1	0.1	0.1
Current assets	6.4	2.0	7.9	147.4	24.2	25.4	26.9
Total Assets	8.4	5.6	19.1	153.6	30.1	31.0	32.3
Liabilities and shareholders' equity							
Subscribed capital	2.3	2.3	2.3	2.3	2.3	2.3	2.3
Capital reserve	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Retained earnings	0.2	0.2	1.4	1.4	-122.1	-121.1	-119.8
Other equity components	4.2	1.9	12.5	145.1	145.0	145.0	145.0
Shareholders' equity	6.8	4.5	16.3	148.9	25.3	26.3	27.6
Minority interest	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total equity	6.8	4.5	16.3	148.9	25.3	26.3	27.6
Provisions	0.7	0.6	1.5	4.3	4.3	4.3	4.3
thereof provisions for pensions and similar obligations	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Financial liabilities (total)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Short-term financial liabilities	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Accounts payable	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other liabilities	0.8	0.5	1.3	0.5	0.5	0.5	0.5
Liabilities	1.5	1.1	2.8	4.7	4.7	4.7	4.7
Total liabilities and shareholders' equity	8.4	5.6	19.1	153.6	30.1	31.0	32.3

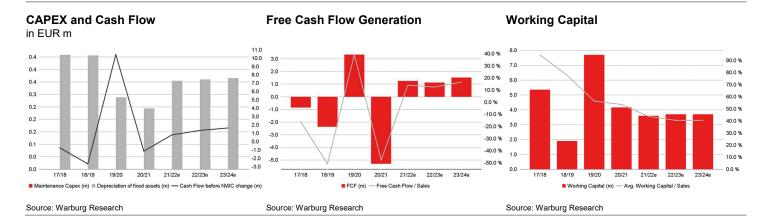
Financial Ratios							
	2017/18	2018/19	2019/20	2020/21	2021/22e	2022/23e	2023/24e
Efficiency of Capital Employment							
Operating Assets Turnover	0.9 x	2.1 x	1.1 x	2.4 x	2.4 x	2.5 x	2.8 x
Capital Employed Turnover	0.8 x	1.0 x	0.5 x	1.9 x	1.8 x	1.9 x	2.1 x
ROA	-47.8 %	-45.2 %	85.0 %	2240.7 %	7.4 %	17.3 %	23.8 %
Return on Capital							
ROCE (NOPAT)	n.a.	n.a.	19.1 %	n.a.	3.7 %	15.3 %	22.4 %
ROE	-15.5 %	-28.7 %	91.8 %	168.8 %	0.5 %	3.8 %	4.7 %
Adj. ROE	-15.5 %	-28.7 %	91.8 %	168.8 %	0.5 %	3.8 %	4.7 %
Balance sheet quality							
Net Debt	-0.3	0.0	0.0	-143.1	-20.5	-21.6	-23.1
Net Financial Debt	-0.3	0.0	0.0	-143.1	-20.5	-21.6	-23.1
Net Gearing	-3.8 %	-0.2 %	-0.1 %	-96.1 %	-80.9 %	-82.2 %	-83.9 %
Net Fin. Debt / EBITDA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Book Value / Share	2.9	1.9	7.0	63.7	10.8	11.3	11.8
Book value per share ex intangibles	2.6	1.7	6.8	63.6	10.7	11.1	11.7





Consolidated cash flow statement							
In EUR m	2017/18	2018/19	2019/20	2020/21	2021/22e	2022/23e	2023/24e
Net income	-1.0	-1.6	9.5	139.4	0.4	1.0	1.3
Depreciation of fixed assets	0.5	0.5	0.3	0.2	0.4	0.4	0.4
Amortisation of goodwill	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Amortisation of intangible assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Increase/decrease in long-term provisions	-0.2	0.2	0.6	0.0	0.0	0.0	0.0
Other non-cash income and expenses	-0.1	-1.7	0.0	-140.8	0.0	0.0	0.0
Cash Flow before NWC change	-0.8	-2.7	10.4	-1.1	0.8	1.3	1.6
Increase / decrease in inventory	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Increase / decrease in accounts receivable	0.2	0.4	-0.1	- 2.8	0.6	-0.1	0.0
Increase / decrease in accounts payable	0.0	0.4	0.0	0.0	0.0	0.0	0.0
Increase / decrease in other working capital positions	0.4	-0.1	-6.9	-1.2	0.0	0.0	0.0
Increase / decrease in working capital (total)	0.6	0.7	-6.9	-4.0	0.6	-0.1	0.0
Net cash provided by operating activities [1]	-0.1	-2.0	3.5	-5.2	1.4	1.2	1.6
Investments in intangible assets	-0.5	-0.3	0.0	0.0	0.0	0.0	0.0
Investments in property, plant and equipment	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Payments for acquisitions	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Financial investments	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Income from asset disposals	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net cash provided by investing activities [2]	-0.7	-0.4	-0.1	-0.1	-0.1	-0.1	-0.1
Change in financial liabilities	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dividends paid	-0.2	0.0	-2.1	0.0	-123.9	0.0	0.0
Purchase of own shares	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Capital measures	2.3	2.5	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]	2.1	2.5	-2.1	0.0	-123.9	0.0	0.0
Change in liquid funds [1]+[2]+[3]	1.3	0.1	1.4	-5.3	-122.6	1.1	1.5
Effects of exchange-rate changes on cash	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cash and cash equivalent at end of period	1.3	0.1	2.0	-5.3	-122.6	2.4	3.9

Financial Ratios							
	2017/18	2018/19	2019/20	2020/21	2021/22e	2022/23e	2023/24e
Cash Flow							
FCF	-0.9	-2.4	3.3	-5.3	1.3	1.1	1.5
Free Cash Flow / Sales	-16.2 %	-50.8 %	39.2 %	-47.8 %	14.1 %	12.5 %	16.6 %
Free Cash Flow Potential	-1.0	-2.2	1.7	-5.6	0.4	1.0	1.3
Free Cash Flow / Net Profit	87.8 %	146.3 %	35.0 %	-3.8 %	284.2 %	115.9 %	120.6 %
Interest Received / Avg. Cash	0.1 %	0.5 %	33.3 %	0.0 %	0.0 %	0.0 %	0.0 %
Interest Paid / Avg. Debt	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Management of Funds							
Investment ratio	13.7 %	8.6 %	1.2 %	1.0 %	1.2 %	1.2 %	1.2 %
Maint. Capex / Sales	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
Capex / Dep	274.0 %	111.6 %	36.8 %	43.4 %	29.8 %	29.4 %	29.0 %
Avg. Working Capital / Sales	94.6 %	77.8 %	56.5 %	53.5 %	43.7 %	40.5 %	40.5 %
Trade Debtors / Trade Creditors	34370.0 %	103903.5 %	22554.0 %	n.a.	n.a.	n.a.	n.a.
Inventory Turnover	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Receivables collection period (days)	373	149	332	137	148	150	148
Payables payment period (days)	n.a.	3	n.a.	n.a.	n.a.	n.a.	n.a.
Cash conversion cycle (Days)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.





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Company	Disclosure	Link to the historical price targets and rating changes (last 12 months)
sino	5	http://www.mmwarburg.com/disclaimer/disclaimer en/DE0005765507.htm



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

-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.		

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Rating	Number of stocks	% of Universe
Buy	161	76
Hold	43	20
Sell	6	3
Rating suspended	3	1
Total	213	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	44	86	
Hold	6	12	
Sell	0	0	
Rating suspended	1	2	
Total	51	100	

PRICE AND RATING HISTORY SINO AS OF 05.01.2023



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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