(CDAX, Financial Services, XTP GR)



Done		Value Indicators:	EUR	Warburg ESG Risk Score:	2.7	Description:	
Buy		DCF:	45.85	ESG Score (MSCI based):	3.0	Online broker specialized	on hoovy
4= 00				Balance Sheet Score:	5.0	traders	on neavy
EUR 45.80	(EUR 40.70)			Market Liquidity Score:	0.0		
		Market Snapshot:	EUR m	Shareholders:		Key Figures (WRe):	2022/23e
		Market cap:	77.1	Freefloat	64.10 %	Beta:	1.4
Price	EUR 33.00	No. of shares (m):	2.3	Ingo Hillen	11.00 %	Price / Book:	4.2 x
Upside	38.8 %	EV:	56.8	HSBC Trinkaus & Burkhardt	24.90 %	Equity Ratio:	87 %
		Freefloat MC:	49.4				
		Ø Trad. Vol. (30d):	48.03 th				

Further positive news from Trade Republic

Trade Republic founder Christian Hecker has recently given some interviews and provided more information on the KPIs of Trade Republic.

- As a reminder, the company published its annual report 2021/22 in Q4 2023, which revealed a significant net loss of EUR 145m.
- However, Hecker has mentioned that the company operated profitably on a monthly basis in 2023 and generated a net profit of a double-digit
 million for the fiscal year 2023.
- Furthermore, Hecker has announced that after five years of operation, the customer base has grown to more than 4 million. Assets under custody recently stood at EUR 35bn.
- In January, Trade Republic introduced a new debit card that includes a cashback function. Given an active savings plan of at least EUR 50 monthly, users will receive 1% cashback on card transactions on top of a savings plan (limited to EUR 15 per month and user). Considering the interchange fee of around 0.3-0.4% in Europe, the delta will presumably be paid by Trade Republic and should be seen as marketing expenses. However, the card appears to be meeting with good demand as the current queue exceeds 1m interested customers.
- Given the new information, we have updated our financial model for Trade Republic to assess a potential fair value for the remaining stake that is still held by sino AG (still 2.3% in Trade Republic Bank GmbH).
- The results of this and a peer group can be found on page 2.

Assessment: Even though the updated peer group valuation is still pointing to lower levels, the impressive customer growth and the quick turn to profitability indicates that Trade Republic is growing quickly into the valuation of its last financing round (which was at a valuation of EUR 5bn in 2022). However, in light of the good news, we reduce our discount to 20% (from 30%), reflecting a valuation of EUR 4bn, which then lifts the PT for sino to EUR 45.80.

continued on next page

Changes in I	Estimates:						Comment on Changes:
FY End: 30.9. in EUR m	2022/23e (old)	+/-	2023/24e (old)	+/-	2024/25e (old)	+/-	 Valuation discount for Trade Republic shares has been reduced
Sales	5.4	0.0 %	7.0	0.0 %	7.8	0.0 %	
Net income	-0.8	0.0 %	0.4	0.0 %	0.9	0.0 %	
EPS	-0.33	0.0 %	0.19	0.0 %	0.41	0.0 %	



Rel. Performance vs CDAX:	
1 month:	12.3 %
6 months:	10.1 %
Year to date:	12.3 %
Trailing 12 months:	11.8 %

Company events:	
28.03.24	FY 2022/23
07.05.24	AGM
28.06.24	Q2
30.08.24	Q3

FY End: 30.9.	CAGR							
in EUR m	(21/22-24/25e)	2018/19	2019/20	2020/21	2021/22	2022/23e	2023/24e	2024/25e
Sales	0.8 %	4.7	8.5	11.1	7.6	5.4	7.0	7.8
Change Sales yoy		-11.1 %	82.0 %	30.3 %	-31.2 %	-29.3 %	30.1 %	11.4 %
Gross profit margin		95.8 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %
EBITDA	74.8 %	-3.1	2.4	-2.0	0.3	-1.4	0.9	1.7
Margin		-66.6 %	28.4 %	-18.0 %	4.1 %	-25.7 %	12.1 %	21.4 %
EBIT	205.2 %	-3.5	2.1	-2.2	0.0	-1.8	0.3	1.0
Margin		-74.3 %	25.0 %	-20.2 %	0.5 %	-33.7 %	4.1 %	13.4 %
Net income	0.2 %	-1.6	9.5	139.4	0.9	-0.8	0.4	0.9
EPS	0.8 %	-0.69	4.07	59.65	0.40	-0.33	0.19	0.41
EPS adj.	0.8 %	-0.69	4.07	59.65	0.40	-0.33	0.19	0.41
DPS	-	0.64	2.92	0.00	53.00	0.00	0.00	0.00
Dividend Yield		15.0 %	33.7 %	n.a.	69.8 %	n.a.	n.a.	n.a.
FCFPS		-1.01	1.43	-2.27	2.26	-0.19	0.38	0.63
FCF / Market cap		-23.8 %	16.5 %	-4.1 %	3.0 %	-0.6 %	1.2 %	1.9 %
EV / Sales		2.1 x	2.4 x	n.a.	20.7 x	10.7 x	8.1 x	7.1 x
EV / EBITDA		n.a.	8.4 x	n.a.	503.6 x	n.a.	66.8 x	33.1 x
EV / EBIT		n.a.	9.5 x	n.a.	n.a.	n.a.	195.7 x	52.9 x
P/E		n.a.	2.1 x	0.9 x	189.8 x	n.a.	173.7 x	80.5 x
P / E adj.		n.a.	2.1 x	0.9 x	189.8 x	n.a.	173.7 x	80.5 x
FCF Potential Yield	i	-22.6 %	8.4 %	39.9 %	0.2 %	-1.8 %	1.1 %	2.2 %
Net Debt		0.0	0.0	-143.1	-20.0	-19.5	-20.4	-21.9
ROCE (NOPAT)		n.a.	19.1 %	n.a.	1.6 %	n.a.	n.a.	n.a.
Guidance:	Net income b	etween EUR	0.2m and 1.3	3m				

sino

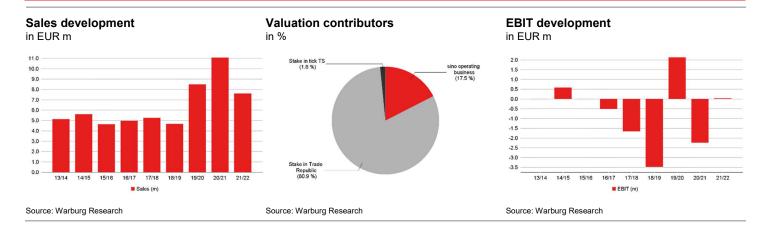


Financial model for Trad	e Republic					
FY End: 30.09.	CAGR					
in EUR m	23-25e	2021	2022	2023e	2024e	2025e
Average customers (m)	38%	0,8	1,7	3,1	4,6	5,8
Transactions per c. and year		39,8	28,3	20,0	18,0	16,0
Total transactions (m)	23%	32,2	46,7	61,3	82,8	92,8
Revenue per Trade (EUR)		2,9	2,9	3,0	3,1	3,2
Assets under Custody	66%	933	1.436	35.000	67.600	96.000
thereof cash	39%	187	287	17.500	30.420	33.600
Total Sales (incl. Interests)	31%	89,1	128,3	271,4	408,8	465,0
Transaction costs		19,3	32,7	36,8	45,5	46,4
Gross profit	34%	69,8	95,6	234,6	363,2	418,6
Gross margin		78%	75%	86%	89%	90%
Personnel costs	13%	24,7	50,9	61,3	70,5	78,6
Marketing costs	-24%	69,8	116,7	102,9	66,0	60,0
Other costs	18%	25,0	50,0	50,0	60,0	70,0
Operating costs	-1%	119,5	217,6	214,2	196,5	208,6
EBITDA	220%	<u>-49,7</u>	<u>-122,0</u>	<u>20,5</u>	<u>166,7</u>	209,9
margin		-56%	-95%	8%	41%	45%
Net profit	238%	<u>-35,2</u>	<u>-145,1</u>	<u>12,6</u>	<u>114,3</u>	143,4
margin		-39%	-113%	5%	28%	31%

- Trade Republic is continuing to pay 4% interest on cash deposits. This reflects the most attractive offering for cash overnight deposits and should attract further customers seeking high interest who might be converted to investment customers over time.
- However, we assume interest rates will decrease over the course of the next two years, which should attract fewer cash-only customers.
- The current trend of weak customer activity should affect Trade Republic as well and we do not expect this to change any time soon. Thus, transactions per customer and year should continue to decline slightly even as further customers are gained.
- 2022 was characterized by a significant marketing effort (also in mass media) and included one-off costs for the banking license.
- Even though a peer group comparison unveils some downside potential compared to the last financing round, Trade Republic is growing much faster than its competitors. Thus, a premium to peers should be justifiable.
- Whilst Trade Republic appears well financed for the time being, a potential IPO within the next years could constitute another valuation point and also a trigger for sino shares.

Peer-Group Trade Repu	blic										
Trade Republic	LW	Price in LC	·		23e	AC / Sales 24e	25e	Revenue in EUR / Customer 23e	MC in EUR / Customer 23e		
flatexDEGIRO AG	EUR	10,19	1.120.8	13.4 x	9,8 x	8,5 x	2,9 x	2,6 x	2,3 x	144.5	415,1 x
Robinhood Markets, Inc. Class A	USD	11,31	9.780,7	n.a.	141,4 x	211,2 x	5,3 x	4,8 x	4,8 x	72.6	385,1 x
Charles Schwab Corp	USD	63,94	113.330,4	20,4 x	19,2 x	14,3 x	6,0 x	5,7 x	5,0 x	548,6	3300,7 x
Coinbase Global, Inc. Class A	USD	132,82	31.776,5	n.a.	n.a.	n.a.	10,7 x	9,5 x	9,1 x	23,4	250,9 x
nteractive Brokers Group, Inc. Class	USD	90,35	9.668,8	15,7 x	14,3 x	14,6 x	2,2 x	2,1 x	2,0 x	1555,3	3465,0 x
Swissquote Group Holding Ltd.	CHF	218,40	3.263,2	14,8 x	12,5 x	11,4 x	6,1 x	5,5 x	4,7 x	894,8	5497,3 x
Avanza Bank Holding AB	SEK	207,70	32.658,1	16,6 x	16,9 x	16,8 x	9,5 x	9,2 x	9,0 x	159,2	1512,6 x
Nordnet AB	SEK	157,90	39.658,0	16,4 x	15,7 x	15,9 x	8,7 x	8,4 x	8,4 x	217,5	1895,7 x
verage				16,2 x	32,8 x	41,8 x	6,4 x	6,0 x	5,7 x	452,0	2090,3 x
Median				16,1 x	15,7 x	14,6 x	6,1 x	5,6 x	4,9 x	188,4	1704,2 x
Frade Republic	EUR		5.000,0	397,6 x	43,8 x	34,9 x	18,4 x	12,2 x	10,8 x	67,9	1250,0 x
/aluation difference to Median				-96%	-64%	-58%	-67%	-54%	-54%		36%
air value per share based on Media	n			202,25	1.793,91	2.100,58	1.650,11	2.291,50	2.281,70		6.816,65





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, Baader Bank 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	Γransition	al period					Term. Value
Figures in EUR m	22/23e	23/24e	24/25e	25/26e	26/27e	27/28e	28/29e	29/30e	30/31e	31/32e	32/33e	33/34e	34/35e	
Sales Sales change	5.4 -29.3 %	7.0 30.1 %	7.8 11.4 %	8.5 9.0 %	9.2 8.0 %	9.8 7.0 %	10.4 6.0 %	10.9 5.0 %	11.4 4.0 %	11.7 3.0 %	11.9 2.0 %	12.1 1.5 %	12.3 1.5 %	1.5 %
EBIT EBIT-margin	-1.8 -33.7 %	0.3 4.1 %	1.0 13.4 %	1.3 15.0 %	1.4 15.0 %	1.5 15.0 %	1.6 15.0 %	1.6 15.0 %	1.7 15.0 %	1.8 15.0 %	1.8 15.0 %	1.8 15.0 %	1.8 15.0 %	
Tax rate (EBT)	30.0 %	32.0 %	32.0 %	32.0 %	32.0 %	32.0 %	32.0 %	32.0 %	32.0 %	32.0 %	32.0 %	32.0 %	32.0 %	
NOPAT	-1.3	0.2	0.7	0.9	0.9	1.0	1.1	1.1	1.2	1.2	1.2	1.2	1.3	
Depreciation in % of Sales	0.4 8.0 %	0.6 8.0 %	0.6 8.0 %	0.3 4.0 %	0.3 3.0 %	0.2 2.0 %	0.1 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 - Capex Capex in % of Sales	0.0 0.1 2.0 %	0.0 0.1 1.5 %	0.0 0.1 1.4 %	0.0 0.1 1.5 %	0.0 0.1 1.5 %	0.0 0.1 1.5 %	0.0 0.1 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	0.7	1.2	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.3	1
PV of FCF	-1.0	0.6	1.0	0.8	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.4	4
share of PVs		6.01 %						52.5) %					41.49 %

Model parameter				Valuation (m)			
Derivation of WACC:		Derivation of Beta:		Present values 2034/35e	6		
				Terminal Value	4		
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	96		
				Liquidity	1	No. of shares (m)	2.3
WACC	10.34 %	Beta	1.38	Equity Value	107	Value per share (EUR)	45.85

Sens	itivity Va	ue per Sh	are (EUR)													
		Terminal (Growth								Delta EBIT	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 %	45.22	45.25	45.29	45.33	45.37	45.41	45.45	1.56	11.3 %	44.88	45.03	45.18	45.33	45.47	45.62	45.77
1.47	10.8 %	45.45	45.49	45.53	45.57	45.62	45.67	45.72	1.47	10.8 %	45.10	45.26	45.42	45.57	45.73	45.89	46.04
1.43	10.6 %	45.57	45.61	45.66	45.71	45.76	45.81	45.87	1.43	10.6 %	45.22	45.38	45.54	45.71	45.87	46.03	46.19
1.38	10.3 %	45.70	45.74	45.79	45.85	45.90	45.96	46.02	1.38	10.3 %	45.35	45.51	45.68	45.85	46.01	46.18	46.34
1.33	10.1 %	45.83	45.88	45.94	45.99	46.06	46.12	46.19	1.33	10.1 %	45.48	45.65	45.82	45.99	46.17	46.34	46.51
1.29	9.8 %	45.98	46.03	46.09	46.15	46.22	46.29	46.36	1.29	9.8 %	45.63	45.80	45.98	46.15	46.33	46.50	46.68
1.20	9.3 %	46.29	46.36	46.43	46.50	46.58	46.66	46.75	1.20	9.3 %	45.94	46.13	46.31	46.50	46.69	46.87	47.06

- We expect only marginal customer gains in the short run and assume a rather flattish development thereafter
- 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 a discount of 20% to the last financing round

sino



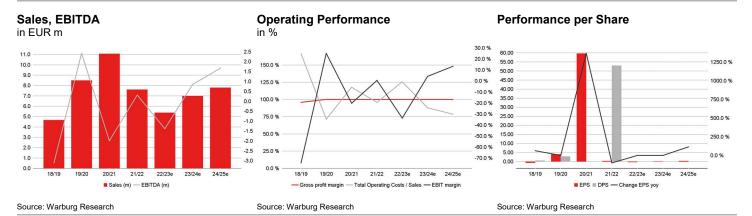
Valuation							
	2018/19	2019/20	2020/21	2021/22	2022/23e	2023/24e	2024/25e
Price / Book	2.2 x	1.2 x	0.9 x	9.4 x	4.2 x	4.2 x	4.0 x
Book value per share ex intangibles	1.72	6.83	63.57	7.83	7.50	7.60	8.00
EV / Sales	2.1 x	2.4 x	n.a.	20.7 x	10.7 x	8.1 x	7.1 x
EV / EBITDA	n.a.	8.4 x	n.a.	503.6 x	n.a.	66.8 x	33.1 x
EV / EBIT	n.a.	9.5 x	n.a.	n.a.	n.a.	195.7 x	52.9 x
EV / EBIT adj.*	n.a.	9.5 x	n.a.	n.a.	n.a.	195.7 x	52.9 x
P/FCF	n.a.	6.1 x	n.a.	33.6 x	n.a.	86.7 x	52.6 x
P/E	n.a.	2.1 x	0.9 x	189.8 x	n.a.	173.7 x	80.5 x
P / E adj.*	n.a.	2.1 x	0.9 x	189.8 x	n.a.	173.7 x	80.5 x
Dividend Yield	15.0 %	33.7 %	n.a.	69.8 %	n.a.	n.a.	n.a.
FCF Potential Yield (on market EV)	-22.6 %	8.4 %	39.9 %	0.2 %	-1.8 %	1.1 %	2.2 %
*Adjustments made for: -							



Consolidated profit & loss							
In EUR m	2018/19	2019/20	2020/21	2021/22	2022/23e	2023/24e	2024/25e
Sales	4.7	8.5	11.1	7.6	5.4	7.0	7.8
Change Sales yoy	-11.1 %	82.0 %	30.3 %	-31.2 %	-29.3 %	30.1 %	11.4 %
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	4.7	8.5	11.1	7.6	5.4	7.0	7.8
Material expenses	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Gross profit	4.5	8.5	11.1	7.6	5.4	7.0	7.8
Gross profit margin	95.8 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %	100.0 %
Personnel expenses	2.9	2.7	3.4	2.8	3.0	3.2	3.1
Other operating income	0.5	0.3	0.5	0.5	0.5	0.5	0.5
Other operating expenses	5.1	3.7	10.2	5.0	4.3	3.5	3.5
Unfrequent items	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBITDA	-3.1	2.4	-2.0	0.3	-1.4	0.9	1.7
Margin	-66.6 %	28.4 %	-18.0 %	4.1 %	-25.7 %	12.1 %	21.4 %
Depreciation of fixed assets	0.4	0.3	0.2	0.3	0.4	0.6	0.6
EBITA	-3.5	2.1	-2.2	0.0	-1.8	0.3	1.0
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	-3.5	2.1	-2.2	0.0	-1.8	0.3	1.0
Margin	-74.3 %	25.0 %	-20.2 %	0.5 %	-33.7 %	4.1 %	13.4 %
EBIT adj.	-3.5	2.1	-2.2	0.0	-1.8	0.3	1.0
Interest income	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Interest expenses	0.0	0.0	0.0	0.6	0.0	0.0	0.0
Other financial income (loss)	1.2	8.1	145.3	1.5	8.0	0.5	0.5
EBT	-2.5	10.2	143.0	0.9	-1.1	0.6	1.4
Margin	-53.1 %	120.5 %	1291.3 %	12.3 %	-20.3 %	9.1 %	17.9 %
Total taxes	-0.9	0.7	3.6	0.0	-0.3	0.2	0.4
Net income from continuing operations	-1.6	9.5	139.4	0.9	-0.8	0.4	0.9
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	-1.6	9.5	139.4	0.9	-0.8	0.4	0.9
Minority interest	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net income	-1.6	9.5	139.4	0.9	-0.8	0.4	0.9
Margin	-34.7 %	112.0 %	1258.9 %	12.4 %	-14.2 %	6.2 %	12.2 %
Number of shares, average	2.3	2.3	2.3	2.3	2.3	2.3	2.3
EPS	-0.69	4.07	59.65	0.40	-0.33	0.19	0.41
EPS adj.	-0.69	4.07	59.65	0.40	-0.33	0.19	0.41
*Adjustments made for:							

Guidance: Net income between EUR 0.2m and 1.3m

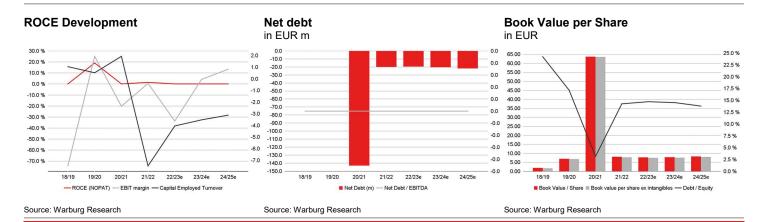
Financial Ratios							
	2018/19	2019/20	2020/21	2021/22	2022/23e	2023/24e	2024/25e
Total Operating Costs / Sales	166.6 %	71.6 %	118.0 %	95.9 %	125.7 %	87.9 %	78.6 %
Operating Leverage	-9.8 x	n.a.	n.a.	n.a.	n.a.	n.a.	22.8 x
EBITDA / Interest expenses	n.m.	490.4 x	n.m.	0.6 x	n.a.	n.a.	n.a.
Tax rate (EBT)	34.7 %	7.1 %	2.5 %	-0.5 %	30.0 %	32.0 %	32.0 %
Dividend Payout Ratio	n.m.	71.7 %	0.0 %	13136.7 %	0.0 %	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	2018/19	2019/20	2020/21	2021/22	2022/23e	2023/24e	2024/256
Assets							
Goodwill and other intangible assets	0.5	0.3	0.3	0.6	0.6	0.6	0.6
thereof other intangible assets	0.5	0.3	0.3	0.6	0.6	0.6	0.6
thereof Goodwill	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Property, plant and equipment	0.3	0.2	0.4	0.4	0.0	-0.4	-0.9
Financial assets	2.5	9.4	5.6	0.5	0.4	0.4	0.3
Other long-term assets	0.3	1.3	0.0	0.0	0.0	0.0	0.0
Fixed assets	3.6	11.2	6.2	1.5	1.1	0.6	0.1
Inventories	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Accounts receivable	1.9	7.7	4.2	0.0	0.0	0.0	0.0
Liquid assets	0.0	0.0	143.1	20.0	19.5	20.4	21.9
Other short-term assets	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Current assets	2.0	7.9	147.4	20.1	19.6	20.5	22.0
Total Assets	5.6	19.1	153.6	21.6	20.8	21.1	22.0
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	1.4	1.4	1.4	0.6	1.0	2.0
Other equity components	1.9	12.5	145.1	15.2	15.2	15.0	15.0
Shareholders' equity	4.5	16.3	148.9	18.9	18.2	18.4	19.4
Minority interest	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total equity	4.5	16.3	148.9	18.9	18.2	18.4	19.4
Provisions	0.6	1.5	4.3	1.8	1.8	1.8	1.8
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	0.5	1.3	0.5	8.0	8.0	0.8	0.8
Liabilities	1.1	2.8	4.7	2.7	2.7	2.7	2.7
Total liabilities and shareholders' equity	5.6	19.1	153.6	21.6	20.8	21.1	22.0

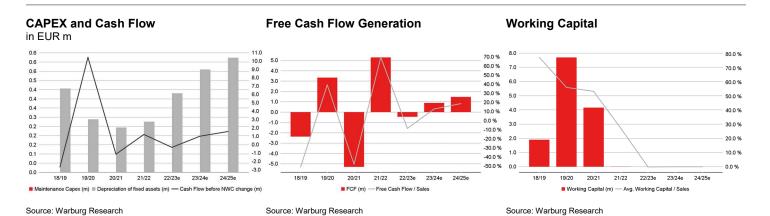
Financial Ratios							
	2018/19	2019/20	2020/21	2021/22	2022/23e	2023/24e	2024/25e
Efficiency of Capital Employment							
Operating Assets Turnover	2.1 x	1.1 x	2.4 x	21.2 x	112.7 x	-17.2 x	-8.4 x
Capital Employed Turnover	1.0 x	0.5 x	1.9 x	-7.5 x	-4.0 x	-3.5 x	-3.1 x
ROA	-45.2 %	85.0 %	2240.7 %	62.5 %	-67.5 %	69.2 %	1556.0 %
Return on Capital							
ROCE (NOPAT)	n.a.	19.1 %	n.a.	1.6 %	n.a.	n.a.	n.a.
ROE	<i>-</i> 28.7 %	91.8 %	168.8 %	1.1 %	-4.1 %	2.4 %	5.0 %
Adj. ROE	- 28.7 %	91.8 %	168.8 %	1.1 %	-4.1 %	2.4 %	5.0 %
Balance sheet quality							
Net Debt	0.0	0.0	-143.1	-20.0	-19.5	-20.4	-21.9
Net Financial Debt	0.0	0.0	-143.1	-20.0	-19.5	-20.4	-21.9
Net Gearing	-0.2 %	-0.1 %	-96.1 %	-105.4 %	-107.3 %	-110.8 %	-112.9 %
Net Fin. Debt / EBITDA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Book Value / Share	1.9	7.0	63.7	8.1	7.8	7.9	8.3
Book value per share ex intangibles	1.7	6.8	63.6	7.8	7.5	7.6	8.0





Consolidated cash flow statement							
In EUR m	2018/19	2019/20	2020/21	2021/22	2022/23e	2023/24e	2024/25e
Net income	-1.6	9.5	139.4	0.9	-0.8	0.4	0.9
Depreciation of fixed assets	0.5	0.3	0.2	0.3	0.4	0.6	0.6
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	0.6	0.0	0.0	0.0	0.0	0.0
Other non-cash income and expenses	-1.7	0.0	-140.8	0.0	0.0	0.0	0.0
Cash Flow before NWC change	-2.7	10.4	-1.1	1.2	-0.3	1.0	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	0.4	-0.1	-2.8	4.1	0.0	0.0	0.0
Increase / decrease in accounts payable	0.4	0.0	0.0	0.0	0.0	0.0	0.0
Increase / decrease in other working capital positions	-0.1	-6.9	-1.2	0.0	0.0	0.0	0.0
Increase / decrease in working capital (total)	0.7	-6.9	-4.0	4.2	0.0	0.0	0.0
Net cash provided by operating activities [1]	-2.0	3.5	-5.2	5.4	-0.3	1.0	1.6
Investments in intangible assets	-0.3	0.0	0.0	0.0	0.0	0.0	0.0
Investments in property, plant and equipment	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1
Payments for acquisitions	0.0	0.1	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net cash provided by investing activities [2]	-0.4	-0.1	-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	0.0	-2.1	0.0	-123.9	0.0	0.0	0.0
Purchase of own shares	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Capital measures	2.5	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]	2.5	-2.1	0.0	-123.9	0.0	0.0	0.0
Change in liquid funds [1]+[2]+[3]	0.1	1.4	-5.3	-118.6	-0.5	0.9	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	0.1	2.0	-5.3	-118.6	-0.4	0.4	1.9

Financial Ratios							
	2018/19	2019/20	2020/21	2021/22	2022/23e	2023/24e	2024/25e
Cash Flow							
FCF	-2.4	3.3	-5.3	5.3	-0.5	0.9	1.5
Free Cash Flow / Sales	-50.8 %	39.2 %	-47.8 %	69.4 %	-8.4 %	12.7 %	18.8 %
Free Cash Flow Potential	-2.2	1.7	-5.6	0.3	-1.1	0.6	1.2
Free Cash Flow / Net Profit	146.3 %	35.0 %	-3.8 %	560.7 %	59.3 %	204.3 %	154.6 %
Interest Received / Avg. Cash	0.5 %	33.3 %	0.0 %	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	8.6 %	1.2 %	1.0 %	1.4 %	2.0 %	1.5 %	1.4 %
Maint. Capex / Sales	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
Capex / Dep	111.6 %	36.8 %	43.4 %	38.4 %	24.6 %	18.9 %	17.0 %
Avg. Working Capital / Sales	77.8 %	56.5 %	53.5 %	27.2 %	-0.1 %	0.0 %	0.0 %
Trade Debtors / Trade Creditors	103903.5 %	22554.0 %	n.a.	61.2 %	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)	149	332	137	1	0	0	0
Payables payment period (days)	3	n.a.	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.





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. The views expressed in this research report accurately reflect the research analyst's personal views about the subject securities and issuers. Unless otherwise specified in the research report, no part of the research analyst's compensation was, is, or will be directly or indirectly related to the specific recommendations or views contained in the research report. All rights reserved.

COPYRIGHT NOTICE

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

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

The valuation underlying the investment recommendation for the company analysed here is based on generally accepted and widely used methods of fundamental analysis, such as e.g. DCF Model, Free Cash Flow Value Potential, NAV, Peer Group Comparison or Sum of the Parts Model (see also http://www.mmwarburg.de/disclaimer/disclaimer.htm#Valuation). The result of this fundamental valuation is modified to take into consideration the analyst's assessment as regards the expected development of investor sentiment and its impact on the share price.

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

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

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

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

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

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

SOURCES

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

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



Additional information for clients in the United States

- 1. This research report (the "Report") is a product of Warburg Research GmbH, Germany, a fully owned subsidiary of M.M.Warburg & CO (AG & Co.) KGaA, Germany (in the following collectively "Warburg"). Warburg is the employer of the research analyst(s), who have prepared the Report. The research analyst(s) reside outside the United States and are not associated persons of any U.S. regulated broker-dealer and therefore are not subject to the supervision of any U.S. regulated broker-dealer.
- 2. The Report is provided in the United States for distribution solely to "major U.S. institutional investors" under Rule 15a-6 of the U.S. Securities Exchange Act of 1934 by CIC.
- 3. CIC (Crédit Industriel et Commercial) and M.M. Warburg & CO have concluded a Research Distribution Agreement that gives CIC Market Solutions exclusive distribution in France, the US and Canada of the Warburg Research GmbH research product.
- 4. The research reports are distributed in the United States of America by CIC ("CIC") pursuant to a SEC Rule 15a-6 agreement with CIC Market Solutions Inc ("CICI"), a U.S. registered broker-dealer and a related company of CIC, and are distributed solely to persons who qualify as "Major U.S. Institutional Investors" as defined in SEC Rule 15a-6 under the Securities Exchange Act of 1934.
- 5. Any person who is not a Major U.S. Institutional Investor must not rely on this communication. The delivery of this research report to any person in the United States of America is not a recommendation to effect any transactions in the securities discussed herein, or an endorsement of any opinion expressed herein.

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

- -1- Warburg Research, or an affiliated company, or an employee of one of these companies responsible for the compilation of the research, hold a **share of more than 5**% of the equity capital of the analysed company.
- -2- Warburg Research, or an affiliated company, within the last twelve months participated in the **management of a consortium** for an issue in the course of a public offering of such financial instruments, which are, or the issuer of which is, the subject of the investment recommendation.
- -3- Companies affiliated with Warburg Research **manage financial instruments**, which are, or the issuers of which are, subject of the investment recommendation, in a market based on the provision of buy or sell contracts.
- MMWB, Warburg Research, or an affiliated company, reached an agreement with the issuer to provide **investment banking and/or**investment services and the relevant agreement was in force in the last 12 months or there arose for this period, based on the relevant 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.
- -5- The company compiling the analysis or an affiliated company had reached an **agreement on the compilation of the investment recommendation** with the analysed company.
- -6a- Warburg Research, or an affiliated company, holds a **net long position of more than 0.5%** of the total issued share capital of the analysed company.
- -6b- Warburg Research, or an affiliated company, holds a **net short position of more than 0.5%** of the total issued share capital of the analysed company.
- -6c- The issuer holds shares of more than 5% of the total issued capital of Warburg Research or an affiliated company.
- -7- The company preparing the analysis as well as its affiliated companies and employees have **other important interests** in relation to the analysed company, such as, for example, the exercising of mandates at analysed companies.

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

<u>"_"</u>	Rating suspended:	The available information currently does not permit an evaluation of the company.
-S-	Sell:	The price of the analysed financial instrument is expected to fall 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.
-B-	Buy:	The price of the analysed financial instrument is expected to rise over the next 12 months.

Rating	Number of stocks	% of Universe
Buy	150	71
Hold	47	22
Sell	7	3
Rating suspended	7	3
Total	211	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	46	82
Hold	7	13
Sell	0	0
Rating suspended	3	5
Total	56	100

PRICE AND RATING HISTORY SINO AS OF 01.02.2024



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 Martine Books	. 40 40 0000 0070		
Matthias Rode Head of Equities	+49 40 3282-2678 mrode@mmwarburg.com		
RESEARCH			
Michael Heider Head of Research	+49 40 309537-280 mheider@warburg-research.com	Hannes Müller Software, IT	+49 40 309537-255 hmueller@warburg-research.com
Henner Rüschmeier	+49 40 309537-270	Andreas Pläsier	+49 40 309537-246
Head of Research Stefan Augustin	hrueschmeier@warburg-research.com +49 40 309537-168	Banks, Financial Services Malte Schaumann	aplaesier@warburg-research.com +49 40 309537-170
Cap. Goods, Engineering	saugustin@warburg-research.com	Technology	mschaumann@warburg-research.com
Jan Bauer	+49 40 309537-155	Oliver Schwarz	+49 40 309537-250
Renewables Christian Cohrs	jbauer@warburg-research.com +49 40 309537-175	Chemicals, Agriculture Simon Stippig	oschwarz@warburg-research.com +49 40 309537-265
Industrials & Transportation	ccohrs@warburg-research.com	Real Estate, Telco	sstippig@warburg-research.com
Dr. Christian Ehmann	+49 40 309537-167	Marc-René Tonn	+49 40 309537-259
BioTech, Life Science	cehmann@warburg-research.com	Automobiles, Car Suppliers	mtonn@warburg-research.com +49 40 309537-290
Felix Ellmann Software, IT	+49 40 309537-120 fellmann@warburg-research.com	Robert-Jan van der Horst Technology	rvanderhorst@warburg-research.com
Jörg Philipp Frey	+49 40 309537-258	Andreas Wolf	+49 40 309537-140
Retail, Consumer Goods	jfrey@warburg-research.com	Software, IT	awolf@warburg-research.com
Marius Fuhrberg Financial Services	+49 40 309537-185 mfuhrberg@warburg-research.com		
Fabio Hölscher	+49 40 309537-240		
Automobiles, Car Suppliers	fhoelscher@warburg-research.com		
Philipp Kaiser Real Estate, Construction	+49 40 309537-260 pkaiser@warburg-research.com		
Thilo Kleibauer	+49 40 309537-257		
Retail, Consumer Goods	tkleibauer@warburg-research.com		
INSTITUTIONAL EQU			
Marc Niemann Head of Equity Sales, Germany	+49 40 3282-2660 mniemann@mmwarburg.com	Rudolf Alexander Michaelis Germany	+49 40 3282-2649 rmichaelis@mmwarburg.com
Tim Beckmann	+49 40 3282-2665	Roman Alexander Niklas	+49 69 5050-7412
United Kingdom	tbeckmann@mmwarburg.com	Switzerland	rniklas@mmwarburg.com
Lea Bogdanova United Kingdom, Ireland	+49 69 5050-7411 lbogdanova@mmwarburg.com		
Jens Buchmüller	+49 69 5050-7415	Antonia Möller	+49 69 5050-7417
Scandinavia, Austria	jbuchmueller@mmwarburg.com	Roadshow/Marketing	amoeller@mmwarburg.com
Matthias Fritsch	+49 40 3282-2696	Charlotte Wernicke	+49 40 3282-2669
United Kingdom Maximilian Martin	mfritsch@mmwarburg.com +49 69 5050-7413	Roadshow/Marketing Juliane Niemann	cwernicke@mmwarburg.com +49 40 3282-2694
Austria, Poland	mmartin@mmwarburg.com	Roadshow/Marketing	jniemann@mmwarburg.com
SALES TRADING		DESIGNATED SPONSOR	ING
Oliver Merckel	+49 40 3282-2634	Marcel Magiera	+49 40 3282-2662
Head of Sales Trading	omerckel@mmwarburg.com	Designated Sponsoring	mmagiera@mmwarburg.com
Rico Müller Sales Trading	+49 40 3282-2685 rmueller@mmwarburg.com	Sebastian Schulz Designated Sponsoring	+49 40 3282-2631 sschulz@mmwarburg.com
Bastian Quast	+49 40 3282-2701	Jörg Treptow	+49 40 3282-2658
Sales Trading	bquast@mmwarburg.com	Designated Sponsoring	jtreptow@mmwarburg.com
MACRO RESEARCH			
Carsten Klude Macro Research	+49 40 3282-2572 cklude@mmwarburg.com	Dr. Christian Jasperneite Investment Strategy	+49 40 3282-2439 cjasperneite@mmwarburg.com
Our research can be	found under:		
Warburg Research	research.mmwarburg.com/en/index.html	LSEG	www.lseg.com
Bloomberg	RESP MMWA GO	Capital IQ	www.capitaliq.com
FactSet	www.factset.com		
For access please conta	act:		
Andrea Schaper	+49 40 3282-2632	Kerstin Muthig	+49 40 3282-2703
Sales Assistance	aschaper@mmwarburg.com	Sales Assistance	kmuthig@mmwarburg.com