(Scale All Share (Ref.), Health Care, APPH GR)



Buy EUR 20.00	(EUR 18.00)	Value Indicators: DCF:		Warburg ESG Risk Score: ESG Score (MSCI based): Balance Sheet Score: Market Liquidity Score:	2.8 3.0 5.0 0.5	Description: Speciality Pharma company healthcare service provider w strong sales force	
		Market Snapshot:	EUR m	Shareholders:		Key Figures (WRe):	2024e
		Market cap:	67.2	Freefloat	63.00 %	Beta:	1.5
Price	EUR 7.90	No. of shares (m):	8.5	Paragon Partners	37.00 %	Price / Book:	2.1 x
Upside	153.2 %	EV:	58.2			Equity Ratio:	65 %
		Freefloat MC:	42.3				
		Ø Trad. Vol. (30d):	78.21 th				

## New Novartis partnership demonstrates effectiveness of sales force

- Apontis, as we speculated in our last update, has announced a new comarketing partnership with Novartis to market asthma drugs Enerzair® and Atectura® in Germany. The company will take over the distribution and marketing of the two medications using its newly restructured specialized sales force and will leverage the existing relationships with pneumologists from the discontinued comarketing activities in the COPD space.
- This new partnership validates a good portion of Apontis' new go-to-market approach and should strengthen investor confidence in the ability of the new sales force to continue to clinch comarketing upside in the future.
- Apontis expects the new partnership to contribute some EUR 9m in sales and EUR 1.5m in EBITDA in 2024. Assuming first sales were conducted in April, the annualized contribution amounts to EUR 12m in sales and EUR 2m EBITDA. We have incorporated those expectations in our model and, for now, expect that the partnership will be terminated after the announced runtime of five years in April 2029 but will retain a prolongation option. This leads to a step-up in our sales forecasts for the period 2025 to 2029. We expect the partnership to contribute an average gross margin of 30% over the course of the contract lifetime.
- Following the release of the FY 2023 report and the conference call, we have updated our assumptions for 2025 and beyond based on novel information. In light of updated development timelines and go-to-market strategies, we are now expecting Single Pill sales of EUR 43m (+19% yoy) in 2025 (down from EUR 49.7m). These revenues are expected to be generated from 18 Single Pill products, which is a reduction from our previous assumption of 20 and reflects the new, more focused marketing approach of Apontis going forward.
- We have adjusted our capex assumptions for 2024 (down to EUR 3.8m from 7.6m) and 2025 (up to EUR 7.5m from 3.1m).
- Apontis has clearly shown an impressive turnaround in a short timeframe and the new partnership with Novartis represents a significant derisking event for the stock. The company is moving in the right direction and there might be additional upside from unexpected prolongations of other comarketing agreements. We roll our model forward and, based on updated earnings and capex phasing, we raise our PT to EUR 20 per share and confirm our Buy rating.

Changes in E	stimates:					
FY End: 31.12. in EUR m	2024e (old)	+ / -	2025e (old)	+/-	2026e (old)	+/-
Sales	41.8	21.8 %	54.2	5.8 %	n.a.	n.m.
EBITDA adj.	1.8	102.0 %	11.0	-32.6 %	n.a.	n.m.
EBITDA	1.8	102.0 %	11.0	-32.6 %	n.a.	n.m.
EBIT	-1.0	n.m.	7.2	-37.6 %	n.a.	n.m.

#### Comment on Changes:

- Our estimates now include the upside from Apontis' new partnership with Novartis
- We have downgraded our Single Pill portfolio estimates based on company comments and information provided
- Despite higher sales, changes in product mix result in lower margins

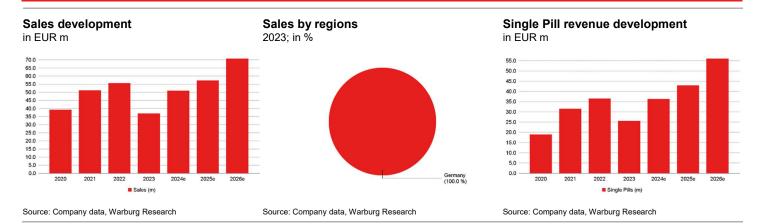


Rel. Performance vs Scale	All Share
1 month:	25.6 %
6 months:	98.8 %
Year to date:	67.7 %
Trailing 12 months:	-24.0 %

Company events:	
08.05.24	Q1
17.05.24	AGM
09.08.24	Q2
07.11.24	Q3

FY End: 31.12. in EUR m	CAGR (23-26e)	2020	2021	2022	2023	2024e	2025e	2026e
	* * * * * * * * * * * * * * * * * * * *							
Sales	24.2 %	39.2	51.2	55.7	37.0	51.0	57.4	70.8
Change Sales yoy		-2.0 %	30.5 %	8.8 %	-33.6 %	37.9 %	12.5 %	23.4 %
Gross profit margin		63.8 %	66.0 %	62.8 %	62.7 %	58.1 %	59.9 %	62.8 %
EBITDA	-	1.0	2.4	5.6	-13.2	3.6	7.4	14.6
Margin		2.7 %	4.7 %	10.0 %	-35.8 %	7.1 %	12.9 %	20.6 %
EBIT	-	-0.6	0.7	3.8	-15.1	1.7	4.5	9.2
Margin		-1.6 %	1.3 %	6.8 %	-40.9 %	3.4 %	7.8 %	13.0 %
Net income	-	-1.2	-0.7	2.7	-11.4	0.9	3.0	6.6
EPS	-	-1.20	-0.09	0.31	-1.34	0.11	0.35	0.78
EPS adj.	-	-1.20	-0.09	0.31	-1.34	0.11	0.35	0.78
DPS	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dividend Yield		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
FCFPS		0.80	0.21	0.91	-1.88	-1.18	-0.13	1.01
FCF / Market cap		n.a.	1.0 %	7.8 %	-26.1 %	-15.0 %	-1.6 %	12.8 %
EV / Sales		n.a.	2.9 x	1.2 x	1.2 x	1.1 x	1.0 x	0.7 x
EV / EBITDA		n.a.	62.4 x	11.6 x	n.a.	16.0 x	8.0 x	3.5 x
EV / EBIT		n.a.	225.5 x	17.1 x	n.a.	33.9 x	13.3 x	5.6 x
P/E		n.a.	n.a.	37.4 x	n.a.	71.8 x	22.6 x	10.1 x
P / E adj.		n.a.	n.a.	37.4 x	n.a.	71.8 x	22.6 x	10.1 x
FCF Potential Yield	l	n.a.	0.9 %	6.8 %	-22.5 %	5.8 %	10.9 %	24.2 %
Net Debt		8.2	-27.4	-33.7	-17.9	-9.0	-7.6	-15.6
ROCE (NOPAT)		n.a.	n.a.	23.5 %	n.a.	7.3 %	13.6 %	26.4 %
Guidance:	Sales EUR 50	.7m, EBITDA	EUR 3.3m					



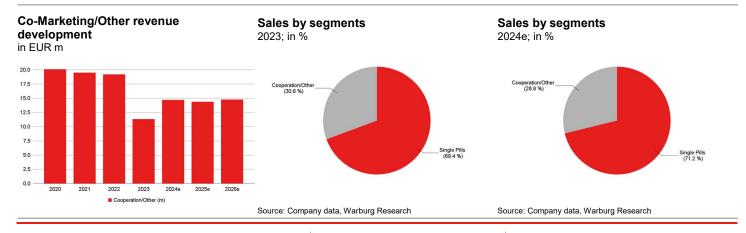


# **Company Background**

- APONTIS Pharma is a specialty pharma company offering services to healthcare providers. It became independent from the UCB Group in 2018, is headquartered in Monheim am Rhein, Germany, and had 175 employees in 2022.
- APONTIS is focused on developing and marketing "Single Pills" which are innovative combination products to treat cardiovascular diseases.
- The company has a highly motivated sales force (some 65 of 110 employees), that thoroughly engages with medical practitioners and offers them a wide variety of support.
- Co-Marketing: APONTIS engages in the joint marketing of medications from partners to expand its product portfolio thereby fully leveraging its sales force.

# **Competitive Quality**

- APONTIS has a first-mover advantage and is engaged in the growing Single-Pill market segment for cardiovascular diseases, mainly hypertension. In Germany alone this product category has est. revenues of EUR 3.3bn p.a.
- Single Pills represent an innovation in a market stifled by lack of novel therapies. With a potential for better health outcomes, these products will allow APONTIS to achieve premium prices and attractive market shares.
- APONTIS employs a well-connected, motivated and effective sales force (Top 5 in GER) which fosters strong relationships with doctors and cardiologists to bring their products into the field and improve patient health.
- The company has a lean business model focusing on the marketing and sales with a low R&D and production footprint. This will allow APONTIS to scale their business with highly attractive unit economics.





DCF model														
	Detaile	d forecas	t period				7	ransition	al period					Term. Value
Figures in EUR m	2024e	2025e	2026e	2027e	2028e	2029e	2030e	2031e	2032e	2033e	2034e	2035e	2036e	
Sales	51.0	57.4	70.8	87.5	103.2	115.6	127.2	138.6	149.7	158.7	165.0	168.3	171.7	
Sales change	37.9 %	12.5 %	23.4 %	23.5 %	18.0 %	12.0 %	10.0 %	9.0 %	8.0 %	6.0 %	4.0 %	2.0 %	2.0 %	2.0 %
EBIT	1.7	4.5	9.2	16.7	19.7	22.0	24.2	26.4	28.5	30.2	31.4	32.1	29.3	
EBIT-margin	3.4 %	7.8 %	13.0 %	19.0 %	19.0 %	19.0 %	19.0 %	19.0 %	19.0 %	19.0 %	19.0 %	19.0 %	17.0 %	
Tax rate (EBT)	24.0 %	24.0 %	24.0 %	24.0 %	24.0 %	24.0 %	24.0 %	24.0 %	24.0 %	24.0 %	24.0 %	24.0 %	24.0 %	
NOPAT	1.3	3.4	7.0	12.7	14.9	16.7	18.4	20.1	21.7	23.0	23.9	24.4	22.2	
Depreciation	1.9	3.0	5.4	5.1	6.0	6.8	7.4	8.1	8.8	9.3	6.6	5.0	5.2	
in % of Sales	3.8 %	5.1 %	7.6 %	5.8 %	5.8 %	5.8 %	5.8 %	5.8 %	5.8 %	5.8 %	4.0 %	3.0 %	3.0 %	
Changes in provisions	-0.4	0.3	0.6	0.8	0.8	0.6	0.6	0.6	0.5	0.4	0.3	0.2	0.2	
Change in Liquidity from														
- Working Capital	3.1	0.6	1.5	1.8	1.7	1.3	1.2	1.2	1.2	1.0	0.7	0.4	0.4	
- Capex	3.8	7.5	4.1	5.2	6.2	6.9	7.6	8.3	9.0	9.5	6.6	5.0	5.2	
Capex in % of Sales	7.4 %	13.0 %	5.8 %	6.0 %	6.0 %	6.0 %	6.0 %	6.0 %	6.0 %	6.0 %	4.0 %	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)	-4.1	-1.4	7.4	11.5	13.8	15.8	17.5	19.2	20.8	22.2	23.5	24.2	22.0	22
PV of FCF	-3.8	-1.2	5.7	7.9	8.6	8.8	8.8	8.7	8.5	8.2	7.8	7.2	5.9	67
share of PVs		0.42 %						54.20	6 %					45.32 %
Madel neversetor							Valuati							

Model parameter				Valuation (m)			
Derivation of WACC:		Derivation of Beta:		Present values 2036e	81		
				Terminal Value	67		
Debt ratio	0.00 %	Financial Strength	1.30	Financial liabilities	6		
Cost of debt (after tax)	4.6 %	Liquidity (share)	2.00	Pension liabilities	3		
Market return	8.25 %	Cyclicality	1.20	Hybrid capital	0		
Risk free rate	2.75 %	Transparency	1.50	Minority interest	0		
		Others	1.50	Market val. of investments	0		
				Liquidity	27	No. of shares (m)	8.5
WACC	11.00 %	Beta	1.50	Equity Value	166	Value per share (EUR)	19.55

	Terminal (	Growth								Delta EBIT	-margin					
ACC	1.25 %	1.50 %	1.75 %	2.00 %	2.25 %	2.50 %	2.75 %	Beta	WACC	-1.5 pp	-1.0 pp	-0.5 pp	+0.0 pp	+0.5 pp	+1.0 pp	+1.5 pp
2.0 %	16.91	17.05	17.19	17.35	17.51	17.68	17.86	1.68	12.0 %	15.85	16.35	16.85	17.35	17.85	18.35	18.85
1.5 %	17.87	18.04	18.21	18.39	18.58	18.78	19.00	1.59	11.5 %	16.80	17.33	17.86	18.39	18.92	19.45	19.98
1.3 %	18.39	18.57	18.76	18.95	19.16	19.38	19.61	1.55	11.3 %	17.32	17.86	18.41	18.95	19.50	20.05	20.59
1.0 %	18.94	19.14	19.34	19.55	19.78	20.02	20.27	1.50	11.0 %	17.86	18.42	18.99	19.55	20.11	20.68	21.24
0.8 %	19.52	19.73	19.95	20.18	20.43	20.69	20.97	1.45	10.8 %	18.44	19.02	19.60	20.18	20.77	21.35	21.93
0.5 %	20.14	20.36	20.60	20.85	21.12	21.41	21.71	1.41	10.5 %	19.05	19.65	20.25	20.85	21.46	22.06	22.66
0.0 %	21.47	21.74	22.02	22.32	22.65	22.99	23.36	1.32	10.0 %	20.39	21.03	21.68	22.32	22.97	23.61	24.26
2. 1. 1. ).	0 % 5 % 3 % 0 % 8 % 5 %	0 % 16.91 5 % 17.87 3 % 18.39 0 % 18.94 8 % 19.52 5 % 20.14	0 % 16.91 17.05 5 % 17.87 18.04 3 % 18.39 18.57 0 % 18.94 19.14 8 % 19.52 19.73 5 % 20.14 20.36	0 %     16.91     17.05     17.19       5 %     17.87     18.04     18.21       3 %     18.39     18.57     18.76       0 %     18.94     19.14     19.34       8 %     19.52     19.73     19.95       5 %     20.14     20.36     20.60	0 %     16.91     17.05     17.19     17.35       5 %     17.87     18.04     18.21     18.39       3 %     18.39     18.57     18.76     18.95       0 %     18.94     19.14     19.34     19.55       8 %     19.52     19.73     19.95     20.18       5 %     20.14     20.36     20.60     20.85	0 %     16.91     17.05     17.19     17.35     17.51       5 %     17.87     18.04     18.21     18.39     18.58       3 %     18.39     18.57     18.76     18.95     19.16       0 %     18.94     19.14     19.34     19.55     19.78       8 %     19.52     19.73     19.95     20.18     20.43       5 %     20.14     20.36     20.60     20.85     21.12	0 %     16.91     17.05     17.19     17.35     17.51     17.68       5 %     17.87     18.04     18.21     18.39     18.58     18.78       3 %     18.39     18.57     18.76     18.95     19.16     19.38       0 %     18.94     19.14     19.34     19.55     19.78     20.02       8 %     19.52     19.73     19.95     20.18     20.43     20.69       5 %     20.14     20.36     20.60     20.85     21.12     21.41	0 %         16.91         17.05         17.19         17.35         17.51         17.68         17.86           5 %         17.87         18.04         18.21         18.39         18.58         18.78         19.00           3 %         18.39         18.57         18.76         18.95         19.16         19.38         19.61           0 %         18.94         19.14         19.34         19.55         19.78         20.02         20.27           8 %         19.52         19.73         19.95         20.18         20.43         20.69         20.97           5 %         20.14         20.36         20.60         20.85         21.12         21.41         21.71	0 %       16.91       17.05       17.19       17.35       17.51       17.68       17.86       1.68         5 %       17.87       18.04       18.21       18.39       18.58       18.78       19.00       1.59         3 %       18.39       18.57       18.76       18.95       19.16       19.38       19.61       1.55         0 %       18.94       19.14       19.34       19.55       19.78       20.02       20.27       1.50         8 %       19.52       19.73       19.95       20.18       20.43       20.69       20.97       1.45         5 %       20.14       20.36       20.60       20.85       21.12       21.41       21.71       1.41	0 %       16.91       17.05       17.19       17.35       17.51       17.68       17.86       1.68       12.0 %         5 %       17.87       18.04       18.21       18.39       18.58       18.78       19.00       1.59       11.5 %         3 %       18.39       18.57       18.76       18.95       19.16       19.38       19.61       1.55       11.3 %         0 %       18.94       19.14       19.34       19.55       19.78       20.02       20.27       1.50       11.0 %         8 %       19.52       19.73       19.95       20.18       20.43       20.69       20.97       1.45       10.8 %         5 %       20.14       20.36       20.60       20.85       21.12       21.41       21.71       1.41       10.5 %	0 %       16.91       17.05       17.19       17.35       17.51       17.68       17.86       1.68       12.0 %       15.85         5 %       17.87       18.04       18.21       18.39       18.58       18.78       19.00       1.59       11.5 %       16.80         3 %       18.39       18.57       18.76       18.95       19.16       19.38       19.61       1.55       11.3 %       17.32         0 %       18.94       19.14       19.34       19.55       19.78       20.02       20.27       1.50       11.0 %       17.86         8 %       19.52       19.73       19.95       20.18       20.43       20.69       20.97       1.45       10.8 %       18.44         5 %       20.14       20.36       20.60       20.85       21.12       21.41       21.71       1.41       10.5 %       19.05	0 %       16.91       17.05       17.19       17.35       17.51       17.68       17.86       1.68       12.0 %       15.85       16.35         5 %       17.87       18.04       18.21       18.39       18.58       18.78       19.00       1.59       11.5 %       16.80       17.33         3 %       18.39       18.57       18.76       18.95       19.16       19.38       19.61       1.55       11.3 %       17.32       17.86         0 %       18.94       19.14       19.34       19.55       19.78       20.02       20.27       1.50       11.0 %       17.86       18.42         8 %       19.52       19.73       19.95       20.18       20.43       20.69       20.97       1.45       10.8 %       18.44       19.02         5 %       20.14       20.36       20.60       20.85       21.12       21.41       21.71       1.41       10.5 %       19.05       19.65	0 %       16.91       17.05       17.19       17.35       17.51       17.68       17.86       1.68       12.0 %       15.85       16.35       16.85         5 %       17.87       18.04       18.21       18.39       18.58       18.78       19.00       1.59       11.5 %       16.80       17.33       17.86         3 %       18.39       18.57       18.76       18.95       19.16       19.38       19.61       1.55       11.3 %       17.32       17.86       18.41         0 %       18.94       19.14       19.34       19.55       19.78       20.02       20.27       1.50       11.0 %       17.86       18.42       18.99         8 %       19.52       19.73       19.95       20.18       20.43       20.69       20.97       1.45       10.8 %       18.44       19.02       19.60         5 %       20.14       20.36       20.60       20.85       21.12       21.41       21.71       1.41       10.5 %       19.05       19.65       20.25	0 %       16.91       17.05       17.19       17.35       17.51       17.68       17.86       1.68       12.0 %       15.85       16.35       16.85       17.35         5 %       17.87       18.04       18.21       18.39       18.58       18.78       19.00       1.59       11.5 %       16.80       17.33       17.86       18.39         3 %       18.39       18.57       18.76       18.95       19.16       19.38       19.61       1.55       11.3 %       17.32       17.86       18.41       18.95         0 %       18.94       19.14       19.34       19.55       19.78       20.02       20.27       1.50       11.0 %       17.86       18.42       18.99       19.55         8 %       19.52       19.73       19.95       20.18       20.43       20.69       20.97       1.45       10.8 %       18.44       19.02       19.60       20.18         5 %       20.14       20.36       20.60       20.85       21.12       21.41       21.71       1.41       10.5 %       19.05       19.65       20.25       20.85	0 %         16.91         17.05         17.19         17.35         17.51         17.68         17.86         1.68         12.0 %         15.85         16.35         16.85         17.35         17.35         17.85           5 %         17.87         18.04         18.21         18.39         18.58         18.78         19.00         1.59         11.5 %         16.80         17.33         17.86         18.39         18.92           3 %         18.39         18.57         18.76         18.95         19.16         19.38         19.61         1.55         11.3 %         17.32         17.86         18.41         18.95         19.50           0 %         18.94         19.14         19.34         19.55         19.78         20.02         20.27         1.50         11.0 %         17.86         18.42         18.99         19.55         20.11           8 %         19.52         19.73         19.95         20.18         20.43         20.69         20.97         1.45         10.8 %         18.44         19.02         19.60         20.18         20.77           5 %         20.14         20.36         20.60         20.85         21.12         21.41         21.71         1.41 <td>0 %       16.91       17.05       17.19       17.35       17.51       17.68       17.86       17.86       17.86       17.85       18.85       18.35       18.45       18.35       19.45       19.45       19.45       19.45       18.45       18.35       19.55       19.55       19.50       20.05       19.50       20.05       19.55       20.11       20.68       1</td>	0 %       16.91       17.05       17.19       17.35       17.51       17.68       17.86       17.86       17.86       17.85       18.85       18.35       18.45       18.35       19.45       19.45       19.45       19.45       18.45       18.35       19.55       19.55       19.50       20.05       19.50       20.05       19.55       20.11       20.68       1



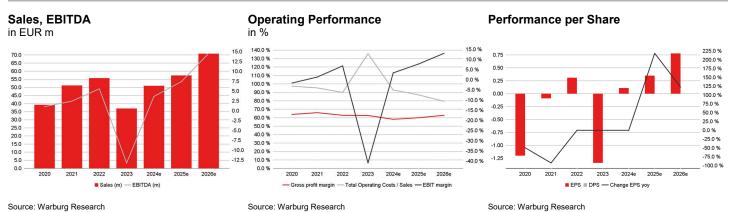
Valuation							
	2020	2021	2022	2023	2024e	2025e	2026e
Price / Book	n.a.	4.3 x	2.3 x	2.0 x	2.1 x	1.9 x	1.6 x
Book value per share ex intangibles	-11.29	3.16	3.05	1.56	1.46	1.29	2.23
EV / Sales	n.a.	2.9 x	1.2 x	1.2 x	1.1 x	1.0 x	0.7 x
EV / EBITDA	n.a.	62.4 x	11.6 x	n.a.	16.0 x	8.0 x	3.5 x
EV / EBIT	n.a.	225.5 x	17.1 x	n.a.	33.9 x	13.3 x	5.6 x
EV / EBIT adj.*	n.a.	225.5 x	17.1 x	n.a.	33.9 x	13.3 x	5.6 x
P / FCF	n.a.	100.0 x	12.8 x	n.a.	n.a.	n.a.	7.8 x
P/E	n.a.	n.a.	37.4 x	n.a.	71.8 x	22.6 x	10.1 x
P / E adj.*	n.a.	n.a.	37.4 x	n.a.	71.8 x	22.6 x	10.1 x
Dividend Yield	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
FCF Potential Yield (on market EV)	n.a.	0.9 %	6.8 %	-22.5 %	5.8 %	10.9 %	24.2 %
*Adjustments made for: -							



Consolidated profit & loss							
In EUR m	2020	2021	2022	2023	2024e	2025e	2026
Sales	39.2	51.2	55.7	37.0	51.0	57.4	70.8
Change Sales yoy	-2.0 %	30.5 %	8.8 %	-33.6 %	37.9 %	12.5 %	23.4 %
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	39.2	51.2	55.7	37.0	51.0	57.4	70.8
Material expenses	14.2	17.4	20.7	13.8	21.4	23.0	26.3
Gross profit	25.0	33.8	35.0	23.2	29.6	34.4	44.5
Gross profit margin	63.8 %	66.0 %	62.8 %	62.7 %	58.1 %	59.9 %	62.8 %
Personnel expenses	16.5	19.7	17.7	24.6	14.7	15.2	15.6
Other operating income	2.6	3.6	2.6	1.7	2.0	2.0	2.0
Other operating expenses	10.1	15.3	14.4	13.5	13.3	13.8	16.3
Unfrequent items	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBITDA	1.0	2.4	5.6	-13.2	3.6	7.4	14.6
Margin	2.7 %	4.7 %	10.0 %	-35.8 %	7.1 %	12.9 %	20.6 %
Depreciation of fixed assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBITA	1.0	2.4	5.6	-13.2	3.6	7.4	14.6
Amortisation of intangible assets	1.7	1.7	1.8	1.9	1.9	3.0	5.4
Goodwill amortisation	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBIT	-0.6	0.7	3.8	-15.1	1.7	4.5	9.2
Margin	-1.6 %	1.3 %	6.8 %	-40.9 %	3.4 %	7.8 %	13.0 %
EBIT adj.	-0.6	0.7	3.8	-15.1	1.7	4.5	9.2
Interest income	0.0	0.0	0.1	0.3	0.0	0.0	0.0
Interest expenses	0.9	0.4	0.0	0.1	0.5	0.5	0.5
Other financial income (loss)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EBT	-1.5	0.3	3.8	-14.8	1.2	4.0	8.7
Margin	-3.8 %	0.5 %	6.8 %	-40.2 %	2.4 %	6.9 %	12.3 %
Total taxes	-0.3	1.0	1.1	-3.5	0.3	1.0	2.1
Net income from continuing operations	-1.2	-0.7	2.7	-11.4	0.9	3.0	6.6
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	-1.2	-0.7	2.7	-11.4	0.9	3.0	6.6
Minority interest	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Net income	-1.2	-0.7	2.7	-11.4	0.9	3.0	6.6
Margin	-3.1 %	-1.4 %	4.8 %	-30.7 %	1.8 %	5.2 %	9.3 %
Number of shares, average	1.0	8.5	8.5	8.5	8.5	8.5	8.5
EPS	-1.20	-0.09	0.31	-1.34	0.11	0.35	0.78
EPS adj.	-1.20	-0.09	0.31	-1.34	0.11	0.35	0.78
*Adjustments made for:							

Guidance: Sales EUR 50.7m, EBITDA EUR 3.3m

Financial Ratios							
	2020	2021	2022	2023	2024e	2025e	2026e
Total Operating Costs / Sales	97.3 %	95.3 %	90.0 %	135.8 %	92.9 %	87.1 %	79.4 %
Operating Leverage	36.6 x	n.a.	53.1 x	n.a.	n.a.	12.7 x	4.5 x
EBITDA / Interest expenses	1.2 x	6.0 x	116.3 x	n.m.	7.2 x	14.7 x	29.1 x
Tax rate (EBT)	19.0 %	377.2 %	29.9 %	23.5 %	24.0 %	24.0 %	24.0 %
Dividend Payout Ratio	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
Sales per Employee	201,231	259,898	320,115	208,836	455,186	498,865	600,015

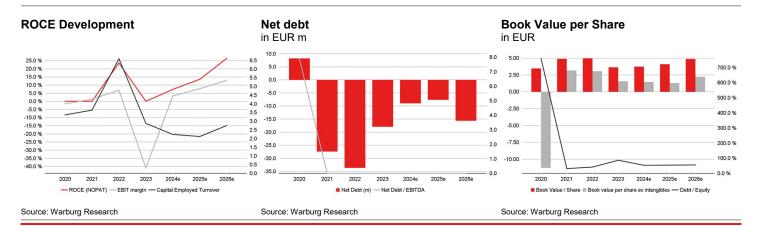


Source, Walburg Nesearch Source, Walb



Consolidated balance sheet							
In EUR m	2020	2021	2022	2023	2024e	2025e	2026e
Assets							
Goodwill and other intangible assets	14.8	14.7	16.1	17.5	19.3	23.8	22.4
thereof other intangible assets	5.4	3.9	5.5	3.7	2.9	3.4	2.9
thereof Goodwill	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Property, plant and equipment	0.0	0.1	0.0	0.0	0.1	0.2	0.3
Financial assets	0.7	0.8	0.8	8.0	8.0	8.0	0.8
Other long-term assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fixed assets	15.5	15.5	17.0	18.4	20.2	24.8	23.5
Inventories	2.9	4.6	3.2	6.6	11.3	12.7	15.7
Accounts receivable	1.2	2.9	2.4	0.8	1.2	1.3	1.6
Liquid assets	8.1	29.8	36.3	26.8	11.4	10.4	19.0
Other short-term assets	2.0	1.3	1.0	4.8	4.5	4.6	4.7
Current assets	14.2	38.6	42.9	39.1	28.4	29.0	41.0
Total Assets	29.7	54.2	59.8	57.5	48.7	53.7	64.5
Liabilities and shareholders' equity							
Subscribed capital	0.0	8.5	8.5	8.5	8.5	8.5	8.5
Capital reserve	6.8	36.3	34.6	34.6	34.6	34.6	34.6
Retained earnings	-3.3	-4.1	-1.4	-12.7	-11.8	-8.7	-2.2
Other equity components	0.0	8.0	0.4	0.4	0.4	0.4	0.4
Shareholders' equity	3.5	41.5	42.1	30.8	31.7	34.8	41.4
Minority interest	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total equity	3.5	41.5	42.1	30.8	31.7	34.8	41.4
Provisions	7.1	9.0	11.5	15.2	9.2	10.3	12.5
thereof provisions for pensions and similar obligations	2.3	2.4	2.7	2.9	2.5	2.8	3.4
Financial liabilities (total)	14.0	0.0	0.0	6.0	0.0	0.0	0.0
Short-term financial liabilities	0.0	0.0	0.0	6.0	0.0	0.0	0.0
Accounts payable	3.3	3.0	5.4	5.1	7.0	7.9	9.7
Other liabilities	1.9	0.7	0.8	0.3	0.7	0.8	0.9
Liabilities	26.3	12.7	17.7	26.6	16.9	19.0	23.2
Total liabilities and shareholders' equity	29.7	54.2	59.8	57.5	48.7	53.7	64.5

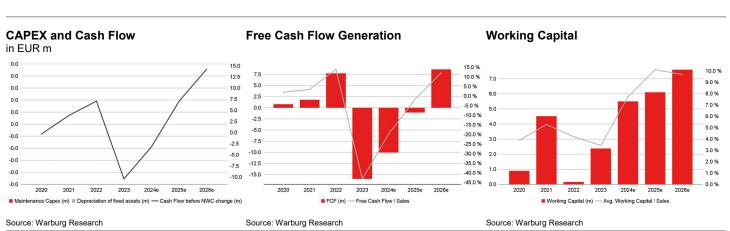
Financial Ratios							
	2020	2021	2022	2023	2024e	2025e	2026e
Efficiency of Capital Employment							
Operating Assets Turnover	42.1 x	11.2 x	277.7 x	15.4 x	9.1 x	9.1 x	9.0 x
Capital Employed Turnover	3.4 x	3.6 x	6.6 x	2.9 x	2.2 x	2.1 x	2.8 x
ROA	-7.7 %	-4.7 %	15.7 %	-61.8 %	4.6 %	12.2 %	28.1 %
Return on Capital							
ROCE (NOPAT)	n.a.	n.a.	23.5 %	n.a.	7.3 %	13.6 %	26.4 %
ROE	-29.6 %	-3.2 %	6.4 %	-31.1 %	3.0 %	9.0 %	17.3 %
Adj. ROE	-29.6 %	-3.2 %	6.4 %	-31.1 %	3.0 %	9.0 %	17.3 %
Balance sheet quality							
Net Debt	8.2	-27.4	-33.7	-17.9	-9.0	-7.6	-15.6
Net Financial Debt	6.0	-29.8	-36.3	-20.8	-11.4	-10.4	-19.0
Net Gearing	237.5 %	-66.0 %	-80.0 %	-58.2 %	-28.3 %	-21.9 %	-37.8 %
Net Fin. Debt / EBITDA	572.3 %	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Book Value / Share	3.5	4.9	5.0	3.6	3.7	4.1	4.9
Book value per share ex intangibles	-11.3	3.2	3.1	1.6	1.5	1.3	2.2





Consolidated cash flow statement							
In EUR m	2020	2021	2022	2023	2024e	2025e	2026
Net income	-1.2	-0.7	2.7	-11.4	0.9	3.0	6.6
Depreciation of fixed assets	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Amortisation of goodwill	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Amortisation of intangible assets	1.7	1.7	1.8	1.9	1.9	3.0	5.4
Increase/decrease in long-term provisions	-1.1	1.4	1.6	0.2	-0.4	0.3	0.6
Other non-cash income and expenses	0.3	1.4	1.0	-1.1	-5.6	0.7	1.6
Cash Flow before NWC change	-0.3	3.9	7.1	-10.4	-3.1	7.0	14.2
Increase / decrease in inventory	1.2	-3.3	2.1	-3.5	-4.7	-1.4	-3.0
Increase / decrease in accounts receivable	0.0	0.0	0.6	1.5	-0.4	-0.1	-0.3
Increase / decrease in accounts payable	0.6	-0.6	2.4	-0.3	1.9	0.9	1.8
Increase / decrease in other working capital positions	0.1	3.5	-1.1	0.0	0.0	0.0	0.0
Increase / decrease in working capital (total)	1.9	-0.4	3.9	-2.2	-3.1	-0.6	-1.5
Net cash provided by operating activities [1]	1.5	3.4	11.0	-12.6	-6.3	6.4	12.7
Investments in intangible assets	-0.7	-1.7	-3.2	-3.3	-3.7	-7.4	-4.0
Investments in property, plant and equipment	0.0	0.0	-0.1	-0.1	-0.1	-0.1	-0.1
Payments for acquisitions	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Financial investments	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Income from asset disposals	0.0	0.0	0.6	0.4	0.0	0.0	0.0
Net cash provided by investing activities [2]	-0.8	-1.8	-2.7	-2.9	-3.8	-7.5	-4.1
Change in financial liabilities	0.0	-12.3	0.0	6.0	-6.0	0.0	0.0
Dividends paid	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Purchase of own shares	0.0	0.0	-1.8	0.0	0.0	0.0	0.0
Capital measures	0.0	38.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	-5.6	0.1	-0.7	0.7	0.0	0.0
Net cash provided by financing activities [3]	0.0	20.1	-1.7	5.3	-5.3	0.0	0.0
Change in liquid funds [1]+[2]+[3]	0.7	21.8	6.6	-10.3	-15.4	-1.0	8.7
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	8.1	29.8	36.3	26.1	11.4	10.4	19.0

Financial Ratios							
	2020	2021	2022	2023	2024e	2025e	2026e
Cash Flow							
FCF	0.8	1.8	7.7	-16.0	-10.1	-1.1	8.6
Free Cash Flow / Sales	2.0 %	3.5 %	13.9 %	-43.2 %	-19.7 %	-1.9 %	12.2 %
Free Cash Flow Potential	1.3	1.4	4.4	-9.7	3.4	6.5	12.5
Free Cash Flow / Net Profit	-66.6 %	-244.3 %	290.2 %	140.6 %	-1089.4 %	-35.5 %	130.6 %
Interest Received / Avg. Cash	0.1 %	0.0 %	0.2 %	1.1 %	0.0 %	0.0 %	0.0 %
Interest Paid / Avg. Debt	6.4 %	5.8 %	n.a.	2.3 %	16.7 %	n.a.	n.a.
Management of Funds							
Investment ratio	1.9 %	3.3 %	5.9 %	9.0 %	7.4 %	13.0 %	5.8 %
Maint. Capex / Sales	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %
Capex / Dep	44.6 %	95.4 %	182.5 %	177.3 %	196.6 %	253.4 %	75.9 %
Avg. Working Capital / Sales	3.9 %	5.3 %	4.2 %	3.4 %	7.7 %	10.1 %	9.7 %
Trade Debtors / Trade Creditors	37.7 %	97.4 %	43.9 %	16.6 %	17.1 %	16.5 %	16.5 %
Inventory Turnover	4.9 x	3.8 x	6.6 x	2.1 x	1.9 x	1.8 x	1.7 x
Receivables collection period (days)	11	21	15	8	9	8	8
Payables payment period (days)	84	63	94	135	120	125	134
Cash conversion cycle (Days)	3	54	-23	49	82	84	91





#### **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.
- 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.
- -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)			
APONTIS PHARMA	5	https://www.mmwarburg.com/disclaimer/disclaimer en/DE000A3CMGM5.htm			

COMMENT Published 12.04.2024

9



#### 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	146	70
Hold	47	23
Sell	8	4
Rating suspended	7	3
Total	208	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 APONTIS PHARMA AS OF 12.04.2024



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			
Matthias Rode	+49 40 3282-2678		
Head of Equities	mrode@mmwarburg.com		
RESEARCH			
Michael Heider Head of Research	+49 40 309537-280 mheider@warburg-research.com	Thilo Kleibauer Retail, Consumer Goods	+49 40 309537-257 tkleibauer@warburg-research.com
Henner Rüschmeier Head of Research	+49 40 309537-270	Hannes Müller	+49 40 309537-255
Stefan Augustin	hrueschmeier@warburg-research.com +49 40 309537-168	Software, IT  Andreas Pläsier	hmueller@warburg-research.com +49 40 309537-246
Cap. Goods, Engineering	saugustin@warburg-research.com	Banks, Financial Services	aplaesier@warburg-research.com
Jan Bauer	+49 40 309537-155	Malte Schaumann	+49 40 309537-170
Renewables Sander Brockow	jbauer@warburg-research.com +49 40 309537-248	Technology	mschaumann@warburg-research.com +49 40 309537-250
Industrials	sbrockow@warburg-research.com	Oliver Schwarz Chemicals, Agriculture	oschwarz@warburg-research.com
Christian Cohrs Industrials & Transportation	+49 40 309537-175 ccohrs@warburg-research.com	Simon Stippig Real Estate, Telco	+49 40 309537-265 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
Felix Ellmann Software, IT	+49 40 309537-120 fellmann@warburg-research.com	Robert-Jan van der Horst Technology	+49 40 309537-290 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	+49 40 309537-260		
Real Estate, Construction	pkaiser@warburg-research.com		
INSTITUTIONAL EQU Marc Niemann	+49 40 3282-2660	Rudolf Alexander Michaelis	+49 40 3282-2649
Head of Equity Sales, Germany	mniemann@mmwarburg.com	Germany	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 Roadshow/Marketing	+49 40 3282-2669
United Kingdom  Maximilian Martin	mfritsch@mmwarburg.com +49 69 5050-7413	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	+49 40 3282-2685	Sebastian Schulz	+49 40 3282-2631
Sales Trading  Bastian Quast	rmueller@mmwarburg.com +49 40 3282-2701	Designated Sponsoring  Jörg Treptow	sschulz@mmwarburg.com +49 40 3282-2658
Sales Trading	bquast@mmwarburg.com	Designated Sponsoring	jtreptow@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		Leco	
Warburg Research	research.mmwarburg.com/en/index.html	LSEG Capital IO	www.lseg.com
Bloomberg FactSet	RESP MMWA GO www.factset.com	Capital IQ	www.capitaliq.com
For access please conta		Manadia Mindhi	40 40 2002 0702
Andrea Schaper Sales Assistance	+49 40 3282-2632 aschaper@mmwarburg.com	Kerstin Muthig Sales Assistance	+49 40 3282-2703 kmuthig@mmwarburg.com
	po.@a.za.g.oom		