

Valneva SE

France / Biotechnology Euronext Paris Bloomberg: VLA FP ISIN: FR0004056851

H1/24 results

RATING PRICE TARGET

BUY € 8.60

Return Potential 127.3% Risk Rating High

GROSS MARGIN REBOUNDING, FY/24 GUIDANCE MAINTAINED

H1 product sales at €68.3m (H1/24: €64.0m) were slightly below the consensus of €71.6m but the gross margin on sales of established products continued to improve to 47.7% (Q1/24: 43.7%; H1/23: 39.8%) and Valneva has maintained its full year guidance for product sales of €160m-€180m. We continue to believe that the market is undervaluing the opportunity represented by the company's main value driver, the Lyme vaccine candidate, VLA15, which, subject to regulatory approval, will be launched in 2027. We maintain our Buy recommendation at an unchanged price target of €8.60.

New Ixiaro DoD contract expected in Q4 Reported H1/24 product sales fell 2.0% to €68.3m (H1/23: €69.7m), but as figure 2 overleaf shows, excluding the discontinued COVID-19 vaccine, product sales climbed 6.7% to €68.3m (H1/23: €64.0m). Growth was driven by the Japanese encephalitis vaccine, Ixiaro, whose sales jumped 38.3% to €41.9m. Most of the growth stemmed from the US Department of Defense (DoD), to which sales were minimal in H1/23. However, sales to the traveller market also grew. Ixiaro sales were affected by supply constraints in H1/24 but these were resolved during Q2/24. We expect H2/24 sales to be above the H1/24 figure, supported by the signing of a new contract with the DoD in Q4.

FY/24 Dukoral sales expected to be up after H1 dip Sales of the cholera/ETEC diarrhea vaccine, Dukoral, fell 12.9% to €14.9m (H1/23: €17.1m) Travel vaccines are very promotion-sensitive. Valneva reduced advertising expenditure on major markets, such as Canada, while a new manufacturing site for the vaccine in Sweden underwent regulatory evaluation and approval. This process has now been completed and management expects FY/24 sales to exceed the FY/23 figure of €29.8m.

(p.t.o.)

FINANCIAL HISTORY & PROJECTIONS

	2022	2023	2024E	2025E	2026E	2027E
	2022	2023	2024L	2023E	2020L	2021L
Revenue (€m)	361.3	153.7	174.6	213.9	282.5	473.2
Y-o-y growth	3.8%	-57.5%	13.6%	22.5%	32.1%	67.5%
EBIT (€m)	-113.4	-82.1	21.3	-36.7	-0.2	162.4
EBIT margin	n.a.	n.a.	12.2%	n.a.	n.a.	34.3%
Net income (€m)	-143.3	-101.4	3.9	-54.3	-14.9	135.7
EPS (diluted) (€)	-1.24	-0.73	0.03	-0.39	-0.11	0.98
DPS (€)	0.00	0.00	0.00	0.00	0.00	0.00
FCF (€m)	-274.7	-217.1	-34.0	-51.8	0.8	136.9
Net gearing	-62.4%	64.5%	92.1%	233.5%	310.7%	36.6%
Liquid assets (€m)	289.4	126.1	92.0	40.2	9.9	111.6

RISKS

Risks include, but are not limited to development, partnering, regulatory, competition and retention of key personnel.

COMPANY PROFILE

Valneva is a specialty vaccine company which develops and commercialises prophylactic vaccines for infectious diseases with significant unmet medical need. Valneva has successfully commercialised two vaccines and has successfully advanced several vaccine candidates into and through the clinic, including candidates against Lyme disease, the chikungunya virus and COVID-19. Valneva is incorporated in France and had over 700 employees at end June 2024.

MARKET DATA	As of 19 Aug 2024
Closing Price	€ 3.78
Shares outstanding	138.91m
Market Capitalisation	€ 525.64m
52-week Range	€ 3.00 / 6.53
Avg. Volume (12 Months)	458.820

Multiples	2023	2024E	2025E
P/E	n.a.	135.4	n.a.
EV/Sales	3.9	3.5	2.8
EV/EBIT	n.a.	28.3	n.a.
Div. Yield	0.0%	0.0%	0.0%

STOCK OVERVIEW



COMPANY DATA	As of 30 Jun 2024
Liquid Assets	€ 126.08m
Current Assets	€ 262.82m
Intangible Assets	€ 25.57m
Total Assets	€ 460.06m
Current Liabilities	€ 158.86m
Shareholders' Equity	€ 128.25m

SHAREHOLDERS

CDC	9.2%
Groupe Grimaud La Corbière	7.7%
Pfizer Inc.	6.9%
Deep Track Capital	5.4%
Free Float and other	70.9%

Figure 1: H1/24 results versus consensus

€m	H1/24A	H1/24 consensus	% ∆	H1/23A	% ∆
Total revenues	70.8	75.5	-6.2%	73.7	-3.9%
Product revenues	68.3	71.6	-4.6%	69.7	-2.0%
Other revenues	2.5	3.0	-16.7%	4.0	-37.5%
R&D expenses	29.7	29.4	1.0%	26.0	14.2%
SG&A	46.0	46.8	-1.7%	42.9	7.2%
Adj. EBITDA	56.2	55.3	1.6%	-28.3	n.a.

Source: Valneva, First Berlin Equity Research estimates

lxchiq making progress with regulatory approvals, institutional recommendations, label extensions Valneva's chikungunya vaccine, Ixchiq. was approved by the FDA for adults in November 2023. H1/24 sales were €1m. During H1/24 Ixchig was approved for adults in Canada and the EU, and approval is expected in the UK and Brazil during H2/24. Valneva is making progress on reimbursement of the vaccine in the US. In Q2/24 ca. 50% of covered lives were eligible for reimbursement of the cost of an Ixchiq shot. In Q1/24 this figure was 25%. The expected near-term recommendation of Ixchiq by the MMWR (Morbidity and Mortality Weekly Report) is also expected to help sales. The MMWR is the main vehicle for publishing public health recommendations in the US. In May 2024, Valneva presented positive pivotal six-month phase 3 data and expects to file for potential label extensions for use in adolescents aged 12 to 17 years later this year. In addition, the company recently completed enrolment of a phase 2 pediatric trial in children aged 1 to 11 years designed to support a phase 3 pivotal pediatric study and potential future label extension to this age group. Although H1/24 Ixchiq sales were modest at €1m, management maintains that sales will follow the s-curve typical of newly introduced vaccines and is sticking to its previous guidance of sales of €100m in year 3 after launch. During the analysts' call following the results CEO Thomas Lingelbach also confirmed that he expects the US military to become a major customer for Ixchiq, as it already is for Ixiaro.

Figure 2: H1/24 product sales breakdown

€m	H1/24	H1/23	% ∆
lxiaro	41.9	30.3	38.3%
Dukoral	14.9	17.1	-12.9%
Ixchiq	1.0	0.0	n.a.
Third party products	10.5	16.5	-36.5%
Total product sales ex COVID-19	68.3	64.0	6.7%
COVID-19	0.0	5.7	-100.0%
Total product sales	68.3	69.7	-2.0%

Source: Valneva

H1/24 margin on product sales ex lxchiq rebounded to 47.7% (H1/23: 39.8%)... The gross margin on product sales excluding lxchiq improved further to 47.7% in H1/24 (Q1/24:43.7%; H1/23: 39.8%). During H1/23 the gross margin was adversely affected by batch writeoffs, as Valneva ramped up production following the pandemic. The gross margin is expected to continue to improve during the second half of the year as the supply shortages which impacted H1/24 have now been resolved. Adjusted EBITDA came in at €56.2m (H1/23: €-28.3m). The improvement stemmed manly from the €90.8m booked as other income on the sale of the priority review voucher in Q1/24.

...further gross margin improvement to 60-65% or above expected Management stated in the final 2023 report that it expects the product margin to return to pre-covid levels or better over the next two to three years. This would imply a product gross margin of 60-65%. Margin improvement beyond the pre-pandemic level is expected to come from the cost-efficient manufacturing process of Ixchiq and scaling effects from leveraging the company's new and more efficient manufacturing facilities in Scotland and Sweden.

Shigella partnership with LimmaTech In early August Valneva announced that it had entered into a partnership with the Swiss clinical stage biopharmaceutical company, LimmaTech, to accelerate the development of the world's most clinically advanced Shigella vaccine candidate. Shigellosis, caused by Shigella bacteria, is the second leading cause of fatal diarrheal disease worldwide. It is estimated that up to 165 million cases of disease and

fatal diarrheal disease worldwide. It is estimated that up to 165 million cases of disease and an estimated 600,000 deaths are attributed to Shigella each year, particularly among children in Low- and Middle-Income Countries (LMICs). No approved Shigella vaccine is currently available and the development of Shigella vaccines has been identified as a priority by the World Health Organization (WHO). Shigellosis also affects international travellers from high-income countries and deployed military personnel in endemic regions. The global market for a vaccine against Shigella is estimated to exceed USD500 million annually.

Valneva currently pencils in shigella vaccine approval for H2/30 Under the terms of the agreement with Valneva, LimmaTech will receive an upfront payment of €10 million and be eligible to receive additional regulatory, development and sales-based milestone payments as well as low double-digit royalties on sales. LimmaTech will conduct a phase 2 Controlled Human Infection Model study (CHIM) in the US and a phase 2 pediatric study in LMICs. Both clinical trials are expected to begin in the second half of 2024. Valneva will assume all further development and regulatory activities, and be responsible for its commercialization worldwide if approved. The phase 2 trials are currently scheduled to complete in H2/26 and the ensuing phase 3 trials in H2/29. Valneva currently pencils in potential approval for H2/30.

Size and target market for shigella similar to chikungunya. Interesting plug and play opportunity for Valneva For Valneva, the shigella deal is in line with the long communicated strategy of having a new R&D program in phase 3 by 2027, i.e. to coincide with the expected launch of the Lyme vaccine, VLA15. The size of the market at over USD500m and the target population - travellers, military from high income countries, and low and medium income countries - is similar to chikungunya and so the shigella deal looks to be an interesting plug and play opportunity for Valneva.

Cashburn set to decrease in H2/24 Excluding the proceeds of the priority review voucher, free cashflow came in at €-69m in H1/24. Valneva completed its contribution to the Lyme phase 3 trial in H1/24 and so we expect cashburn to reduce in H2/24. We model an H2/24 figure of €-53m.

Buy recommendation maintained at unchanged price target of €8.60 Figure 3 overleaf shows changes to our forecasts. In the light of modest H1/24 sales, we assume a slower ramp-up in sales of Ixchiq than previously. This outweighs the impact on product sales in 2024, 2026 and 2027 of upgrades to our forecasts for Ixiaro, where we have raised numbers to reflect the end of the supply constraints which impacted H1/24 business with this vaccine. The impact on profitability of a decrease in our overall product sales forecast is cancelled out by a shift in the sales mix towards the more profitable Ixiaro.

Valneva is the first company to launch a chikungunya vaccine and, subject to approval, will in 2027 be first to market with a Lyme vaccine (VLA15). These vaccines are expected to generate global revenues of USD500m (by 2030) and USD1.0bn (by 2032) respectively. Pfizer will pay Valneva tiered royalties ranging from 14% to 22% on VLA15 sales, while in the medium term we expect Valneva to generate a gross margin on Ixchiq sales of over 60%. Relative to these numbers and also taking into account the ca. USD160m of sales expected from the established vaccine business this year, we find the current enterprise valuation of ca. USD600 too low. We maintain our Buy recommendation and price target of €8.60 (equivalent to an enterprise valuation of USD1.3bn). Our full valuation model is shown overleaf.



Figure 3: Changes to our forecasts

		2024E			2025E			2026E			2027E	
All figures in EUR '000	Old	New	% ∆									
Product revenues	175,725	167,075	-4.9%	203,696	206,140	1.2%	290,104	274,514	-5.4%	355,406	334,929	-5.8%
of which:												
lxiaro	91,200	98,900	8.4%	96,381	104,543	8.5%	101,858	110,510	8.5%	106,253	115,251	8.5%
Dukoral	33,000	35,900	8.8%	34,650	37,695	8.8%	35,690	38,826	8.8%	36,760	39,991	8.8%
lxchiq	24,750	5,500	-77.8%	52,585	43,820	-16.7%	136,893	109,515	-20.0%	163,533	130,826	-20.0%
Lyme royalties/milestones	0	0	-	0	0	-	0	0	-	32,727	32,727	-
Third party revenues	26,775	26,775	0.0%	20,081	20,081	0.0%	15,663	15,663	0.0%	16,133	16,133	0.0%
Other revenue	10,000	7,534	-24.7%	10,300	7,760	-24.7%	10,609	7,993	-24.7%	140,927	138,233	-1.9%
Total revenues	185,725	174,609	-6.0%	213,996	213,900	0.0%	300,713	282,507	-6.1%	496,334	473,161	-4.7%
Gross profit	88,025	78,213	-11.1%	115,042	120,024	4.3%	174,455	165,369	-5.2%	353,160	337,882	-4.3%
margin (%)	47.4%	44.8%	-	53.8%	56.1%	-	58.0%	58.5%	-	71.2%	71.4%	-
Sales & marketing	-54,000	-49,181	-	-57,035	-55,658	-	-72,526	-65,883	-	-88,852	-77,034	-
General & administrative	-50,000	-50,000	-	-52,961	-53,596	-	-55,120	-52,158	-	-60,419	-56,938	-
Research & development	-67,500	-67,711	-	-67,500	-67,500	-	-67,500	-67,500	-	-47,500	-47,500	-
Other income	110,000	110,000	0.0%	20,000	20,000	0.0%	20,000	20,000	0.0%	6,000	6,000	0.0%
EBIT	26,525	21,321	-19.6%	-42,455	-36,730	n.a.	-691	-172	n.a.	162,389	162,411	0.0%
margin (%)	14.3%	12.2%	-	-19.8%	-17.2%	-	-0.2%	-0.1%	-	32.7%	34.3%	-
Net financial result	-17,596	-17,596	-	-17,596	-17,596	-	-14,714	-14,714	-	-11,660	-11,660	-
EBT	8,929	3,725	-58.3%	-60,051	-54,326	n.a.	-15,404	-14,886	n.a.	150,729	150,751	n.a.
Tax	0	158	n.a.	0	0	-	0	0	-	-15,073	-15,075	-
Net income	8,929	3,883	-56.5%	-60,051	-54,326	n.a.	-15,404	-14,886	n.a.	135,656	135,676	n.a.
EPS (in EUR)	0.06	0.03	-56.5%	-0.43	-0.39	n.a.	-0.11	-0.11	n.a.	0.98	0.98	n.a.
Adjusted EBITDA	45,478	40,274	-11.4%	-23,030	-17,305	n.a.	19,221	19,739	n.a.	182,801	182,823	n.a.

Source: First Berlin Equity Research

Figure 4: Valuation model

Compound	Project ¹⁾	Present Value	Market Size 2030	Market Share 2030	Sales 2030	PACME Margin ²⁾	Discount Factor	Time to Market
lxiaro	Japanese Encephalitis	€599.7M	€149.5M	90.0%	€1345M	40%	9.0%	-
Dukoral	Cholera & ETEC	€150.2M	€178.3M	25.0%	€44.6M	30%	90%	-
VLA15	Lyme Disease	€792.3M	€909.1M	70.0%	€636.4M	18%	10.0%	3 Years
VLA 1553	Chikungunya virus	€808.4M	€463.0M	58.9%	€272.7M	45%	9.0%	-
S4V	Shigellosis	€240.5M	n.a.	n.a	n.a	45%	10.0%	6 years
EB66 cell line	e Technology Platform	€11.9M			€19.7M	15%	9.0%	-
PACME PV		€2,603.0M						
Costs PV ³⁾		€1,521.0M						
NPV		€1,082.0M						
PV grants, co	ollabs., 3rd party distrib.	€190.7M						
Proforma net	cash	-€78.2M						
Fair Value		€1,194.5M						
Proforma sha	re count (fully diluted)	138,912K						
Price Target		€8.60						

¹⁾ A project typically refers to a specific indication or, where necessary or relevant, a combination between indication and geographic market

Source: First Berlin Equity Research estimates

²⁾ PACME (Profit After Costs and Marketing Expenses) reflects the company's profit share on future revenues.

This share may be derived in the form of royalties (outsourced marketing/manufacturing) or operating EBITDA margin (in-house model), or some mix of both (depending on the specific parameters of partnership agreements)

³⁾ Includes company-level R&D, G&A, Financing Costs and CapEx; COGS and S&M are factored into the PACME margin for each project



INCOME STATEMENT

All figures in EUR '000	2022	2023	2024E	2025E	2026E	2027E
Product sales	114,797	144,624	167,075	206,140	274,514	334,929
Other income	246,506	9,089	7,534	7,760	7,993	138,233
Total revenues	361,303	153,713	174,609	213,900	282,507	473,161
Cost of materials/goods sold	-324,441	-100,875	-96,396	-93,875	-117,138	-135,279
Gross Profit	36,862	52,838	78,213	120,024	165,369	337,882
Sales & marketing	-23,509	-48,752	-49,181	-55,658	-65,883	-77,034
General & administrative	-34,073	-47,799	-50,000	-53,596	-52,158	-56,938
Research & development	-104,922	-59,894	-67,711	-67,500	-67,500	-47,500
Other operating items, net	12,199	21,520	110,000	20,000	20,000	6,000
Operating income (EBIT)	-113,443	-82,087	21,321	-36,730	-172	162,411
Net financial result	-18,794	-22,115	-17,596	-17,596	-14,714	-11,660
Foreign exchange gains/(loss)	-12,587	5,573	0	0	0	0
Pre-tax income (EBT)	-144,815	-98,629	3,725	-54,326	-14,886	150,751
Income taxes	1,536	-2,800	158	0	0	-15,075
Net income / loss	-143,279	-101,429	3,883	-54,326	-14,886	135,676
EPS	-1.24	-0.73	0.03	-0.39	-0.11	0.98
Adjusted EBITDA	-69,200	-65,187	40,274	-17,305	19,739	182,823
Ratios as % of total revenues						
Gross margin	10.2%	34.4%	44.8%	56.1%	58.5%	71.4%
EBITDA margin	-19.2%	-42.4%	23.1%	-8.1%	7.0%	38.6%
EBIT margin	-31.4%	-53.4%	12.2%	-17.2%	-0.1%	34.3%
Net margin	n.a.	n.a.	2.2%	n.a.	n.a.	28.7%
Expenses as % of total revenues						
Sales & marketing	-6.5%	-31.7%	-28.2%	-26.0%	-23.3%	-16.3%
General & administrative	-9.4%	-31.1%	-28.6%	-25.1%	-18.5%	-12.0%
Research & development	-29.0%	-39.0%	-38.8%	-31.6%	-23.9%	-10.0%
Y-Y Growth						
Product sales	82.3%	26.0%	15.5%	23.4%	33.2%	22.0%
Total revenues	3.8%	-57.5%	13.6%	22.5%	32.1%	67.5%
Operating income (EBIT)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Net income / loss	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.



All figures in EUR '000	2022	2023	2024E	2025E	2026E	2027E
Assets						
Current Assets, Total	424,659	262,824	227,365	192,760	185,558	322,595
Cash and cash equivalents	289,430	126,080	92,034	40,217	9,869	111,590
Receivables	23,912	41,645	40,098	45,351	54,903	66,986
Inventories	35,104	44,466	41,769	47,412	54,903	66,986
Other current assets	76,213	50,633	53,464	59,781	65,883	77,034
Non-Current Assets, Total	196,685	197,238	207,502	208,227	213,914	218,552
Property, plant & equipment	112,435	136,198	135,202	134,176	133,119	132,030
Right of use assets	41,603	20,392	23,558	29,066	38,707	47,225
Intangibles	28,711	25,567	32,343	29,117	25,889	22,657
Equity-accounted investees	0	0	0	0	0	0
Other assets	8,299	8,489	9,807	9,276	9,608	10,048
Deferred tax assets	5,637	6,592	6,592	6,592	6,592	6,592
Total Assets	621,344	460,062	434,867	400,987	399,472	541,148
Shareholders' Equity & Debt						
Current Liabilities, Total	277,392	158,863	87,326	130,814	165,119	268,981
Short-term debt	11,580	44,079	0	31,189	35,195	110,463
Accounts payable	41,491	44,303	45,110	55,658	71,374	87,081
Other current liabilities and provisions	36,780	11,427	13,201	16,287	21,690	26,463
Current finance lease liabilities	25,411	2,879	3,326	4,104	5,465	6,667
Tax and employee-related liabilities	15,738	16,209	18,725	22,675	30,197	36,842
Current tax liability	532	632	730	901	1,200	1,464
Contract liabilities and refund liabilities	145,860	39,334	6,234	0	0	0
Longterm Liabilities, Total	124,155	172,952	215,301	192,154	171,117	73,155
Long term debt	87,227	132,768	176,847	145,658	110,463	0
Non-current finance lease liabilities	28,163	29,090	33,606	41,463	55,216	67,368
Other liabilities	1,436	1,153	1,320	1,610	2,118	2,566
Contract liabilities and refund liabilities	6,635	6,303	0	0	0	0
Shareholders Equity	219,797	128,247	132,239	78,019	63,236	199,011
Total Consolidated Equity and Debt	621,344	460,062	434,867	400,987	399,472	541,148
Ratios						
Current ratio (x)	1.53	1.65	2.60	1.47	1.12	1.20
Quick ratio (x)	1.40	1.37	2.13	1.11	0.79	0.95
Net gearing	-62.4%	64.5%	92.1%	233.5%	310.7%	36.6%
Book value per share (€)	2.42	1.41	1.45	0.86	0.70	2.19
Net debt	-137,049	82,736	121,744	182,197	196,470	72,908
Equity ratio	35.4%	27.9%	30.4%	19.5%	15.8%	36.8%



CASH FLOW STATEMENT

All figures in EUR '000	2022	2023	2024E	2025E	2026E	2027E
Net income / loss	-143,279	-101,429	3,883	-54,326	-14,886	135,676
Adjustments for non-cash transactions	44,070	44,984	18,953	19,425	19,911	20,412
Changes in non-current op. assets/lias.	-147,713	514	-10,000	0	0	0
Changes in working capital	1,732	-145,578	-32,148	-1,744	11,442	-3,080
Other adjustments	0	0	0	0	0	0
Income tax	-154	-1,236	0	0	0	0
Operating cash flow	-245,344	-202,745	-19,313	-36,645	16,467	153,008
Property, plant and equipment	-29,246	-14,231	-14,658	-15,098	-15,551	-16,017
Investments in intangibles	-76	-81	-75	-75	-75	-75
Free cash flow	-274,666	-217,057	-34,046	-51,818	842	136,916
Acquisitions & disposals, net	8	-7,482	0	0	0	0
Interest received	260	1,210	0	0	0	0
Investing cash flow	-29,054	-20,585	-14,733	-15,173	-15,626	-16,092
Debt financing, net	37,538	79,014	0	0	-31,189	-35,195
Equity financing, net	189,837	-240	0	0	0	0
Payment of lease liabilities	-3,048	-3,127	0	0	0	0
Interest expense	-9,211	-12,567	0	0	0	0
Cash flow from financing	215,116	63,080	0	0	-31,189	-35,195
Forex & other	2,026	-3,100	0	0	0	0
Net cash flows	-57,256	-163,350	-34,046	-51,818	-30,347	101,721
Cash and equivs., start of the year	346,686	289,430	126,080	92,034	40,217	9,869
Cash and equivs., end of the year	289,430	126,080	92,034	40,217	9,869	111,590
Adj. EBITDA/share	-0.60	-0.47	0.29	-0.12	0.14	1.32
Y-Y Growth						
Operating cashflow	n.a.	n.a.	n.a.	n.a.	n.a.	829.2%
Free cashflow	n.a.	n.a.	n.a.	n.a.	n.a.	16163.7%
EВПDA/share	n.a.	n.a.	n.a.	n.a.	n.a.	826.2%



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ASSET VALUATION SYSTEM

First Berlin's system for asset valuation is divided into an asset recommendation and a risk assessment.

ASSET RECOMMENDATION

The recommendations determined in accordance with the share price trend anticipated by First Berlin in the respectively indicated investment period are as follows:

Category			2
Current market capitalisation (in €)		0 - 2 billion	> 2 billion
Strong Buy ¹	An expected favourable price trend of:	> 50%	> 30%
Buy	An expected favourable price trend of:	> 25%	> 15%
Add	An expected favourable price trend of:	0% to 25%	0% to 15%
Reduce	An expected negative price trend of:	0% to -15%	0% to -10%
Sell	An expected negative price trend of:	< -15%	< -10%

¹ The expected price trend is in combination with sizable confidence in the quality and forecast security of management.

Our recommendation system places each company into one of two market capitalisation categories. Category 1 companies have a market capitalisation of $\in 0 - \in 2$ billion, and Category 2 companies have a market capitalisation of $> \in 2$ billion. The expected return thresholds underlying our recommendation system are lower for Category 2 companies than for Category 1 companies. This reflects the generally lower level of risk associated with higher market capitalisation companies.

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The First Berlin categories for risk assessment are low, average, high and speculative. They are determined by ten factors: Corporate governance, quality of earnings, management strength, balance sheet and financial risk, competitive position, standard of financial disclosure, regulatory and political uncertainty, strength of brandname, market capitalisation and free float. These risk factors are incorporated into the First Berlin valuation models and are thus included in the target prices. First Berlin customers may request the models.

RECOMMENDATION & PRICE TARGET HISTORY

Report No.:	Date of publication	Previous day closing price	Recommendation	Price target
Initial Report	26 April 2017	€2.52	Buy	€4.00
236	\downarrow	\downarrow	\downarrow	\downarrow
37	6 July 2022	€11.12	Add	€12.00
38	26 July 2022	€9.75	Buy	€12.50
39	19 August 2022	€9.91	Add	€12.00
40	4 April 2023	€4.86	Buy	€8.90
41	22 May 2023	€5.69	Buy	€8.90
42	12 October 2023	€5.46	Buy	€8.90
43	27 February 2024	€3.21	Buy	€8.60
44	12 April 2024	€3.94	Buy	€8.60
45	Today	€3.78	Buy	€8.60

INVESTMENT HORIZON

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- key sources of information in the preparation of this research report
- valuation methods and principles
- sensitivity of valuation parameters

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