Model Update post profit warning

Hypoport has published a profit warning for 2022. For Q3 it expects a slight revenue decline and break-even on EBIT level. For the full year it expects to clearly miss its profit targets (EBIT target 2022: EUR 51m – EUR 58m; PASe: EUR 35m). This is clearly bad news but can be explained by the deteriorated market environment in recent weeks. New business mortgage loan figures in July and August were down by 16% and 19%, respectively. Although we do not see any positive short-term triggers for the shares, we stick to our Buy rating with a new target price of EUR 225 (EUR 410) as we remain convinced of the mid-term growth prospects of the company. We see Hypoport as a winner of the ongoing digitization trend in the banking / real estate industry. Due to the deteriorated market environment this trend will be delayed somewhat but it will not be stopped.

Profit warning

Hypoport expects for Q3 a slight revenue decline and break-even on EBIT level. The strong decline of the EBIT yoy (Q3 '21: EUR 11.6m), which surprised us negatively, can be explained by the high fixed cost base of Hypoport and the strong capacity build-up in recent years. For the current year it expects to clearly miss its targets (revenues of between EUR 500m and EUR 540m, EBIT of between EUR 51m and EUR 58m).

Financials

We have reduced our EPS estimates from EUR 6.42 to EUR 3.99 and from EUR 7.13 to EUR 3.84 for 2022e and 2023e, respectively as we have reduced our revenues estimates. Given Hypoport's relative fixed cost base we have reduced our cost forecast less than proportionately. Note, that Hypoport has announced that it plans to "bring its cost levels in line with the current market environment". We interpret the statement that way that Hypoport plans to reduce its staff. Apart from the one-time time negative effect resulting from redundancy payments, the positive effect from the cost cutting measures will most likely not become visible in the P&L before 2023.

EURm	2020	2021	2022e	2023e	2024e
Revenues	388	446	463	463	500
EBITDA	64	77	67	70	79
EBIT	36	48	35	36	43
EPS	4.44	4.86	3.99	3.84	4.62
EPS adj	4.44	4.86	3.99	3.84	4.62
DPS	-	-	-	-	-
EV/EBITDA	53.2	43.7	10.2	9.6	8.6
EV/EBIT	93.8	70.7	19.3	18.8	15.8
P/E adj	-	-	21.1	21.9	18.2
P/B	14.71	12.79	1.92	1.76	1.61
ROE (%)	14.0	12.9	9.5	8.4	9.2
Div yield (%)	-	-	-	-	-
Net debt	156	148	144	137	149

Source: Pareto Securities

Target price (EUR) Share price (EUR)	225 84	A	BUY
onare price (2014)	0.	_	HOLD
		\blacksquare	SELL

Forecast changes

%	2022e	2023e	2024e
Revenues	(11)	(19)	(22)
EBITDA	(22)	(27)	(28)
EBIT adj	(35)	(42)	(42)
EPS reported	(38)	(46)	(46)
EPS adj	(38)	(46)	(46)

Source: Pareto Securities

Ticker	HYQGN.DE, HYQ GR
Sector	Diversified Financials
Shares fully diluted (m)	6.3
Market cap (EURm)	530
Net debt (EURm)	144
Minority interests (EURm)	2
Enterprise value 22e (EURm)	676

Performance



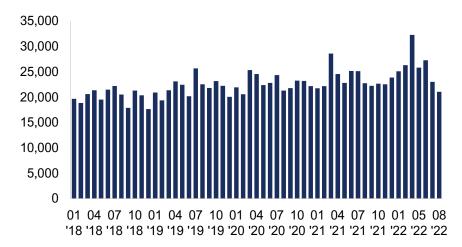
Pareto Securities AS has been paid by the issuer to produce this research report. This material is considered by Pareto Securities to qualify as an acceptable minor non-monetary benefit according to the EU MIFID 2 directive.

Analysts

Dr Philipp Häßler CFA

+49 69 58997 414, philipp.haessler@paretosec.com

Development of new business mortgage loan volumes in Germany (EUR m)



Source: Pareto Securities

Market development has deteriorated in recent weeks

The overall market (measured by new business mortgage loan figures, published by the Deutsche Bundesbank) has contracted quite sharply in recent months as can be seen in the graph above. Following a yoy decline by 9% in June, the negative trend has accelerated in July (-16% yoy) and August (-19% yoy). This development has been triggered by the strong increase in interest rates which resulted in a sharp increase in mortgage rates. At the same time residential real estate prices are on a record high and the economic uncertainty is extremely high. This is clearly not an attractive market environment for potential buyers of residential real estate properties and should have led to a declining demand. On the other hand, the high inflation rates make real estate properties attractive to other asset classes which are not seen as a good inflation hedge.

We stick to our opinion that we do not expect a strong decline in residential real estate prices in Germany, except for the high-end segment in cities like Munich or Frankfurt. We have however become more cautious regarding the development of the transaction volumes and thus financing volumes. Buyers and sellers have to a much a larger extent than usual differing views about the fair price of the properties and it takes much longer to agree on a sales price. Thus, the sales process takes much longer than before which has c.p. a negative effect on transaction volumes. We do not expect the current big mismatch of buyers' and sellers' pricing ideas to disappear quickly, i.e. the market environment should remain difficult and transaction volumes should not recover quickly.

Recommendation and valuation

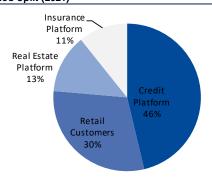
We stick to our Buy recommendation with a new target price of EUR 225 (EUR 410). We have reduced our revenue and EBIT estimates and have accordingly adjusted our earnings forecasts in the DCF model. Shares remain attractively valued in our view with a 2023e PER of 22x given the double-digit earnings growth potential (EPS CAGR 2022e-25e: +14%). We expect Hypoport to further win market share in mortgage financing while the real estate and insurance platform have both still huge growth potential which will however not be realized in the short term. The digitalization of the banking / insurance /real estate industry is not a sprint but rather a marathon. Thus, we expect Hypoport to continue winning market share in the coming years and further grow revenues double-digit.

DCF Model

		Phas	e I				Phas	e II			Phase III
Expectations in EUR m	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	
Revenues	463	463	500	560	633	714	802	899	1,006	1,122	
growth rate	3.8%	0.0%	8.0%	12.0%	13.0%	12.7%	12.4%	12.1%	11.8%	116%	
EBIT	35	36	43	53	70	82	96	112	131	152	
EBIT Margin	7.6%	7.7%	8.6%	9.4%	11.0%	11.5%	12.0%	12.5%	13.0%	13.5%	
Tax	-6	-6	-8	-10	-15	-18	-21	-24	-28	-32	
Taxrate	19%	21%	21%	21%	21%	21%	21%	21%	21%	21%	
Depreciation	32	34	37	39	38	44	51	56	62	68	
%of revenue	6.8%	7.3%	7.3%	7.0%	6.0%	6.2%	6.3%	6.2%	6.2%	6.1%	
Capex	-36	-39	-42	-45	-41	-46	-51	-56	-62	-68	
% of revenue	7.9%	8.4%	8.3%	8.0%	6.5%	6.4%	6.3%	6.2%	6.2%	6.1%	
Change in Working Capital	-5	-4	-7	-7	-8	-9	-10	-11	-12	-13	
% of revenue	12%	0.9%	13%	12%	12%	12%	12%	12%	12%	12%	
Free Cash Flow	19	20	24	31	44	55	66	77	91	106	2,346
growth rate	nm	6.7%	17.2%	312%	42.8%	23.7%	20.9%	17.2%	17.6%	16.4%	2.8%
Present Value CF	19	18	20	25	33	38	42	46	51	55	1,215
PV Phase I		81			Debtrate		3.0%	1	arget eq	uity ratio	70%
PV Phase II		264		F	Risk prer	nium	5.0%	E	Beta		1.1
PV Phase III		1,215		F	Risk-free	rate	3.5%	V	VACC		7.4%
Enterprise value		1,561		5	Sensitivit	y		Grow	th in Pha	se III	
+ Cash		55			Analysis	-	1.8%	2.3%	2.8%	3.3%	3.8%
- Debt		199				6.65%	227	250	279	316	367
Equity Value		1,417				7.02%	207	226	250	280	319
Number of shares		6.3		١	VACC	7.39%	189	205	225	249	281
						7.76%	174	188	204	224	250
Value per share		225				8.13%	160	172	186	203	224
po. o o						3			.00	_50	

Investment Case in Charts

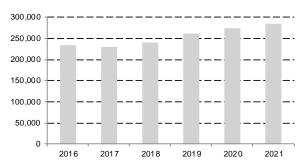
Revenues split (2021)



Credit Platform (Europace) & Retail Cust. (Dr. Klein) are the key revenue pillars, the Ins. Platf. should be the growth engine in the mid-term.

Source: Hypoport, Pareto Sec. Research

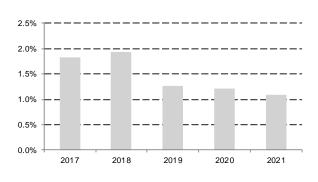
Market development (new mortgage loans in EUR m)



The overall market show ed once again a good development in 2021 with an increase by 4% yoy. For 2022e a decline is likely.

Source: Hypoport, Pareto Sec. Research

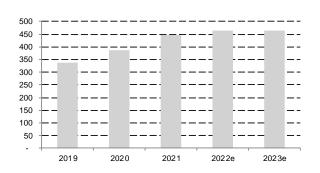
10YR Mortgage Rate development



Following years of very low mortgage loan rates, rates have sharply increased in 2022; we do not expect a decline to the low levels.

Source: Hypoport, Pareto Sec. Research

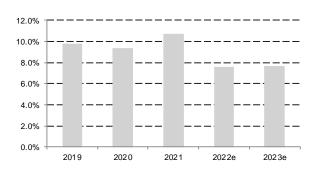
Revenues development (in EUR m)



Driven by the low er real estate financing volumes we forecast revenues to increase by only 4% yoy in 2022e.

Source: Hypoport, Pareto Sec. Research

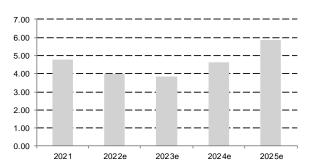
EBIT margin development



The EBIT margin should decline in 2022e because of the recent build-up of capacities and the relatively high share of fixed costs.

Source: Hypoport, Pareto Sec. Research

EPS development (in EUR)

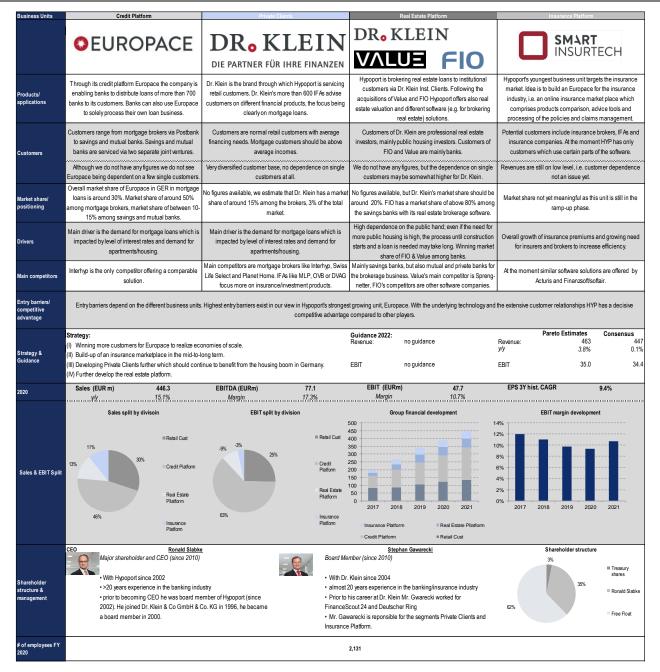


We forecast EPS CAGR of 14% (2022e-'25e).

Source: Hypoport, Pareto Sec. Research

Source: Pareto Securities Research, Hypoport

At a Glance



Source: Hypoport, Pareto Securities

PROFIT & LOSS (fiscal year) (EURm)	2017	2018	2019	2020	2021	2022e	2023e	2024e
Revenues	195	266	337	388	446	463	463	500
EBITDA	30	39	52	64	77	67	70	79
Depreciation & amortisation	(7)	(10)	(19)	(28)	(29)	(32)	(34)	(37)
EBIT	23	29	33	36	48	35	36	43
Net interest	(0)	(1)	(2)	(3)	(3)	(4)	(5)	(6)
Profit before taxes	23	28	31	33	44	31	31	37
Taxes	(5)	(6)	(7)	(6)	(14)	(6)	(6)	(8)
Minority interest	-	-	-	-	-	-	-	-
Net profit	18	22	24	28	31	25	24	29
EPS reported	3.10	3.69	3.90	4.44	4.86	3.99	3.84	4.62
EPS adjusted	3.10	3.69	3.90	4.44	4.86	3.99	3.84	4.62
DPS	-	-	-	-	-	-	-	-
BALANCE SHEET (EURm)	2017	2018	2019	2020	2021	2022e	2023e	2024e
Tangible non current assets	4	10	35	98	102	113	124	135
Other non-current assets	68	211	269	342	358	363	364	355
Other current assets	54	53	62	79	87	92	98	104
Cash & equivalents	14	32	25	34	49	55	64	55
Total assets	141	306	392	552	596	622	650	650
Total equity	83	153	178	221	253	278	302	332
Interest-bearing non-current debt	13	71	98	168	173	175	177	179
Interest-bearing current debt	3	10	16	22	24	24	24	25
Other Debt	42	71	98	141	145	145	146	114
Total liabilites & equity	141	306	392	552	596	622	650	650
CASH FLOW (EURm)	2017	2018	2019	2020	2021	2022e	2023e	2024e
Cash earnings	24	35	45	53	65	54	58	45
Change in working capital	(16)	6	1	(5)	(0)	(5)	(4)	(7)
Cash flow from investments	(21)	(86)	(60)	(60)	(45)	(44)	(47)	(50)
Cash flow from financing	5	63	7	22	(4)	2	2	3
Net cash flow	(8)	19	(7)	9	16	6	9	(9)
VALUATION (EURm)	2017	2018	2019	2020	2021	2022e	2023e	2024e
Share price (EUR end)	145.4	148.2	315.0	515.0	511.0	84.2	84.2	84.2
Number of shares end period	6	6	6	6	6	6	6	6
Net interest bearing debt	2	49	90	156	148	144	137	149
Enterprise value	867	975	2,060	3,399	3,369	676	669	680
EV/Sales	4.4	3.7	6.1	8.8	7.5	1.5	1.4	1.4
EV/EBITDA	28.8	24.9	39.5	53.2	43.7	10.2	9.6	8.6
EV/EBIT	37.2	33.3	62.4	93.8	70.7	19.3	18.8	15.8
P/E reported	46.9	40.2	80.7	-	-	21.1	21.9	18.2
P/E adjusted	46.9	40.2	80.7	-	-	21.1	21.9	18.2
P/B	10.5	6.0	11.1	14.7	12.8	1.9	1.8	1.6
FINANCIAL ANALYSIS	2017	2018	2019	2020	2021	2022e	2023e	2024e
ROE adjusted (%)	25.1	19.0	14.7	13.9	12.9	9.5	8.3	9.2
Dividend yield (%)	-	-	-	-	-	-	-	-
EBITDA margin (%)	15.5	14.7	15.5	16.5	17.3	14.4	15.0	15.9
EBIT margin (%)	12.0	11.0	9.8	9.3	10.7	7.6	7.7	8.6
NIBD/EBITDA	0.07	1.25	1.72	2.45	1.93	2.17	1.97	1.87
EBITDA/Net interest	-	33.73	33.30	22.49	22.53	16.68	13.83	12.97

Disclaimer and legal disclosures

Origin of the publication or report
This publication or report originates from Pareto Securities AS, reg. no. 956 632 374 (Norway),
Pareto Securities AS, Frankfurt branch, reg. no. DE 320 965 513 / HR B 109177 (Germany) or
Pareto Securities AB, reg. no. 556206-8956 (Sweden) (together the Group Companies or the
"Pareto Securities Group") acting through their common unit Pareto Securities Research. The
Group Companies are supervised by the Financial Supervisory Authority of their respective

Content of the publication or report

This publication or report has been prepared solely by Pareto Securities Research

Opinions or suggestions from Pareto Securities Research may deviate from recommendations or opinions presented by other departments or companies in the Pareto Securities Group. The reason may typically be the result of differing time horizons, methodologies, contexts or other

Sponsored research

Please note that if this report is labelled as "sponsored research" on the front page, Pareto Securities has entered into an agreement with the company about the preparation of research reports and receives compensation from the company for this service. Sponsored research is prepared by the Research Department of Pareto Securities without any instruction rights by the company. Sponsored research is however commissioned for and paid by the company and such material is considered by Pareto Securities to qualify as an acceptable minor non-monetary benefit according to the EU MiFID II Directive.

Basis and methods for assessment

Opinions and price targets are based on one or more methods of valuation, for instance cash flow analysis, use of multiples, behavioral technical analyses of underlying market movements in combination with considerations of the market situation and the time horizon. Key assumptions of forecasts, price targets and projections in research cited or reproduced appear in the research material from the named sources. The date of publication appears from the research material cited or reproduced. Opinions and estimates may be updated in subsequent versions of the publication or report, provided that the relevant company/issuer is treated anew in such later versions of the publication or report.

Pareto Securities Research may provide credit research with more specific price targets based Pareto Securities Research may provide credit research with more specific price targets based on different valuation methods, including the analysis of key credit ratios and other factors describing the securities creditworthiness, peer group analysis of securities with similar creditworthiness and different DCF-valuations. All descriptions of loan agreement structures and loan agreement features are obtained from sources which Pareto Securities Research believes to be reliable, but Pareto Securities Research does not represent or warrant their accuracy. Be aware that investors should go through the specific complete loan agreement before investing in any bonds and not base an investment decision based solely on information contained in this publication or report.

Pareto Securities Research has no fixed schedule for updating publications or reports.

Unless otherwise stated on the first page, the publication or report has not been reviewed by the issuer before dissemination. In instances where all or part of a report is presented to the issuer prior to publication, the purpose is to ensure that facts are correct.

Validity of the publication or report

All opinions and estimates in this publication or report are, regardless of source, given in good faith and may only be valid as of the stated date of this publication or report and are subject to

No individual investment or tax advice

The publication or report is intended only to provide general and preliminary information to investors and shall not be construed as the basis for any investment decision. This publication or report has been prepared by Pareto Securities Research as general information for private use of investors to whom the publication or report has been distributed, but it is not intended as a personal recommendation of particular financial instruments or strategies and thus it does not provide individually tailored investment advice, and does not take into account the individual investor's particular financial situation, existing holdings or liabilities, investment knowledge and experience, investment objective and horizon or risk profile and preferences. The investor must particularly ensure the suitability of an investment as regards his/her financial and fiscal situation and investment objectives. The investor bears the risk of losses in connection with an

Before acting on any information in this publication or report, we recommend consulting your

The information contained in this publication or report does not constitute advice on the tax consequences of making any particular investment decision. Each investor shall make his/her own appraisal of the tax and other financial merits of his/her investment.

Sources

This publication or report may be based on or contain information, such as opinions, recommendations, estimates, price targets and valuations which emanate from Pareto Securities Research' analysts or representatives, publicly available information, information from other units or companies in the Group Companies, or other named sources.

To the extent this publication or report is based on or contains information emanating from other sources ("Other Sources") than Pareto Securities Research ("External Information"), Pareto Securities Research has deemed the Other Sources to be reliable but neither the companies in the Pareto Securities Group, others associated or affiliated with said companies nor any other person, guarantee the accuracy, adequacy or completeness of the External Information.

Ratings Equity ratings:

"Buv" Pareto Securities Research expects this financial instrument's total return to exceed 10% over the next 12 months

Pareto Securities Research expects this financial instrument's total return to be between -10% and 10% over the next 12 months "Hold"

"Sell" Pareto Securities Research expects this financial instrument's total return to be negative by more than 10% over the next 12 months

Analysts Certification

The research analyst(s) whose name(s) appear on research reports prepared by Pareto Securities Research certify that: (i) all of the views expressed in the research report accurately reflect their personal views about the subject security or issuer, and (ii) no part of the research analysts' compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed by the research analysts in research reports that are prepared by Pareto Securities Research.

The research analysts whose names appears on research reports prepared by Pareto Securities Research received compensation that is based upon various factors including Pareto Securities total revenues, a portion of which are generated by Pareto Securities' investment banking

Limitation of liability

Pareto Securities Group or other associated and affiliated companies assume no liability as regards to any investment, divestment or retention decision taken by the investor on the basis of this publication or report. In no event will entities of the Pareto Securities Group or other associated and affiliated companies be liable for direct, indirect or incidental, special or consequential damages resulting from the information in this publication or report.

Neither the information nor any opinion which may be expressed herein constitutes a solicitation by Pareto Securities Research of purchase or sale of any securities nor does it constitute a solicitation to any person in any jurisdiction where solicitation would be unlawful. All information contained in this research report has been compiled from sources believed to be reliable. However, no representation or warranty, express or implied, is made with respect to the completeness or accuracy of its contents, and it is not to be relied upon as authoritative.

Risk information

The risk of investing in certain financial instruments, including those mentioned in this document, is generally high, as their market value is exposed to a lot of different factors such as the operational and financial conditions of the relevant company, growth prospects, change in interest rates, the economic and political environment, foreign exchange rates, shifts in market sentiments etc. Where an investment or security is denominated in a different currency to the investor's currency of reference, changes in rates of exchange may have an adverse effect on the value, price or income of or from that investment to the investor. Past performance is not a guide to future performance. Estimates of future performance are based on assumptions that may not be realized. When investing in individual shares, the investor may lose all or part of the investments.

Conflicts of interest

Companies in the Pareto Securities Group, affiliates or staff of companies in the Pareto Securities Group, may perform services for, solicit business from, make a market in, hold long or short positions in, or otherwise be interested in the investments (including derivatives) of any

company mentioned in the publication or report. In addition Pareto Securities Group, or affiliates, may from time to time have a broking, advisory or other relationship with a company which is the subject of or referred to in the relevant Research, including acting as that company's official or sponsoring broker and providing investment banking or other financial services. It is the policy of Pareto to seek to act as corporate adviser or broker to some of the companies which are covered by Pareto Securities Research. Accordingly companies covered in any Research may be the subject of marketing initiatives by the Investment Banking Department.

To limit possible conflicts of interest and counter the abuse of inside knowledge, the analysts of Pareto Securities Research are subject to internal rules on sound ethical conduct, the management of inside information, handling of unpublished research material, contact with other units of the Group Companies and personal account dealing. The internal rules have been prepared in accordance with applicable legislation and relevant industry standards. The object of the internal rules is for example to ensure that no analyst will abuse or cause others to abuse confidential information. It is the policy of Pareto Securities Research that no link exists between revenues from capital markets activities and individual analyst remuneration. The Group Companies are members of national stockbrokers' associations in each of the countries in which the Group Companies have their head offices. Internal rules have been developed in accordance with recommendations issued by the stockbrokers associations. This material has been prepared following the Pareto Securities Conflict of Interest Policy.

The quidelines in the policy include rules and measures aimed at achieving a sufficient degree of independence between various departments, business areas and sub-business areas within the Pareto Securities Group in order to, as far as possible, avoid conflicts of interest from arising between such departments, business areas and sub-business areas as well as their customers. One purpose of such measures is to restrict the flow of information between certain business areas and sub-business areas within the Pareto Securities Group, where conflicts of interest may arise and to safeguard the impartialness of the employees. For example, the Investment Banking departments and certain other departments included in the Pareto Securities Group are surrounded by arrangements, so-called Chinese Walls, to restrict the flows of sensitive information from such departments. The internal guidelines also include, without limitation, rules aimed at securing the impartialness of, e.g., analysts working in the Pareto Securities Research departments, restrictions with regard to the remuneration paid to such analysts, requirements with respect to the independence of analysts from other departments within the Pareto Securities Group rules concerning contacts with covered companies and rules concerning personal account trading carried out by analysts.

The securities referred to in this publication or report may not be eligible for sale in some jurisdictions and persons into whose possession this document comes should inform themselves about and observe any such restrictions. This publication or report is not intended for and must not be distributed to private customers in the US, or retail clients in the United Kingdom, as defined by the Financial Conduct Authority (FCA).

This research is only intended for and may only be distributed to institutional investors in the United States and U.S entities seeking more information about any of the issuers or securities discussed in this report should contact Pareto Securities Inc. at 150 East 52nd Street, New York, NY 10022, Tel. 212 829 4200.

Pareto Securities Inc. is a broker-dealer registered with the U.S. Securities and Exchange Commission and is a member of FINRA &SIPC. U.S. To the extent required by applicable U.S. laws and regulations, Pareto Securities Inc. accepts responsibility for the contents of this publication. Investment products provided by or through Pareto Securities Inc. or Pareto Securities Research are not FDIC insured, may lose value and are not guaranteed by Pareto. Securities Inc. or Pareto Securities Research. Investing in non-U.S. securities may entail certain risks. This document does not constitute or form part of any offer for sale or subscription, nor shall it or any part of it form the basis of or be relied on in connection with any contract or commitment whatsoever. The securities of non-U.S. issuers may not be registered with or subject to SEC reporting and other requirements. The information available about non-U.S. companies may be limited, and non-U.S. companies are generally not subject to the same uniform auditing and reporting standards as U.S. companies. Market rules, conventions and practices may differ from U.S. markets, adding to transaction costs or causing delays in the purchase or sale of securities. Securities of some non-U.S. companies may not be as liquid as securities of comparable U.S. companies. Fluctuations in the values of national currencies, as well as the potential for governmental restrictions on currency movements, can significantly erode principal and investment returns.

Pareto Securities Research may have material conflicts of interest related to the production or distribution of this research report which, with regard to Pareto Securities Research, are disclosed herein.

Distribution in Singapore

Pareto Securities Pte Ltd holds a Capital Markets Services License is an exempt financial advisor under Financial Advisers Act, Chapter 110 ("FAA") of Singapore and a subsidiary of Pareto

This report is directed solely to persons who qualify as "accredited investors", "expert investors" and "institutional investors" as defined in section 4A(1) Securities and Futures Act, Chapter 289 ("SFA") of Singapore. This report is intended for general circulation amongst such investors and does not take into account the specific investment objectives, financial situation or particular needs of any particular person. You should seek advice from a financial adviser regarding the suitability of any product referred to in this report, taking into account your specific financial objectives, financial situation or particular needs before making a commitment to purchase any such product. Please contact Pareto Securities Pte Ltd, 16 Collyer Quay, # 27-02 Income at Raffles, Singapore 049318, at +65 6408 9800 in matters arising from, or in connection with this

Additional provisions on Recommendations distributed in the Canada Canadian recipients of this research report are advised that this research report is not, and under no circumstances is it to be construed as an offer to sell or a solicitation of or an offer to buy any securities that may be described herein. This research report is not, and under no circumstances is it to be construed as, a prospectus, offering memorandum, advertisement or a public offering in Canada of such securities. No securities commission or similar regulatory authority in Canada has reviewed or in any way passed upon this research report or the merits of any securities described or discussed herein and any representation to the contrary is an offence. Any securities described or discussed within this research report may only be distributed in Canada in accordance with applicable provincial and territorial securities laws. Any offer or sale in Canada of the securities described or discussed herein will be made only under an exemption from the requirements to file a prospectus with the relevant Canadian securities regulators and only by a dealer properly registered under applicable securities laws or, alternatively, pursuant to an exemption from the dealer registration requirement in the relevant province or territory of Canada in which such offer or sale is made. Under no circumstances is the information contained herein to be construed as investment advice in any province or territory of Canada nor should it be construed as being tailored to the needs of the recipient. Canadian recipients are advised that Pareto Securities AS, its affiliates and its authorized agents are not responsible for, nor do they accept, any liability whatsoever for any direct or consequential loss arising from any use of this research report or the information contained

Distribution in United KingdomThis publication is issued for the benefit of persons who qualify as eligible counterparties or professional clients and should be made available only to such persons and is exempt from the restriction on financial promotion in s21 of the Financial Services and Markets Act 2000 in reliance on provision in the FPO.

Copyright
This publication or report may not be mechanically duplicated, photocopied or otherwise reproduced, in full or in part, under applicable copyright laws. Any infringement of Pareto Securities Research's copyright can be pursued legally whereby the infringer will be held liable for any and all losses and expenses incurred by the infringement.

Appendix A

Disclosure requirements in accordance with Commission Delegated Regulation (EU) 2016/958 and the FINRA Rule 2241

The below list shows companies where Pareto Securities AS - together with affiliated companies and/or persons – owns a net long position of the shares exceeding 0,5 % of the total issued share capital in any company where a recommendation has been produced or distributed by Pareto Securities AS.

Companies	No. of shares	Holdings in %
Bonheur	239,548	0.56%
Par eto Bank	15,250,970	21.83%
Sel vaag Bolig	4,311,865	4.60%
Spar ebank 1 Nor d-Nor ge	4,471,827	4.45%
Spar ebank 1 SM N	2,332,018	1.80%
Spar ebank 1 SR-Bank	2,270,190	0.89%
SpareBank 1 Østfold Akershus	1,231,177	9.94%
Spar eBank 1 Østlandet	3,859,463	3.63%
Spar ebanken Mør e	566,833	1.15%
Spar ebanken Sør	333,449	2.13%
Spar ebanken V est	6,852,337	6.38%
NEXT Biometrics	710,901	0.78%
SpareBank 1 Sørøst-Norge	2,165,678	3.43%

Pareto Securities AS may hold financial instruments in companies where a recommendation has been produced or distributed by Pareto Securities AS in connection with rendering investment services, including Market Making.

Please find below an overview of material interests in shares held by employees in Pareto Securities AS, in companies where a recommendation has been produced or distributed by Pareto Securities AS. "By material interest" means holdings exceeding a value of NOK 50 000.

Company	Analyst holdings*	Total holdings	
A F Gr uppen	0	1,675	
Aker ASA	500	2,694	
Aker BP	0	29,538	
Aker Carbon Capture	0	4,926	
Aker Horizons	0	180,838	
Aprila Bank ASA	0	22,675	
ArcticZymes Technologies	0	684	
Austevoll Seaf ood	0	2,523	
Avance Gas	0	4,000	
Awilco LNG	0	30,000	
Belships	0	12,500	
Bonheur	0	30,678	
Borregaard ASA	0	500	
Bouvet	0	1,240	
BW Energy	0	103,641	
BW Of f shor e	0	9,650	
Cir ca Group	0	6,550	
Cloudberry Clean Energy	0	100,250	
Crayon	0	1,080	
Desert Control	0	32,500	
DNB	0	40,496	
DNO	0	70,258	
Elkem	0	101,147	
Elmer a Group ASA	0	22,119	
ELOP	0	140,000	
Equinor	0	2,623	
Europris	0	17,208	
Flex LNG	0	717	
Frontline	0	11,775	
Gaming Innovation Group	0	25,912	

Company	Analyst holdings*	Total holdings
Gjensidige For sikring	0	7,671
Grieg Seaf ood	0	3,334
Haf nia Ltd.	0	149.415
Huddly	0	923,514
Hydr ogenPr o	0	36,991
Höegh Autoliner s	0	2,500
Kitron	0	18,536
Komplett Bank	0	187,800
Kongsber g Gr uppen	0	281
KWS	75	75
Lea bank	0	31,499
Ler øy Seaf ood Group	0	35,021
Meltwater	0	24,000
Mowi	0	1,347
MPC Container Ships	0	12,545
NEXT Biometrics	0	710,901
Nor dic Semi conductor	0	11,182
Noreco	0	500
Nor se Atlantic	0	40,000
Nor sk Hydr o	0	85,819
Norske Skog	0	74,249
Northern Drilling Ltd.	0	178,000
Odfjell Drilling	0	28,581
Okeanis Eco Tankers	0	1,272
Orkla	0	24,336
Panor o Ener gy	0	28,373
Par eto Bank	0	1,280,624
Pexip Holding	0	322,083
PGS	0	8,176
Protector Forsikring	0	15,300
Pryme	0	7,401
PyrumInnovations	0	100
Quantaf uel	0	8,797
REC Silicon	0	28,991
Sal M ar	0	104
Sandnes Spar ebank	0	2,500
Scatec	0	31,009
Seadrill Ltd	0	6,426
Spar ebank 1 Nor d-Nor ge	0	4,350
Spar ebank 1 SMN	0	10,414
Spar ebank 1 SR-Bank	0	12,909
Spar eBank 1 Østlandet	0	921
Spar ebanken Mør e	0	1,080
Spar ebanken Sør	0	16,140
Spar ebanken Vest	0	7,456
Stolt-Nielsen	0	2,233
Stor ebr and	0	3,277
Subsea 7	0	34,332
Telenor	0	7,984
TGS	0	600
Vow	0	12,081
Vow Green Metals	0	19,681
Vår Energi	0	173,695
Wallenius Wilhemsen	0	2,250
Yara	0	16,798
Zaptec	0	11,610

This overview is updated monthly (last updated 15.09.2022).

 $^{{}^*\!} Analyst \, holdings refers to position sheld by the {\tt Pareto Securities} AS \, analyst \, covering the \, company.$

Appendix B

Disclosure requirements in accordance with Article 6(1)(c)(iii) of Commission Delegated Regulation (EU) 2016/958

Overview over issuers of financial instruments where Pareto Securities AS have prepared or distributed investment recommendation, where Pareto Securities AS have been lead manager/co-lead manager or have rendered publicly known not immaterial investment banking services over the previous 12 months:

State European Holdings

Tier klinik Hof heim GbR

Vestby Logistikk Holding

Waste Plastic Upcycling

Vår Energi Waldorf Production UK Ltd

Swedencare TEMPTON GmbH

TiseAS Trønderenergi AS

Add Energy Aker ASA Aker Clean Hydrogen Aker Offshore Wind Akershus Energi Varme AS Alva Industries AS Aprila Bank ASA Barramundi Group Pte. Ltd. Bekk og Strøm AS, SV Vattenkraft AB

Biomega Group AS Boreal Holding AS Borr Drilling
Brooge Petroleum and Gas
BW LPG

BW Of f shore Cabonline Group Holding AB
Cavai AS Cloudberry Clean Energy DNO

ELOP Enapter AG Ensur ge Micropower Esmaeilzadeh Holding First Camp Group AB

Flex LNG Global Agrajes (Fertiberia group)

Golar LNG Gram Car Carriers GramCar Carriers
Green Transition Holding
Greenfood
Grentvedt AS
Haf slund Eco
Hagal AS
HMH Holding
Ice Group
Immunophar ma

InoBat Auto
International Petroleum Corporation

Island Green Power Ltd JP/ Politiken's For lag

Kalera

Kebony Keppel FELSLimited KMC Properties Kruse Smith Kruse Smith
Kvitebjørn Energi AS
Lerøy Seaf ood Group
Memmo Family
Mime Petr oleum
Modex AS
Multitude SE
Navios Maritime Aquisitions
Navios Maritime Holdings

Navios Maritime Holdings Nor dic Halibut Nor ske Skog Nor wegian Block Exchange

Odf jell Oceanwind OkeaAS Otello Cor por ation Pandi on Ener gy Par eto Bank

PetroNor E&P PHM Group
poLight
Polight ASA
Pronof a AS
Protector Forsikring
Pryme
Pyrum Innovations
Ored Holding
Quantafuel
Saga Robotics
Salmon Evolution PHM Group

Salmon Evolution Sartorius-Herbst Seagems Nor way

Seajacks Shamar an Petroleum

This overview is updated monthly (this overview is for the period 31.08.2021–30.09.2022).

Appendix C

Disclosure requirements pursuant to the Norwegian Securities Trading Regulation § 3-11 (4)

Distribution of recommendations Recommendation

Buv	78%
Hold	21%
Sell	1%
Distribution of recommendations (transactions*) Recommendation	% distribution
Buv	92%
Hold	8%
Sell	0%

Buv Hold Sell * Companies under coverage with which Pareto Securities Group has on-going or completed public

This overview is updated monthly (last updated 14.09.2022).

Appendix D

This section applies to research reports prepared by Pareto Securities AB.

Disclosure of positions in financial instruments

The beneficial holding of the Pareto Group is 1 % or more of the total share capital of the following companies included in Pareto Securities AB's research coverage universe: None

The Par eto Group has material holdings of other financial instruments than shares issued by the following companies included in Pareto Securities AB's research coverage universe: None

Disclosure of assignments and mandates

Overview over issuers of financial instruments where Pareto Securities AB has prepared or distributed investment recommendation, where Pareto Securities AB has been lead manager or co-lead manager or has rendered publicly known not immaterial investment banking services over the previous twelve months:

ADDvise Studentbostäder i Norden Media & Games Invest plc. Swedencare Oscar Properties
Sedana Medical
Shamaran Petroleum Corp Cibus Nor dic Real Estate AB Egetis Ther apeutics VNV Globa

Members of the Pareto Group provide market making or other liquidity providing services to the following companies included in Pareto Securities AB's research coverage universe:

Africa Energy Corp ByggPartner i Dalarna Holding Implantica Mentice AB SciBase Holding Signup Software Tethys Oil Isof ol Medical Sedana Medical VEF Linkfire

Members of the Pareto Group have entered into agreements concerning the inclusion of the company in question in Pareto Securities AB's research coverage universe with the following

Member of the Pareto Group is providing Business Management services to the following companies

Aar haus Residentials Denmark AB Fleming Properties AB Halmslätten Fastighets AB (publ) Korsängen Fastighets AB (publ) Krona Public Real Estate AB Backaheden Fastighets AB Bonäsudden Holding AB (publ) One Publicus Fastighets AB Origa Car e AB (publ) Bor glanda Fastighets AB Preservium Property AB Bosjö Fastigheter AB Logistri Fastighets AB

Members of the Pareto Group have entered into agreements concerning the inclusion of the company in question in Pareto Securities AB's research coverage universe with the following

This overview is updated monthly (last updated 16.09.2022).

Appendix E

Disclosure requirements in accordance with Article 6(1)(c)(i) of Commission Delegated Regulation (EU) 2016/958

Designated Sponsor

Pareto Securities acts as a designated sponsor for the following companies, including the provision of bid and ask offers. Therefore, we regularly possess shares of the company in our proprietary trading books. Pareto Securities receives a commission from the company for the

Heidelber g Phar ma*
Inter shop Communications AG
Leif heit
Logwin*
Manz AG*
MAX Automation SE
Mer kur Bank
MLP* Nor ther n Data AG
OVB Holding AG
Procredit Holding*
PSI SOFT WARE AG*
PWO*
S&T AG*
SMT Scharf AG* 2G Energy * Biotest *
CORESTATE Capital Holding S.A. Dal dr up & Söhne Demire Epigenomics AG* Gesco* Gerry Weber GFT Technologies* MLP * Mühl Produkt & Service AG Surteco Group Syzygy AG * Gigaset * mutares Viscom*

Appendix F

Disclosure requirements in accordance with Article 6(1)(c)(iv) of Commission Delegated Regulation (EU) 2016/958

Sponsored Research

Pareto Securities has entered into an agreement with these companies about the preparation of research reports and - in return - receives compensation.

Gerry Webe BB Biotech Hypoport AG mutares Northern Data AG Inter shop Communications AG CLIQ Digital Dal dr up & Söhne Der maphar m Hol di ng SE Leif heit OHB SE OVB Holding AG Enapter Expres2ion Biotechnologies

This overview is updated monthly (last updated 15.09.2022).

% distribution

^{*} The designated sponsor services include a contract ually agreed provision of research services.