

DSV

Updating EPS accretion and ROCE scenarios in a potential Schenker tie-up

Updating Schenker EBIT post synergies scenarios

Deutsche Bahn launched the sale process of DB Schenker in December ([link](#)). Recent articles ([link](#)) suggest there are 4 bidders left in the race including DSV with the final bids expected in July. We revisit our prior work on EPS accretion scenarios for DSV in a hypothetical tie-up with Schenker ([link](#)) and rebase our synergy scenarios to reflect FY23 DB Schenker results. [Figure 1](#) illustrates our estimates for EPS accretion and ROCE under 12 scenarios. We show the EPS sensitivity for an EV range of €13-20bn. Assuming the transaction would take place towards the middle of the range (€15-17bn) we calculate a potential EPS accretion of 10-18% for DSV ([Figure 2](#), [Figure 3](#)) based on c€1.36bn of incremental EBIT. From our conversations many investors seem cautious on DSV currently and are waiting to see more clarity around the outcome of the tender process.

Framing the synergies scenarios

We update our synergies scenarios in a potential DSV Schenker tie-up and assume a low case with Schenker EBIT post synergies of €1.03bn (vs previously €1.15bn), a mid case of €1.36bn and a high case of €1.71bn (broadly unchanged vs previously €1.38bn/€1.72bn) ([Figure 4](#)). In most of the scenarios, we conclude DSV could generate meaningful EPS accretion. On top, we see further EPS accretion on DSV's current perimeter as we believe operating leverage could further improve DSV Air & Sea EBIT/GP conversion ratio. Our post-synergies EBIT scenarios for Schenker reflect a combination of outcomes having as a starting point DSV consensus EBIT margins in FY25 and Schenker/other logistics names achieved EBIT margins in 2H2023/FY23. Our low case includes limited synergies achievable in Land/Rail/Solutions (together c.56% of Schenker revenues in 2H23). Our interactive model is available upon request.

A doubling of volumes would further increase Air & Sea conversion ratio

Between 2010 and 2023, DSV has increased its Air & Sea EBIT/GP conversion ratio from 32% to 51.5% mainly to reflect operating leverage as volumes have increased by 426% in Air, and by 256% in Ocean. A potential Schenker tie-up could broadly double the air/sea volumes. We believe this would likely further increase the Air & Sea conversion ratio. We calculate that a 2.5% - 5% increase in the conversion ratio would imply an incremental EBIT of DKr 0.55bn-1.12bn. This could translate into an incremental EPS accretion of ~3-6%.

Valuation: trades on ~14x FY25e EV/EBIT, vs historical 17.5x-18.0x, DCF-derived PT of DKr 1,400/sh

Highlights (DKrm)	12/21	12/22	12/23	12/24E	12/25E	12/26E	12/27E	12/28E
Revenues	182,306	235,665	150,785	148,420	156,389	161,777	166,957	172,310
EBIT (UBS)	16,223	25,204	17,723	15,918	17,098	18,071	18,880	19,723
Net earnings (UBS)	11,475	18,309	12,205	11,082	13,397	14,712	15,569	17,273
EPS (UBS, diluted) (DKr)	49.33	79.44	56.63	53.06	67.14	77.14	83.40	92.53
DPS (net) (DKr)	5.50	6.50	7.00	8.07	10.04	11.45	12.28	13.51
Net (debt) / cash	(28,454)	(28,819)	(33,638)	(34,063)	(34,774)	(35,650)	(27,219)	(16,935)
Profitability/valuation	12/21	12/22	12/23	12/24E	12/25E	12/26E	12/27E	12/28E
EBIT (UBS) margin %	8.9	10.7	11.8	10.7	10.9	11.2	11.3	11.4
ROIC (EBIT) %	19.3	24.5	17.2	15.2	16.1	16.9	17.4	18.0
EV/EBITDA (UBS core) x	16.6	10.0	13.4	11.5	10.4	9.5	9.0	8.6
P/E (UBS, diluted) x	28.1	14.3	22.1	19.8	15.7	13.6	12.6	11.4
Equity FCF (UBS) yield %	2.5	8.1	4.2	4.8	5.1	5.2	5.4	5.7
Dividend yield (net) %	0.4	0.6	0.6	0.8	1.0	1.1	1.2	1.3

Source: Company accounts, LSEG Eikon, UBS estimates. Metrics marked as (UBS) have had analyst adjustments applied. Valuations: based on an average share price that year, (E): based on a share price of DKr 1,051.50 on 03-Jun-2024 14:36:23 CEST

Equities		
Denmark		
Trucking		
12-month rating	Buy	
12m price target	DKr1,400.00	
Price (03 Jun 2024)	DKr1,048.5	
RIC: DSV.CO BBG: DSV DC		
Trading data and key metrics		
52-wk range	DKr1,489.00-958.40	
Market cap.	DKr219b/US\$31.9b	
Shares o/s	209m (ORD)	
Free float	96%	
Avg. daily volume ('000)	387	
Avg. daily value (m)	DKr411.4	
Common s/h equity (12/24E)	DKr70.8b	
P/BV (12/24E)	3.0x	
Net debt to EBITDA (12/24E)	1.6x	
EPS (UBS, diluted) (DKr)		
	UBS	Cons.
12/24E	53.06	54.72
12/25E	67.14	62.04
12/26E	77.14	70.38

Cristian Nedelcu, CFA

Analyst
 cristian.nedelcu@ubs.com
 +44-20-7568 4375

Amy Yi Li

Associate Analyst
 amy-yi.li@ubs.com
 +44-20-7568 2064

This report has been prepared by UBS AG London Branch. **ANALYST CERTIFICATION AND REQUIRED DISCLOSURES, INCLUDING INFORMATION ON THE QUANTITATIVE RESEARCH REVIEW PUBLISHED BY UBS, BEGIN ON PAGE 9.** UBS does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.

EPS ACCRETION SCENARIOS

Figure 1: Potential EPS accretion/dilution and post-tax ROCE achievable in our hypothetical scenarios

DB Schenker EBIT post acquisition	Acquisition price	Incremental Net Debt	Incremental Equity	UBS 2025E EPS	Buyback continued		Buyback stopped		Implied EV / EBIT	Net Debt / EBITDA post acquisition	Post-tax ROCE post-acquisition
					Pro-forma EPS post-acquisition	EPS accretion / (dilution)	Pro-forma EPS post-acquisition	EPS accretion / (dilution)			
€ m	€ m	€ m	€ m	DKK	DKK	%	DKK	%			
1,034	13,000	11,000	2,000	66.91	77.83	16.3%	75.83	13.3%	12.6x	3.05x	6.0%
1,364	13,000	11,000	2,000	66.91	86.62	29.5%	84.40	26.1%	9.5x	2.86x	8.0%
1,711	13,000	11,000	2,000	66.91	95.91	43.4%	93.44	39.7%	7.6x	2.68x	10.0%
1,034	15,000	11,000	4,000	66.91	72.46	8.3%	70.72	5.7%	14.5x	3.05x	5.2%
1,364	15,000	11,000	4,000	66.91	80.65	20.5%	78.71	17.6%	11.0x	2.86x	6.9%
1,711	15,000	11,000	4,000	66.91	89.29	33.5%	87.15	30.3%	8.8x	2.68x	8.7%
1,034	17,000	11,000	6,000	66.91	67.78	1.3%	66.26	-1.0%	16.4x	3.05x	4.6%
1,364	17,000	11,000	6,000	66.91	75.44	12.8%	73.74	10.2%	12.5x	2.86x	6.1%
1,711	17,000	11,000	6,000	66.91	83.53	24.8%	81.65	22.0%	9.9x	2.68x	7.7%
1,034	20,000	11,000	9,000	66.91	61.80	-7.6%	60.53	-9.5%	19.3x	3.05x	3.9%
1,364	20,000	11,000	9,000	66.91	68.78	2.8%	67.37	0.7%	14.7x	2.86x	5.2%
1,711	20,000	11,000	9,000	66.91	76.15	13.8%	74.59	11.5%	11.7x	2.68x	6.5%

Source: UBS analysis and estimates.

Figure 2: Illustrative scenario - Calculations on EPS accretion, assuming incremental 2025E EBIT of €1,364m and an acquisition price of €15bn

Incremental Net Income from DB Schenker acquisition (2025E)			
EBIT	€ m	1,364	
Interest expense		440	
Profit before tax		924	
Tax expense		222	
Net income for the period		702	
EBIT	DKK m	10,171	
Interest expense		3,282	
Profit before tax		6,889	
Tax expense		1,653	
Net income for the period		5,235	
Post-synergies EBIT scenario: Mid			
Assumptions:			
Incremental net debt		11,000	
Interest rate		4.0%	
Tax rate		24.0%	
DKK / EUR		7.46	
Shares issued for acquisition			
Acquisition price	€ m	15,000	
Incremental equity issued		4,000	
Shares issued	'000	31,452	
Acquisition price scenario: 2			
Assumptions:			
DSV share price today		1,054 DKK	
		141 €	
Discount on share price		127 €	10.0%
DSV P&L - no acquisition (2025E)			
Net income for the period	DKK m	13,230	
Non-controlling interest		87	
Profit for the period attributable to shareholders		13,143	
Average shares LTM			
Issued and outstanding	'000	196,439	
EPS			
Basic EPS	DKK	66.91	
DSV P&L - acquisition scenario (2025E)			
Net income for the period		18,465	
Non-controlling interest		87	
Profit for the period attributable to shareholders		18,378	
Average shares LTM			
Issued and outstanding	'000	227,891	
EPS			
Basic EPS	DKK	80.65	
EPS accretion / (dilution)			20.5%
Assuming if share buybacks stopped for 2025E:			
Average shares LTM - no buyback			
Issued and outstanding	'000	202,040	
EPS - no buyback			
Basic EPS	DKK	78.71	
EPS accretion / (dilution)			17.6%

Source: Company data, UBS estimates, Refinitiv. DSV share price as of 3rd June 2024. Model available upon request. For Schenker we assume a 24% tax rate as per Deutsche Bahn AR 2023.

Figure 3: Illustrative scenario - Calculations on EPS accretion, assuming incremental 2025E EBIT of €1,364m and an acquisition price of €17bn

Incremental Net Income from DB Schenker acquisition (2025E)			
EBIT	€ m	1,364	
Interest expense		440	
Profit before tax		924	
Tax expense		222	
Net income for the period		702	
EBIT	DKK m	10,171	
Interest expense		3,282	
Profit before tax		6,889	
Tax expense		1,653	
Net income for the period		5,235	
Post-synergies EBIT scenario:			
			Mid
Assumptions:	Incremental net debt	11,000	
	Interest rate	4.0%	
	Tax rate	24.0%	
	DKK / EUR	7.46	
Shares issued for acquisition			
Acquisition price	€ m	17,000	
Incremental equity issued		6,000	
Shares issued	'000	47,178	
Acquisition price scenario:			
			3
Assumptions:	DSV share price today	1,054 DKK	
		141 €	
		127 €	Discount on share price 10.0%
DSV P&L - no acquisition (2025E)			
Net income for the period	DKK m	13,230	
Non-controlling interest		87	
Profit for the period attributable to shareholders		13,143	
Average shares LTM			
Issued and outstanding	'000	196,439	
EPS			
Basic EPS	DKK	66.91	
DSV P&L - acquisition scenario (2025E)			
Net income for the period			18,465
Non-controlling interest			87
Profit for the period attributable to shareholders			18,378
Average shares LTM			
Issued and outstanding	'000		243,617
EPS			
Basic EPS	DKK		75.44
EPS accretion / (dilution)			12.8%
Assuming if share buybacks stopped for 2025E:			
Average shares LTM - no buyback			
Issued and outstanding	'000	202,040	
Average shares LTM - no buyback			
Issued and outstanding	'000		249,218
EPS - no buyback			
Basic EPS	DKK		73.74
EPS accretion / (dilution)			10.2%

Source: Company data, UBS estimates, Refinitiv. DSV share price as of 3rd June 2024. Model available upon request. For Schenker we assume a 24% tax rate as per Deutsche Bahn AR 2023.

Figure 4: Updating the synergy scenarios based on FY23 Schenker results

Implied DB Schenker EBIT post-acquisition in three hypothetical scenarios (€m)			
Scenario	Revenue attrition	EBIT margin	Assumptions
Low	15%		We assume 85% of annualised 2H23 revenue to reflect volume attrition due to customer overlap between DB Schenker and DSV, and EBIT margins in...:
€ 1,034		12%	1) Air and Sea: Schenker achieved 9% EBIT margin in FY22/23 and 4% in FY19
		2%	2) Road: achieved margin in 2023 for DB Schenker was 1.8%
		5%	3) Contract Logistics: achieved margin in 2022 for DB Schenker was 5.2% in 2023 was 7.7%
Mid	10%		We assume 90% of annualised 2H23 DB Schenker revenue and EBIT margins in...:
€ 1,364		13%	1) Air and Sea: achieved margin in 4Q23 for DSV
		4%	2) Road: average of industry peers. We model DSV Road ~5% EBIT margin in FY24, on a standalone basis.
		7%	3) Contract Logistics: average of industry peers. We model DSV EBIT margin ~10% in FY24 standalone.
High	5%		We assume 95% of annualised 2H23 DB Schenker revenue and EBIT margins in...:
€ 1,711		14.0%	1) Air and Sea: assuming increasing contribution margin due to operating leverage. BBG cons 2025 13.5%
		5.5%	2) Road: 2025E Bloomberg consensus for DSV 5.5%
		10.5%	3) Contract Logistics: 2025E Bloomberg consensus for DSV 10.6%

Source: UBS analysis and estimates, Bloomberg. We note Schenker generated EBIT of EUR 1,129m in FY23 - although the annual report flags provision reversals and sales of assets have represented a tailwind to other operating income in Schenker.

DB SCHENKER FINANCIALS

Figure 5: DB Schenker historical financials

DB Schenker Financials (€ mn)	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	1H23	2H23	2023	
Revenues	14,022	14,732	11,292	14,310	14,867	15,389	14,857	14,943	15,451	15,128	16,430	17,050	17,091	17,671	22,939	27,604	10,080	9,047	19,127	
External rev	14,680	11,249	14,257	14,808	14,808	15,335	14,814	14,894	15,390	15,059	16,345	16,973	17,018	17,601	22,853	27,545	10,067	9,037	19,104	
Land transport	6,358	5,086	5,864	5,864	6,376	6,415	6,370	6,362	6,317	6,358	6,608	7,092	7,125	6,716	6,952	7,852	4,103	3,749	7,852	
Air and Ocean	-	7,114	5,051	7,135	6,998	7,227	6,647	6,550	6,753	6,257	6,503	6,734	6,632	8,228	12,963	16,530	4,591	3,944	8,535	
Contract Logistics	-	1,280	1,152	1,310	1,487	1,750	1,641	2,030	2,381	2,514	2,634	2,622	2,734	2,715	2,965	3,195	1,386	1,355	2,741	
Revenues as % of total																				
Land transport		43%	45%	41%	43%	42%	43%	43%	41%	42%	40%	42%	42%	39%	30%	28%	41%	41%	41%	
Air and Ocean		48%	45%	50%	47%	47%	45%	44%	44%	41%	40%	39%	39%	47%	57%	60%	46%	44%	45%	
Contract Logistics		9%	10%	9%	10%	11%	12%	15%	15%	17%	16%	15%	16%	15%	13%	12%	14%	15%	14%	
Gross Margin							32%	33%	34%	36%	34%	35%	36%	35%	32%	31%	40%	42%	41%	
EBITDA Adj	590	551	371	478	572	609	518	520	589	599	676	703	1,082	1,307	1,826	2,512	1,011	898	1,909	
EBITDA Margin	4%	4%	3%	3%	4%	4%	3%	3%	4%	4%	4%	4%	6%	7%	8%	9%	10.0%	9.9%	10.0%	
EBIT Adj	421	381	199	304	403	418	335	332	395	410	477	503	538	711	1,234	1,841	626	503	1,129	
EBIT Margin	3.0%	2.6%	1.8%	2.1%	2.7%	2.7%	2.3%	2.2%	2.6%	2.7%	2.9%	3.0%	3.1%	4.0%	5.4%	6.7%	6.2%	5.6%	5.9%	
D&A	169	170	172	174	169	191	183	188	184	189	199	200	544	596	592	671	385	395	780	
EBIT Contribution (%)																				
Land and Transport		55.6%	54.3%	32.6%	33.5%	33.7%	27.5%	28.9%	25.1%	20.0%	20.0%	25.0%	32.0%	22.0%	8.0%	8.6%	19.5%	3.6%	12.4%	
Air & Ocean		50.5%	38.7%	61.2%	58.1%	60.8%	57.3%	60.8%	64.6%	53.9%	55.0%	51.0%	49.0%	63.0%	83.3%	81.6%	62.1%	75.9%	68.3%	
Contract Logistics		-	9.0%	14.5%	12.4%	11.2%	23.0%	23.8%	26.8%	26.1%	25.0%	18.0%	15.0%	15.0%	8.7%	9.0%	18.2%	19.5%	18.8%	
Others	100.0%	-6.1%	-2.0%	-8.2%	-4.0%	-5.7%	-7.8%	-15.6%	-16.5%	0.0%	0.0%	6.0%	4.0%	0.0%	0.0%	0.8%	0.2%	1.0%	0.9%	
EBIT		381	199	304	403	418	335	332	395	410	477	503	538	711	1,234	1,841	626	503	1,129	
Land and Transport		212	108	99	135	141	92	96	99	62	95	126	172	158	99	158	122	18	140	
Air & Ocean		193	77	186	234	254	192	202	255	221	262	257	264	448	1,028	1,503	389	382	771	
Contract Logistics		-	23	18	44	50	47	77	79	106	107	119	81	105	107	166	114	98	212	
EBIT Margins (%)																				
Land and Transport		3.3%	2.1%	1.7%	2.1%	2.2%	1.4%	1.5%	1.6%	1.3%	1.4%	1.8%	2.4%	2.4%	1.4%	2.0%	3.0%	0.5%	1.8%	
Air & Ocean		2.7%	1.5%	2.6%	3.3%	3.5%	2.9%	3.1%	3.8%	3.5%	4.0%	3.8%	4.0%	5.4%	7.9%	9.1%	8.5%	9.7%	9.0%	
Contract Logistics		1.8%	1.6%	3.4%	3.4%	2.7%	4.2%	3.9%	4.5%	4.3%	4.5%	3.5%	3.0%	3.9%	3.6%	8.2%	7.2%	7.7%	7.7%	
No. of employees FTEs	59,805	62,074	57,134	58,671	62,197	64,199	64,051	64,810	66,327	68,388	71,888	75,817	76,153	74,161	75,418	76,591	75,424	75,418	72,710	
Revenue per employee	235,249	237,330	197,641	243,902	239,031	239,708	231,956	230,566	232,952	221,208	228,550	224,884	224,430	238,279	304,158	360,408	133,644	129,414	263,059	
Gross Capital expenditure	230	231	196	189	246	321	335	240	238	209	246	273	662	817	842	946	324	626	950	
Net Financial debt	na	na	na	414	-171	15	93	454	-28	860	909	847	1,823	1,699	1,025	324	662	296	1,058	
Capital Employed	na	na	na	2,599	2,425	2,684	2,895	2,811	2,589	2,472	2,588	2,490	3,734	3,781	3,804	4,108	4,203	-	85	4,118
Investment grants received	na	na	na	0	0	0	0	0	0	0	0	0	0	0	0	0	-4	4	0	
Employees %																				
Land transport																			33%	
Air and Ocean logistics																			18%	
Contract Logistics																			30%	
Other																			19%	
Volumes																				
Land (000)	69,568	72,805	70,052	80,816	95,836	95,325	95,543	98,867	99,361	99,638	100,452	106,468	107,132	108,166	110,700	102,800	50,500	50,300	100,800	
Air (000)	1,270	1,229	1,032	1,225	1,149	1,095	1,092	1,112	1,128	1,179	1,300	1,304	1,186	1,094	1,438	1,326	571	577	1,148	
Ocean (000 TEU)	1,455	1,454	1,424	1,847	1,783	1,905	1,891	1,983	1,942	2,006	2,169	2,203	2,294	2,052	2,003	1,909	883	900	1,763	
Warehouse (mn m2)							6.2	7.1		7.7	8	8	8.4	8.8	8.4	8.6	na	na	8.5	

Source: Company data from Deutsche Bahn

DSV (DSV.CO)

Income Statement (DKrm)	12/21	12/22	12/23	12/24E	%ch	12/25E	%ch	12/26E	12/27E	12/28E
Revenues	182,306	235,665	150,785	148,420	-1.6	156,389	5.4	161,777	166,957	172,310
Gross profit	37,615	52,149	43,818	41,898	-4.4	43,182	3.1	44,612	45,985	47,431
EBITDA (UBS)	20,417	30,275	22,997	21,567	-6.2	22,780	5.6	23,800	24,684	25,624
Depreciation & amortisation	(4,194)	(5,071)	(5,274)	(5,649)	-7.1	(5,682)	-0.6	(5,729)	(5,804)	(5,900)
EBIT (UBS)	16,223	25,204	17,723	15,918	-10.2	17,098	7.4	18,071	18,880	19,723
Associates & investment income	0	0	0	0	-	0	-	0	0	0
Other non-operating income	0	0	0	0	-	0	-	0	0	0
Net interest	(841)	(866)	(1,233)	(1,242)	-0.7	(136)	89.0	240	403	1,281
Exceptionals (incl goodwill)	(478)	(1,117)	0	0	-	0	-	0	0	0
Pre-tax profit	14,904	23,221	16,490	14,675	-11.0	16,962	15.6	18,312	19,283	21,005
Tax	(3,650)	(5,550)	(4,083)	(3,504)	14.2	(3,732)	-6.5	(3,908)	(4,080)	(4,291)
Profit after tax	11,254	17,671	12,407	11,172	-10.0	13,230	18.4	14,404	15,204	16,714
Preference dividends	0	0	0	0	-	0	-	0	0	0
Minorities	(49)	(103)	(92)	(87)	5.4	(87)	0.0	(87)	(87)	(87)
Extraordinary items	0	0	0	0	-	0	-	0	0	0
Net earnings (local GAAP)	11,205	17,568	12,315	11,085	-10.0	13,143	18.6	14,317	15,117	16,627
Net earnings (UBS)	11,475	18,309	12,205	11,082	-9.2	13,397	20.9	14,712	15,569	17,273
Tax rate (%)	24.5	23.9	24.8	23.9	-3.6	22.0	-7.8	21.3	21.2	20.4
Per Share (DKr)	12/21	12/22	12/23	12/24E	%ch	12/25E	%ch	12/26E	12/27E	12/28E
EPS (UBS, diluted)	49.33	79.44	56.63	53.06	-6.3	67.14	26.5	77.14	83.40	92.53
EPS (local GAAP, diluted)	48.16	76.23	57.14	53.07	-7.1	65.87	24.1	75.07	80.98	89.07
EPS (UBS, basic)	50.44	80.54	57.16	53.57	-6.3	67.82	26.6	77.96	84.30	93.53
DPS (net) (DKr)	5.50	6.50	7.00	8.07	15.3	10.04	24.3	11.45	12.28	13.51
Cash EPS (UBS, diluted) ¹	67.35	101.45	81.10	80.11	-1.2	95.61	19.4	107.18	114.49	124.14
Book value per share	308.76	326.57	328.41	350.12	6.6	379.02	8.3	415.37	485.65	563.28
Average shares (diluted)	233	230	216	209	-3.1	200	-4.5	191	187	187
Balance Sheet (DKrm)	12/21	12/22	12/23	12/24E	%ch	12/25E	%ch	12/26E	12/27E	12/28E
Net tangible fixed assets	19,971	20,978	21,869	23,135	5.8	24,077	4.1	25,139	26,286	27,502
Net intangible fixed assets	76,661	77,674	77,106	77,083	0.0	76,960	-0.2	76,845	76,737	76,636
Investments	0	0	0	803	-	3,285	309.1	6,368	9,691	12,438
Other assets	5,939	5,955	5,761	5,569	-3.3	5,569	0.0	5,569	5,569	5,569
Total fixed assets	102,571	104,607	104,736	106,589	1.8	109,891	3.1	113,921	118,282	122,145
Net working capital	5,024	1,900	3,530	4,358	23.5	4,358	0.0	4,658	4,933	5,208
Cash	8,299	10,160	6,452	9,392	45.6	8,681	-7.6	7,805	16,236	26,520
Short term debt	(7,912)	(4,391)	(5,947)	(7,856)	-32.1	(7,856)	0.0	(7,856)	(7,856)	(7,856)
Long term debt	(28,841)	(34,588)	(34,143)	(35,599)	-4.3	(35,599)	0.0	(35,599)	(35,599)	(35,599)
Preferred shares	0	0	0	0	-	0	-	0	0	0
Net (debt) / cash	(28,454)	(28,819)	(33,638)	(34,063)	-1.3	(34,774)	-2.1	(35,650)	(27,219)	(16,935)
Other debt-deemed liabilities	(908)	(1,183)	(1,281)	(1,218)	4.9	(1,218)	0.0	(1,218)	(1,218)	(1,218)
Provisions & non-debt deemed liabs	(3,955)	(4,764)	(4,381)	(4,473)	-2.1	(4,473)	0.0	(4,473)	(4,473)	(4,473)
Total equity	74,278	71,741	68,966	71,193	3.2	73,783	3.6	77,238	90,305	104,727
Minority interests	(175)	(222)	(263)	(356)	-35.4	(443)	-24.4	(530)	(617)	(704)
Common s/h equity	74,103	71,519	68,703	70,837	3.1	73,340	3.5	76,708	89,688	104,023
Operating invested capital	103,640	101,743	103,885	105,671	1.7	106,491	0.8	107,739	109,051	110,442
Total capital employed	103,640	101,743	103,885	106,474	2.5	109,776	3.1	114,106	118,742	122,880
Cash Flow (DKrm)	12/21	12/22	12/23	12/24E	%ch	12/25E	%ch	12/26E	12/27E	12/28E
EBIT (UBS)	16,223	25,204	17,723	15,918	-10.2	17,098	7.4	18,071	18,880	19,723
Depreciation & amortisation	4,194	5,071	5,274	5,649	7.1	5,682	0.6	5,729	5,804	5,900
Net change in working capital	(4,604)	2,840	826	(517)	-	0	-	(300)	(275)	(275)
Net interest	(785)	(1,149)	(1,076)	(1,322)	-22.9	(1,218)	7.9	(1,442)	(1,520)	(1,466)
Tax paid	(2,263)	(5,178)	(5,589)	(3,529)	36.9	(3,732)	-5.8	(3,908)	(4,080)	(4,291)
Other operating	(563)	58	(700)	66	-	0	-	0	0	0
Operating cash flow	12,202	26,846	16,458	16,265	-1.2	17,830	9.6	18,150	18,810	19,592
Tangible capital expenditure	(3,920)	(4,424)	(4,677)	(5,301)	-13.3	(6,175)	-16.5	(6,339)	(6,494)	(6,656)
Intangible capital expenditure	(303)	(280)	(345)	(310)	10.2	(326)	-5.4	(338)	(348)	(360)
Equity free cash flow	7,979	22,142	11,436	10,655	-6.8	11,328	6.3	11,474	11,968	12,577
Net (acquisitions) & disposals	0	0	0	0	-	0	-	0	0	0
Equity dividends paid	(920)	(1,320)	(1,424)	(1,533)	-7.7	(1,639)	-6.9	(1,950)	(2,137)	(2,292)
Share issues / (buybacks)	(17,057)	(19,695)	(12,203)	(7,621)	37.5	(9,000)	-18.1	(9,000)	0	0
Net other cash flows	1,595	(166)	(840)	(766)	8.8	(1,400)	-82.8	(1,400)	(1,400)	0
Cash flow (inc)/dec in net debt	(8,403)	961	(3,031)	735	-	(711)	-	(876)	8,431	10,285
FX / non cash items	(2,952)	(1,326)	(1,788)	(1,160)	35.1	0	-	0	0	0
Balance sheet (inc)/dec in net debt	(11,355)	(365)	(4,819)	(425)	91.2	(711)	-67.1	(876)	8,431	10,285

Source: Company accounts, UBS estimates. (UBS) metrics use reported figures which have been adjusted by UBS analysts.¹ Cash EPS (UBS, diluted) is calculated using UBS net income adding back depreciation and amortization.

DSV (DSV.CO)

	12/21	12/22	12/23	12/24E	12/25E	12/26E	12/27E	12/28E
Valuation (x)								
P/E (local GAAP, diluted)	28.8	14.9	21.9	19.8	15.9	14.0	12.9	11.8
P/E (UBS, diluted)	28.1	14.3	22.1	19.8	15.6	13.6	12.6	11.3
P/CEPS	20.1	11.0	15.3	13.0	10.9	9.7	9.1	8.4
Equity FCF (UBS) yield %	2.5	8.1	4.2	4.9	5.2	5.2	5.5	5.7
Dividend yield (net) %	0.4	0.6	0.6	0.8	1.0	1.1	1.2	1.3
P/BV	4.5	3.5	3.8	3.0	2.8	2.5	2.2	1.9
EV/revenues (core)	1.9	1.3	2.0	1.7	1.5	1.4	1.3	1.3
EV/EBITDA (UBS core)	16.6	10.0	13.4	11.5	10.4	9.4	9.0	8.6
EV/EBIT (core)	20.9	12.0	17.3	15.5	13.8	12.4	11.7	11.2
EV/OpFCF (core)	17.4	10.4	13.8	11.9	10.8	9.8	9.3	8.9
EV/op. invested capital	4.0	2.9	3.0	2.4	2.2	2.1	2.0	2.0
Enterprise value (DKrm)								
Market cap.	315,573	272,073	274,376	219,346	219,346	219,346	219,346	219,346
Net debt (cash)	22,777	28,637	31,229	33,851	34,419	34,419	34,419	36,560
Buy out of minorities	175	222	263	356	443	530	617	704
Pension provisions/other	908	1,183	1,281	1,218	1,218	1,218	1,218	1,218
Total enterprise value	339,432	302,115	307,148	248,271	239,926	231,013	231,100	233,328
Non core assets	0	0	0	(803)	(3,285)	(6,368)	(9,691)	(12,438)
Core enterprise value	339,432	302,115	307,148	247,468	236,641	224,645	221,409	220,890
Growth (%)								
Revenue	57.3	29.3	(36.0)	(1.6)	5.4	3.4	3.2	3.2
EBITDA (UBS)	50.6	48.3	(24.0)	(6.2)	5.6	4.5	3.7	3.8
EBIT (UBS)	70.4	55.4	(29.7)	(10.2)	7.4	5.7	4.5	4.5
EPS (UBS, diluted)	77.5	61.1	(28.7)	(6.3)	26.5	14.9	8.1	10.9
Net DPS	37.5	18.2	7.7	15.3	24.3	14.1	7.3	10.0
Margins & Profitability (%)								
Gross profit margin	20.6	22.1	29.1	28.2	27.6	27.6	27.5	27.5
EBITDA margin	11.2	12.8	15.3	14.5	14.6	14.7	14.8	14.9
EBIT (UBS) margin	8.9	10.7	11.8	10.7	10.9	11.2	11.3	11.4
Net earnings (UBS) margin	6.3	7.8	8.1	7.5	8.6	9.1	9.3	10.0
ROIC (EBIT)	19.3	24.5	17.2	15.2	16.1	16.9	17.4	18.0
ROIC post tax	14.5	18.6	12.9	11.6	12.8	13.6	14.1	14.9
ROE (UBS)	19.1	25.1	17.4	15.9	18.6	19.6	18.7	17.8
Capital structure & Coverage (x)								
Net debt / EBITDA	1.4	1.0	1.5	1.6	1.5	1.5	1.1	0.7
Net debt / total equity %	38.3	40.2	48.8	47.8	47.1	46.2	30.1	16.2
Net debt / (net debt + total equity) %	27.7	28.7	32.8	32.4	32.0	31.6	23.2	13.9
Net debt/EV %	6.7	9.5	10.2	13.6	14.3	15.2	13.6	9.5
Capex / depreciation %	93.5	87.2	88.7	93.8	108.7	110.6	111.9	112.8
Capex / revenue %	2.2	1.9	3.1	3.6	3.9	3.9	3.9	3.9
EBIT / net interest	19.3	29.1	14.4	12.8	NM	-	-	-
Dividend cover (UBS)	9.2	12.4	8.2	6.6	6.8	6.8	6.9	6.9
Div. payout ratio (UBS) %	10.9	8.1	12.2	15.1	14.8	14.7	14.6	14.4
Revenues by division (DKrm)								
Others	182,306	235,665	150,785	148,420	156,389	161,777	166,957	172,310
Total	182,306	235,665	150,785	148,420	156,389	161,777	166,957	172,310
EBIT (UBS) by division (DKrm)								
Others	16,223	25,204	17,723	15,918	17,098	18,071	18,880	19,723
Total	16,223	25,204	17,723	15,918	17,098	18,071	18,880	19,723

Source: Company accounts, UBS estimates. (UBS) metrics use reported figures which have been adjusted by UBS analysts.

Forecast returns

Forecast price appreciation	33.5%
Forecast dividend yield	0.8%
Forecast stock return	34.3%
Market return assumption	8.3%
Forecast excess return	26.0%

Company Description

Founded in 1976, DSV is a Danish-based global freight forwarding and contract logistics company, with more than 60,000 employees in more than 90 countries. The company is ranked 2nd in Air and 3rd in Sea globally. DSV has grown organically and via acquisitions: DFDS Transport (2000), Frans Maas (2006), ABX Logistics (2008), UTi (2016) and Panalpina (2019). The company has a good geographic diversification with 62% of group revenues generated in EMEA, 21% in Americas and 17% in APAC.

Valuation Method and Risk Statement

Risks for DSV include, but are not limited to, volatility in European road freight volumes as well as in global air and sea freight, significant increases or decreases in freight rates, global and localised GDP/Industrial Production growth, union intervention, regulatory intervention and significant event risk, including mergers and acquisitions. In addition, the negotiations of contracts in third-party logistics are opaque and margin risk is a constant threat as customers as well as competitors erode profitability. All these sources of risk could severely affect DSV and hence might impact on profitability. Our price target is derived using the weighted average of a DCF (WACC 7.4%, long-term growth rate 2.5%) and FY24E EV/EBIT multiples discounted back to today's value.

Quantitative Research Review

UBS Global Research publishes a quantitative assessment of its analysts' responses to certain questions about the likelihood of an occurrence of a number of short term factors in a product known as the 'Quantitative Research Review'. The views for this month can be found below. Views contained in this assessment on a particular stock reflect only the views on those short term factors which are a different timeframe to the 12-month timeframe reflected in any equity rating set out in this note. For previous responses please make reference to (i) previous UBS Global Research reports; and (ii) where no applicable research report was published that month, the Quantitative Research Review which can be found at <https://neo.ubs.com/quantitative>, or contact your UBS sales representative for access to the report or the Quantitative Research Team on qa@ubs.com. A consolidated report which contains all responses is also available and again you should contact your UBS sales representative for details and pricing or the Quantitative Research Team on the email above.

DSV

Question	Response
1. Is the industry structure facing the firm likely to improve or deteriorate over the next six months? Rate on a scale of 1-5 (1 = getting worse, 3 = no change, 5 = getting better, N/A = no view)	3
2. Is the regulatory/government environment facing the firm likely to improve or deteriorate over the next six months? Rate on a scale of 1-5 (1 = getting tougher, 3 = no change, 5 = getting better, N/A = no view)	3
3. Over the last 3-6 months in broad terms have things been improving/no change/getting worse for this stock? Rate on a scale of 1-5 (1 = getting a lot worse, 3 = not much change, 5 = getting a lot better, N/A = no view)	3
4. Relative to the current CONSENSUS EPS forecast, is the next company EPS update likely to lead to: (1 = negative surprise vs consensus, 3 = in-line with consensus, 5 = positive surprise vs consensus expectations, N/A = no view)	3
5. What's driving the difference?	
6. Relative to YOUR current earnings forecast, is there relatively greater risk at the next earnings result of:(1 = downside skew risk to earnings, 3 = equal upside or downside risk to earnings, 5 = upside skew risk to earnings, N/A = no view)	3
7. What's driving the difference?	
8. Is there an upcoming catalyst for the company over the next three months?	No Catalyst
9. Is there an actual or approximate date for the catalyst?	
10. Is the catalyst date an actual or approximate date?	
11. What is the catalyst?	

Required Disclosures

This document has been prepared by UBS AG London Branch, an affiliate of UBS AG. UBS AG, its subsidiaries, branches and affiliates, including Credit Suisse AG and its subsidiaries, branches and affiliates are referred to herein as "UBS".

For information on the ways in which UBS manages conflicts and maintains independence of its UBS Global Research product; historical performance information; certain additional disclosures concerning UBS Global Research recommendations; and terms and conditions for certain third party data used in research report, please visit <https://www.ubs.com/disclosures>. Unless otherwise indicated, information and data in this report are based on company disclosures including but not limited to annual, interim, quarterly reports and other company announcements. The figures contained in performance charts refer to the past; past performance is not a reliable indicator of future results. Additional information will be made available upon request. UBS Securities Co. Limited is licensed to conduct securities investment consultancy businesses by the China Securities Regulatory Commission. UBS acts or may act as principal in the debt securities (or in related derivatives) that may be the subject of this report. This recommendation was finalized on: 03 June 2024 01:06 PM GMT. UBS has designated certain UBS Global Research department members as Derivatives Research Analysts where those department members publish research principally on the analysis of the price or market for a derivative, and provide information reasonably sufficient upon which to base a decision to enter into a derivatives transaction. Where Derivatives Research Analysts co-author research reports with Equity Research Analysts or Economists, the Derivatives Research Analyst is responsible for the derivatives investment views, forecasts, and/or recommendations. **Quantitative Research Review:** UBS Global Research publishes a quantitative assessment of its analysts' responses to certain questions about the likelihood of an occurrence of a number of short term factors in a product known as the 'Quantitative Research Review'. Views contained in this assessment on a particular stock reflect only the views on those short term factors which are a different timeframe to the 12-month timeframe reflected in any equity rating set out in this note. For the latest responses, please see the Quantitative Research Review Addendum at the back of this report, where applicable. For previous responses please make reference to (i) previous UBS Global Research reports; and (ii) where no applicable research report was published that month, the Quantitative Research Review which can be found at <https://neo.ubs.com/quantitative>, or contact your UBS sales representative for access to the report or the Quantitative Research Team on qa@ubs.com. A consolidated report which contains all responses is also available and again you should contact your UBS sales representative for details and pricing or the Quantitative Research team on the email above.

Analyst Certification:

Each research analyst primarily responsible for the content of this research report, in whole or in part, certifies that with respect to each security or issuer that the analyst covered in this report: (1) all of the views expressed accurately reflect his or her personal views about those securities or issuers and were prepared in an independent manner, including with respect to UBS, and (2) no part of his or her compensation was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed by that research analyst in the research report.

UBS Global Research: Global Equity Rating Definitions

12-Month Rating	Definition	Coverage ¹	IB Services ²
Buy	FSR is > 6% above the MRA.	51%	36%
Neutral	FSR is between -6% and 6% of the MRA.	40%	38%
Sell	FSR is > 6% below the MRA.	8%	33%
Short-Term Rating	Definition	Coverage ³	IB Services ⁴
Buy	Stock price expected to rise within three months from the time the rating was assigned because of a specific catalyst or event.	<1%	<1%
Sell	Stock price expected to fall within three months from the time the rating was assigned because of a specific catalyst or event.	<1%	<1%

Source: UBS. Rating allocations are as of 31 March 2024.

1:Percentage of companies under coverage globally within the 12-month rating category.

2:Percentage of companies within the 12-month rating category for which investment banking (IB) services were provided within the past 12 months.

3:Percentage of companies under coverage globally within the Short-Term rating category.

4:Percentage of companies within the Short-Term rating category for which investment banking (IB) services were provided within the past 12 months.

KEY DEFINITIONS: Forecast Stock Return (FSR) is defined as expected percentage price appreciation plus gross dividend yield over the next 12 months. In some cases, this yield may be based on accrued dividends. **Market Return Assumption (MRA)** is defined as the one-year local market interest rate plus 5% (a proxy for, and not a forecast of, the equity risk premium). **Under Review (UR)** Stocks may be flagged as UR by the analyst, indicating that the stock's price target and/or rating are subject to possible change in the near term, usually in response to an event that may affect the investment case or valuation. **Short-Term Ratings** reflect the expected near-term (up to three months) performance of the stock and do not reflect any change in the fundamental view or investment case. **Equity Price Targets** have an investment horizon of 12 months.

EXCEPTIONS AND SPECIAL CASES: UK and European Investment Fund ratings and definitions are: **Buy:** Positive on factors such as structure, management, performance record, discount; **Neutral:** Neutral on factors such as structure, management, performance record, discount; **Sell:** Negative on factors such as structure, management, performance record, discount. **Core Banding Exceptions (CBE):** Exceptions to the standard +/-6% bands may be granted by the Investment Review Committee (IRC). Factors considered by the IRC include the stock's volatility and the credit spread of the respective company's debt. As a result, stocks deemed to be very high or low risk may be subject to higher or lower bands as they relate to the rating. When such exceptions apply, they will be identified in the Company Disclosures table in the relevant research piece.

Research analysts contributing to this report who are employed by any non-US affiliate of UBS Securities LLC are not registered/qualified as research analysts with FINRA. Such analysts may not be associated persons of UBS Securities LLC and therefore are not subject to the FINRA restrictions on communications with a subject company, public appearances, and trading securities held by a research analyst account. The name of each affiliate and analyst employed by that affiliate contributing to this report, if any, follows.

UBS AG London Branch: Amy Yi Li, Cristian Nedelcu, CFA.

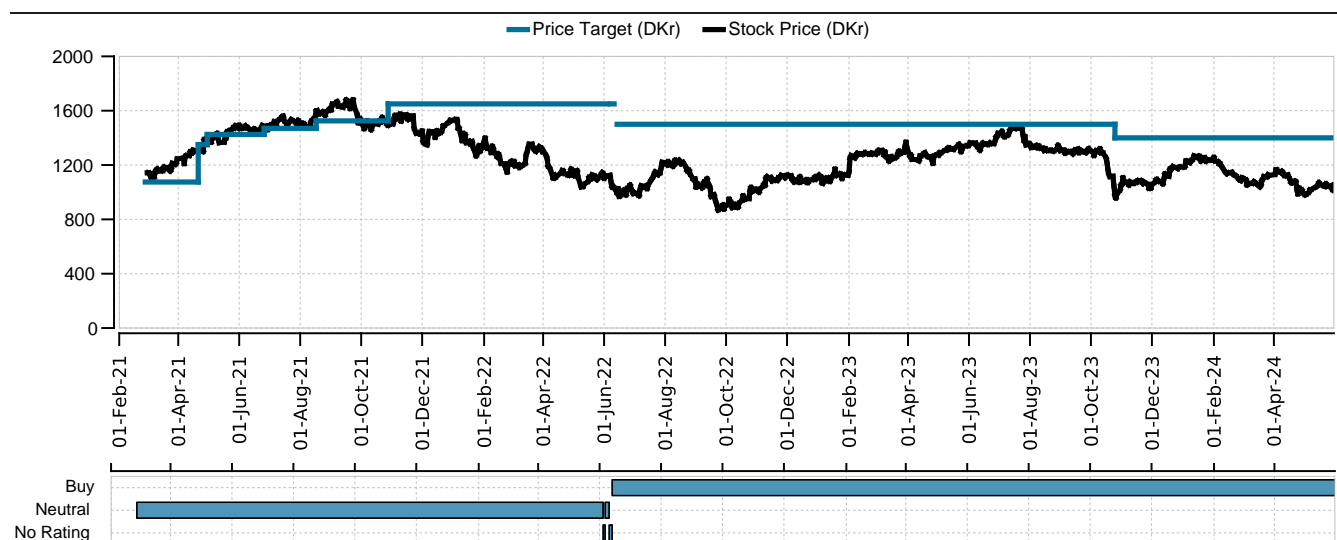
Company Disclosures

Company Name	Reuters	12-month rating	Price	Price date
DSV	DSV.CO	Buy	DKr1,054	31 May 2024

Source: UBS Global Research; LSEG Eikon. All prices as of local market close. Ratings in this table are the most current published ratings prior to this report. They may be more recent than the stock pricing date.

Unless otherwise indicated, please refer to the Valuation and Risk sections within the body of this report. For a complete set of disclosure statements associated with the companies discussed in this report, including information on valuation and risk, please contact UBS Securities LLC, 1285 Avenue of Americas, New York, NY 10019, USA, Attention: Investment Research.

DSV (DKr)



Date	Stock Price (DKr)	Price Target (DKr)	Rating
2021-02-26	1132.00	1075.00	Neutral
2021-04-20	1302.50	1350.00	Neutral
2021-04-29	1379.50	1425.00	Neutral
2021-06-25	1486.00	1470.00	Neutral
2021-08-16	1556.00	1525.00	Neutral
2021-10-27	1498.00	1650.00	Neutral

Date	Stock Price (DKr)	Price Target (DKr)	Rating
2022-06-04	1115.50	-	No Rating
2022-06-06	1115.50	1650.00	Neutral
2022-06-10	1045.00	-	No Rating
2022-06-13	1009.50	1500.00	Buy
2023-10-24	1045.00	1400.00	Buy

Source: UBS Global Research; LSEG Eikon as of 31-May-2024. All prices as of local market close. Ratings as of date shown.

Additional Prices: Kuehne+Nagel, CHF284.60 (09 Feb 2024); A.P. Moller-Maersk, DKr10905.00 (09 Feb 2024); DHL Group, €42.36 (09 Feb 2024); Source: UBS. All prices as of local market close.

The Disclaimer relevant to Global Wealth Management clients follows the Global Research Disclaimer. The Disclaimer relevant to Credit Suisse Wealth Management follows the Global Wealth Management Disclaimer.

UBS Global Research Disclaimer

This document has been prepared by UBS AG London Branch, an affiliate of UBS AG. UBS AG, its subsidiaries, branches and affiliates, including Credit Suisse AG and its subsidiaries, branches and affiliates are referred to herein as "UBS".

Any opinions expressed in this document may change without notice and are only current as of the date of publication. Different areas, groups, and personnel within UBS may produce and distribute separate research products independently of each other. For example, research publications from **UBS CIO** are produced by UBS Global Wealth Management. **UBS Global Research** is produced by UBS Investment Bank. Research methodologies and rating systems of each separate research organization may differ, for example, in terms of investment recommendations, investment horizon, model assumptions, and valuation methods. As a consequence, except for certain economic forecasts (for which UBS CIO and UBS Global Research may collaborate), investment recommendations, ratings, price targets, and valuations provided by each of the separate research organizations may be different, or inconsistent. You should refer to each relevant research product for the details as to their methodologies and rating system. Not all clients may have access to all products from every organization. Each research product is subject to the policies and procedures of the organization that produces it.

This document is provided solely to recipients who are expressly authorized by UBS to receive it. If you are not so authorized you must immediately destroy the document.

UBS Global Research is provided to our clients through UBS Neo, and in certain instances, UBS.com and any other system or distribution method specifically identified in one or more communications distributed through UBS Neo or UBS.com (each a system) as an approved means for distributing UBS Global Research. It may also be made available through third party vendors and distributed by UBS and/or third parties via e-mail or alternative electronic means.

All UBS Global Research is available on UBS Neo. Please contact your UBS sales representative if you wish to discuss your access to UBS Neo. Where UBS Global Research refers to "UBS Evidence Lab Inside" or has made use of data provided by UBS Evidence Lab and you would like to access that data please contact your UBS sales representative. UBS Evidence Lab data is available on UBS Neo. The level and types of services provided by UBS Global Research and UBS Evidence Lab to a client may vary depending upon various factors such as a client's individual preferences as to the frequency and manner of receiving communications, a client's risk profile and investment focus and perspective (e.g., market wide, sector specific, long-term, short-term, etc.), the size and scope of the overall client relationship with UBS Global Research and UBS Evidence Lab and legal and regulatory constraints.

When you receive UBS Global Research through a system, your access and/or use of such UBS Global Research is subject to this UBS Global Research Disclaimer and to the UBS Neo Platform Use Agreement (the "Neo Terms") together with any other relevant terms of use governing the applicable System.

When you receive UBS Global Research via a third party vendor, e-mail or other electronic means, you agree that use shall be subject to this UBS Global Research Disclaimer, the Neo Terms and where applicable the UBS Investment Bank terms of business (<https://www.ubs.com/global/en/investment-bank/regulatory.html>) and to UBS's Terms of Use/Disclaimer (<https://www.ubs.com/global/en/legalinfo2/disclaimer.html>). In addition, you consent to UBS processing your personal data and using cookies in accordance with our Privacy Statement (<https://www.ubs.com/global/en/legalinfo2/privacy.html>) and cookie notice (<https://www.ubs.com/global/en/legal/privacy/users.html>).

If you receive UBS Global Research, whether through a System or by any other means, you agree that you shall not copy, revise, amend, create a derivative work, provide to any third party, or in any way commercially exploit any UBS research provided via UBS Global Research or otherwise, and that you shall not extract data from any research or estimates provided to you via UBS Global Research or otherwise, without the prior written consent of UBS.

In certain circumstances (including for example, if you are an academic or a member of the media) you may receive UBS Global Research otherwise than in the capacity of a client of UBS and you understand and agree that (i) the UBS Global Research is provided to you for information purposes only; (ii) for the purposes of receiving it you are not intended to be and will not be treated as a "client" of UBS for any legal or regulatory purpose; (iii) the UBS Global Research must not be relied on or acted upon for any purpose; and (iv) such content is subject to the relevant disclaimers that follow.

This document is for distribution only as may be permitted by law. It is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation or would subject UBS to any registration or licensing requirement within such jurisdiction.

This document is a general communication and is educational in nature; it is not an advertisement nor is it a solicitation or an offer to buy or sell any financial instruments or to participate in any particular trading strategy. Nothing in this document constitutes a representation that any investment strategy or recommendation is suitable or appropriate to an investor's individual circumstances or otherwise constitutes a personal recommendation. By providing this document, none of UBS or its representatives has any responsibility or authority to provide or have provided investment advice in a fiduciary capacity or otherwise. Investments involve risks, and investors should exercise prudence and their own judgment in making their investment decisions. None of UBS or its representatives is suggesting that the recipient or any other person take a specific course of action or any action at all. The recipient should carefully read this document in its entirety and not draw inferences or conclusions from the rating alone. By receiving this document, the recipient acknowledges and agrees with the intended purpose described above and further disclaims any expectation or belief that the information constitutes investment advice to the recipient or otherwise purports to meet the investment objectives of the recipient. The financial instruments described in the document may not be eligible for sale in all jurisdictions or to certain categories of investors.

Options, structured derivative products and futures (including OTC derivatives) are not suitable for all investors. Trading in these instruments is considered risky and may be appropriate only for sophisticated investors. Prior to buying or selling an option, and for the complete risks relating to options, you must receive a copy of "The Characteristics and Risks of Standardized Options." You may read the document at <https://www.theocc.com/publications/risks/riskchap1.jsp> or ask your salesperson for a copy. Various theoretical explanations of the risks associated with these instruments have been published. Supporting documentation for any claims, comparisons, recommendations, statistics or other technical data will be supplied upon request. Past performance is not necessarily indicative of future results. Transaction costs may be significant in option strategies calling for multiple purchases and sales of options, such as spreads and straddles. Because of the importance of tax considerations to many options transactions, the investor considering options should consult with his/her tax advisor as to how taxes affect the outcome of contemplated options transactions.

Mortgage and asset-backed securities may involve a high degree of risk and may be highly volatile in response to fluctuations in interest rates or other market conditions. Foreign currency rates of exchange may adversely affect the value, price or income of any security or related instrument referred to in the document. For investment advice, trade execution or other enquiries, clients should contact their local sales representative.

The value of any investment or income may go down as well as up, and investors may not get back the full (or any) amount invested. Past performance is not necessarily a guide to future performance. Neither UBS nor any of its directors, employees or agents accepts any liability for any loss (including investment loss) or damage arising out of the use of all or any of the Information.

Prior to making any investment or financial decisions, any recipient of this document or the information should take steps to understand the risk and return of the investment and seek individualized advice from his or her personal financial, legal, tax and other professional advisors that takes into account all the particular facts and circumstances of his or her investment objectives.

Any prices stated in this document are for information purposes only and do not represent valuations for individual securities or other financial instruments. There is no representation that any transaction can or could have been effected at those prices, and any prices do not necessarily reflect UBS's internal books and records or theoretical model-based valuations and may be based on certain assumptions. Different assumptions by UBS or any other source may yield substantially different results.

No representation or warranty, either expressed or implied, is provided in relation to the accuracy, completeness or reliability of the information contained in any materials to which this document relates (the "Information"), except with respect to Information concerning UBS. The Information is not intended to be a complete statement or summary of the securities, markets or developments referred to in the document. UBS does not undertake to update or keep current the Information. Any statements contained in this report attributed to a third party represent UBS's interpretation of the data, information and/or opinions provided by that third party either publicly or through a subscription service, and such use and interpretation have not been reviewed by the third party. In no circumstances may this document or any of the Information (including any forecast, value, index or other calculated amount ("Values")) be used for any of the following purposes:

- (i) valuation or accounting purposes;
- (ii) to determine the amounts due or payable, the price or the value of any financial instrument or financial contract; or
- (iii) to measure the performance of any financial instrument including, without limitation, for the purpose of tracking the return or performance of any Value or of defining the asset allocation of portfolio or of computing performance fees.

By receiving this document and the Information you will be deemed to represent and warrant to UBS that you will not use this document or any of the Information for any of the above purposes or otherwise rely upon this document or any of the Information.

UBS has policies and procedures, which include, without limitation, independence policies and permanent information barriers, that are intended, and upon which UBS relies, to manage potential conflicts of interest and control the flow of information within divisions of UBS and among its subsidiaries, branches and affiliates. For further information on the ways in which UBS Global Research manages conflicts and maintains independence of its research products, historical performance information and certain additional disclosures concerning UBS Global Research recommendations, please visit <https://www.ubs.com/disclosures>.

UBS Global Research will initiate, update and cease coverage solely at the discretion of UBS Global Research Management, which will also have sole discretion on the timing and frequency of any published research product. The analysis contained in this document is based on numerous assumptions. All material information in relation to published research reports, such as valuation methodology, risk statements, underlying assumptions (including sensitivity analysis of those assumptions), ratings history etc. as required by the Market Abuse Regulation, can be found on UBS Neo. Different assumptions could result in materially different results.

The analyst(s) responsible for the preparation of this document may interact with trading desk personnel, sales personnel and other parties for the purpose of gathering, applying and interpreting market information. UBS relies on information barriers to control the flow of information contained in one or more areas within UBS into other areas, units, groups or affiliates of UBS. The compensation of the analyst who prepared this document is determined exclusively by UBS Global Research management and senior management (not including investment banking). Analyst compensation is not based on investment banking revenues; however, compensation may relate to the revenues of UBS and/or its divisions as a whole, of which investment banking, sales and trading are a part, and UBS as a whole.

For financial instruments admitted to trading on an EU regulated market: UBS (excluding UBS Securities LLC) acts as a market maker or liquidity provider (in accordance with the interpretation of these terms under English law or, if not carried out by UBS in the UK the law of the relevant jurisdiction in which UBS determines it carries out the activity) in the financial instruments of the issuer save that where the activity of liquidity provider is carried out in accordance with the definition given to it by the laws and regulations of any other EU jurisdictions, such information is separately disclosed in this document. For financial instruments admitted to trading on a non-EU regulated market: UBS may act as a market maker save that where this activity is carried out in the US in accordance with the definition given to it by the relevant laws and regulations, such activity will be specifically disclosed in this document. UBS may have issued a warrant the value of which is based on one or more of the financial instruments referred to in the document. UBS and its affiliates and employees may have long or short positions, trade as principal and buy and sell in instruments or derivatives identified herein; such transactions or positions may be inconsistent with the opinions expressed in this document.

Within the past 12 months UBS may have received or provided investment services and activities or ancillary services as per MiFID II which may have given rise to a payment or promise of a payment in relation to these services from or to this company.

United Kingdom: This material is distributed by UBS AG, London Branch to persons who are eligible counterparties or professional clients. UBS AG, London Branch is authorised by the Prudential Regulation Authority and subject to regulation by the Financial Conduct Authority and limited regulation by the Prudential Regulation Authority. **Europe:** Except as otherwise specified herein, these materials are distributed by UBS Europe SE, a subsidiary of UBS AG, to persons who are eligible counterparties or professional clients (as detailed in the Bundesanstalt für Finanzdienstleistungsaufsicht (BaFin) Rules and according to MiFID) and are only available to such persons. The information does not apply to, and should not be relied upon by, retail clients. UBS Europe SE is authorised by the European Central Bank (ECB) and regulated by the BaFin and the ECB. **Germany, Luxembourg, the Netherlands, Belgium and Ireland:** Where an analyst of UBS Europe SE has contributed to this document, the document is also deemed to have been prepared by UBS Europe SE. In all cases it is distributed by UBS Europe SE and UBS AG, London Branch. **Turkey:** Distributed by UBS AG, London Branch. No information in this document is provided for the purpose of offering, marketing and sale by any means of any capital market instruments and services in the Republic of Turkey. Therefore, this document may not be considered as an offer made or to be made to residents of the Republic of Turkey. UBS AG, London Branch is not licensed by the Turkish Capital Market Board under the provisions of the Capital Market Law (Law No. 6362). Accordingly, neither this document nor any other offering material related to the instruments/services may be utilized in connection with providing any capital market services to persons within the Republic of Turkey without the prior approval of the Capital Market Board. However, according to article 15 (d) (ii) of the Decree No. 32, there is no restriction on the purchase or sale of the securities abroad by residents of the Republic of Turkey. **Poland:** Distributed by UBS Europe SE (spółka z ograniczoną odpowiedzialnością) Oddział w Polsce regulated by the Polish Financial Supervision Authority. Where an analyst of UBS Europe SE (spółka z ograniczoną odpowiedzialnością) Oddział w Polsce has contributed to this document, the document is also deemed to have been prepared by UBS Europe SE (spółka z ograniczoną odpowiedzialnością) Oddział w Polsce. **Russia:** Prepared and distributed by UBS Bank (OOO). Should not be construed as an individual Investment Recommendation for the purpose of the Russian Law - Federal Law #39-FZ ON THE SECURITIES MARKET Articles 6.1-6.2. **Switzerland:** Distributed by UBS AG to persons who are institutional investors only. UBS AG is regulated by the Swiss Financial Market Supervisory Authority (FINMA). **Italy:** Prepared by UBS Europe SE and distributed by UBS Europe SE, Italy Branch. Where an analyst of UBS Europe SE, Italy Branch has contributed to this document, the document is also deemed to have been prepared by UBS Europe SE, Italy Branch. **France:** Prepared by UBS Europe SE and distributed by UBS Europe SE and UBS Europe SE, France Branch. Where an analyst of UBS Europe SE, France Branch has contributed to this document, the document is also deemed to have been prepared by UBS Europe SE, France Branch. **Spain:** Prepared by UBS Europe SE and distributed by UBS Europe SE and UBS Europe SE, Spain Branch. Where an analyst of UBS Europe SE, Spain Branch has contributed to this document, the document is also deemed to have been prepared by UBS Europe SE, Spain Branch. **Sweden:** Prepared by UBS Europe SE and distributed by UBS Europe SE and UBS Europe SE, Sweden Branch. Where an analyst of UBS Europe SE, Sweden Branch has contributed to this document, the document is also deemed to have been prepared by UBS Europe SE, Sweden Branch. **South Africa:** Distributed by UBS South Africa (Pty) Limited (Registration No. 1995/01 1140/07), an authorised user of the JSE and an authorised Financial Services Provider (FSP 7328). **Saudi Arabia:** This document has been issued by UBS AG (and/or any of its subsidiaries, branches or affiliates), a public company limited by shares, incorporated in Switzerland with its registered offices at Aeschenvorstadt 1, CH-4051 Basel and Bahnhofstrasse 45, CH-8001 Zurich. This publication has been approved by UBS Saudi Arabia (a subsidiary of UBS AG), a Saudi closed joint stock company incorporated in the Kingdom of Saudi Arabia under commercial register number 1010257812 having its registered office at Tatweer Towers, P.O. Box 75724, Riyadh 11588, Kingdom of Saudi Arabia. UBS Saudi Arabia is authorized and regulated by the Capital Market Authority to conduct securities business under license number 08113-37. **UAE / Dubai:** The information distributed by UBS AG Dubai Branch is only intended for Professional Clients and/or Market Counterparties, as classified under the DFSA rulebook. No other person should act upon this material/communication. The information is not for further distribution within the United Arab Emirates. UBS AG Dubai Branch is regulated by the DFSA in the DIFC. UBS Investment Bank is not licensed to provide banking services in the UAE by the Central Bank of the UAE, nor is it licensed by the UAE Securities and Commodities Authority. **Israel:** This Material is distributed by UBS AG, London Branch. UBS Securities Israel Ltd is a licensed Investment Marketer that is supervised by the Israel Securities Authority (ISA). UBS AG, London Branch and its affiliates incorporated outside Israel are not licensed under the Israeli Advisory Law. UBS may engage among others in issuance of Financial Assets or in distribution of Financial Assets of other issuers for fees or other benefits. UBS AG, London Branch and its affiliates may prefer various Financial Assets to which they have or may have an Affiliation (as such term is defined under the Israeli Advisory Law). Nothing in this Material should be considered as investment advice under the Israeli Advisory Law. This Material is being issued only to and/or is directed only at persons who are Eligible Clients within the meaning of the Israeli Advisory Law, and this Material must not be furnished to, relied on or acted upon by any other persons. **United States:** Distributed to US persons by either UBS Securities LLC or by UBS Financial Services Inc., subsidiaries of UBS AG; or by a group, subsidiary or affiliate of UBS AG that is not registered as a US broker-dealer (a 'non-US affiliate') to major US institutional investors only. UBS Securities LLC or UBS Financial Services Inc. accepts responsibility for the content of a report prepared by another non-US affiliate when distributed to US persons by UBS Securities LLC or UBS Financial Services Inc. All transactions by a US person in the securities mentioned in this report must be effected through UBS Securities LLC or UBS Financial Services Inc., and not through a non-US affiliate. UBS Securities LLC is not acting as a municipal advisor to any municipal entity or obligated person within the meaning of Section 15B of the Securities Exchange Act (the "Municipal Advisor Rule"), and the opinions or views contained herein are not intended to be, and do not constitute, advice within the meaning of the Municipal Advisor Rule. **Canada:** Distributed by UBS Securities Canada Inc., a registered investment dealer in Canada and a Member-Canadian Investor Protection Fund, or by another affiliate of UBS AG that is registered to conduct business in Canada or is otherwise exempt from registration. **Brazil:** Except as otherwise specified herein, this Material is prepared by UBS Brasil Corretora de Câmbio, Títulos e Valores Mobiliários S.A. (UBS Brasil CCTVM) to persons who are eligible investors residing in Brazil, which are considered to be Professional Investors (Investidores Profissionais), as designated by the applicable regulation, mainly the CVM Resolution No. 30 from the 11th of May 2021 (determines the duty to verify the suitability of products, services and transactions with regards to the client's profile). UBS Brasil CCTVM is a subsidiary of UBS BB Servicos de Assessoria Financeira e Participacoes S.A. ("UBS BB"). UBS BB is an association between UBS AG and Banco do Brasil (through its subsidiary BB – Banco de Investimentos S.A.), of which UBS AG is the majority owner and which provides investment banking services and coverage in Brazil, Argentina, Chile, Paraguay, Peru and Uruguay. UBS Brasil CCTVM is regulated by the Comissão de Valores Mobiliários (CVM) and by the Central Bank of Brazil. Ombudsman: 0800-940-0266/ <https://www.ubs.com/br/pt/ubsbb-investment-bank/ombudsman.html>. UBS may hold relevant financial and commercial interest in relation to the company subject to this Research report. **Hong Kong:** Distributed by UBS Securities Asia Limited. Please contact local licensed persons of UBS Securities Asia Limited in respect of any matters arising from, or in connection with, the analysis or document. **Singapore:** Distributed by UBS Securities Pte. Ltd. [Co. Reg. No.: 198500648C] or UBS AG, Singapore Branch. Please contact UBS Securities Pte. Ltd., an exempt financial adviser under the Singapore Financial Advisers Act (Cap. 110); or UBS AG, Singapore Branch, an exempt financial adviser under the Singapore Financial Advisers Act (Cap. 110) and a wholesale bank licensed under the Singapore Banking Act (Cap. 19) regulated by the Monetary Authority of Singapore, in respect of any matters arising from, or in connection with, the analysis or document. The recipients of this document represent and warrant that they are accredited and institutional investors as defined in the Securities and Futures Act (Cap. 289). **Japan:** Distributed by UBS Securities Japan Co., Ltd. to professional investors (except as otherwise permitted). Where this report has been prepared by UBS Securities Japan Co., Ltd., UBS Securities Japan Co., Ltd. is the author, publisher and distributor of the report. Distributed by UBS AG, Tokyo Branch to Professional Investors (except as otherwise permitted) in relation to foreign exchange and other banking businesses when relevant. **Australia:** Clients of UBS AG: Distributed by UBS AG (ABN 47 088 129 613 and holder of Australian Financial Services License No. 231087). For all other recipients: Distributed by UBS Securities Australia Ltd (ABN 62 008 586 481 and holder of Australian Financial Services License No. 231098). This document contains general information and/or general advice only and does not constitute personal financial product advice. As such, the Information in this document has been prepared without taking into account any investor's objectives, financial situation or needs, and investors should, before acting on the Information, consider the appropriateness of the Information, having

regard to their objectives, financial situation and needs. If the Information contained in this document relates to the acquisition, or potential acquisition of a particular financial product by a 'Retail' client as defined by section 761G of the Corporations Act 2001 where a Product Disclosure Statement would be required, the retail client should obtain and consider the Product Disclosure Statement relating to the product before making any decision about whether to acquire the product. For clients of Credit Suisse AG, Sydney Branch: Credit Suisse AG, Sydney Branch (ABN 17 061 700 712, AFSL 226896) is a separately licensed, related body corporate of UBS AG, Australia Branch and UBS Securities Australia Ltd. Credit Suisse AG, Sydney Branch has entered into an arrangement with UBS Securities Australia Ltd to allow Credit Suisse AG to provide UBS Global Research to certain Australian domiciled wholesale clients of Credit Suisse AG, Sydney Branch's Wealth Management Division. If you are receiving UBS Global Research from Credit Suisse, Sydney Branch's Wealth Management Division, this UBS Global Research is issued under the license of UBS Securities Australia Limited. All disclosures and disclaimers contained within this document relating to or provided by UBS Securities Australia Ltd also apply to UBS Global Research received by clients of Credit Suisse AG, Sydney Branch's Wealth Management Division.

New Zealand: Distributed by UBS New Zealand Ltd. UBS New Zealand Ltd is not a registered bank in New Zealand. You are being provided with this publication or material because you have indicated to UBS that you are a "wholesale client" within the meaning of section 5C of the Financial Advisers Act 2008 of New Zealand (Permitted Client). This publication or material is not intended for clients who are not Permitted Clients (non-permitted Clients). If you are a non-permitted Client you must not rely on this publication or material. If despite this warning you nevertheless rely on this publication or material, you hereby (i) acknowledge that you may not rely on the content of this publication or material and that any recommendations or opinions in such this publication or material are not made or provided to you, and (ii) to the maximum extent permitted by law (a) indemnify UBS and its associates or related entities (and their respective Directors, officers, agents and Advisors) (each a 'Relevant Person') for any loss, damage, liability or claim any of them may incur or suffer as a result of, or in connection with, your unauthorised reliance on this publication or material and (b) waive any rights or remedies you may have against any Relevant Person for (or in respect of) any loss, damage, liability or claim you may incur or suffer as a result of, or in connection with, your unauthorised reliance on this publication or material. **Korea:** Distributed in Korea by UBS Securities Pte. Ltd., Seoul Branch. This report may have been edited or contributed to from time to time by affiliates of UBS Securities Pte. Ltd., Seoul Branch. This material is intended for professional/institutional clients only and not for distribution to any retail clients. **Malaysia:** This material is authorized to be distributed in Malaysia by UBS Securities Malaysia Sdn. Bhd (Capital Markets Services License No.: CMSL/A0063/2007). This material is intended for professional/institutional clients only and not for distribution to any retail clients. **India:** Distributed by UBS Securities India Private Ltd. (Corporate Identity Number U67120MH1996PTC097299) 2/F, 3 North Avenue, Maker Maxity, Bandra Kurla Complex, Bandra (East), Mumbai (India) 400051. Phone: +912261556000. It provides brokerage services bearing SEBI Registration Number: INZ000259830; and Research Analyst services bearing SEBI Registration Number: INH000001204. Name of Compliance Officer Mr. Parameshwaran Shivaramakrishnan, Phone : +912261556151, Email : parameshwaran.s@ubs.com, Name of Grievance Officer Parameshwaran Shivaramakrishnan, Phone : +912261556151, Email: ol-ubs-sec-compliance@ubs.com Registration granted by SEBI, and certification from NISM in no way guarantee performance of the intermediary or provide any assurance of returns to investors. UBS may have debt holdings or positions in the subject Indian company/companies. UBS may have financial interests (e.g. loan/derivative products, rights to or interests in investments, etc.) in the subject Indian company / companies from time to time. Within the past 12 months, UBS may have received compensation for non-investment banking securities-related services and/or non-securities services from the subject Indian company/companies. The subject company/companies may have been a client/clients of UBS during the 12 months preceding the date of distribution of the research report with respect to investment banking and/or non-investment banking securities-related services and/or non-securities services. With regard to information on associates, please refer to the Annual Report at: https://www.ubs.com/global/en/about_ubs/investor_relations/annualreporting.html **Taiwan:** Except as otherwise specified herein, this material may not be distributed in Taiwan. Information and material on securities/instruments that are traded in a Taiwan organized exchange is deemed to be issued and distributed by UBS Securities Pte. LTD., Taipei Branch, which is licensed and regulated by Taiwan Financial Supervisory Commission. Save for securities/instruments that are traded in a Taiwan organized exchange, this material should not constitute "recommendation" to clients or recipients in Taiwan for the covered companies or any companies mentioned in this document. No portion of the document may be reproduced or quoted by the press or any other person without authorisation from UBS. **Indonesia:** This report is being distributed by PT UBS Sekuritas Indonesia and is delivered by its licensed employee(s), including marketing/sales person, to its client. PT UBS Sekuritas Indonesia, having its registered office at Sequis Tower Level 22 unit 22-1, Jl.Jend. Sudirman, kav.71, SCBD lot 11B, Jakarta 12190. Indonesia, is a subsidiary company of UBS AG and licensed under Capital Market Law no. 8 year 1995, a holder of broker-dealer and underwriter licenses issued by the Capital Market and Financial Institution Supervisory Agency (now Otoritas Jasa Keuangan/OJK). PT UBS Sekuritas Indonesia is also a member of Indonesia Stock Exchange and supervised by Otoritas Jasa Keuangan (OJK). Neither this report nor any copy hereof may be distributed in Indonesia or to any Indonesian citizens except in compliance with applicable Indonesian capital market laws and regulations. This report is not an offer of securities in Indonesia and may not be distributed within the territory of the Republic of Indonesia or to Indonesian citizens in circumstance which constitutes an offering within the meaning of Indonesian capital market laws and regulations.

The disclosures contained in research documents produced by UBS AG, London Branch or UBS Europe SE shall be governed by and construed in accordance with English law.

UBS specifically prohibits the redistribution of this document in whole or in part without the written permission of UBS and in any event UBS accepts no liability whatsoever for any redistribution of this document or its contents or the actions of third parties in this respect. Images may depict objects or elements that are protected by third party copyright, trademarks and other intellectual property rights. © UBS 2024. The key symbol and UBS are among the registered and unregistered trademarks of UBS. All rights reserved.

Global Wealth Management Disclaimer

You receive this document in your capacity as a client of UBS Global Wealth Management. This publication has been distributed to you by UBS Switzerland AG (regulated by FINMA in Switzerland) or its affiliates ("**UBS**") with whom you have a banking relationship with. The full name of the distributing affiliate and its competent authority can be found in the country-specific disclaimer at the end of this document.

The date and time of the first dissemination of this publication is the same as the date and time of its publication.

Risk information:

You agree that you shall not copy, revise, amend, create a derivative work, provide to any third party, or in any way commercially exploit any UBS research, and that you shall not extract data from any research or estimates, without the prior written consent of UBS.

This document is for distribution only as may be permitted by law. It is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation or would subject UBS to any registration or licensing requirement within such jurisdiction.

This document is **for your information only**; it is not an advertisement nor is it a solicitation or an offer to buy or sell any financial instruments or to participate in any particular trading strategy. Nothing in this document constitutes a representation that any investment strategy or recommendation is suitable or appropriate to an investor's individual circumstances or otherwise constitutes a personal recommendation. By providing this document, none of UBS or its representatives has any responsibility or authority to provide or have provided investment advice in a fiduciary capacity or otherwise. Investments involve risks, and investors should exercise prudence and their own judgment in making their investment decisions. None of UBS or its representatives is suggesting that the recipient or any other person take a specific course of action or any action at all. By receiving this document, the recipient acknowledges and agrees with the intended purpose described above and further disclaims any expectation or belief that the information constitutes investment advice to the recipient or otherwise purports to meet the investment objectives of the recipient. The financial instruments described in the document may not be eligible for sale in all jurisdictions or to certain categories of investors.

Options, derivative products and futures are not suitable for all investors, and trading in these instruments is considered risky. Mortgage and asset-backed securities may involve a high degree of risk and may be highly volatile in response to fluctuations in interest rates or other market conditions. Foreign currency rates of exchange may adversely affect the value, price or income of any security or related instrument referred to in the document. For investment advice, trade execution or other enquiries, clients should contact their local sales representative.

The value of any investment or income may go down as well as up, and investors may not get back the full (or any) amount invested. Past performance is not necessarily a guide to future performance. Neither UBS nor any of its directors, employees or agents accepts any liability for any loss (including investment loss) or damage arising out of the use of all or any of the information (as defined below).

Prior to making any investment or financial decisions, any recipient of this document or the information should take steps to understand the risk and return of the investment and seek individualized advice from his or her personal financial, legal, tax and other professional advisors that takes into account all the particular facts and circumstances of his or her investment objectives.

Any prices stated in this document are for information purposes only and do not represent valuations for individual securities or other financial instruments. There is no representation that any transaction can or could have been effected at those prices, and any prices do not necessarily reflect UBS's internal books and records or theoretical model-based valuations and may be based on certain assumptions. Different assumptions by UBS or any other source may yield substantially different results.

No representation or warranty, either expressed or implied, is provided in relation to the accuracy, completeness or reliability of the information contained in any materials to which this document relates (the "Information"), except with respect to Information concerning UBS. The Information is not intended to be a complete statement or summary of the securities, markets or developments referred to in the document. UBS does not undertake to update or keep current the Information. Any opinions expressed in this document may change without notice and may differ or be contrary to opinions expressed by other business areas or groups, personnel or other representative of UBS.

Any statements contained in this report attributed to a third party represent UBS's interpretation of the data, information and/or opinions provided by that third party either publicly or through a subscription service, and such use and interpretation has not been reviewed by the third party. In no circumstances may this document or any of the Information (including any forecast, value, index or other calculated amount ("Values")) be used for any of the following purposes: (i) valuation or accounting purposes; (ii) to determine the amounts due or payable, the price or the value of any financial instrument or financial contract; or (iii) to measure the performance of any financial instrument including, without limitation, for the purpose of tracking the return or performance of any Value or of defining the asset allocation of portfolio or of computing performance fees.

By receiving this document and the Information you will be deemed to represent and warrant to UBS that you will not use this document or any of the Information for any of the above purposes or otherwise rely upon this document or any of the Information.

UBS has policies and procedures, which include, without limitation, independence policies and permanent information barriers, that are intended, and upon which UBS relies, to manage potential conflicts of interest and control the flow of information within divisions of UBS (including between Global Wealth Management and UBS Global Research) and among its subsidiaries, branches and affiliates. For further information on the ways in which UBS manages conflicts and maintains independence of its research products, historical performance information and certain additional disclosures concerning UBS research recommendations, please visit <https://www.ubs.com/research-methodology>.

Research will initiate, update and cease coverage solely at the discretion of research management, which will also have sole discretion on the timing and frequency of any published research product. The analysis contained in this document is based on numerous assumptions. Different assumptions could result in materially different results.

The analyst(s) responsible for the preparation of this document may interact with trading desk personnel, sales personnel and other parties for the purpose of gathering, applying and interpreting market information. UBS relies on information barriers to control the flow of information contained in one or more areas within UBS into other areas, units, groups or affiliates of UBS. The compensation of the analyst who prepared this document is determined exclusively by research management and senior management (not including investment banking). Analyst compensation is not based on investment banking revenues; however, compensation may relate to the revenues of UBS and/or its divisions as a whole, of which investment banking, sales and trading are a part, and UBS's subsidiaries, branches and affiliates as a whole.

For financial instruments admitted to trading on an EU regulated market: UBS AG, its affiliates or subsidiaries (excluding UBS Securities LLC) acts as a market maker or liquidity provider (in accordance with the interpretation of these terms in the UK) in the financial instruments of the issuer save that where the activity of liquidity provider is carried out in accordance with the definition given to it by the laws and regulations of any other EU jurisdictions, such information is separately disclosed in this document. For financial instruments admitted to trading on a non-EU regulated market: UBS may act as a market maker save that where this activity is carried out in the US in accordance with the definition given to it by the relevant laws and regulations, such activity will be specifically disclosed in this document. UBS may have issued a warrant the value of which is based on one or more of the financial instruments referred to in the document. UBS and its affiliates and employees may have long or short positions, trade as principal and buy and sell in instruments or derivatives identified herein; such transactions or positions may be inconsistent with the opinions expressed in this document.

Options and futures are not suitable for all investors, and trading in these instruments is considered risky and may be appropriate only for sophisticated investors. Prior to buying or selling an option, and for the complete risks relating to options, you must receive a copy of "Characteristics and Risks of Standardized Options". You may read the document at <https://www.theocc.com/about/publications/character-risks.jsp> or ask your financial advisor for a copy.

Investing in structured investments involves significant risks. For a detailed discussion of the risks involved in investing in any particular structured investment, you must read the relevant offering materials for that investment. Structured investments are unsecured obligations of a particular issuer with returns linked to the performance of an underlying asset. Depending on the terms of the investment, investors could lose all or a substantial portion of their investment based on the performance of the underlying asset. Investors could also lose their entire investment if the issuer becomes insolvent. UBS does not guarantee in any way the obligations or the financial condition of any issuer or the accuracy of any financial information provided by any issuer. Structured investments are not traditional investments and investing in a structured investment is not equivalent to investing directly in the underlying asset. Structured investments may have limited or no liquidity, and investors should be prepared to hold their investment to maturity. The return of structured investments may be limited by a maximum gain, participation rate or other feature. Structured investments may include call features and, if a structured investment is called early, investors would not earn any further return and may not be able to reinvest in similar investments with similar terms. Structured investments include costs and fees which are generally embedded in the price of the investment. The tax treatment of a structured investment may be complex and may differ from a direct investment in the underlying asset. UBS and its employees do not provide tax advice. Investors should consult their own tax advisor about their own tax situation before investing in any securities.

Important Information About Sustainable Investing Strategies: Sustainable investing strategies aim to consider and incorporate environmental, social and governance (ESG) factors into investment process and portfolio construction. Strategies across geographies approach ESG analysis and incorporate the findings in a variety of ways. Incorporating ESG factors or Sustainable Investing considerations may inhibit the portfolio manager's ability to participate in certain investment opportunities that otherwise would be consistent with its investment objective and other principal investment strategies. The returns on a portfolio incorporating ESG factors or Sustainable Investing considerations may be lower or higher than portfolios where ESG factors, exclusions, or other sustainability issues are not considered by the portfolio manager, and the investment opportunities available to such portfolios may differ.

Within the past 12 months UBS Switzerland AG, its affiliates or subsidiaries may have received or provided investment services and activities or ancillary services as per MiFID II which may have given rise to a payment or promise of a payment in relation to these services from or to this company.

Disclosures: If you require detailed information on disclosures of interest or conflict of interest as required by Market Abuse Regulation please contact the mailbox MAR_disclosure_twopager@ubs.com. Please note that e-mail communication is unsecured.

External Asset Managers / External Financial Consultants: In case this research or publication is provided to an External Asset Manager or an External Financial Consultant, UBS expressly prohibits that it is redistributed by the External Asset Manager or the External Financial Consultant and is made available to their clients and/or third parties.

Australia: This document is provided by UBS Switzerland AG. UBS Switzerland AG does not hold an Australian Financial Services Licence (AFSL) and relies on an exemption to provide financial services to persons in Australia. This document is intended only for distribution to wholesale clients under the Corporations Act 2001 (Cth). UBS Switzerland AG is a related body corporate of UBS AG, Australia Branch and UBS Securities Australia Limited. This document may be distributed to clients by those entities, but it is provided by UBS Switzerland AG and is not provided under any of the other entities' AFSL. The information in this document is general in nature and is not intended to address the objectives, financial situation or needs of any particular individual or entity. Each recipient should consider their own objectives, financial situation or needs before acting on the advice and obtain the relevant Product Disclosure Statement (if required) before making any decision whether to acquire any product. In Australia, UBS entities, other than UBS AG, Australia Branch, are not authorized deposit-taking institutions for the purposes of the Banking Act 1959 (Cth.) and their obligations do not represent deposits or other liabilities of UBS AG, Australia Branch. UBS AG, Australia Branch does not guarantee or otherwise provide assurance in respect of the obligations of such UBS entities or the funds. An investor is exposed to investment risk including possible delays in repayment and loss of income and principal invested, as relevant. If you do not wish to receive marketing materials from UBS, please contact your UBS representative or the contact details listed in the Australia Privacy Notice: <https://www.ubs.com/global/en/legal/privacy.html>. Your personal data will be processed in accordance with this notice. **Bahrain:** This report is distributed by UBS AG, Bahrain Branch, authorized and regulated by the Central Bank of Bahrain (CBB) as an Investment Firm Category 2. Related financial services or products are only made available to professional clients and Accredited Investors, as defined by the CBB, and are not intended for any other persons. CBB has not reviewed, nor has it approved, this document or the marketing of any investment vehicle referred to herein in the Kingdom of Bahrain and is not responsible for the performance of any such investment vehicle. UBS AG, Bahrain Branch is located at Level 21, East Tower, Bahrain World Trade Centre, Manama, Kingdom of Bahrain. **Brazil:** This report is only intended for Brazilian residents who are directly purchasing or selling securities in the Brazil capital market through a local authorized institution. **Canada:** The information contained herein is not, and under no circumstances is to be construed as, a prospectus, an advertisement, a public offering, an offer to sell securities described herein, solicitation of an offer to buy securities described herein, in Canada or any province or territory thereof. Any offer or sale of the securities described herein in Canada 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 and is not tailored to the needs of the recipient. To the extent that the information contained herein references securities of an issuer incorporated, formed or created under the laws of Canada or a province or territory of Canada, any trades in such securities must be conducted through a dealer registered in Canada or, alternatively, pursuant to a dealer registration exemption. No securities commission or similar regulatory authority in Canada has reviewed or in any way passed upon these materials, the information contained herein or the merits of the securities described herein and any representation to the contrary is an offence. In Canada, this publication is distributed by UBS Investment Management Canada Inc. **China:** This report and any offering material such as term sheet, research report, other product or service documentation or any other information (the "Material") sent with this report was done so as a result of a request received by UBS from you and/or persons entitled to make the request on your behalf. Should you have received the material erroneously, UBS asks that you kindly delete it and inform UBS immediately. This report is prepared by UBS Switzerland AG or its offshore subsidiary or affiliate (collectively as "UBS Offshore"). UBS Offshore is an entity incorporated out of China and is not licensed, supervised or regulated in China to carry out banking or securities business. The recipient should not contact the analysts or UBS Offshore which produced this report for advice as they are not licensed to provide securities investment advice in China. UBS Investment Bank (including Research) has its own wholly independent research and views which at times may vary from the views of UBS Global Wealth Management. The recipient should not use this document or otherwise rely on any of the information contained in this report in making investment decisions and UBS takes no responsibility in this regard. **Czech Republic:** UBS is not a licensed bank in the Czech Republic and thus is not allowed to provide regulated banking or investment services in the Czech Republic. This

communication and/or material is distributed for marketing purposes and constitutes a "Commercial Message" under the laws of Czech Republic in relation to banking and/or investment services. Please notify UBS if you do not wish to receive any further correspondence. **Denmark:** This publication is not intended to constitute a public offer under Danish law. It is distributed only for information purposes to clients of UBS Europe SE, Denmark Branch, filial af UBS Europe SE, with place of business at Sankt Annæ Plads 13, 1250 Copenhagen, Denmark, registered with the Danish Commerce and Companies Agency, under No. 38 17 24 33. UBS Europe SE, Denmark Branch, filial af UBS Europe SE is subject to the joint supervision of the European Central Bank, the German Central Bank (Deutsche Bundesbank), the German Federal Financial Services Supervisory Authority (Bundesanstalt für Finanzdienstleistungsaufsicht, "BaFin"), as well as of the Danish Financial Supervisory Authority (Finanstilsynet), to which this publication has not been submitted for approval. UBS Europe SE is a credit institution constituted under German law in the form of a Societas Europaea, duly authorized by BaFin. **Egypt:** Securities or other investment products are not being offered or sold by UBS to the public in Egypt and they have not been and will not be registered with the Egyptian Financial Regulatory Authority (FRA). **France:** This publication is not intended to constitute a public offer under French law, it does not constitute a personal recommendation as it is distributed only for information purposes to clients of UBS Europe SE Succursale de France (a branch of UBS Europe SE), having its registered office at 69 boulevard Haussmann 75008 Paris, registered with the "Registre du Commerce et des Sociétés" of Paris under N°844 425 629. UBS Europe SE Succursale de France is subject to the joint supervision of the European Central Bank, the German Central Bank (Deutsche Bundesbank), the German Federal Financial Services Supervisory Authority (Bundesanstalt für Finanzdienstleistungsaufsicht, "BaFin"), as well as of the French "Autorité de contrôle prudentiel et de résolution" and "Autorité des marchés financiers", to which this publication has not been submitted for approval. UBS Europe SE is a credit institution constituted under German law in the form of a Societas Europaea, duly authorized by BaFin. **Germany:** This publication is not intended to constitute a public offer under German law. It is distributed only for information purposes to clients of UBS Europe SE, Germany, with place of business at Bockenheimer Landstrasse 2-4, 60306 Frankfurt am Main. UBS Europe SE is a credit institution constituted under German law in the form of a Societas Europaea, duly authorized by the German Federal Financial Services Supervisory Authority (Bundesanstalt für Finanzdienstleistungsaufsicht, "BaFin") and supervised jointly by the European Central Bank, the German Central Bank (Deutsche Bundesbank) and BaFin, to which this publication has not been submitted for approval. **Hong Kong SAR:** This publication is distributed to clients of UBS AG Hong Kong Branch by UBS AG Hong Kong Branch, a licensed bank under the Hong Kong Banking Ordinance and a registered institution under the Securities and Futures Ordinance. UBS AG Hong Kong Branch is incorporated in Switzerland with limited liability. **India:** Distributed by UBS Securities India Private Ltd. (Corporate Identity Number U67120MH1996PTC097299) 2/F, 3 North Avenue, Maker Maxity, Bandra Kurla Complex, Bandra (East), Mumbai (India) 400051. Phone: +912261556000. It provides brokerage services bearing SEBI Registration Number INZ000259830 and Research Analyst services bearing SEBI Registration Number: INH000001204. Name of Compliance Officer Mr. Parameshwaran Shivaramkrishnan, Phone: +912261556151, Email: parameshwaran.s@ubs.com, Name of Grievance Officer Mr. Parameshwaran Shivaramkrishnan, Phone: +912261556151, Email: ol-ubs-sec-compliance@ubs.com. Registration granted by SEBI and certification from NISM in no way guarantee performance of the intermediary or provide any assurance of returns to investors. UBS AG, its affiliates or subsidiaries may have debt holdings or positions in the subject Indian company/companies. UBS AG, its affiliates or subsidiaries may have financial interests (e.g. like loan/derivative products, rights to or interests in investments, etc.) in the subject Indian company/companies from time to time. Within the past 12 months, UBS AG, its affiliates or subsidiaries may have received compensation for non-investment banking securities-related services and/or non-securities services from the subject Indian company/companies. The subject company/companies may have been a client/clients of UBS AG, its affiliates or subsidiaries during the 12 months preceding the date of distribution of the research report with respect to investment banking and/or non-investment banking securities-related services and/or non-securities services. With regard to information on associates, please refer to the Annual Report at: https://www.ubs.com/global/en/about_ubs/investor_relations/annualreporting.html. **Indonesia:** This communication and any offering material term sheet, research report, other product or service documentation or any other information (the "Material") sent with this communication was done so as a result of a request received by UBS from you and/or persons entitled to make the request on your behalf. Should you have received the Material erroneously, UBS asks that you kindly delete the e-mail and inform UBS immediately. The Material, where provided, was provided for your information only and is not to be further distributed without the consent of UBS. None of the Material has been registered or filed under the prevailing laws and with any financial or regulatory authority in your jurisdiction. The Material may not have been approved, disapproved, endorsed, registered or filed with any financial or regulatory authority in your jurisdiction. UBS has not, by virtue of the Material, made available, issued any invitation to subscribe for or to purchase any investment (including securities or products or futures contracts). The Material is neither an offer nor a solicitation to enter into any transaction or contract (including futures contracts) nor is it an offer to buy or to sell any securities or products. The relevant investments will be subject to restrictions and obligations on transfer as set forth in the Material, and by receiving the Material you undertake to comply fully with such restrictions and obligations. You should carefully study and ensure that you understand and exercise due care and discretion in considering your investment objective, risk appetite and personal circumstances against the risk of the investment. You are advised to seek independent professional advice in case of doubt. Any and all advice provided on and/or trades executed by UBS pursuant to the Material will only have been provided upon your specific request or executed upon your specific instructions, as the case may be, and may be deemed as such by UBS and you. **Israel:** UBS is a premier global financial firm offering wealth management, asset management and investment banking services from its headquarters in Switzerland and its operations in over 50 countries worldwide to individual, corporate and institutional investors. This publication is intended for information only and is not intended as an offer to buy or solicitation of an offer. Furthermore, this publication is not intended as an investment advice. Nothing contrary to the above, no action has been, or will be, taken in Israel that would permit an offering of the product(s) mentioned in this document or a distribution of this document to the public in Israel. In particular, this document has not been reviewed or approved by the Israeli Securities Authority. The product(s) mentioned in this document is/are being offered to a limited number of sophisticated investors who qualify as one of the investors listed in the first supplement to the Israeli Securities Law, 5728-1968. This document may not be reproduced or used for any other purpose, nor be furnished to any other person other than those to whom copies have been sent. Anyone who purchases the product(s) mentioned herein shall do so for their own benefit and for its own account and not with the aim or intention of distributing or offering the product(s) to other parties. Anyone who purchases the product(s) shall do so in accordance with its own understanding and discretion and after it has received any relevant financial, legal, business, tax or other advice or opinion required by it in connection with such purchase(s). The word "advice" and/or any of its equivalent terms shall be read and construed in conjunction with the definition of the term "investment marketing" as defined under the Israeli Regulation of Investment Advice, Investment Marketing and Portfolio Management Law. The Swiss laws and regulations require a number of mandatory disclosures to be made in independent financial research reports or recommendations. Pursuant to the Swiss Financial Market Infrastructure Act and the Financial Market Infrastructure Ordinance-FINMA, banks must disclose the percentage of voting rights they hold in companies being researched, if these holdings are equal to or exceed the statutory thresholds. In addition, the Directives on the Independence of Financial Research, issued by the Swiss Bankers Association, mandate a number of disclosures, including the disclosure of potential conflicts of interest, the participation within previous 12 months in any securities issues on behalf of the company being researched, as well as the fact that remuneration paid to the financial analysts is based generally upon the performance of (i) the new issues department or investment banking; or (ii) securities trading performance (including proprietary trading) or sales. **Italy:** This publication is not intended to constitute a public offer under Italian law. It is distributed only for information purposes to clients of UBS Europe SE, Succursale Italia, with place of business at Via del Vecchio Politecnico, 3-20121 Milano. UBS Europe SE, Succursale Italia is subject to the joint supervision of the European Central Bank, the German Central Bank (Deutsche Bundesbank), the German Federal Financial Services Supervisory Authority (Bundesanstalt für Finanzdienstleistungsaufsicht, "BaFin"), as well as of the Bank of Italy (Banca d'Italia) and the Italian Financial Markets Supervisory Authority (CONSOB - Commissione Nazionale per le Società e la Borsa), to which this publication has not been submitted for approval. UBS Europe SE is a credit institution constituted under German law in the form of a Societas Europaea, duly authorized by BaFin. **Jersey:** UBS AG, Jersey Branch, is regulated and authorized by the Jersey Financial Services Commission for the conduct of banking, funds and investment business. Where services are provided from outside Jersey, they will not be covered by the Jersey regulatory regime. UBS AG, Jersey Branch is a branch of UBS AG a public company limited by shares, incorporated in Switzerland whose registered offices are at Aeschenvorstadt 1, CH-4051 Basel and Bahnhofstrasse 45, CH 8001 Zurich. UBS AG, Jersey Branch's principal place of business is 1, IFC Jersey, St Helier, Jersey, JE2 3BX. **Luxembourg:** This publication is not intended to constitute a public offer under Luxembourg law. It is distributed only for information purposes to clients of UBS Europe SE, Luxembourg Branch ("UBS Luxembourg"), R.C.S. Luxembourg n° B209123, with registered office at 33A, Avenue J. F. Kennedy, L-1855 Luxembourg. UBS Europe SE is a credit institution constituted under German law in the form of a Societas Europaea (HRB n° 107046), with registered office at Bockenheimer Landstrasse 2-4, D-60306 Frankfurt am Main, Germany, duly authorized by the German Federal Financial Services Supervisory Authority (Bundesanstalt für Finanzdienstleistungsaufsicht, "BaFin") and subject to the joint prudential supervision of BaFin, the European Central Bank and the central bank of Germany (Deutsche Bundesbank). UBS Luxembourg is furthermore supervised by the Luxembourg prudential supervisory authority (Commission de Surveillance du Secteur Financier), in its role as host member state authority. This publication has not been submitted for approval to any public supervisory authority. **Malaysia:** This communication and any offering material term sheet, research report, other product or service documentation or any other information (the "Material") sent with this communication was done so as a result of a request received by UBS from you and/or persons entitled to make the request on your behalf. Should you have received the Material erroneously, UBS asks that you kindly delete the e-mail and inform UBS immediately. The Material, where provided, was provided for your information only and is not to be further distributed in whole or in part in or into your jurisdiction without the consent of UBS. The Material may not have been reviewed, approved, disapproved, endorsed, registered or filed with any financial or regulatory authority in your jurisdiction. UBS has not, by virtue of the Material, made available, issued any invitation to subscribe for or to purchase any investment (including securities or derivatives products). The Material is neither an offer nor a solicitation to enter into any transaction or contract (including future contracts) nor is it an offer to buy or to sell any securities or derivatives products. The relevant investments will be subject to restrictions and obligations on transfer as set forth in the Material, and by receiving the Material you undertake to comply fully with such restrictions and obligations. You should carefully study and ensure that you understand and exercise due care and discretion in considering your investment objective, risk appetite and personal circumstances against the risk of the investment. You are advised to seek independent professional advice in case of doubt. Any and all advice provided on and/or trades executed by UBS pursuant to the Material will only have been provided upon your specific request or executed upon your specific instructions, as the case may be, and may be deemed as such by UBS and you. **Mexico:** This information is distributed by UBS Asesores México, S.A. de C.V. ("UBS Asesores"), an affiliate of UBS Switzerland AG, incorporated as a non-independent investment advisor under the Mexican regulation due to the relation with a Foreign Bank. UBS Asesores is registered under number 30060-001-(14115)-21/06/2016 and subject to the supervision of the Mexican Banking and Securities Commission ("CNBV") exclusively regarding the rendering of (i) portfolio management services, (ii) securities investment advisory services, analysis and issuance of individual investment recommendations, and (iii) anti-money laundering and terrorism financing matters. This UBS publication or any material related thereto is addressed only to Sophisticated or Institutional Investors located in Mexico. Research reports only reflect the views of the analysts responsible for the report. The compensation of the analyst(s) who prepared this report is determined

exclusively by research management and senior management of any entity of UBS Group to which such analyst(s) render(s) services. **Monaco:** This document is not intended to constitute a public offering or a comparable solicitation under the Principality of Monaco laws, but might be made available for information purposes to clients of UBS (Monaco) S.A., a regulated bank having its registered office at 2 avenue de Grande Bretagne 98000 Monaco operating under a banking license granted by the "Autorité de Contrôle Prudentiel et de Résolution" (ACPR) and the Monegasque government which authorizes the provision of banking services in Monaco. UBS (Monaco) S.A. is also licensed by the "Commission de Contrôle des Activités Financières" (CCAF) to provide investment services in Monaco. The latter has not approved this publication. **Nigeria:** The investment products mentioned in this material are not being offered or sold by UBS to the public in Nigeria and they have not been submitted for approval nor registered with the Securities and Exchange Commission of Nigeria. If you are interested in products of this nature, please let us know. The investment products mentioned in this material are not being directed to, and are not being made available for subscription by any persons within Nigeria other than the selected investors to whom the offer materials have been addressed as a private sale or domestic concern within the exemption and meaning of Section 69(2) of the Investments and Securities Act, 2007 (ISA). This material has been provided to you at your specific unsolicited request and for your information only. **Philippines:** This communication was done so as a result of a request received by UBS from you and/or persons entitled to make the request on your behalf. Should you have received the Material erroneously, UBS asks that you kindly delete the e-mail and inform UBS immediately. The Material, where provided, was provided for your information only and is not to be further distributed in whole or in part in or into your jurisdiction without the consent of UBS. The Material may not have been reviewed, approved, disapproved, endorsed, registered or filed with any financial or regulatory authority in your jurisdiction. UBS has not, by virtue of the Material, made available, issued any invitation to subscribe for or to purchase any investment (including securities or derivatives products). The Material is neither an offer nor a solicitation to enter into any transaction or contract (including future contracts) nor is it an offer to buy or to sell any securities or derivatives products. The relevant investments will be subject to restrictions and obligations on transfer as set forth in the Material, and by receiving the Material you undertake to comply fully with such restrictions and obligations. You should carefully study and ensure that you understand and exercise due care and discretion in considering your investment objective, risk appetite and personal circumstances against the risk of the investment. You are advised to seek independent professional advice in case of doubt. Any and all advice provided on and/or trades executed by UBS pursuant to the Material will only have been provided upon your specific request or executed upon your specific instructions, as the case may be, and may be deemed as such by UBS and you. **Portugal:** UBS Switzerland AG is not licensed to conduct banking and financial activities in Portugal nor is UBS Switzerland AG supervised by the Portuguese regulators (Bank of Portugal "Banco de Portugal" and Portuguese Securities Exchange Commission "Comissão do Mercado de Valores Mobiliários"). **Qatar:** UBS Qatar LLC is authorized by the Qatar Financial Centre Regulatory Authority, with QFC no. 01169, and has its registered office at 14th Floor, Burj Alfardan Tower, Building 157, Street No. 301, Area No. 69, Al Majdumi, Lusail, Qatar. UBS Qatar LLC neither offers any brokerage services nor executes any order with, for or on behalf of its clients. A client order will have to be placed with, and executed by, UBS Switzerland AG in Switzerland or an affiliate of UBS Switzerland AG, that is domiciled outside Qatar. It is in the sole discretion of UBS Switzerland AG in Switzerland or its affiliate to accept or reject an order and UBS Qatar LLC does not have authority to provide a confirmation in this respect. UBS Qatar LLC may however communicate payment orders and investment instructions to UBS Switzerland AG in Switzerland for receipt, acceptance and execution. UBS Qatar LLC is not authorized to act for and on behalf of UBS Switzerland AG or an affiliate of UBS Switzerland AG. This document and any attachments hereto are intended for eligible counterparties and business customers only. **Russia:** This document or information contained therein is for information purposes only and constitutes neither a public nor a private offering, is not an invitation to make offers, to sell, exchange or otherwise transfer any financial instruments in the Russian Federation to or for the benefit of any Russian person or entity and does not constitute an advertisement or offering of securities in the Russian Federation within the meaning of Russian securities laws. The information contained herein is not an "individual investment recommendation" as defined in Federal Law of 22 April 1996 No 39-FZ "On Securities Market" (as amended) and the financial instruments and operations specified herein may not be suitable for your investment profile or your investment goals or expectations. The determination of whether or not such financial instruments and operations are in your interests or are suitable for your investment goals, investment horizon or the acceptable risk level is your responsibility. We assume no liability for any losses connected with making any such operations or investing into any such financial instruments and we do not recommend to use such information as the only source of information for making an investment decision. **Saudi Arabia:** UBS Saudi Arabia is authorised and regulated by the Capital Market Authority to conduct securities business under licence number 08113-37. **Singapore:** Where applicable, this material is distributed in Singapore by UBS AG, Singapore Branch, which is licensed by the Monetary Authority of Singapore under the Banking Act 1970 to carry on banking business. UBS AG is incorporated in Switzerland with limited liability. UBS AG has a branch registered in Singapore (UEN S98FC5560C). This material has been prepared and issued for distribution in Singapore to institutional investors, accredited investors and expert investors (each as defined under the Financial Advisers Regulations (the "FAR")) only. By virtue of your status as an institutional investor, accredited investor, or expert investor, UBS AG is exempted from complying with certain requirements under the Financial Advisers Act 2001 (the "FAA"), the FAR and the relevant Notices and Guidelines issued thereunder, in respect of any financial advisory service which UBS AG may provide to you. These include exemptions from complying with: Section 34 of the FAA (pursuant to Regulation 33(1) of the FAR); Section 36 of the FAA (pursuant to Regulation 34(1) of the FAR); and Section 45 of the FAA (pursuant to Regulation 35(1) of the FAR). Singapore recipients and clients of UBS AG, Singapore Branch should contact UBS AG, Singapore Branch for any matters arising from, or in connection with, this material. Where applicable, this communication and any offering material term sheet, research report, other product or service documentation or any other information (the "Material") sent with this communication was done so as a result of a request received by UBS from you and/or persons entitled to make the request on your behalf. Should you have received the Material erroneously, UBS asks that you kindly delete the e-mail and inform UBS immediately. The Material, where provided, was provided for your information only and is not to be further distributed in whole or in part in or into your jurisdiction without the consent of UBS. The Material may not have been reviewed, approved, disapproved or endorsed by any financial or regulatory authority in your jurisdiction. UBS has not, by virtue of the Material, made available, issued any invitation to subscribe for or to purchase any investment (including securities or products or futures contracts). The Material is neither an offer nor a solicitation to enter into any transaction or contract (including future contracts) nor is it an offer to buy or to sell any securities or products. The relevant investments will be subject to restrictions and obligations on transfer as set forth in the Material, and by receiving the Material you undertake to comply fully with such restrictions and obligations. You should carefully study and ensure that you understand and exercise due care and discretion in considering your investment objective, risk appetite and personal circumstances against the risk of the investment. You are advised to seek independent professional advice in case of doubt. Any and all advice provided on and/or trades executed by UBS pursuant to the Material will only have been provided upon your specific request or executed upon your specific instructions, as the case may be, and may be deemed as such by UBS and you. **Spain:** This report is distributed in Spain by UBS AG, Sucursal en España, authorized under number 1460 in the Register by the Banco de España. **Sweden:** This publication is not intended to constitute a public offer under Swedish law. It is distributed only for information purposes to clients of UBS Europe SE, Sweden Bankfilial, with place of business at Regeringsgatan 38, 11153 Stockholm, Sweden, registered with the Swedish Companies Registration Office under Reg. No 516406-1011. UBS Europe SE, Sweden Bankfilial is subject to the joint supervision of the European Central Bank, the German Central Bank (Deutsche Bundesbank), the German Federal Financial Services Supervisory Authority (Bundesanstalt für Finanzdienstleistungsaufsicht, "BaFin"), as well as of the Swedish supervisory authority (Finansinspektionen), to which this publication has not been submitted for approval. UBS Europe SE is a credit institution constituted under German law in the form of a Societas Europaea, duly authorized by BaFin. **Taiwan:** This material is provided by UBS AG, Taipei Branch in accordance with laws of Taiwan, in agreement with or at the request of clients/prospects. **Thailand:** This communication and any offering material, term sheet, research report, other product or service documentation or any other information (the "Material") sent with this communication were done so as a result of a request received by UBS from you and/or persons entitled to make the request on your behalf. Should you have received the Material erroneously, UBS asks that you kindly delete the e-mail and inform UBS immediately. The Material, where provided, was provided for your information only and is not to be further distributed in whole or in part in or into your jurisdiction without the consent of UBS. The Material may not have been reviewed, approved, disapproved, endorsed, registered or filed with any financial or regulatory authority in your jurisdiction. UBS has not, by virtue of the Material, made available, issued any invitation to subscribe for or to purchase any investment (including securities or derivatives products). The Material is neither an offer nor a solicitation to enter into any transaction or contract (including future contracts) nor is it an offer to buy or to sell any securities or derivatives products. The relevant investments will be subject to restrictions and obligations on transfer as set forth in the Material, and by receiving the Material you undertake to comply fully with such restrictions and obligations. You should carefully study and ensure that you understand and exercise due care and discretion in considering your investment objective, risk appetite and personal circumstances against the risk of the investment. You are advised to seek independent professional advice in case of doubt. Any and all advice provided and/or trades executed by UBS pursuant to the Material will only have been provided upon your specific request or executed upon your specific instructions, as the case may be, and may be deemed as such by UBS and you. **Turkey:** The information in this document is not provided for the purpose of offering, marketing or sale of any capital market instrument or service in the Republic of Turkey. Therefore, this document may not be considered as an offer made, or to be made, to residents of the Republic of Turkey in the Republic of Turkey. UBS Switzerland AG is not licensed by the Turkish Capital Market Board (the CMB) under the provisions of the Capital Market Law (Law No. 6362). Accordingly, neither this document nor any other offering material related to the instrument/service may be utilized in connection with providing any capital market services to persons within the Republic of Turkey without the prior approval of the CMB. However, according to article 15 (d) (ii) of the Decree No. 32 residents of the Republic of Turkey are allowed to purchase or sell the financial instruments traded in financial markets outside of the Republic of Turkey. Further to this, pursuant to article 9 of the Communiqué on Principles Regarding Investment Services, Activities and Ancillary Services No. III-37.1, investment services provided abroad to residents of the Republic of Turkey based on their own initiative are not restricted. **United Arab Emirates (UAE):** UBS is not a financial institution licensed in the UAE by the Central Bank of the UAE nor by the Emirates' Securities and Commodities Authority and does not undertake banking activities in the UAE. UBS AG Dubai Branch is licensed by the DFSA in the DIFC. This document is provided for your information only and does not constitute financial advice. **United Kingdom:** This document is issued by UBS Wealth Management, a division of UBS AG which is authorised and regulated by the Financial Market Supervisory Authority in Switzerland. In the United Kingdom, UBS AG is authorised by the Prudential Regulation Authority and is subject to regulation by the Financial Conduct Authority and limited regulation by the Prudential Regulation Authority. Details about the extent of regulation by the Prudential Regulation Authority are available from us on request. A member of the London Stock Exchange. This publication is distributed to retail clients of UBS Wealth Management. **Ukraine:** UBS is not registered and licensed as a bank/financial institution under Ukrainian legislation and does not provide banking and other financial services in Ukraine. UBS has not made, and will not make, any offer of the mentioned products to the public in Ukraine. No action has been taken to authorize an offer of the mentioned products to the public in Ukraine and the distribution of this document shall not constitute financial services for the purposes of the Law of Ukraine "On Financial Services and Financial Companies" dated 14 December 2021. Any offer of the mentioned products shall not constitute an investment advice, public offer, circulation, transfer, safekeeping, holding or custody of securities in the territory of Ukraine. Accordingly, nothing in this document or any other document, information or communication related to the mentioned products shall be

interpreted as containing an offer, a public offer or invitation to offer or to a public offer, or solicitation of securities in the territory of Ukraine or investment advice under Ukrainian law. Electronic communication must not be considered as an offer to enter into an electronic agreement or other electronic instrument within the meaning of the Law of Ukraine "On Electronic Commerce" dated 3 September 2015. This document is strictly for private use by its holder and may not be passed on to third parties or otherwise publicly distributed. **USA:** Distributed to US persons only by UBS Financial Services Inc. or UBS Securities LLC, subsidiaries of UBS AG. UBS Switzerland AG, UBS Europe SE, UBS Bank, S.A., UBS Brasil Administradora de Valores Mobiliários Ltda., UBS Asesores México, S.A. de C.V., UBS SuMi TRUST Wealth Management Co., Ltd., UBS Wealth Management Israel Ltd. and UBS Menkul Degerler AS are affiliates of UBS AG. **UBS Financial Services Inc. accepts responsibility for the content of a report prepared by a non-US affiliate when it distributes reports to US persons. All transactions by a US person in the securities mentioned in this report should be effected through a US-registered broker dealer affiliated with UBS, and not through a non-US affiliate. The contents of this report have not been and will not be approved by any securities or investment authority in the United States or elsewhere. UBS Financial Services Inc. is not acting as a municipal advisor to any municipal entity or obligated person within the meaning of Section 15B of the Securities Exchange Act (the "Municipal Advisor Rule") and the opinions or views contained herein are not intended to be, and do not constitute, advice within the meaning of the Municipal Advisor Rule.**

© UBS 2024. The key symbol and UBS are among the registered and unregistered trademarks of UBS. All rights reserved.

Credit Suisse Wealth Management Disclaimer

This disclaimer must be read in conjunction with "Risk information" and "Important Information About Sustainable Investing Strategies" sections of the Global Wealth Management Disclaimer above. You receive this document in your capacity as a client of Credit Suisse Wealth Management. Your personal data will be processed in accordance with the Credit Suisse privacy statement accessible at your domicile through the official Credit Suisse website <https://www.credit-suisse.com>. In order to provide you with marketing materials concerning our products and services, UBS Group AG and its subsidiaries may process your basic personal data (i.e. contact details such as name, e-mail address) until you notify us that you no longer wish to receive them. You can optout from receiving these materials at any time by informing your Relationship Manager.

Except as otherwise specified herein and/or depending on the local Credit Suisse entity from which you are receiving this report, this report is distributed by UBS Switzerland AG, authorised and regulated by the Swiss Financial Market Supervisory Authority (FINMA). **Brazil:** This report is distributed in Brazil by Credit Suisse (Brasil) S.A. Corretora de Títulos e Valores Mobiliários or its affiliates ("Credit Suisse"). Pursuant to CVM Resolution No. 20/2021, of February 25, 2021, the author(s) of the report hereby certify(ies) that the views expressed in this report solely and exclusively reflect the personal opinions of the author(s) and have been prepared independently, including with respect to Credit Suisse and other UBS Group entities. Part of the author(s)'s compensation is based on various factors, including the total revenues of the relevant UBS Group entity of which they are in employment of, but no part of the compensation has been, is, or will be related to the specific recommendations or views expressed in this report. In addition, Credit Suisse declares that: Credit Suisse has provided, and/or may in the future provide investment banking, brokerage, asset management, commercial banking and other financial services to the subject company/companies or its affiliates, for which they have received or may receive customary fees and commissions, and which constituted or may constitute relevant financial or commercial interests in relation to the subject company/companies or the subject securities. **France:** This report is distributed by Credit Suisse (Luxembourg) S.A. Succursale en France (the "France branch") which is a branch of Credit Suisse (Luxembourg) S.A., a duly authorized credit institution in the Grand Duchy of Luxembourg with registered address 5, rue Jean Monnet, L-2180 Luxembourg. The France branch is subject to the prudential supervision of the Luxembourg supervisory authority, the Commission de Surveillance du Secteur Financier (CSSF), and of the French supervisory authority, the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and of the Autorité des Marchés Financiers. **Italy:** This report is distributed in Italy by Credit Suisse (Italy) S.p.A., a bank incorporated and registered under Italian law subject to the supervision and control of Banca d'Italia and CONSOB. **Japan:** This report is solely distributed in Japan by Credit Suisse Securities (Japan) Limited, Financial Instruments Dealer, Director-General of Kanto Local Finance Bureau (Kinsho) No. 66, a member of the Japan Securities Dealers Association, Financial Futures Association of Japan, Japan Investment Advisers Association, and Type II Financial Instruments Firms Association or UBS SuMi TRUST Wealth Management Co., Ltd, Financial Instruments Dealer, Director-General of Kanto Local Finance Bureau (Kinsho) No. 3233, a member of the Japan Securities Dealers Association, Financial Futures Association of Japan, Japan Investment Advisers Association. Neither Credit Suisse Securities (Japan) Limited nor UBS SuMi TRUST Wealth Management Co., Ltd will distribute or forward this report outside Japan. **Luxembourg:** This report is distributed by Credit Suisse (Luxembourg) S.A., a duly authorized credit institution in the Grand Duchy of Luxembourg with registered address 5, rue Jean Monnet, L-2180 Luxembourg. Credit Suisse (Luxembourg) S.A. is subject to the prudential supervision of the Luxembourg supervisory authority, the Commission de Surveillance du Secteur Financier (CSSF). **Mexico:** This information is distributed by C. Suisse Asesoría México, S.A. de C.V. ("CS Asesores"), an affiliate of UBS Group AG, incorporated as a non-independent investment advisor under the Mexican regulation due to the relation with a Foreign Bank and its indirect relation with Grupo Financiero Credit Suisse (México), S.A. de C.V. CS Asesores is registered under number 30070-001-(14208)-10/10/2016 and subject to the supervision of the Mexican Banking and Securities Commission ("CNBV") exclusively regarding the rendering of (i) portfolio management services, (ii) securities investment advisory services, analysis and issuance of individual investment recommendations, and (iii) anti-money laundering and terrorism financing matters. This publication or any material related thereto is addressed only to Sophisticated or Institutional Investors located in Mexico. Research reports only reflect the views of the analysts responsible for the report. The compensation of the analyst(s) who prepared this report is determined exclusively by research management and senior management of any entity of UBS Group to which such analyst(s) render(s) services. **Portugal:** This report is distributed by Credit Suisse (Luxembourg) S.A., Sucursal em Portugal (the "Portugal branch") which is a branch of Credit Suisse (Luxembourg) S.A., a duly authorized credit institution in the Grand Duchy of Luxembourg with registered address 5, rue Jean Monnet, L-2180 Luxembourg. The Portugal branch is subject to the prudential supervision of the Luxembourg supervisory authority, the Commission de Surveillance du Secteur Financier (CSSF), and of the Portuguese supervisory authority, the Comissão do Mercado dos Valores Mobiliários (CMVM). **Qatar:** This information has been distributed by Credit Suisse (Qatar) L.L.C., which is duly authorized and regulated by the Qatar Financial Centre Regulatory Authority (QFCRA) under QFC License No. 00005. All related financial products or services will only be available to Business Customers or Market Counterparties (as defined by the QFCRA), including individuals, who have opted to be classified as a Business Customer, with net assets in excess of QR 4 million, and who have sufficient financial knowledge, experience and understanding to participate in such products and/or services. Therefore this information must not be delivered to, or relied on by, any other type of individual. **Saudi Arabia:** This information is being distributed by Credit Suisse Saudi Arabia (CR Number 1010228645), duly licensed and regulated by the Saudi Arabian Capital Market Authority pursuant to License Number 08104-37 dated 23/03/1429H corresponding to 21/03/2008AD. Credit Suisse Saudi Arabia's principal place of business is at King Khaled Road, Laysen Valley, Building number 6, 12329-2376, Riyadh, Saudi Arabia. Website: <https://www.credit-suisse.com/sa/en/cssa.html>. **South Africa:** This information is being distributed by Credit Suisse (UK) Limited which is registered as a financial services provider with the Financial Sector Conduct Authority in South Africa with FSP number 48779. **Turkey:** The investment information, comments and recommendations contained herein are not within the scope of investment advisory activity. The investment advisory services are provided by the authorized institutions to the persons in a customized manner taking into account the risk and return preferences of the persons. Whereas, the comments and advices included herein are of general nature. Therefore recommendations may not be suitable for your financial status or risk and yield preferences. For this reason, making an investment decision only by relying on the information given herein may not give rise to results that fit your expectations. This report is distributed by Credit Suisse Istanbul Menkul Degerler Anonim Sirketi, regulated by the Capital Markets Board of Turkey, with its registered address at Levazim Mahallesi, Koru Sokak No. 2 Zorlu Center Terasevler No. 61 34340 Besiktas/ Istanbul-Turkey. **United Kingdom:** This document is distributed by Credit Suisse (UK) Limited. Credit Suisse (UK) Limited, is authorized by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. The registered address of Credit Suisse (UK) Limited is 5 Broadgate, London, EC2M 2QS.

© UBS 2024. The key symbol and UBS are among the registered and unregistered trademarks of UBS. All rights reserved.

