# **Equity Strategy**

Earnings outlook, margins and past downturns

- Q3 reporting season is coming up. While EPS revisions have been incredibly resilient so far, with Eurozone earnings for 2022 net revised up 12% ytd, UK up 33%, and US net flat, earnings are finally likely to see some weakness in Q3, and onwards, as PMIs are in contraction territory. **There is a gap now between activity levels and analyst projections.** FX makes a big difference regionally, where in Europe weaker currency helps exporters, while the US will see a headwind. Consequently, the consensus projections for SPX Q3 EPS have moved down by a notable 5\$ in the past few weeks.
- We expect continued PMI weakness, driven by our lead indicator, real M1, with a base case of a Eurozone recession starting in Q4, which will result in earnings contraction. We hold -10% EPS growth projection for Europe in 2023. If realized, this would imply a **meaningfully milder move in forward EPS by consensus from peak to trough**, versus a typical 20-40% drawdown that is seen in past downturns in key regions.
- Why could European earnings hold up better than typical in the upcoming recession: 1. **stronger topline growth this time around**, there is a bigger gap between nominal and real GDP growth, compared to past downturns, and earnings remain nominal variables. Profit margins are at historical highs, and are likely to move lower, together with a peaking out in corporate pricing, but might not fall more than typical, especially if long bond yields start <u>stalling</u>, as we now expect.
- 2. Less delinquency risk, and fewer recapitalizations likely, which are typically heavily earnings dilutive. Nominal bond yields are much lower than the inflation would have suggested real bond yields are staying extremely low. Banks balance sheets are significantly stronger than ahead of past downturns credit is likely to keep flowing. There is no need for a protracted balance sheet recession, or sustained falls in house prices, given that there is not much housing inventory in US or Europe.
- 3. Geopolitics is a wild card, with a risk of further escalation, but we don't expect forced shutdowns this winter, as gas storages are full, and more LNG is coming in Eurozone natural gas prices are now down more than 50% from August highs. We anticipate continued government intervention to shield consumers and industry from the bulk of the energy price spike.
- 4. FX is a big tailwind for European earnings this time around. Of course, for the US the FX is working negatively, but our economists still don't have recession as a base case in the US. Notably, the gap has opened up between US and European equity prices and earnings, both in lc and in USD.
- 5. China has been countercyclical to US & Europe in the last two years, showing significant weakness. For 2023, it could stay countercyclical, but this time become more of a tailwind for growth given the easy hurdle rate, just as Europe is in a recession.
- At sector level, Discretionary, Industrials and Chemicals are likely to see weakness in earnings, while Financials, Commodities, and generally Exporters, could hold up better.

#### Equity Strategy

Mislav Matejka, CFA <sup>AC</sup> (44-20) 7134-9741 mislav.matejka@jpmorgan.com J.P. Morgan Securities plc

Prabhav Bhadani, CFA (44-20) 7742-4404 prabhav.bhadani@jpmorgan.com

#### J.P. Morgan Securities plc Nitya Saldanha, CFA

### (44 20) 7742 9986

nitya.saldanha@jpmchase.com J.P. Morgan Securities plc

#### Karishma Manpuria, CFA

(91-22) 6157-4115 karishma.manpuria@jpmchase.com J.P. Morgan India Private Limited

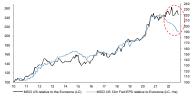
EPS revisions have been extremely resilient so far ytd, especially in Europe. This will finally change...



...we look for earnings downside, but the extent could be milder than typical, where in the past downturns forward

	Peak to	trough move in 12m F	wd EPS
Recession year	MSCI US	MSCI Eurozone	MSCI UK
1990	-14%	-27%	-20%
2001	-23%	-21%	-7%
2008	-40%	-42%	-40%
2012	NA	-20%	-11%
2020	-15%	-30%	-30%
Average	-23%	-28%	-22%
Median	-19%	-27%	-20%

...Europe is typically a high beta on the way down, but the gap has opened up between prices and earnings vs the US



Source: Bloomberg Finance L.P., Datastream, IBES

#### See page 32 for analyst certification and important disclosures, including non-US analyst disclosures.

J.P. Morgan 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.

Global Markets Strategy 17 October 2022

### **Table of Contents**

Earnings outlook, margins and past downturns	3
Equity Strategy Key Calls and Drivers	22
Top Picks	23
Equity Flows Snapshot	24
Technical Indicators	25
Performance	26
Earnings	27
Valuations	28
Economic, Interest Rate and Exchange Rate Outlook	30
Sector, Regional and Asset Class Allocations	31



Click here for our weekly podcast

Anamil Kochar of J.P. Morgan India Private Limited is a co-author of this report

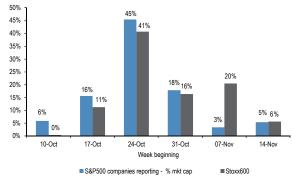
Global Markets Strategy 17 October 2022

### J.P.Morgan

# Earnings outlook, margins and past downturns

#### Reporting season is coming up...

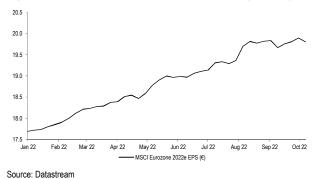




Source: Bloomberg Finance L.P.

We are approaching the main part of the Q3 reporting season, with 61% of S&P500 companies scheduled to report in the next 2 weeks. Eurozone will see 55% of the companies expected to release Q3 numbers report over the same time period.

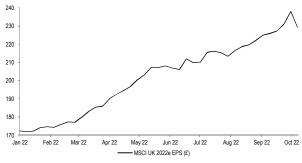
# ...EPS projections have been exceptionally resilient so far ytd...



#### Figure 2: MSCI Eurozone 2022e EPS consensus projections ytd

Eurozone earnings projections for 2022 have been upgraded by 12% so far ytd, in spite of the clouding macro outlook.

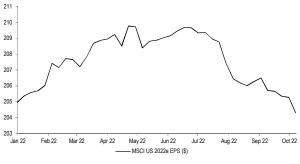






UK 2022 EPS projections have been revised up ytd by an exceptional 33%.

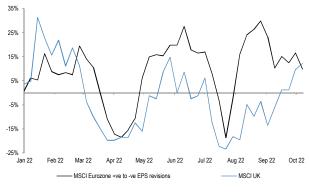
#### Figure 4: MSCI US 2022e EPS projections ytd



Source: Datastream

Even in the US, there was no real net downgrade ytd, although the spring upgrades have been reversed.

#### Figure 5: Weekly EPS revisions in Eurozone and the UK



Source: IBES

Weekly EPS revisions remain in positive territory in Eurozone and in the UK.

Mislav Matejka, CFA (44-20) 7134-9741 mislav.matejka@jpmorgan.com

	1Q '21	2Q '21	3Q '21	4Q '21	1Q '22	2Q '22	3Q '22
Real GDP, % oya							
US	1.2%	12.5%	5.0%	5.7%	3.7%	1.8%	1.6%
Euro Area	-0.8%	14.4%	3.7%	4.6%	5.4%	4.1%	2.1%
Japan	-1.7%	7.3%	1.2%	0.5%	0.9%	1.4%	2.4%
EM	13.1%	12.4%	6.0%	4.7%	4.7%	2.9%	3.8%
IP, %oya							
US	-0.8%	15.7%	4.9%	4.2%	4.5%	4.2%	3.6%
Euro Area	4.6%	23.9%	5.7%	0.4%	-0.2%	0.6%	2.1%
Japan	-1.8%	18.4%	6.6%	1.1%	-0.6%	-3.6%	3.9%
EŃ	14.2%	22.2%	9.6%	4.1%	4.1%	3.8%	4.2%
PMI Composite							
US	59.3	65.3	56.8	57.3	54.9	54.0	47.3
Euro Area	49.9	56.8	58.5	54.3	54.2	54.2	49.0
Japan	48.4	49.6	47.4	52.2	48.7	52.1	50.2
EM	52.2	52.4	51.2	52.9	49.7	48.5	52.5
German IFO	98.2	104.2	104.2	100.9	98.6	93.1	87.9
CPI, %oya							
US	1.9%	4.8%	5.3%	6.7%	8.0%	8.6%	8.2%
Euro Area	0.9%	1.8%	3.0%	4.6%	6.1%	8.1%	9.3%
Japan	-0.5%	-0.8%	-0.2%	0.5%	0.9%	2.4%	3.0%
EM	1.9%	3.0%	3.1%	4.1%	5.0%	6.9%	7.3%
Consumer							
Sentiment							
US	80.2	85.6	74.8	69.9	63.1	57.9	56.1
Euro Area	-12.2	-5.7	-4.2	-7.6	-13.6	-22.3	-27.0
Japan	33.4	35.6	37.2	39.1	34.8	32.4	31.0
Unemployment							
rate, %							
US	6.2	5.9	5.1	4.2	3.8	3.6	3.5
Euro Area	8.2	8.1	7.5	7.1	6.8	6.7	6.6
Japan	2.9	2.9	2.8	2.7	2.7	2.6	2.6

#### ... the gap with activity levels has opened up...

Table 1: Key global activity indicators

Source: Bloomberg Finance L.P., J.P. Morgan

This is in contrast to activity momentum, which has softened vs the previous quarter. PMIs have moved into contraction territory in both the US and in Euro Area. Consumer sentiment is still at multi-year lows.

Figure 6: US and European quarterly EPS growth and global composite PMI, with ex Energy projections for Q3 '22



Source: IBES, J.P. Morgan, S&P Global

As activity is down, the consensus projections for Q3 now appear too optimistic. Negative growth is implied by PMIs, in contrast to flat-positive yoy consensus projections by the sellside.

Figure 7: MSCI Eurozone EPS revisions and Composite PMI



Source: Datastream, J.P. Morgan

EPS revisions have been much stronger than the PMIs would suggest for a few months now, and we think that the upcoming earnings season could be a catalyst for earnings to finally start to move lower. PMIs are consistent with negative earnings revisions.

#### Table 2: recent profit warnings

Company Name	Company Ticker	Industry	Commentary	Date	5Day Perf relative to market, %	10Day perf of Equal weight FY22 and FY23 EPS, %	MV(in \$bn
LLUMINA INC	ILMN US	HEALTH CARE	Illumina Inc. cut its annual profit forecast as the company faces reduced demand for its sequencing equipment and possible penalties in Europe over its acquisition of cancer-test provider Grail.	12 Aug	-9.9%	11%	31.9
KRISPY KREME INC	DNUT US	DISCRETIONARY	Sees FY capex \$105m-110m, approx. 7% of revenue, a reduction of \$10m from prior expectations due to shift to lower capital points of access spend and benefit from foreign currency translation	17 Aug	-12.4%	-20%	2.2
TJX COMPANIES NC	TJX US	DISCRETIONARY	While stores in the U.S. were open for all of Fiscal 2022, a significant number of stores in TJX Canada and TJX International Europe and Australia experienced COVID-related temporary store closures and government-mandated shopping restrictions during Fiscal 2022. Therefore, the Company cannot measure year-over-year comparable store sales with Fiscal 2022 in these geographies in a meaningful way A weakening macro environment, high inflation and dampened	17 Aug	0.0%	-1%	75.7
OHLS CORP	KSS US	DISCRETIONARY	consumer spending are having broad implications across much of retail, especially in discretionary categories like apparel. Given our penetration in these discretionary categories, this is disproportionately impacting Kohl's	18 Aug	-10.5%	0%	3.2
DEERE & CO	DE US	INDUSTRIALS	Deere & Co. cut its full-year outlook as the world's largest maker of agricultural machinery warned of ongoing supply-chain issues and rising production costs. Shares fell in premarket trading.	19 Aug	7.5%	0%	110.8
ZOOM VIDEO COMMUNICATIONS- A	ZM US	IT	"While we saw continued momentum with our Enterprise customers and our non-GAAP operating income came in meaningfully higher than our outlook, our revenue was impacted by the strengthening of the U.S. dollar, performance of the online business, and to a lesser extent sales weighted to the backend of the quarter"	22 Aug	-14.1%	0%	22.2
NORDSTROM INC	JWN US	DISCRETIONARY	Nordstrom Cuts FY Revenue Forecast	23 Aug	-20.3%	0%	3.0
MACY'S INC	MUS	DISCRETIONARY	Macy's Inc. cut its full-year forecast for profit and revenue, citing tighter consumer budgets and an industrywide inventory glut that is leading to steeper markdowns.	23 Aug	-0.4%	0%	4.9
NVIDIA CORP	NVDA US	IT	Nvidia Corp., which warned earlier this month that its sales were slipping, gave a weak forecast for the current period that suggested demand may be even worse than feared.	24 Aug	-6.5%	0%	297.8
GAP INC/THE	GPS US	DISCRETIONARY	The company is working through elevated inventory levels and has pledged to cap price increases at its Old Navy stores, which is likely to hurt margins.	24 Aug	-0.8%	0%	3.6
PETCO HEALTH	WOOF US	DISCRETIONARY	-	24 Aug	-1.6%	0%	2.8
AND WELLNESS CO PELOTON NTERACTIVE INC-A	PTON US	DISCRETIONARY	Peloton Interactive Inc. gave a bleak forecast for the current quarter, with losses piling up and sales falling more steeply than Wall Street expected, renewing concerns about the fitness company's comeback plan.	25 Aug	-19.9%	0%	2.9
CHEWY INC - CLASS A	CHWY US	DISCRETIONARY	We believe that we will continue to see differences in demand patterns between discretionary and non-discretionary categories throughout the balance of the year. As such, we are revising our full-year top line expectations. At the same time, we are also raising our profitability outlook	30 Aug	-11.2%	0%	15.3
SEAGATE TECHNOLOGY HOLDINGS	STX US	IT	Seagate Technology Holdings PIc, the biggest maker of computer hard drives, cut its outlook for the fiscal first quarter amid a worsening macroeconomic backdrop.	31 Aug	-3.9%	0%	11.0
HP INC	HPQ US	IT	HP Inc. analysts noted that the PC maker will need a couple of quarters to correct its inventory after the company reported quarterly sales that missed estimates and cut its annual profit forecast as demand for personal computers and printers slowed.	31 Aug	-10.2%	0%	26.2
VEEVA SYSTEMS INC-CLASS A	VEEV US	HEALTH CARE	Veeva cut its revenue forecast for the year after headwinds from macro uncertainty affected its pipeline in June and July.	31 Aug	-14.8%	0%	24.2
CHURCH & DWIGHT	CHD US	STAPLES	The owner of the Arm & Hammer and OxiClean brands now expects revenue growth of 2% to 4%, down from its previous forecast of as much as 5%. It pinned the gloomier outlook on weak demand for its discretionary goods such as Waterpik water flossing devices and Flawless hair removal products.	06 Sep	-7.0%	-1%	17.8
ASSOCIATED BRITISH FOODS PLC	ABF LN	STAPLES	Associated British Foods Plc warned profit in the next fiscal year will be lower as rising energy costs and the strengthening of the dollar weigh on its Primark value fashion chain.	08 Sep	-9.2%	-6%	11.7
ASOS PLC	ASC LN	DISCRETIONARY	British fast-fashion company Asos Plc warned that sales in August were weaker than expected as inflation crimped shoppers' purchasing power.	09 Sep	-4.6%	-27%	0.6
ORIAN	KORI FP	HEALTH CARE	Orpea shares slump as much as 21% as the company warns that profit	12 Sep	-4.9%	0%	1.0
ELECTROLUX AB-B	ELUXB SS	DISCRETIONARY	will be lower than expected, citing rising energy and salary costs. Electrolux sinks as weak consumer demand triggers profit warnings	12 Sep	-2.9%	-12%	3.1
HULE GROUP	THULE SS	DISCRETIONARY	-	12 Sep	-8.2%	-22%	2.0
DCADO GROUP PLC	OCDO LN	STAPLES	British online grocer Ocado Retail lowered its sales and earnings forecast for fiscal 2022, saying that smaller baskets and the acceleration in trading down to cheaper items due to the cost-of-living crisis have dampened its outlook for the year, according to a Tuesday business update.	13 Sep	-12.5%	3%	4.2
ABOUT YOU HOLDING SE	YOU GR	DISCRETIONARY	Profit warning: weakening consumer sentiment & "surging cost inflation"	13 Sep	-17.6%	15%	1.0
KION GROUP AG	KGX GR	INDUSTRIALS	citing supply-chain issues and high energy and material costs.	14 Sep	-30.1%	-4%	2.7
AYTHEON ECHNOLOGIES CORP	RTX US	INDUSTRIALS	Raytheon Cuts Cash Flow Outlook by \$2 Billion Due to R&D Mandate	14 Sep	3.7%	0%	125.3
MIPS AB	MIPS SS	DISCRETIONARY		14 Sep	-12.6%	-18%	0.9
CLEVELAND- CLIFFS INC	CLF US	MATERIALS	Nucor Corp. is sounding alarm bells that shipments of the key metal used from automobiles to skyscrapers will be reduced this quarter, signaling precarious demand across the US economy.	14 Sep	-11.3%	-3%	7.9
NUCOR CORP	NUE US	MATERIALS	The company said it expects "steel mills segment earnings to be considerably lower in the third quarter of 2022 as compared to the second quarter" due to metal margins contracting and reduced shipping volumes	14 Sep	-14.6%	1%	32.5

#### Global Markets Strategy 17 October 2022

### J.P.Morgan

The PLC         NOLM         DESCREPTIONERY         INDER Parametering that a grapheness in planet intermed the start and transmer and transmer and the start and transmer and transm								
GRUE PIC         PFULP         STAPLES	THG PLC	THG LN	DISCRETIONARY	THG Plc warned that sales will miss guidance this year as consumer appetite drops on the higher cost of living in the UK.	15 Sep	-12.9%	0%	0.6
FEEDX CORP         TWA III         TWA III Company of the impact of the i		HFG LN	STAPLES	-	15 Sep	-28.8%	0%	0.7
SQLTED VI         SQLTED VI         IT         entranslat, and company will will be difficult in reached products. Tabil is possible.         15 Sep         0.5 Sep		FDX US	INDUSTRIALS	worsened later in the quarter, both internationally and in the US," Chief Executive Officer Raj Subramaniam said in the statement. "We are swiftly addressing these headwinds, but given the speed at which conditions shifted, first-quarter results are below our expectations."	16 Sep	-20.9%	0%	40.7
Induitional of Loss         Outs Of Links         One o	SOLTEQ OYJ	SOLTEQ FH	IT	estimated, and company will write off investments made to product	19 Sep	-15.8%	0%	0.0
COTING         CUC US         MINTERUS	FORD MOTOR CO	F US	DISCRETIONARY	Ford plunges most in 11 years after warning on inflation costs, that it is	20 Sep	-13.4%	0%	47.3
SURE FA         SIVE E GR         IT         import is emerging business, with down products during register balance.         22 Sep         -10.0%         -3%         2.28           INTERUAR SI         INDUSTRIALS         Subject is profile and loss account for the first digetter, here         25 Sep         -10.2%         0%         15           INTERUAR SI         INTERUAR SI         INTERUAR SI         INTERUAR SI         INTERUAR SI         INTERUAR SI         0.0%         2.15           INTERUAR PORT         TRONCK PORT         TRONCK SI         INTERUAR SI         INTERUAR SI         INTERUAR SI         0.0%         2.0           INTERUAR SI         INTERUAR SI         INTERUAR SI         INTERUAR SI         INTERUAR SI         INTERUAR SI         1.0%         2.0           INTERUAR SI         INTERUAR SI         INTERUAR SI         INTERUAR SI         1.0%         6.6         2.0         2.0%         3.0%         0.0<		CC US	MATERIALS	-	21 Sep	-16.2%	0%	4.3
NITRUM         NUTLEY MAS         INDUST FMAS         persplicy input to plant and use account of the fluid quetter, the fluid quetter as the pluid quetter quetter as the pluid quetter quetter qluetter quetter quetter qluetter quetter quetter qluette	SUSE SA	SUSE GR	ІТ	impact its emerging business, with slower purchase decision making for new contracts and some customer project delays	22 Sep	-16.0%	-3%	2.8
HOLDINGS PLC         INVERTIGGP         INVERTIGGP        INVERT		INTRUM SS	INDUSTRIALS	negatively impact its profit and loss account for the third quarter, the Stockholm-based debt collector said in a statement.	26 Sep	-18.2%	0%	1.5
AVECUP CORP         AVIA TUS         MATERNALS         Observation         Z Sep         2.9%         -19%         2.8           GROUP PLC         ULL NU         ULL TURES         ULL NUES         ULL NUES         Number of the diverse served in the served number of the the served n		TROX US	MATERIALS		26 Sep	9.5%	-12%	2.0
GROUP PLC     VID LINE     UNTENNES     Under deministres of wheth Pury arrivation due to over contamption     2.7 spc     3.0%     10%     0.8       AZ2D NOBEL N.V.     AYZA NA     MATERNALS     Provide Plant Structure Structu		AVNT US	MATERIALS		27 Sep	-2.3%	-19%	2.8
AK2C NOBLE N.Y.         AK2A NA         MATERIALS         paik during the third quarker as the painthwaker apped to continue to 27 Sep         5.7%         9%         10.3           COMMERCEANNAG         CBK GR         FNANCIALS         Marker All productions of the year is a source source s		UU/ LN	UTILITIES		27 Sep	-3.0%	10%	6.6
COMMERSANING       CBK CR       FINANCIALS       Mean Expects Net Loss in 222 or Growing T-X Mingage Costs       27 Sep       6.4%       0%       9.4         BOOHOD GROUP       BOOLIN       DISCRETIONARY       Mean Expects Net to sprint spatiant or costner and on costner and on costner and sprint spatiant or costner and sprint sprint or sprint sprint or costner and on costner and on costner and sprint spr	AKZO NOBEL N.V.	AKZA NA	MATERIALS	peak during the third quarter as the paintmaker expects to continue to	27 Sep	5.7%	-9%	10.3
BOOL NOU       BOOL NUMBER       DISCRETIONARY       and tools is stoped consumers from splashing out on oldnes and       28 Sep       3.5%      9%       0.6         VF CORP       VFC US       DISCRETIONARY       Versing its FV23 outlook due to lower than-ancopeded QZFV23 means and weaks and the name inclugate back hosthool performance at Vars and weaker than anticipate back hosthool performance at Vars and weaker than anticipate back hosthool performance at Vars and the current environment, in weaker than anticipate back hosthool performance at Vars and the current environment, in weaker than anticipate back hosthool performance at Vars and the current environment, in work weaker than anticipate back hosthool performance at Vars and the current environment, in work weaker than anticipate back hosthool performance at Vars and the fail       28 Sep       .13.4%       .7%       .7%         NUTRIEN LTD       NTR US       MATERIALS       The challenges of shipping to constrained, along wink at and barly.       28 Sep       .3%       .4%       .4%       .4%         COLRUYT SA       COLR BB       STAPLES       Consultation of the nont infrastop version stating version version	COMMERZBANK AG	CBK GR	FINANCIALS	MBank Expects Net Loss in 2022 on Growing FX-Mortgage Costs	27 Sep	-6.4%	0%	9.4
VF CORP       VFC US       DISCRETIONARY       results, oupled with organization in the current environment, wasker than an increading two three promotional environment in the said than an and increasing inventories leading to a more promotional environment in the said than an and increasing inventories leading to a more promotional environment in the said than an and increasing inventories leading to a more promotional environment in the said than an and increasing inventories leading to a more promotional environment in the said than an and increasing inventories leading to a more promotional environment in the said than an and increasing inventories leading to a more promotional environment in the said than and the press. Nature and the result of Pr2223, ex one offs, is expected to decrease considered profits within the constraint of the trease for Pr2223, ex one offs, is expected to decrease constraint is add double. Nature and the result of Pr2223, ex one offs, is expected to decrease constraint is add double. Nature and the result of Pr2223, ex one offs, is expected to decrease constraint is add double. Nature and the result of Pr2223, ex one offs, is expected to decrease constraint is add double. Nature and the result of Pr2223, ex one offs, is expected to decrease constraint is add double. Nature and the result of Pr2223, ex one offs, is expected to addition of the result of Pr2223, ex one offs, is expected to decrease constraint is add double. Nature and the result of Pr2223, ex one offs, is expected to decrease constraint is add double. Nature and the result of Pr2223, ex one offs, is expected to decrease constraint is add double. Nature and the result of Pr2223, ex one offs, is expected to decrease constraint is add double. Nate the presset is finan		BOO LN	DISCRETIONARY	and food bills stopped consumers from splashing out on clothes and	28 Sep	3.5%	-39%	0.6
NUTRIENLITD       NITR US       MATERIALS       bprisits, Nutrien LLC, Chief Securite Officer Ken Seitz said nan terview for the Bioomego Conference. At least 28 Sep       0.3%       1%       46.7         COLR UYT SA       COLR BB       STAPLES       Colruly shares drop as much as 19%, the most infraday on neoding, after a specific for Mining at Vester days CAL, starting the consolidated net result for IV22/23, ex. one-dfs, is expected to decrease consolidated net result for IV22/23, ex. one-dfs, is expected to decrease consolidated net result for IV22/23, ex. one-dfs, is expected to decrease consolidated net result for IV22/23, ex. one-dfs, is expected to decrease consolidated net result for PV22/23, ex. one-dfs, is expected to decrease consolidated net result for PV22/23, ex. one-dfs, is expected to decrease consolidated net result for PV22/23, ex. one-dfs, is expected to decrease consolidated net result for PV22/23, ex. one-dfs, is expected to decrease consolidated net result for PV22/23, ex. one-dfs, is expected to decrease consolidated net result for PV22/23, ex. one-dfs, is expected to decrease consolidated net result for PV22/23, ex. one-dfs, is expected to decrease consolidated net result for PV22/23, ex. one-dfs, is expected to decrease consolidated net result for PV22/23, ex. one-dfs, is expected to decrease consolidated net result for PV22/23, ex. one-dfs, is expected to decrease consolidated net result for PV22/23, ex. one-dfs, is expected to decrease consolidated net result for PV22/23, ex. one-dfs, is expected to decrease consolidated net result for PV22/23, ex. one-dfs, is expected to decrease consolidated net result for PV22/23, ex. one-dfs, is expected to decrease consolidated net result for PV22/23, ex. one-dfs, is expected to decrease consolidated net result for PV22/23, ex. one-dfs, is expected to decrease consolidated net result for PV22/23, ex. one-dfs,	VF CORP	VFC US	DISCRETIONARY	results, coupled with ongoing uncertainty in the current environment, weaker than anticipated back-to-school performance at Vans and increasing inventories leading to a more promotional environment in	28 Sep	-13.4%	-7%	11.3
COLRUNT SA       COLR BB       STAPLES       intercompany posted a profit warning at yesterday AGM, stang the der space do to decrease considerably visitatly are	NUTRIEN LTD	NTR US	MATERIALS	to persist, Nutrien Ltd. Chief Executive Officer Ken Seitz said in an interview for the Bloomberg Canadian Finance Conference. At least 25% of Russian potash shipments are constrained, along with vital food	28 Sep	0.3%	1%	46.7
NEXT PLC       NXT LN       DISCRETIONARY       inflation and a devaluation of the pound which has undermined       29 Sep       -11.2%       0%       7.0         SYNT HOMER PLC       NYNT LN       MATERIALS       Synthome respects financial performance to be below previous expectations, according to a statement issued today. Cites continued de-stocking and further reduced production volumes       29 Sep       -19.2%       -10%       0.5         SEIBU HOLDINGS INPO NI LGMT       5703 JP       MATERIALS       -       29 Sep       -17.4%       0%       0.6         ALLEGRO EUX ALL	COLRUYT SA	COLR BB	STAPLES	the company posted a profit warning at yesterday's AGM, stating the consolidated net result for FY22/23, ex. one-offs, is expected to decrease considerably vs last year.	28 Sep	-24.0%	-6%	3.0
SYNTHOMER PLC       SYNT IN       MATERIALS       expectations, according to a statement issued today. Cites continued de-shocing and further reduced production volumes       29 Sep       -19.2%       -10%       0.5         SEIBU HOLDINGS INC       9024 JP       INDUSTRIALS       -       29 Sep       -8.6%       9%       3.1         STRIED HOLDINGS INCLOINNES ALLEGRAN TRAVEL       5703 JP       MATERIALS       -       29 Sep       -3.2%       0%       0.6         ALLEGRAN TRAVEL CO       ALE FW       DISCRETIONARY       Polard's Allegran CruseQ2 Q2 Utokon Rising Risks       29 Sep       -1.4%       -10%       4.2         ALLEGRAN TRAVEL CO       ALG TUS       INDUSTRIALS       Polard form Florida for a multi-day stereture guidance, citing the impact meet flights to and from Florida for a multi-day stereture meet flights to and from Florida for a multi-day stereture meet flights to and from Florida for a multi-day stereture meet flights to and from Florida for a multi-day stereture meet flights to and from Florida for a multi-day stereture meet flights to and from Florida for a multi-day stereture meet flights to and from Florida for a multi-day stereture meet flights to and from Florida for a multi-day stereture meet flights to and from Florida for a multi-day stereture meet flights to and from Florida for a multi-day stereture meet flights to and from Florida for a multi-day stereture meet flights to and from Florida for a multi-day stereture meet flights to and from Florida for a multi-day stereture meet flights to and from Florida for a multi-day stereture meet materials stereture to therin stereture t	NEXT PLC	NXT LN	DISCRETIONARY	inflation and a devaluation of the pound which has undermined	29 Sep	-11.2%	0%	7.0
INC9024 JPINDUSTRIALS-29 Sep-6.5%9%5.1NIPPON LIGHT METAL HOLDINGS5703 JPMATERIALS-29 Sep-3.2%0%0.6ALLEGROLEU SAALE PWDISCRETIONARYPolard's Allegro Cuts 2022 Outlook on Rising Risks Allegiant Travel Co. is cutting its revenue guidance, citing the impact of Hurricane Ian, which has forced the ultra-low-cost atiline to cancel prost lights29 Sep-17.4%-10%4.2ALLEGIANT TRAVEL COALG USINDUSTRIALSof Hurricane Ian, which has forced the ultra-low-cost atiline to cancel merchandise eroded the spotsware ginats profitability30 Sep-8.3%-24%1.2NIKE INC -CL BNKE USDISCRETIONARY merchandise eroded the spotsware ginats profitability30 Sep-8.3%-440.1VERTIV HOLDINGS COVRT USINDUSTRIALSbecomes guidance range primarily due to foreign exchange headwrinds.03 Oct11.1%4.1HELEN OF TROY LTDHELE USDISCRETIONARYHele Cites Severance Related Costs, Contract Termination05 Oct3.3%2.4TESCO PLCTSCO LNSTAPLESStale point this year will be at the lower end of a previously guided range as more shoppers turn to discount grocery rivis a mid Britain's cost-of-living crisis.05 Oct1.4%17.2SHELL PLCSHEL LNENERGYShe shares fild affeer ding firs sub aprofit waring as financially squeezed households cut back on landscape projects07 Oct-22.9%0.6PPG INDUSTRIES INCPPG USMATERIALSPPG stock slides after i		SYNT LN	MATERIALS	expectations, according to a statement issued today. Cites continued de-stocking and further reduced production volumes	29 Sep	-19.2%	-10%	0.5
METAL HOLDINGS       STUG JP       IMATERIALS       -       29 Sep       -3.2%       0%       0.0         ALLE GROLEU SA       ALE PW       DISCRETIONARY       Polaris Allegro Cuts 2022 Outlook on Rising Risks       29 Sep       -17.4%       -10%       4.2         ALLEGIANT TRAVEL       ALGT US       INDUSTRIALS       of Hurricene Ian, which has forced the ultra-low-cost airline to cancel       29 Sep       -3.8%       -24%       1.2         NIKE INC -CL B       NKE US       DISCRETIONARY       Nike's shares tumbled the most in two decades, after a glut of unwanted more tights to and from dut-day stretch methods ys thet its third quarter guidance is reaffirmed at the lower end of the previous guidance range primarily due to foreign exchange       03 Oct       11.1%       4.1         VERTIV HOLDINGS       VRT US       INDUSTRIALS       of the previous guidance range primarily due to foreign exchange       03 Oct       11.1%       4.1         HELEN OF TROY       HELE US       DISCRETIONARY       Hele Cites Severance Related Costs, Contract Termination       05 Oct       3.3%       2.4       17.2         TESCO PLC       TSCO LN       STAPLES       Stall shares fail after oil major said it expects Q3 refining margin to drop britan's cost-of living crisis.       06 Oct       -1.4%       183.7         SHELL PLC       SHEL LN       ENERGY       ShIs a barrel fin Q2 of 2022 <td></td> <td>9024 JP</td> <td>INDUSTRIALS</td> <td>-</td> <td>29 Sep</td> <td>-8.6%</td> <td>9%</td> <td>3.1</td>		9024 JP	INDUSTRIALS	-	29 Sep	-8.6%	9%	3.1
ALLE GRO. EU SA       ALE PW       DISCRETIONARY       Poland's Allegro Cuts 2022 Outlook on Rising Risks       29 Sep       -17.4%       -10%       4.2         ALLE GIANT TRAVEL       ALGT US       INDUSTRIALS       of Hurricane Ian, which has forced the ultra-low-cost alline to cancel most flights to and from Florid for a multi-day stretch       29 Sep       -3.8%       -24%       1.2         NIKE INC -CL B       NKE US       DISCRETIONARY       Nike's stares tumbled the most in two decades, after a glut of unwanted most flights to and from Florid for a multi-day stretch       30 Sep       -8.3%       -24%       140.1         VERTIV HOLDINGS       VRT US       INDUSTRIALS       Vertiv says that its third quarter guidance is reaffirmed at the lower end of the previous guidance range primarily due to foreign exchange       03 Oct       11.1%       4.1         HELE NO F TROY       HELE US       DISCRETIONARY       Hele Cites Severance Related Costs, Contract Termination       05 Oct       3.3%       2.4         TESCO PLC       TSCO LN       STAPLES       Tesco Plc said profit this year will be at the lower end of a previously guided range as more shoppers tum to discount grocery rivals amid Britario scott-fliving costs.       06 Oct       1.4%       17.2         SHELL PLC       SHEL LN       ENERGY       Shell shares fall after oi major said it expects Q3 refining margin to drop S15 a barrel from \$28 a barrel in Q2 of 2022       06 Oct <t< td=""><td></td><td>5703 JP</td><td>MATERIALS</td><td>•</td><td>29 Sep</td><td>-3.2%</td><td>0%</td><td>0.6</td></t<>		5703 JP	MATERIALS	•	29 Sep	-3.2%	0%	0.6
ALLEOINNT HAVEL CO       ALGT US       INDUSTRIALS       of Hurricane Ian, which has forced the ultra-low-cost airline to cancel most flights to and from Florida for a multi-day stretch       29 Sep       -3.8%       -24%       1.2         NIKE INC -CL B       NKE US       DISCRETIONARY       Niké's shares tumbled the most in two decades, after a glut of unwanted merchandise eroded the sportswear giants profitability       30 Sep       -8.3%       -24%       140.1         VERTIV HOLDINGS CO       VRT US       INDUSTRIALS       of the previous guidance range primarily due to foreign exchange headwinds.       03 Oct       11.1%       4.1         HELEN OF TROY LTD       HELE US       DISCRETIONARY       Hele Cites Severance Related Costs, Contract Termination       05 Oct       3.3%       2.4         TESCO PLC       TSCO LN       STAPLES       Tesco Pic said profit this year will be at the lower end of a previously guided range as more shoppers turn to discount grocery rivals amid Britain's cost-of-living crisis.       05 Oct       1.4%       17.2         SHELL PLC       SHEL LN       ENERGY       Shell shares fail affer oil major said it expects Q3 refining margin to drop \$15 a barrel from \$28 a barrel in Q2 of 2022       06 Oct       -1.4%       183.7         MARSHALLS PLC       MSLH LN       MATERIALS       PPG stock slides after it warned third-quarter earnings would lag financially squeezed households cut back on landscape p		ALE PW	DISCRETIONARY		29 Sep	-17.4%	-10%	4.2
NIKE INC -CL BNKE USDISCRETIONARYNike's shares tumbled the most in two decades, after a glut of unwanted merchandise eroded the sportswaar giants profitability30 Sep-8.3%140.1VERTIV HOLDINGS COVRT USINDUSTRIALSof the previous guidance is reaffirmed at the lower end of the previous guidance range primarily due to foreign exchange headwinds.03 Oct11.1%4.1HELE USDISCRETIONARYHele Cites Severance Related Costs, Contract Termination05 Oct3.3%2.4TESCO PLCTSCO LNSTAPLESTesco Pic said profit this year will be at the lower end of a previously gluided range as more shoppers turn to discount grocery rivals amid Britain's cost-of-living crisis.05 Oct1.4%17.2SHELL PLCSHEL LNENERGYShell shares fall after oil major said it expects Q3 refining margin to drop Si to a barrel from \$28 a barrel in Q2 of 2022 francalally squeezed households cut back on landscape projects francalally squeezed households cut back on landscape projects francalally squeezed households cut back on landscape projects francally squeezed households cut back on landscape projects francally squeezed households cut back on landscape projects BONHLL GROUP BON HILL GROUP BONH LNOct M. SERVICES BOnhill Group drop as issues profit warning, puts itself up for sale10 Oct-2.7%26.4Average-9.0%-3.9%-9.0%-3.9%-9.0%-3.9%		ALGT US	INDUSTRIALS	of Hurricane Ian, which has forced the ultra-low-cost airline to cancel	29 Sep	-3.8%	-24%	1.2
VERTIV HOLDINGS COVRT USINDUSTRIALSVertiv says that its third quarter guidance is reaffirmed at the lower end of the previous guidance range primarily due to foreign exchange headwinds.03 Oct11.1%4.1HELE NOF TROY LTDHELE USDISCRETIONARYHele Cites Severance Related Costs, Contract Termination05 Oct3.3%2.4TESCO PLCTSCO LNSTAPLESguided range as more shoppers turn to discount grocery rivals amid Britain's cost-of-living crisis.05 Oct1.4%17.2SHELL PLCSHEL LNENERGYShell shares fail after oil major said it expects Q3 refining margin to drop Britain's cost-of-living crisis.06 Oct-1.4%183.7MARSHALLS PLCMSLH LNMATERIALSMarshalls shares dive after paving firm issues profit warning as firmancially squeezed housefolds cut back on landscape projects PPG INDUSTRIESPPG USMATERIALSPOF Gotos Cifed earth or Lwarge estimates due to softer demand in Europe and China.00 Oct-2.7%26.4BONHILL GROUP PLCBONH LNCOM. SERVICESBonhill Group drop as issues profit warning, puts itself up for sale10 Oct-2.51%0.0-9.0%-3.9%-3.9%	NIKE INC -CL B	NKE US	DISCRETIONARY	Nike's shares tumbled the most in two decades, after a glut of unwanted merchandise eroded the sportswear giants profitability	30 Sep	-8.3%		140.1
LTD       HELE US       DISCRETIONARY       Hele Cites Severance reliated costs, Contract Termination       US Oct       3.3%       2.4         TESCO PLC       TSCO LN       STAPLES       guided range as more shoppers turn to discount grocery rivals amid Britain's cost-of-living crisis.       05 Oct       1.4%       17.2         SHELL PLC       SHEL LN       ENERGY       Shell shares fall after oil major said it expects Q3 refining margin to drop Britain's cost-of-living crisis.       06 Oct       -1.4%       183.7         MARSHALLS PLC       MSLH LN       MATERIALS       Marshalls shares dive after paving firm issues profit warning as financially squeezed households cut back on landscape projects       07 Oct       -22.9%       0.6         PPG INDUSTRIES       PPG US       MATERIALS       PPG stock slides after it warned third-quarter earnings would lag estimates due to softer demand in licrupe and China.       10 Oct       -2.7%       26.4         BONHILL GROUP PLC       BONH LN       COM. SERVICES       Bonhill Group drop as issues profit warning, puts itself up for sale       10 Oct       -25.1%       0.0         Average       -9.0%       -3.9%       -3.9%       -3.9%       -3.9%	CO	VRT US	INDUSTRIALS	Vertiv says that its third quarter guidance is reaffirmed at the lower end of the previous guidance range primarily due to foreign exchange	03 Oct	11.1%		4.1
TESCO PLCTSCO LNSTAPLESTesco Plc said profit this year will be at the lower end of a previously guided range as more shoppers turn to discount grocery rivals amid Britain's cost-of-living crisis.05 Oct1.4%17.2SHELL PLCSHEL LNENERGYShell shares fall after oil major said it expects Q3 refining margin to drop \$15 a barrel from \$28 a barrel in Q2 of 202206 Oct-1.4%183.7MARSHALLS PLCMSLH LNMATERIALSMarshalls shares dive after paying firm issues profit warning as financially squeezed households cut back on landscape projects07 Oct-22.9%0.6PPG INDUSTRIES INCPPG USMATERIALSPPG stock sides after it warned third-quarter earnings would lag estimates due to softer demand in Europe and China.10 Oct-2.7%26.4BONHILL GROUP PLCBONH LNCOM. SERVICESBonhill Group drop as issues profit warning, puts itself up for sale10 Oct-25.1%0.0-9.0%-3.9%-3.9%		HELE US	DISCRETIONARY	Hele Cites Severance Related Costs, Contract Termination	05 Oct	3.3%		2.4
SHELL PLC       SHELL IN       ENERGY       \$15 a barrel from \$28 a barrel in Q2 of 2022       00 Oct       -1.4%       163.7         MARSHALLS PLC       MSLH LN       MATERIALS       Marshalls shares dive after paying firm issues profit warning as financially squeezed households cut back on landscape projects       07 Oct       -22.9%       0.6         PPG INDUSTRIES       PPG US       MATERIALS       PPG stock sides after it warned third-quarter earnings would lag estimates due to softer demand in Europe and China.       10 Oct       -2.7%       26.4         BONHILL GROUP       BONH LN       COM. SERVICES       Bonhill Group drop as issues profit warning, puts itself up for sale       10 Oct       -25.1%       0.0         Average       -9.0%       -3.9%       -3.9%       -3.9%       -3.9%	TESCO PLC	TSCO LN	STAPLES	guided range as more shoppers turn to discount grocery rivals amid Britain's cost-of-living crisis.	05 Oct	1.4%		17.2
MARSHALLS PLC     MSLH LIN     MAREKIALS     financially squeezed households cut back on landscape projects     07 Oct     -22.9%     0.6       PPG INDUSTRIES INC     PPG US     MATERIALS     PPG stock slides after it warned third-quarter earnings would lag estimates due to softer demand in Europe and China.     10 Oct     -2.7%     26.4       BONHILL GROUP PLC     BONH LN     COM. SERVICES     Bonhill Group drop as issues profit warning, puts itself up for sale     10 Oct     -25.1%     0.0       Average     -9.0%     -3.9%	SHELL PLC	SHEL LN	ENERGY	\$15 a barrel from \$28 a barrel in Q2 of 2022	06 Oct	-1.4%		183.7
PPG INDUSTRIES INC       PPG US       MATERIALS       PPG stock slides after it warned third-quarter earnings would lag estimates due to softer demand in Europe and China.       10 Oct       -2.7%       26.4         BONHILG GROUP PLC       BONH LN       COM. SERVICES       Bonhill Group drop as issues profit warning, puts itself up for sale       10 Oct       -2.7%       0.0         Average       -9.0%       -3.9%       -3.9%       -3.9%	MARSHALLS PLC	MSLH LN	MATERIALS		07 Oct	-22.9%		0.6
PLC BONH LN COM. SERVICES Bonniii Group arop as issues profit warning, puts itseri up for sale 10 Oct -25.1% 0.0 Average -9.0% -3.9%	INC	PPG US	MATERIALS		10 Oct	-2.7%		26.4
	PLC	BONH LN	COM. SERVICES	Bonhill Group drop as issues profit warning, puts itself up for sale	10 Oct		2.0%	0.0

Source: Bloomberg Finance L.P.

In the last couple of months, we have seen a raft of profit-warnings in both Europe and in the US. These companies on average declined 9% relative to the broader benchmark on the day of the warning. This might have already reset the expectations among investors to a good extent.

#### ...FX matters for regional outcomes...

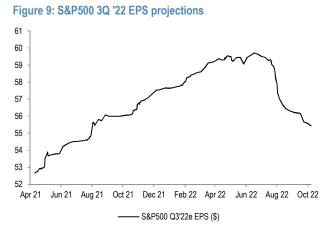
Figure 8: % of companies beating sales estimates in US vs Europe and EUR/USD



Source: JPMorgan, Bloomberg Finance L.P.

European EPS revisions are stronger than in the US partly due to better currency backdrop. FX does have a clear impact into the relative EP Sand sales outcomes between regions.

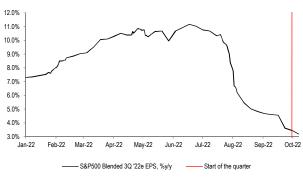
# ... projections have come down most recently in the US



Source: Thomson Reuters

Consequently, US projections are coming off most recently. Estimates for S&P500 Q3 EPS have been revised lower by \$5, from \$60 to \$55.





Source: Thomson Reuters

The growth rate has come down from 10-11% to 3% most recently.

#### Figure 11: Eurozone 3Q'22 EPS, %y/y ytd



Source: Thomson Reuters

Europe is not seeing yet a rollover.

#### Table 3: Q3 '22 EPS growth estimates, yoy%

	Q3 '22e EPS growth, %y/y						
	US	Europe	Eurozone	Japan			
Energy	120%	169%	141%	21%			
Materials	-7%	-30%	-33%	-20%			
Industrials	25%	43%	68%	35%			
Discretionary	8%	5%	11%	19%			
Staples	-6%	15%	13%	-9%			
Financials	-15%	-1%	7%	-30%			
Health Care	-7%	13%	15%	10%			
IT	-4%	0%	-3%	29%			
Com. Services	-18%	3%	1%	-2%			
Utilities	-7%	11%	11%	-249%			
Real Estate	-2%	2%	1%	-5%			
Market	1%	29%	21%	6%			
Market Ex-							
Financials	5%	41%	27%	12%			
Market Ex-Energy	-6%	5%	5%	6%			
Cyclicals	3%	5%	0%	21%			
Defensives	-10%	12%	11%	-14%			
Value	17%	57%	47%	-26%			
Growth	-6%	11%	9%	13%			

Source: IBES, \* Value includes Energy and Financials. Growth includes Tech, Healthcare and Staples

In terms projections breakdown, S&P500 earnings ex Energy are expected to decline 6% y/y for Q3 '22. In comparison, European companies are expected to deliver an earnings growth of 5% y/y, ex Energy.

#### Table 4: Q3 '22 sales growth estimates

	Q3 '22e Sales growth, %y/y					
	US	Europe	Eurozone	Japan		
Energy	49%	69%	74%	24%		
Materials	4%	13%	11%	18%		
Industrials	13%	17%	16%	14%		
Discretionary	14%	22%	21%	18%		
Staples	6%	19%	18%	7%		
Financials	3%	6%	7%	-12%		
Health Care	4%	12%	12%	8%		
IT	5%	13%	15%	12%		
Com. Services	4%	7%	8%	4%		
Utilities	4%	7%	4%	39%		
Real Estate	13%	8%	6%	3%		
Market	10%	24%	21%	13%		
Market Ex-Financials	11%	27%	24%	15%		
Market Ex-Energy	6%	14%	14%	12%		
Cyclicals	10%	18%	17%	16%		
Defensives	4%	11%	11%	11%		
Value	22%	38%	34%	0%		
Growth	4%	14%	15%	10%		

Source: IBES, \* Value includes Energy and Financials. Growth includes Tech, Healthcare and Staples

Topline is projected to grow at a healthy 6% in the US, and as much as 14% in Europe.

#### Activity momentum is likely to stay on a softening path, our base case is European recession, we look for 10% EPS contraction in 2023

Figure 12: Eurozone M1 growth (deflated by HICP) v PMI



Source: Bloomberg Finance L.P., S&P Global

Our money supply indicator suggests that Eurozone PMIs are likely to remain in contraction territory in the coming months.

#### Table 5: Eurozone Real GDP projections

		Real GDP								
		% over previous period, saar								
	2Q22E	2Q22E 3Q22E 4Q22E 1Q23E 2Q23E 3Q23E 4Q23E								
USA	-0.6	2.0	1.5	1.0	0.8	0.7	0.5			
Eurozone	3.1	0.5	-1.8	-1.0	2.0	2.0	2.0			
UK	0.9	-0.5	-1.0	0.7	1.3	1.0	0.0			

Source: J.P. Morgan.

Our economists are projecting a mild recession in Eurozone, starting in Q4.

#### Figure 13: Eurozone EPS growth vs GDP growth



Source: IBES, JPMorgan

This is likely to weigh on the earnings outlook. Current bottom-up consensus growth expectations of 4% EPS growth for Eurozone earnings for next year appear too optimistic, in a recession scenario.

Our base case is for 10% y/y decline in European earnings in 2023.

Table 6: Fall in MSCI Eurozone 12m Fwd. EPS during past

#### Historical EPS decline in downturns was of the order of 20-40%...

Peak in 12m Fwd EPS	Trough in 12m Fwd EPS	Peak	Trough	Peak to trough move	#months
Feb-92	May-93	4.2	3.1	-27%	15
Oct-01	May-03	9.7	7.6	-21%	19
Mar-08	May-09	16.1	9.3	-42%	14
Jun-11	May-13	13.1	10.5	-20%	23
Mar-20	Jul-20	12.9	9.0	-30%	5
Average				-28%	15
Median				-27%	15

recessions, and the duration of fall

Source: IBES

In the last 5 recessions, Eurozone earnings have on average fallen by 30%.

### Table 7: Fall in MSCI US 12m Fwd. EPS during past recessions and duration of fall

Peak in 12m Fwd EPS	Trough in 12m Fwd EPS	Peak	Trough	Peak to trough move	#months
Jan-91	May-91	28.8	24.7	-14%	3
Aug-00	Nov-01	62.4	48.2	-23%	15
Oct-08	Apr-09	98.1	59.2	-40%	6
Mar-20	Sep-20	172.7	146.0	-15%	6
Average				-23%	8
Median				-19%	6

Source: IBES

US earnings on average contracted by 23% in the last few recessions.

#### Table 8: Fall in MSCI UK 12m Fwd. EPS during past recessions and duration of fall

Peak in 12m Fwd EPS	Trough in 12m Fwd EPS	Peak	Trough	Peak to trough move	#months
Dec-90	May-92	70.4	56.2	-20%	17
May-01	Mar-02	98.7	92.1	-7%	10
Sep-08	Jun-09	182.0	109.0	-40%	9
Oct-11	Dec-12	181.6	161.5	-11%	14
Mar-20	Jun-20	161.4	113.1	-30%	3
Average				-22%	11
Median				-20%	10

Source: IBES

UK typically saw an earnings fall of 22%.

# ...we look for a milder earnings decline than in the past: 1) Nominal GDP growth will still be positive...

#### Table 9: Nominal and Real GDP growth projections

	JPM Re	al GDP forecas	ts (%y/y)	JPM Nominal GDP forecasts (%y/y)			
	United States	Eurozone	United Kingdom	United States	Eurozone	United Kingdom	
2021	5.9	5.2	7.5	10.7	7.4	7.9	
2022e	1.8	3.2	4.3	8.7	7.0	10.1	
2023e	1.0	0.4	0.2	3.7	2.5	5.7	
Median	2.3	1.6	2.6	4.1	2.8	4.1	

Source: J.P. Morgan.

While we expect a mild downturn in Eurozone, nominal GDP growth will still likely be around the trend levels seen over the last decade. Earnings at the end of the day are nominal.

Figure 14: MSCI Eurozone 12m Fwd Sales vs GDP growth

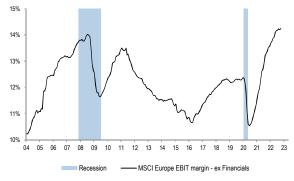


Source: IBES, JPMorgan

Topline growth has historically been closely linked to the level of nominal GDP growth.

#### ...margins will be lower, but not by much

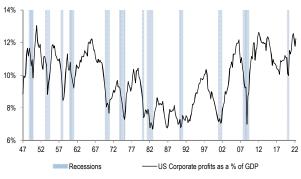
#### Figure 15: MSCI Europe EBIT margin - ex Financials



Source: Datastream

Profit margins are likely to move lower, from record high levels.

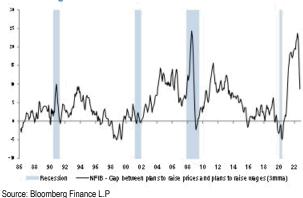
#### Figure 16: US corporate profit margins



Source: BEA

In the US, profit margins are close to historical highs.

Figure 17: NFIB survey - Plans to increase prices minus plans to increase wages



Our profit margin proxy is pointing to a peaking out in margins going forward, driven by some loss in pricing power.

<b>T I I 40</b>	<b>•</b> • • •		
1 2010 11	· Commonte	on pricing	nowor
	: Comments		DOWEI

Tieker	Commonto
Ticker	Comments Chief Executive Officer Brian Niccol said the results demonstrate
	the chain's customers are willing to pay more for their
	burritos. In a statement, he said the results were positive amid
	"inflation and consumer uncertainty." The company is planning to
CMG US	increase its prices in August.
	Walmart is absorbing some price increases rather than
WMT US	passing these on to consumers
2330 TT	TSMC is resilient, and the margin outlook shows the company's continued pricing power
200011	The Levi's brand possesses pricing power that should help
	mitigate and minimize any ongoing inflationary pressures
LEVI US	throughout its operations.
	Since the pandemic hit, FedEx and other couriers have had the
	upper hand on shippers and aggressively raised delivery prices as
	package demand spiked. It's unclear how long
	the pricing power will last as package volume begins to
FDX US	cool. The company said it also gained from surcharges related to rising fuel costs.
FDA US	Lindt & Spruengli is expected to show strong growth amid good
LISN SW	demand for premium chocolate and its pricing power
	Reckitt's improved agility is reflected in solid pricing power,
	resulting in a strong 1H beat. This underpins the substantial 2022
	guidance hike in like-for-like (LFL) sales and adjusted Ebit margin
	with an expansion now expected vs. an unchanged margin
RKT LN	seen before.
CALM US	Cal-Maine Foods stock ticks higher on record net income,
CALIW 03	pricing power Intertek Group PLC said Friday that pretax profit and revenue
	rose for the first half because of strong pricing power and
ITRK LN	disciplined cost management.
	Sika's 1H EBIT and margins were better than consensus had
	expected thanks to the specialty-chemicals company's pricing
SIKA SW	power,
ALV US	Autoliv stock accelerates as pricing power cushions profits
GT US	Goodyear Tire stock gains as pricing power outpaces inflation
HEIA NA	Heineken flexes pricing power to overcome inflation issues BofA's Estimate for 2Q 2022 of 7.4% growth reflects <b>"continued</b>
	strong pricing power in key salty snack categories, with y/y
	pricing up +9% in Frito Lay North America, and the know-how to
PEP US	take pricing against FX in emerging markets"
	Regarding consumer staples, UBS Strategists say the firm's
	machine-learning model implies better returns than
	utilities/REITs, and staples is cheaper;
Chanles	Strong pricing power and declining commodity prices are
Staples	also seen as tailwinds for the sector When it comes to pricing power, luxury goods firms are in a
	good position thanks to solid demand, according to Morgan
	Stanley, which says that Gucci-owner Kering SA hiked some
Luxury	prices last month by 7% versus February.
	Still, the strong pricing power of luxury firms gives them an
	advantage at a time of spiraling inflation, from which
	Morningstar analyst Jelena Sokolova says they are "insulated to
Luxury	an extent" due to affluent customers being less squeezed by
Luxury	surging living costs. Semiconductor stocks have very good odds of rebounding
	as these companies have strong pricing power and their
Semiconductors	valuations are reasonable, according to Robeco Hong Kong Ltd.
	BlueBay's Yazgan says "amazing pricing power over
	consumers" has allowed carmakers to pass on costs well so
	far. "Now it will have to be tested if they can keep pricing at the
	same levels in a recessionary and inflationary environment with
Autos	consumers a lot weaker," she says.
Building materials	Building Materials Pricing Power Aids Revenue, Offsets Inflation
materiala	

Source: J.P. Morgan

In the last quarters we have had a number of companies highlight strong pricing power, but that is likely turning now, as inventories are on the rise, and final demand is more questionable.

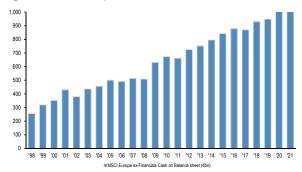


Figure 18: US corporate profit margins and US 10Y bond yield

We believe that bond yields will not move much higher from here over the next few quarters. If that view materializes, the pressure on corporate funding, and in turn on corporate profit margins might not get worse.

# 2) Stronger corporate balance sheets reduce the likelihood of dilutive recapitalizations...

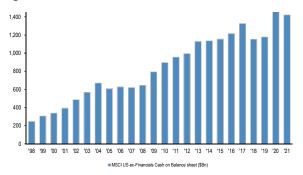




Source: Worldscope

Cash balances among European corporates are close to record levels.

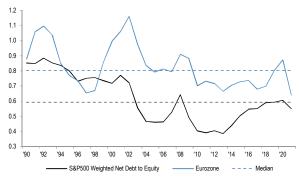




Source: Worldscope

Even in the US, corporate balance sheets are flush with cash.

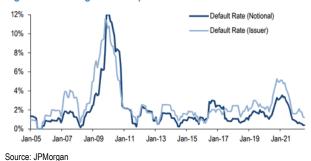
Figure 21: Net debt to equity ratio for US and Eurozone



Source: Worldscope

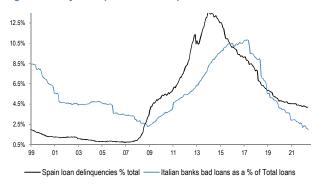
Leverage ratios remain below historical levels. Balance sheets resilience reduces the likelihood of any material recapitalizations.

#### Figure 22: Trailing 12m European HY Default rates



We also note that the default rates are very low. Our European credit team expects default rates to nudge higher to 1% by the end of the year, but this is still well below historical average.

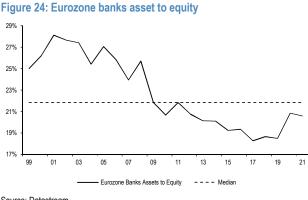
#### Figure 23: Italy and Spain loan delinquencies



Source: Banca d'Italia, Bloomberg Finance L.P.

Source: BEA, Bloomberg Finance L.P.

Delinquencies remain close to the bottom of the range. Our credit strategists aren't looking for a significant pick up in defaults.



Source: Datastream

Mislav Matejka, CFA

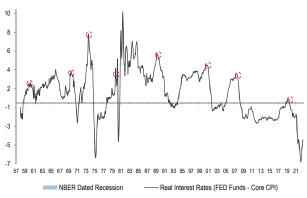
mislav.matejka@jpmorgan.com

(44-20) 7134-9741

Banks balance sheets are also much healthier these days. We believe that credit supply will likely be more resilient this time around.

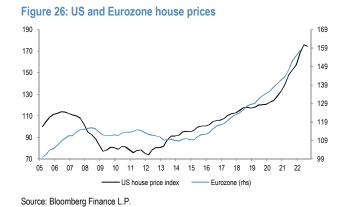
#### ... real rates are still low, and balance sheet recession is unlikely

#### Figure 25: US Real rates



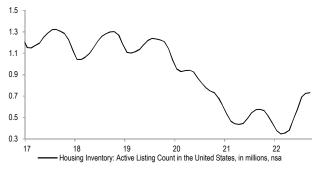
Source: Bloomberg Finance L.P.

The gap between inflation and nominal bond yields remains extreme, with real rates which are still very attractive in the long term context.



We do not see a need for a material adjustment in house prices, at least nothing on the scale of GFC, where US house prices fell 30% from the peak and Eurozone house prices saw a peak to trough drop of 4%.

#### Figure 27: US Housing Inventory



Source: Fred

Given the relatively low levels of housing inventory we do not expect any material downside in house prices this time around.

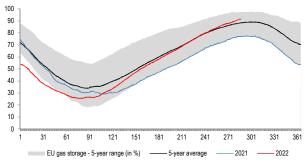
#### 3) European natural gas storages are full and the risk of forced shutdowns remains low...

#### Figure 28: EU natural gas prices



We keep the view that gas prices could come lower even as we are heading into the winter, and that forced shortages are unlikely. Natural gas prices are already down 50% from the highs.

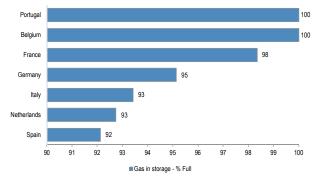
#### Figure 29: EU natural gas storage, % full

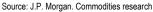


Source: J.P. Morgan. Commodities research

Storage facilities for natural gas across Europe are running close to capacity.

#### Figure 30: European countries gas storage, % full





The situation is particularly encouraging for the northern-European countries which were traditionally more reliant on Russian gas.

### Table 11: Scenario analysis for natural gas with respect to the weather and Russian flows

Scenario	Winter weather	NS1 Flow level*	Full Reductions in Russian flows through Ukraine?	%NW Europe fills in for lost flows	End Sep'22	End Mar'23	End Sep'23
1	Normal	0%	No	N/A	92%	34%	83%
2	Normal	0%	Yes	50%	92%	27%	69%
3	Normal	0%	Yes	100%	92%	20%	62%
4	1 std colder	0%	No	N/A	92%	14%	63%
5	1 std colder	0%	Yes	50%	92%	7%	49%
6	1 std colder	0%	Yes	100%	92%	0%	42%

Source: JPMorgan Natural Gas Strategy, \*NS1 flow level set from September 2022 through December 2023, \*\*Flow reductions assumed to start in October 2022 through December 2023

Our commodity team does not expect gas availability to be an issue for Europe for this winter, except in the case of a colder than normal winter along with a complete loss of Russian gas flows.

We believe that gas supply issues are unlikely to lead to a forced shut-down during this winter.

# ...government intervention to shield consumer and industry will keep ramping up

Table 12: Measures announced by European countries to combat energy crisis

Country	Details
UK	Two-year plan to place a maximum annual cap of £2,500 for the average household on soaring energy bills for households from October 1 to address the country's cost-of-living crisis. Cover for businesses would be for 6 months, where the state will pay energy suppliers the difference between new cap and what energy retailers would charge their customers. Consumers also get a £400 subsidy that's already been announced.
France	Allow new wind and solar farms to sell their electricity directly on the market for 18 months before locking in their CfDs. The measure could increase investors' earnings tenfold compared to the CfD model. The government also intends to allow projects that have already won an auction to increase their capacity by up to 40% before completion. Government would help 12 million of France's poorer households cover their energy costs with one time checks of about 100-200 euros. Limit energy price increase to 15%.
Germany	Plans for continued cheaper public transport tickets and tax breaks for energy-intensive companies. Windfall taxes would likely be levied on energy companies to lower the price of gas, oil and coal for consumers. The two previous packages included a gasoline rebate, which expired at the end of August, the nine-euro transportation ticket and an energy price flat payment to workers. According to draft legislation, VAT on gas will drop to 7% from 19% from October until March 2024.
Spain	Spanish businesses, restaurants and museums will not be allowed to set air-conditioners below 27 degrees Celsius in summer or heaters above 19C in winter. Switching off store window lights after 10pm. Workers, the self-employed and the unemployed with incomes lower than €14,000 gross per year will receive direct aid of €200 to deal with rising living costs. Cabinet is set to approve a discount of 40% on energy bills for low income households.
Italy	30cents per litre cut to fuel duty. Reduction in VAT to 5% from 22%. Expected to push a new energy aid package to families and businesses worth about 13.5 billion euros.
Netherlands	The Netherlands has cut energy taxes for its 8 million households.
Austria	Chancellor Karl Nehammer said the cap should ease costs for an average household of three by about 500 euros (US\$494) per year. The government will provide around 3-4 billion euros to finance the measure, which will come into effect in December and last through the end of June 2024.
Belgium	Belgium will also cut energy use in public buildings by, for example, requiring air conditioning use to be reduced and heating only be turned up to 19 degrees Celsius maximum. Lighting in public buildings will be switched off between 7 p.m. and 6 a.m. Belgium plans to extend other energy measures currently in force until the end of March 2023, such as a social tariff for low- income families; a 6 percent VAT on electricity, gas and heat; as well as reducing the excise tax on petrol and diesel. Belgium promises to put a price cap on Russian oil.

Source: Various news sources

At the same time, governments across Europe have been stepping up support measures to shield the consumer as

well as the industrial complex from bulk of the ongoing energy price spike.

# 4) FX weakness is a strong tailwind for European earnings...



Source: Bloomberg Finance L.P.

Euro has depreciated 20% against the dollar since the start of last year.

#### Figure 32: Eurozone vs US EPS revisions and EUR/USD



Source: Datastream

This has been a big tailwind for the relative earnings delivery in Europe.

#### ... the gap has opened up between Europe and the US

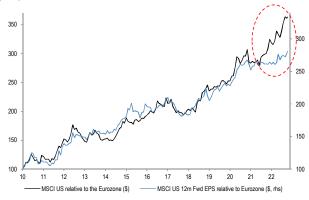




Source: Datastream

Notably, the gap has opened up between regional prices and earnings relatives.

### Figure 34: US EPS relative to Eurozone and relative performance (in \$)



Source: Datastream

US is outperforming Europe given the weaker relative earnings delivery. This is the case in both local and common FX.

#### 5) Europe could benefit next year from potential China reopening

Chinese growth has decelerated sharply in the last couple of years largely owing to increased regulatory uncertainty. This happened even as European and US growth trends were firming up over that timeframe, as these regions recovered earlier from the COVID fallout.

#### Table 13: US, EMU and China GDP growth forecasts - Heatmap

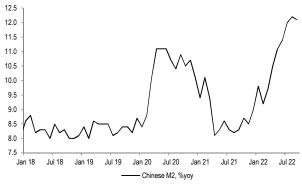
	Real GDP % over previous period, saar				
	2020	2021	2022E	2023E	
United States	-2.8	5.9	1.8	1.0	
Eurozone	-6.2	5.2	3.2	0.4	
China	2.2	8.1	3.0	4.6	

Source: J.P. Morgan.

We expect China to start reopening the economy in the coming months, leading to a strong recovery in growth prospects for the country. In some sense, China may once again prove to be counter-cyclical to the growth slowdown being witnessed in the western world.

China is on-course to release its own MRNA vaccine, one that has already been approved by <u>Indonesia</u>. We believe that could be a potential trigger for the country to ease COVID related restrictions.

Figure 35: Chinese M2



Source: Bloomberg Finance L.P.

Chinese money supply has already inflected higher.

Table 14: Ke	v indices revenue	exposure to	different regions
--------------	-------------------	-------------	-------------------

				% Sales		
			Western			
		North America	Europe ex UK	UK	EM	Others
US	SPX	65%	6%	1%	8%	20%
Eurozone	SX5E	24%	46%	1%	20%	9%
UK	FTSE100	22%	16%	28%	23%	10%

Source: JPMorgan

From a regional perspective, European equities are much more leveraged to the China / EM growth story as compared to the US.

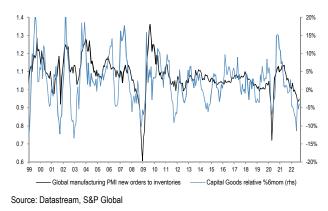
# At a sector level, Industrial and Chemical companies are likely to see a bigger contraction in margins...



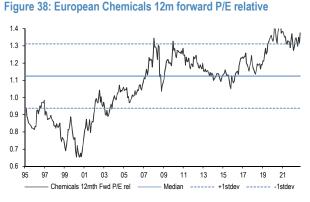


Industrial goods sector has struggled this year, but still continues to trade at elevated valuations.

Figure 37: Capital Goods relative vs Manufacturing PMI New orders to inventories



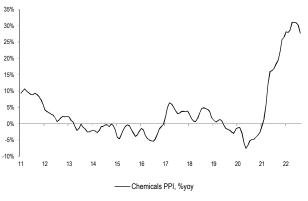
Weaker growth trends remain a problem for the sectors' performance.



Source: IBES

Chemicals also look expensive in a historical context.

Figure 39: Chemicals PPI %yoy



Source: Bloomberg Finance L.P.

The sector benefitted from a strong pricing and volumes tailwind, but those seem to be behind us now. The sector is also relatively more sensitive to the ongoing energy crisis and could see significant deterioration in margins.

#### ...Discretionary sector also looks vulnerable here

The Discretionary sector, in particular Retailers, are likely to see margins squeezed as costs pressures are further exacerbated by weakening currency and demand environment appears to be softening.

#### Financials earnings could continue to be resilient

Figure 40: Eurozone Banks relative EPS momentum



Source: IBES

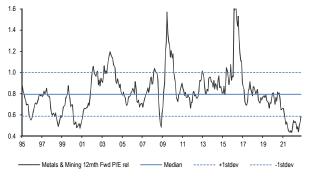
Earnings momentum has been quite strong for the Banking sector. Higher yields remain a tailwind for the sector's earnings.



Banking stocks also look extremely cheap on most valuation measures.

#### Commodity sector appears attractive

#### Figure 42: European Metals & Mining 12m Fwd P/E relative



Source: IBES

Valuations for Miners still look compelling, despite outperformance ytd.

#### We prefer Exporters over Domestics

#### Figure 43: Eurozone exporters vs Eomestics



Source: Bloomberg Finance L.P.

#### Figure 41: Eurozone Banks 12m Fwd P/E relative

Exporters have outperformed Domestic stocks this year. We believe this trend should continue.

#### Table 15: Eurozone Exporters basket

			Ex-W.E.
Name	Ticker	Sector	exposure
Swiss Re AG	SREN SW	Financials	87%
Fresenius Medical Care AG & Co	FME GR	Health care	84%
Pernod Ricard SA	RI FP	Staples	80%
L'Oréal SA	OR FP	Staples	79%
LVMH Moet Hennessy Louis Vuitt	MC FP	Discretionary	79%
Hannover Rueck SE	HNR1 GR	Financials	77%
Publicis Groupe SA	PUB FP	Comm. Srvcs	77%
Hermes International	RMS FP	Discretionary	77%
Sanofi	SAN FP	Health care	76%
Remy Cointreau SA	RCO FP	Staples	75%
HelloFresh SE	HFG GR	Staples	75%
Wolters Kluwer NV	WKL NA	Industrials	75%
Cie Financiere Richemont SA	CFR SW	Discretionary	75%
Kering SA	KER FP	Discretionary	74%
Sampo Oyj	SAMPO FH	Financials	73%
UCB SA	UCB BB	Health care	72%
Merck KGaA	MRK GR	Health care	71%
adidas AG	ADS GR	Discretionary	70%
Puma SE	PUM GR	Discretionary	70%
MTU Aero Engines AG	MTX GR	Industrials	70%
Muenchener Rueckversicherungs-	MUV2 GR	Financials	70%
Bureau Veritas SA	BVI FP	Industrials	70%
Bayer AG	BAYN GR	Health care	70%
Airbus SE	AIR FP	Industrials	68%
Dassault Systemes SE	DSY FP	IT	65%
Moncler SpA	MONC IM	Discretionary	64%
Acerinox SA	ACX SM	Materials	62%
HeidelbergCement AG	HEI GR	Materials	61%
Accor SA	AC FP	Discretionary	61%
Volkswagen AG	VOW GR	Discretionary	60%
Sodexo ŠA	SW FP	Discretionary	60%
Davide Campari-Milano NV	CPR IM	Staples	60%
Koninklijke Ahold Delhaize NV	AD NA	Staples	60%
Iberdrola SA	IBE SM	Utilities	60%
SAP SE	SAP GR	IT	60%
Safran SA	SAF FP	Industrials	59%
Bayerische Motoren Werke AG	BMW GR	Discretionary	59%
Zurich Insurance Group AG	ZURN SW	Financials	57%
GEA Group AG	G1A GR	Industrials	55%
Ubisoft Entertainment SA	UBI FP	Comm. Srvcs	55%

Source: J.P. Morgan.

Our basket of European exporters comprises of 40 stocks with significant international exposure, sensitive to moves in Euro- (names and their revenue exposure to ex-Eurozone region).

#### **Table 16: Eurozone Domestics basket**

Name	Ticker	Sector	W.E.
CaixaBank SA	CABK SM	Financials	exposure 100%
Gecina SA	GFC FP	Real Estate	100%
Merlin Properties Socimi SA	MRL SM	Real Estate	100%
Proximus SADP	PROX BB	Comm. Srvcs	100%
Koninklijke KPN NV	KPN NA	Comm. Srvcs	100%
ASR Nederland NV	ASRNL NA	Financials	100%
Eiffage SA	FGR FP	Industrials	95%
Assicurazioni Generali SpA	GIM	Financials	95%
Intesa Sanpaolo SpA	ISP IM	Financials	91%
ABN AMRO Bank NV	ABN NA	Financials	90%
Worldline SA/France	WLN FP	IT	88%
ProSiebenSat 1 Media SE	PSM GR	Comm. Srvcs	86%
Vinci SA	DG FP	Industrials	82%
UniCredit SpA	UCG IM	Financials	80%
NN Group NV	NN NA	Financials	78%
	ACA FP	Financials	77%
Credit Agricole SA KBC Group NV	KBC BB	Financials	75%
Carrefour SA	CA FP	Staples	72%
ING Groep NV	INGA NA	Financials	72%
		IT	70%
Indra Sistemas SA Renault SA	IDR SM RNO FP		69%
APERAM SA	APAM NA	Discretionary Materials	67%
		Industrials	
Cie de Saint-Gobain Edenred	SGO FP EDEN FP	Industriais	66% 64%
Industria de Diseno Textil SA			63%
Allianz SE	ITX SM ALV GR	Discretionary Financials	61%
BNP Paribas SA	BNP FP	Financials	61%
BNP Paribas SA BNP Paribas SA		Financials	61%
	BNP FP		
Deutsche Post AG Alstom SA	DPW GR ALO FP	Industrials Industrials	60% 60%
	CAP FP	Industriais	60%
Capgemini SE		IT	
Atos SE	ATO FP OUT1V FH	Materials	60% 59%
Outokumpu Oyj ArcelorMittal SA	MT NA	Materials	59% 57%
AXA SA	CS FP	Financials	56% 55%
voestalpine AG	VOE AV BCP PL	Materials Financials	55%
Banco Comercial Portugues SA		Health care	52%
Ipsen SA	IPN FP		
Rexel SA	RXL FP	Industrials	50%
Prysmian SpA	PRY IM	Industrials	50%
Siemens AG	SIE GR	Industrials	50%
Evonik Industries AG	EVK GR	Materials	48% 37%
Assa Abloy AB	ASSAB SS	Industrials	
Banco Bilbao Vizcaya Argentari	BBVA SM	Financials	30%
Signify NV	LIGHT NA	Industrials	30%
Legrand SA	LR FP	Industrials	30%
Banco Santander SA	SAN SM	Financials	29%
Compass Group PLC	CPG LN	Discretionary	26%
Nordea Bank Abp	NDA SS	Financials	20%

Source: J.P. Morgan.

Our basket of European domestics comprises of 40 stocks with significant Eurozone exposure, which are highly geared to the domestic recovery – (names and their revenue exposure to Eurozone region).

### Figure 44: Q3 Earnings preview by JPM sector analysts

Sector	(+) / (-)	Comments
Energy	(+)	Sector analysts maintain their Energy Supercycle and bullish Energy equities views following our recent 'Joules' deep dive which underlined the EU Majors' pivotal role in solving for energy security in tandem with transition through portfolios set to deliver/sell ~10% of global energy demand to 2025. Nearer term, amidst ongoing recession-related concerns they look to the majors latest perspectives on the rate of change in demand as a key focus for 3Q updates after last month's Back to School seminar indicated trends holding firm into autumn with weakness limited to isolated pockets. With that in mind and OPEC+ 2mb/d quota cut putting a firmer floor under oil, they view valuations as highly attractive. At \$102/\$85 Brent 2022/23, they model EU Oils FCF yields at 24/18%, respectively, with FY22 now inclusive of estimated EU windfall levies. They estimate the sector is pricing in no more than \$60/bbl LT Brent and model cash cycles substantially in-the-money at ~\$65/bbl post-buybacks. While recent 3Q trading statements revealed mixed operational/trading datapoints, they ultimately expect reporting season to underline that accretive backdrop with 12M rolling CFFO pre- WC set to reach record levels >\$250bn.
Construction Materials	(+)/ <b>(-)</b>	European Building Materials: Sector analysts expect top-line growth across the sector driven by positive pricing momentum, with many companies noting that further actions have been taken in the quarter in light of cost inflation. From a volume perspective, they expect activity to be softening. With respect to profitability, they expect cost inflation to continue to weigh on EBITDA/EBIT, though to varying degrees across our coverage (similar to what we saw in H1). So far commentary from the corporates has been mixed, with Sika noting not much change in overall dynamics since H1 and Holcim CEO stating that he is confident on H2 despite the recessionary concerns, which he does not seen in Holcim's markets. In contrast, Heidelberg Management has been more cautious talking about how volatile trends have been from both a price/cost and volume perspective. UK Housebuilders: With a fairly solid forward orderbook which covers 6-9 months, the UK Housebuilding sector is unlikely to see impact on earnings during Q3/H2 for CY-2022. They note that house prices have held up well so far, offsetting build cost inflation which is likely to remain at high single-digit level, similar to H1. However, following the mini-budget and mortgage market reset, they expect commentary to start turning cautious and focus will be on recent trends reservation rates, with Barratt recently reporting cautious trend post mini-budget. European Infrastructure: They expect mixed performance with resilient revenues at French toll roads against tough comps YoY, and continued good trends in US Managed Lanes while the 407 in Toronto already reported softer than expected trend for Q3. For European Airports, they know Q3 traffic trends have been improving and expect strong performance in international portfolios to support revenue growth in the quarter although cost energy cost headwinds remains for airports not hedged, coupled with increasing opex in general.
Metals & Mining	(+)	Mining: The majority of Mining coverage will only report Q3 production/output, with no financials and/or conference calls. Sector analysts therefore would not expect significant changes to guidance, where this has been given (the opportunity for guidance updates will be the various CMD's towards Year End). Within their European Mining coverage, Norsk & Boliden are 2 of the few companies that will report a full set of financials (LUMI SS will, as well). Both companies are levered to power- intensive commodities (aluminium, zinc, respectively) but hedging / internally sourced power will help to mitigate cost headwinds (and potentially even allow the companies to sell spot power at a profit) & a weaker domestic FX vs the US\$ will be a benefit QoQ. As such, they believe both can report a strong set of results vs current consensus. Any commentary on what these companies are seeing/expecting on cost/inflationary effects will be closely watched, but they expect weaker FX is proving a strong mitigating factor; any other comments on demand, cash flow and uses of surplus capital will also be watched. Steel: They expect Carbon steelmakers' earnings will unlikely trough until mid-2023, given the lagged effect of lower prices & higher costs hitting margins, as well as lower shipments on weak end-demand especially consumers such as automotive & construction (these segments account for combined ~50-60% cf. EU steel demand). On their updated forecasts, this means profitability over the next 3-4 quarters could test the 2020 COVID-19 lows . They now sit on avg >50% below Bloomberg consensus' Dec'Q EBITDA. An outlier is SSAB (only OW) where they are ~25-40% above Street forecasts over the next 2 qtrs given stronger plate price dynamics. A key push-back on our cautious message has been a working capital release offsetting lower earnings. But, with production continuing to track (or even outpace) shipments, this could limit the ability to unlock finished goods inventory, in their opinion.
Capital Goods	(+)	Sector analysts expect demand commentary to remain robust, reflecting a backdrop that appears little changed versus the Q2 as trading continues to defy deteriorating macro indicators. They see limited differentiation by end market and weakness only in specific and rare exceptions. They see the Q3 set-up similar to that ahead of the Q2. The Q2 saw the median company beat by 10%/4%/3% on orders/sales/earnings yet the median share price was only +1% on the day. They see the potential for the Q3 to follow this pattern; their Q3 earnings are on average ahead of consensus but they expect investors to quickly discount another solid quarter, instead focusing on an outlook where the macro has further deteriorated and looking for signs the companies are finally seeing the expected slowdown.
Aerospace & Defense	(+)	Civil Aero: In Q3 22, sector analysts expect Airbus to deliver 29% sales growth in its civil aircraft division, driven by 10% higher deliveries, a 10% FX benefit, and a better mix (i.e. more wide body planes). However, they expect its margin to be lower than in H1 22 as it invests in its business (mainly recruitment) ahead of a steep planned production ramp. Also in Q3 22, we expect Safran and MTU Aero to report robust organic aftermarket growth helped by airlines "pre-buying" spare parts ahead of double digit price increases coming into effect in Q4 22. For these three companies they do not expect any material changes to 2022-23 guidance as the positives of FX and strong pricing power offset challenges (weaker GDP growth, cost inflation, supply chain issues). Defence: They do not expect any major surprises from European Defence companies in Q3 22. However, in recent months most European Defence companies have cautioned that the expected large increases in European defence budgets will be a gradual, multi-year process. As a result, investors / analysts expecting very strong growth in 2023 may need to recalibrate those expectations. They still believe we are entering a decade-long upcycle in defence spending, but we also acknowledge

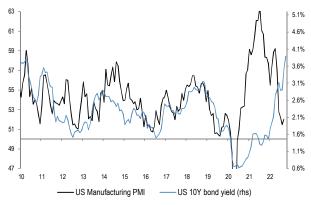
		that politicians often move more slowly than financial markets. Many defence stocks have pulled back over the last three months so they believe share prices largely reflect the more gradual pace of the expected upturn.
		Overall sector analysts are expecting a strong earnings season supported by production volumes which have started to recover thanks to stronger availability of semiconductors in the market globally. Pricing power in the automotive sector
Automobile	(+)	globally continues to show great discipline globally supporting earnings and free cash flow. Overall they expect a strong third
		<ul> <li>quarter results season with all eyes set now into 2023</li> <li>Q3 22 likely remained generally robust for the sector, supported by China's re-opening and tourists returning to Europe.</li> </ul>
		Sector analysts think a robust Q3 is well expected by the market, which instead continues to debate on the outlook for the
Luxury	(+)	<ul> <li>Iuxury consumer going into Q4.</li> <li>While, so far, the consumer at the higher price points seems to be holding steady, they continue to expect growing volatility</li> </ul>
Luxury		in consumer behaviour, as they move into tougher comps, savings are spent and inflationary pressures continue to grow.
		Hence, they would expect comments on exit rates and current trading to be closely scrutinised and to overshadow good Q3     numbers.
		Sector analysts expect ad agencies to see slower growth against tougher comps. Broadcasters are likely to see negative ad
Media	(-)	growth given comps and weaker macro although this will be partially / fully offset by growth in production / non ad revenues. Info Services and Publishers may see a marginal slowdown in transactional / residual print revenues – but this will only have
		a very marginal impact at the group level. Music subscriptions should be very robust but they are likely to see a slight
		softening of ad revenues and physical. In Q3, the focus for UK and European retailers continues to be around the impact of rising cost of living on topline and input
		cost and opex headwinds. In the sector analysts view the cost of living crisis for consumers has only just begun and retailers enter this, at best uncertain, environment with input costs & opex still much higher than pre-crisis levels. Amid the increasing
		inflationary pressures and low consumer confidence across the board, the risk and uncertainty around the top-line outlook
		remains. Gross margin also continues to be under pressure from still elevated freight and fabric prices, coupled with worsening FX headwinds in the second half. Whilst freight and cotton have more recently come down from peak levels which
		could provide some relief into next year (albeit remaining ahead of pre-COVID levels), USD strength is unhelpful meaning that
		external factors are likely to be a net headwind yoy into 2023. Below gross profit inflationary pressures continue to build in opex (energy/ final mile/ staff wages). An additional headwind for the pureplays especially has been worsening unit
Retailing	(-)	economics given the drag from smaller basket size and increasing return rates, albeit FX headwinds should be less severe in
		this space). Broadly, they are particularly mindful of those retailers with relatively low operating margins (in the LSD-MSD% range), therefore with high operational gearing exacerbating the magnitude of any potential downgrades. By category:
		clothing trends had started to slow through the summer as catch-up spend began to fade, albeit performance looks to have improved in September supported cooler and wetter weather (albeit in their view this could simply pull forward demand from
		subsequent weeks); within the home category, softer trends have continued albeit DIY has remained more resilient, likely
		supported by housing market tailwinds (although of course cracks already starting to appear here given the recent increase in mortgage rates). Looking ahead, they expect consumer discretionary spending to continue to deteriorate through Q4 as the
		"catch-up" effect wanes further and impacts on disposable income continue to bite more acutely.
		Sector analysts expect a set-up of top-line beats in Q322 – as was the case in Q1 and Q2 – buoyed by resilient volumes and accelerating pricing. This should lead to upside risks to LFL FY22/23E as pricing annualization and further price
Food & Tob	(+)	implementation in H123 are likely to support top lines into next year. While the market is geared to weakening volumes, they
		expect a fairly resilient set-up (also helped by strong EMs and category benefits from a good summer) offering limited evidence of consumption impact from higher costs of living. Softening Raw Materials and transport costs should also support
		further margin rebuilding in FY23E, which along with FX upgrades, add to positive EPS momentum in the sector Sector analysts expect top line momentum to continue across Beverages in Q3 with +12.0% organic sales. In Beer they
		anticipate +14.7% organic sales with good contribution from both volume (+5.5%) and price/mix (+9.2%) and in Spirits they
Beverages	(+)	expect double-digit organic sales growth for all three companies that report Q3. They expect the Beverage companies to show limited signs of volume elasticity in Q3, though questions remain on the sustainability of pricing into 2023 while cost
		inflation will remain a headwind through at least H123.
		<ul> <li>Q3 started quite slowly for most companies across the sector as July saw higher levels of vacations for Healthcare workers and patients, notably in the US.</li> </ul>
Medtech	(+)/ <b>(-)</b>	<ul> <li>August and September saw some recovery, although nurse shortages are still likely to act as a cap for some procedures.</li> <li>Supply chains are improving slowly, but there are still pockets of disruption.</li> </ul>
		Sector analysts key concern is that guidance in most cases assumes improvement in H2, leaving more downside than
		upside risk to FY22 and FY23 forecasts. Cost inflation remains a key risk. Sector analysts are cautious overall and see risk-reward requiring an assessment of the base-case soft landing alongside a
		downside stagflationary scenario. They see risk-reward unattractive in 'core' Euro area and do not include any German,
		French, Spanish or Italian banks exposure to their Top Picks portfolio. Market expectations for yield curves have become more hawkish through the guarter and are expected to drive the earnings profile in the medium term with deposit pass
		throughs still low. They also see a c2% refinancing earnings risk for the sector with regards to wholesale funding and rising
		CDS, although this will play out over the medium term with only a gradual debt maturity schedule. Key topical areas include: 1) The NII outlook/sensitivities considering loan growth in a slowing macro environment, higher
Banks	(-)	yield curve, low deposit betas at present but expected to rise, and asset price competition. Tiering and remuneration of deposits/TLTRO will also be followed closely. 2) The outlook for Fees given economic pressures impacting sentiment and a
		further fall in equity markets impacting flows and AUM. 3) Inflationary impacts on the cost base remaining persistent which
		could impact any cost targets that banks have in place – particularly where we see absolute cost targets. 4) IFRS9 provisioning given the deterioration in the economic outlook (note concerns such as inflation, rising energy prices, geopolitical
		tensions, real estate price pressure (e.g. in the Nordics)) with provisioning expected to front-load any economic impact and
		macro scenarios updated; however, we note that actual defaults are likely to still remain low. 5) Discussions around the outlook for capital return given regulatory comments (e.g. ECB comments on restraints on pay/dividends) and the macro

		environment, balanced with a more positive revenue/pre provision profit outlooks. 6) IB-geared stocks are expected to see trading revenue benefits from volatility, particularly those with Rates/FX/Commodities gearing over Credit, whilst IBD fees are expected to remain muted. Transaction Banking and Cash mgmt divisions are expected to see another strong quarter given higher rates and volatility.
Diversified Financials	(+) <b>/(-)</b>	Sector analysts expect the European exchanges to report resilient Q3 guided by strengthening USD, elevated volatility and increasing interest rates. LSEG is the most exposed to the appreciation of the USD, while DB1 will likely benefit from higher rates and elevated volatility. They see greater risk for wealth manager and D2C platforms, due to a negative mark-to-market impact on AUM, subdued net flows and lower customer growth, largely caused by the increase in the cost of living.
Insurance	(+)	Rising interest rates and inflation will continue to be at the top of the agenda for the insurance sector. The significant increases in yields in the quarter are likely to have driven Solvency levels to their highest levels since the European Solvency regime was introduced in 2016 and therefore sector analysts see the sector in aggregate being able to navigate market turbulence. Q3 on the non-life side of the insurance sector will see the impact of Hurricane Ian, which at this stage looks like being the costliest insured event in history. Therefore, they would expect this and the market reaction ahead of the January reinsurance renewals to be the key focus.
General Healthcare	(+)	For 3Q'22, sector analysts anticipate earnings to be broadly in-line with expectations, with the exception of Sanofi and GSK, where they see the potential for upside to Consensus numbers. They see the sector continuing to benefit from a positive FX tailwind due to dollar strength, with the exception of AZN and NOVN, which are dollar reporters. For FY22 guidance, they see potential for a guidance raise in Sanofi, GSK and Novo.
Telecoms	(-)	Expectations have rebased on energy cost fears. Sector analysts believe current consensus is now credible
Utilities	(+)/ <b>(-)</b>	Sector analysts expect another round of solid earnings across the Southern European utilities, as the P&L should continue to benefit from the gradual repricing of retail contracts as they roll off, while the comps are in general relatively easy and the hydro shortfall should have a small impact on earnings given the low absolute output levels under normal weather conditions in Q3 due to seasonality. Overseas activities should continue to benefit from a robust performance in local currency as well as from the forex tailwind. On the other hand, they expect a more negative performance of net debt figures, given the high amount of dividends paid in the quarter and the negative moves in working capital, which together with the negative side of the Euro weakness should mean rising net debts at a time when refinancing costs are surging. In the UK, reported earnings will be suppressed by higher opex and higher ret finance costs due to inflation on index-linked debt, although this will be recovered in future years as inflation drives higher revenues in future years. Sterling weakness will be a tailwind for those companies with US businesses, or exposed to commodities priced in USD.

Source: J.P. Morgan.

# Our recent call is that bond yields are in the process of peaking

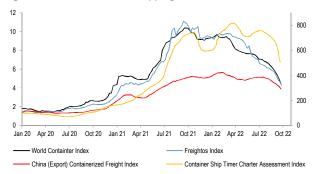
Figure 45: US 10Y bond yields and US manufacturing PMI



Source: Bloomberg Finance L.P.

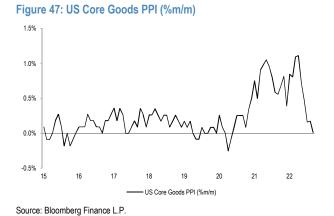
We argued 2 weeks ago that bond yields are likely to stall, given the weaker activity momentum, as well as the signs of disinflation popping up.

Figure 46: Global container shipping rates



Source: J.P. Morgan Economics Research, LHS in thousand USD /40ft-box Index, Dec 2019=100  $\,$ 

A number of indicators are pointing to a softer pricing environment down the line, as well as to past dislocations easing.



Stylized, we find 4 stages to inflation process: commodities first, then goods, then services, and finally labour market, which is last and very lagging. Commodity prices have already stalled in the past 4-5 months, now is the time for goods inflation to move lower, as inventories are picking up. Next will be services, and that could leave wages without much impetus to start creating a vicious cycle.

If our call of peaking bond yields comes through, that will go a long way to support overall market valuations, in our view. Global Markets Strategy 17 October 2022

### Equity Strategy Key Calls and Drivers

Over past weeks, we have fielded numerous calls by global/US investors, who are bearish on Europe, with one of the key questions being: why is Europe not lagging much more relative to the US? Reports of much more significant size of short positions in Europe than in other regions are frequent in the media, as well as of the biggest UW on the region ever, vs global benchmark. In light of all of this, it is interesting to note that in local FX SXXP ytd is down 16%, vs SPX down 18%. So, is Europe a clear short? Our base case is for a Eurozone recession, but we do not think that Europe offers only downside, as: 1) Our view remains that natural gas prices will move lower, given the good progress on refilling of storages, new LNG coming in, as well as already reduced consumption, and therefore that forced shutdowns are unlikely. 2) Eurozone is historically high beta on the way down, partly as Banks and periphery would act as a weak link. This time around, Eurozone Banks are well capitalized, and peripheral spreads are not expected to have a disorderly widening, courtesy of the ECB backstop. 3) Earnings could be acting better than typically, and a potential recession might be shallow, given resilient house prices and an EU labour market that has never been this strong. 4) Fiscal impulse is expected to be bigger in Europe than elsewhere. 5) ECB is expected to be less aggressive than the Fed. 6) P/E discount of Eurozone to the US has never been as large as it is currently, with very light positioning. From the broad market perspective, last week's CPI print was disappointing, but we don't think the call of inflation peaking, and consequently of the Fed likely becoming more balanced post the September hike, is off. PPIs are down, and compared to what is currently priced in futures, the Fed is unlikely to get more hawkish.

#### Table 17: J.P. Morgan Equity Strategy — Factors driving our medium-term views

Driver	Impact	Our Core Working Assumptions	Recent Developments
Global Growth	Positive	The pace of growth is likely above trend in 2022	Global composite PMI is at 49.7
European Growth	Neutral	Eurozone real GDP expected to contract in Q4 '22 and Q1 '23	
Monetary Policy	Neutral	Fed is close to peak hawkishness, at least relative to what is priced in currently	
Currency	Neutral	USD is close to peak and positioning on the \$ is stretched.	
Earnings	Positive	Continue to see gains for earnings, ~15% y/y in Eurozone	Consensus projects 16.9% EPS growth for Eurozone in 2022
Valuations	Neutral	P/E multiples have derated materially and could find some support.	MSCI Europe on 10.3x Fwd P/E
Technicals	Neutral	Sentiment is cautious, and technicals have improved.	AAII Bull-Bear is at all time low range

Source: J.P. Morgan estimates6

#### Table 18: Base Case and Risks

Scenario	Assumption
Upside scenario	Strong rebound in China. Ne further hawkish tilt by the Fed. Inflation to soften quickly.
Base-case scenario	Inflation to soften. Growth-Policy trade-off remains supportive
Downside scenario	Aggressive Fed tightening – policy mistake, in addition to no clear rebound in China

Source: J.P. Morgan estimates.

#### Table 19: Index levels

	Dec '22		
	Target	12-Oct-22	% upside
MSCI EMU	230	208	11%
FTSE 100	7,300	6,826	7%
MSCI EUROPE	1,680	1,560	8%
DJ EURO STOXX 50	3,620	3,332	9%
DJ STOXX 600 E	430	386	11%

Source: J.P. Morgan.

#### Table 20: Key Global sector calls

Overweight	Neutral	Underweight
Financials	Technology	Staples
Communication Services	Industrials	Healthcare
Energy	Discretionary	Real Estate
Materials	Utilities	

Source: J.P. Morgan

#### Table 21: J.P. Morgan Equity Strategy — Key sector calls\*

Sector	Recommendations	Key Drivers
Financials	Overweight	Sector looks cheap, earnings are improving, and it stands to benefit from rising bond yields.
Energy and Mining	Overweight	Both sectors have lagged the move in spot commodity prices, and should benefit from a weaker DXY, and better China liquidity
Healthcare	Underweight	Shows clear negative correlation to bond yields

Source: J.P. Morgan estimates. \* Please see the last page for the full list of our calls and sector allocation.

#### Table 22: J.P. Morgan Equity Strategy — Key regional calls

Region	Recommendations	J.P. Morgan Views
EM	Overweight	EM equities could perform better in 2H. The potentially improving relative growth would be a tailwind
DM	Underweight	
US	Neutral	US had a renewed period of outperformance since March, as FANG dominated, but this could stall.
Japan	Neutral	Japan is cheap and will undergo reopening, but political backdrop is not very supportive for the equity market.
Eurozone	Overweight	Global Cycle & Value play, trading cheap, beneficiary of stable peripheral spreads
UK	Overweight	Valuations look very attractive post 6 years of underperformance.
Others	Underweight	Cautious on Switzerland, HK and Australia.

Source: J.P. Morgan estimates

### **Top Picks**

#### Table 23: J.P. Morgan European Strategy: Top European picks

								PS Growt	h	Dividend Yield		12m Fwd P	E	Perfor	rmance
Name	Ticker	Sector	Rating	Price	Currency	Market Cap (€ Bn)	21e	22e	23e	22e	Current	10Y Median	% Premium	-3m	-12m
BP	BP/ LN	Energy	N	449	£	95.5	-	110%	-22%	4.6%	4.4	11.7	-62%	19%	25%
ENI	ENI IM	Energy	OW	11	E	40.7	-	157%	-28%	7.3%	4.3	12.7	-66%	2%	-5%
BASF	BAS GR	Materials	OW	42	E	38.5	111%	-5%	-21%	8.2%	7.8	13.1	-40%	0%	-35%
SAINT GOBAIN	SGO FP	Industrials	OW	38	E	19.5	95%	13%	-8%	4.9%	6.7	12.9	-48%	-8%	-36%
GLENCORE	GLEN LN	Materials	OW	486	£	71.5	258%	127%	-39%	10.4%	4.9	12.0	-59%	15%	31%
ARCELORMITTAL	MT NA	Materials	N	21	E	18.8	-	-16%	-62%	2.4%	3.4	10.3	-67%	-3%	-19%
SSAB A	SSABA SS	Materials	OW	54	SK	4.9	-	48%	-63%	14.4%	4.8	16.6	-71%	17%	23%
SANDVIK	SAND SS	Industrials	OW	155	SK	17.5	24%	7%	7%	3.5%	12.3	15.8	-23%	-8%	-23%
ROLLS-ROYCE HOLDINGS	RR/ LN	Industrials	UW	66	£	6.3	-	1005%	214%	0.0%	20.9	23.1	-9%	-25%	-54%
AIRBUS	AIR FP	Industrials	OW	93	E	73.7	249%	4%	32%	1.9%	15.2	17.6	-14%	-7%	-18%
SAFRAN	SAF FP	Industrials	OW	97	E	41.7	-10%	113%	36%	1.6%	20.8	18.8	11%	-4%	-14%
MARKS & SPENCER GROUP	MKS LN	Staples	N	93	£	2.1	-92%	1393%	-24%	0.0%	5.8	11.6	-50%	-31%	-47%
HENNES & MAURITZ B	HMB SS	Discretionary	UW	110	SK	16.5	787%	-17%	8%	5.8%	18.7	20.7	-10%	-18%	-33%
JERONIMO MARTINS	JMT PL	Staples	OW	19	E	11.7	48%	29%	9%	2.8%	18.2	20.8	-12%	-9%	2%
L'OREAL	OR FP	Staples	OW	329	E	174.8	21%	25%	7%	1.7%	28.4	26.0	9%	-3%	-8%
HEINEKEN	HEIA NA	Staples	OW	91	E	52.2	77%	35%	11%	1.8%	17.6	19.9	-12%	-3%	1%
MERCK & COMPANY	MRK GR	Health Care	OW	164	E	70.6	30%	18%	5%	1.2%	15.3	15.9	-3%	-6%	-13%
BAYER	BAYN GR	Health Care	OW	49	E	48.2	2%	18%	5%	4.6%	6.2	12.3	-50%	-13%	2%
SMITH & NEPHEW	SN/ LN	Health Care	N	987	£	9.7	25%	-4%	14%	3.1%	12.8	18.4	-31%	-13%	-21%
LLOYDS BANKING GROUP	LLOY LN	Financials	OW	39	£	29.7	268%	-11%	-3%	6.3%	5.6	9.0	-39%	-8%	-19%
UNICREDIT	UCG IM	Financials	OW	11	E	21.4	209%	2%	18%	5.9%	5.3	9.9	-46%	18%	-10%
INTESA SANPAOLO	ISP IM	Financials	OW	2	E	32.0	10%	-2%	30%	8.9%	6.3	10.4	-39%	-2%	-33%
CAIXABANK	CABK SM	Financials	N	3	E	26.7	48%	11%	13%	6.1%	8.8	11.1	-20%	24%	22%
DEUTSCHE BOERSE	DB1 GR	Financials	OW	163	E	31.1	0%	20%	12%	2.2%	18.9	18.3	3%	-1%	10%
DASSAULT SYSTEMES	DSY FP	IT	OW	34	E	44.3	26%	16%	6%	0.5%	28.9	30.2	-4%	-9%	-23%
NOKIA	NOKIA FH	IT	OW	5	E	25.6	42%	11%	11%	2.3%	10.2	17.2	-41%	-2%	-10%
ASML HOLDING	ASML NA	IT	NR	414	E	164.9	69%	-6%	46%	1.4%	22.9	25.0	-8%	-5%	-34%
BT GROUP	BT/A LN	Telecoms	NR	120	£	13.4	-20%	6%	6%	6.5%	5.9	9.6	-38%	-39%	-18%
BOUYGUES	EN FP	Industrials	OW	26	Ē	9.9	61%	-14%	26%	6.9%	8.6	12.9	-33%	-8%	-24%
ITV	ITV LN	Telecoms	OW	60	£	2.7	39%	-10%	-19%	8.5%	5.1	10.9	-53%	-9%	-42%
EDF	EDF FP	Utilities	N	12	Ê	46.3	122%	-384%	-	4.6%	-65.7	11.7	-	16%	0%
FORTUM	FORTUM FH	Utilities	OW	13	Ē	11.6	14%	-262%	_	7.6%	48.4	15.8	206%	3%	-53%

Source: Datastream, MSCI, IBES, J.P. Morgan, Prices and Valuations as of COB 12<sup>th</sup> Oct, 2022. Past performance is not indicative of future returns.

Please see the most recent company-specific research published by J.P. Morgan for an analysis of valuation methodology and risks on companies recommended in this report. Research is available at <a href="http://www.jpmorganmarkets.com">http://www.jpmorganmarkets.com</a>, or you can contact the covering analyst or your J.P. Morgan representative.

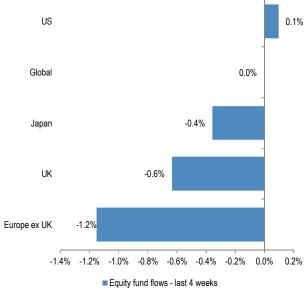
### **Equity Flows Snapshot**

#### Table 24: DM Equity Fund Flows Summary

		Regional equity fund flows									
	<u>\$mn</u>					% AUM					
	1w	1m	3m	YTD	12m	1w	1m	3m	YTD	12m	
Global	797	-117	191	58,096	189,223	0.0%	0.0%	0.0%	1.3%	4.5%	
Europe ex UK	-1,105	-3,198	-9,365	-29,746	-21,194	-0.4%	-1.2%	-3.1%	-7.6%	-5.6%	
UK	-789	-1,683	-7,392	-18,878	-22,422	-0.3%	-0.6%	-2.5%	-5.4%	-6.6%	
US	9,460	7,382	45,833	139,998	297,327	0.1%	0.1%	0.6%	1.5%	3.5%	
Japan	-1,543	-2,254	-595	-3,004	773	-0.2%	-0.4%	-0.1%	-0.4%	0.1%	

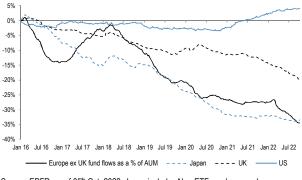
Source: EPFR, as of 05th Oct, 2022





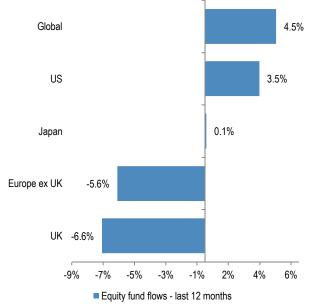
Source: EPFR, Japan includes BoJ purchases.

### Figure 49: Cumulative fund flows into regional funds as a percentage of AUM



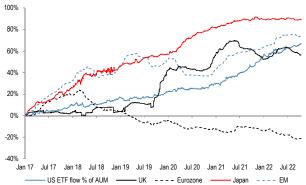
Source: EPFR, as of 05th Oct, 2022. Japan includes Non-ETF purchases only.

#### Figure 50: DM Equity Fund flows - last 12 months



Source: EPFR, Japan includes BoJ purchases.





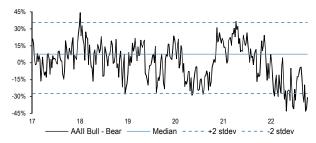
Source: Bloomberg Finance L.P. \*Based on the 25 biggest ETF's with a mandate to invest in that particular region. Japan includes BoJ purchases

### **Technical Indicators**



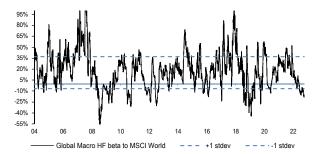
Source: Bloomberg Finance L.P.

Figure 53: AAll Bull-Bear



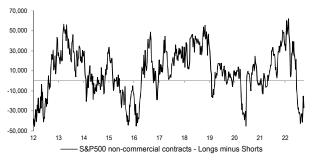
Source: Bloomberg Finance L.P

#### Figure 54: Hedge Fund Beta



Source: Bloomberg Finance L.P.

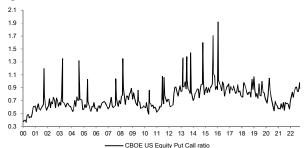
#### Figure 55: Speculative positions in S&P500 futures contracts



Source: Bloomberg Finance L.P.

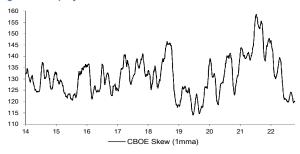






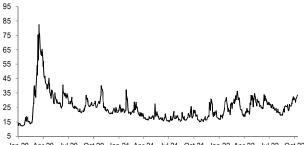
Source: Bloomberg Finance L.P.

#### Figure 58: Equity Skew









Jan 20 Apr 20 Jul 20 Oct 20 Jan 21 Apr 21 Jul 21 Oct 21 Jan 22 Apr 22 Jul 22 Oct 22 ——VIX

Source: Bloomberg Finance L.P.

# Performance

#### Table 25: Sector Index Performances — MSCI Europe

(%change)		Loc	al currency	
Industry Group		4week	12m	YTD
Europe		(6.7)	(14.6)	(19.4)
Energy		(3.2)	20.7	25.7
Materials		(4.1)	(14.9)	(20.5)
	Chemicals	(4.0)	(25.9)	(31.4)
	Construction Materials	(9.4)	(17.2)	(24.3)
	Metals & Mining	(1.8)	4.2	(0.2)
Industrials	-	(5.9)	(20.4)	(27.0)
	Capital Goods	(5.6)	(21.1)	(27.4)
	Transport	(10.1)	(27.0)	(32.3)
	Business Svs	(4.1)	(11.0)	(20.0)
Consumer Discretionary		(8.5)	(23.0)	(27.7)
	Automobile	(10.0)	(25.7)	(26.8)
	Consumer Durables	(7.4)	(16.2)	(27.2)
	Media	(6.7)	(21.2)	(22.2)
	Retailing	(12.2)	(41.7)	(40.6)
	Hotels, Restaurants & Leisure	(5.9)	(16.5)	(13.1)
Consumer Staples		(3.9)	(4.6)	(12.5)
· · · · · · · · · · · · · · · · · · ·	Food & Drug Retailing	(12.3)	(27.9)	(31.1)
	Food Beverage & Tobacco	(3.3)	(2.1)	(10.8)
	Household Products	(3.4)	(2.9)	(10.4)
Healthcare		(2.7)	(6.8)	(12.4)
Financials		(10.1)	(18.3)	(19.5)
	Banks	(10.6)	(18.1)	(17.2)
	Diversified Financials	(10.3)	(24.6)	(27.6)
	Insurance	(9.3)	(13.3)	(16.4)
Real Estate		(19.5)	(47.6)	(48.0)
Information Technology		(9.2)	(29.8)	(35.4)
	Software and Services	(6.4)	(29.2)	(31.9)
	Technology Hardware	(7.8)	(25.5)	(29.0)
	Semicon & Semicon Equip	(12.3)	(31.8)	(40.4)
Telecommunications Services		(9.9)	(15.0)	(16.1)
Utilities		(15.3)	(15.3)	(22.9)

Source: MSCI, Datastream, as at COB 12th Oct, 2022.

#### **Table 26: Country and Region Index Performances**

(%change)		Loca	I Currency		US\$			
Country	Index	4week	12m	YTD	4week	12m	YTD	
Austria	ATX	(9.5)	(28.2)	(30.5)	(12.2)	(39.7)	(40.7)	
Belgium	BEL 20	(8.1)	(20.3)	(23.1)	(10.8)	(33.1)	(34.4)	
Denmark	KFX	(5.4)	(7.6)	(15.5)	(8.2)	(22.3)	(27.9)	
Finland	HEX 20	(5.4)	(20.2)	(22.9)	(8.2)	(33.0)	(34.2)	
France	CAC 40	(6.5)	(11.1)	(18.7)	(9.3)	(25.4)	(30.6)	
Germany	DAX	(6.6)	(19.6)	(23.4)	(9.3)	(32.5)	(34.6)	
Greece	ASE General	(2.3)	(8.2)	(8.5)	(5.2)	(22.9)	(21.9)	
Ireland	ISEQ	(8.0)	(24.1)	(25.0)	(10.8)	(36.3)	(36.0)	
Italy	FTSE MIB	(8.7)	(21.3)	(25.2)	(11.4)	(33.9)	(36.2)	
Japan	Topix	(4.0)	(5.7)	(6.2)	(6.7)	(27.0)	(26.4)	
Netherlands	AEX	(7.3)	(18.2)	(20.9)	(10.1)	(31.3)	(32.5)	
Norway	OBX	(8.1)	(6.2)	(7.5)	(13.9)	(25.5)	(24.2)	
Portugal	BVL GEN	(16.1)	(6.0)	(7.9)	(18.6)	(21.1)	(21.4)	
Spain	IBEX 35	(9.9)	(18.7)	(16.7)	(12.5)	(31.8)	(28.9)	
Śweden	OMX	(4.3)	(18.5)	(24.2)	(9.7)	(36.9)	(39.4)	
Switzerland	SMI	(5.2)	(13.2)	(20.8)	(8.8)	(19.3)	(27.7)	
United States	S&P 500	(9.4)	(17.8)	(24.9)	(9.4)	(17.8)	(24.9)	
United States	NASDAQ	(11.1)	(28.0)	(33.4)	(11.1)	(28.0)	(33.4)	
United Kingdom	FTSE 100	(6.2)	(4.3)	(7.6)	(10.3)	(22.1)	(24.4)	
EMU	MSCI EMU	(7.8)	(20.2)	(24.3)	(10.5)	(32.9)	(35.3)	
Europe	MSCI Europe	(6.7)	(14.6)	(19.4)	(10.1)	(28.0)	(31.5)	
Global	MSCI AC World	(8.5)	(17.5)	(23.0)	(9.6)	(21.7)	(26.7)	

Source: MSCI, Datastream, as at COB 12th Oct, 2022.

Global Markets Strategy 17 October 2022

### Earnings

Table 27: IBES Consensus EPS Sector Forecasts — MSCI Europe

	EPS Growth (%)					
	2021	2022E	2023E	2024E		
Europe	66.1	17.9	1.7	5.6		
Energy	1142.4	113.1	(14.7)	(16.1)		
Materials	108.3	4.9	(21.4)	0.0		
Chemicals	58.7	5.4	(9.4)	9.2		
Construction Materials	31.9	5.5	(4.8)	10.3		
Metals & Mining	183.4	2.9	(31.2)	(8.6)		
Industrials	129.5	21.0	(0.8)	8.4		
Capital Goods	88.8	8.3	15.4	12.5		
Transport	-	77.3	(44.0)	(12.1)		
Business Svs	24.6	13.1	7.8	8.5		
Discretionary	200.7	18.2	3.5	11.2		
Automobile	416.4	15.3	(6.4)	8.5		
Consumer Durables	111.8	16.7	7.9	9.2		
Media	(0.7)	27.4	17.5	12.3		
Retailing	3.9	11.4	47.0	28.3		
Hotels, Restaurants & Leisure	201.2	89.6	35.2	19.1		
Staples	10.7	9.5	9.3	9.5		
Food & Drug Retailing	23.7	(1.6)	7.6	11.4		
Food Beverage & Tobacco	11.8	13.2	9.7	9.2		
Household Products	2.6	3.5	8.6	9.7		
Healthcare	10.9	7.3	9.2	11.2		
Financials	56.1	(0.6)	13.1	11.2		
Banks	107.2	1.3	8.1	12.0		
Diversified Financials	9.3	(14.9)	24.4	14.2		
Insurance	24.7	4.4	17.7	8.3		
Real Estate	(4.0)	16.1	1.3	2.8		
IT	38.2	4.8	18.8	12.2		
Software and Services	27.9	(5.3)	18.1	14.3		
Technology Hardware	17.9	1.9	12.4	6.9		
Semicon & Semicon Equip	73.8	18.9	22.9	12.7		
Telecoms	(10.1)	21.4	9.0	10.9		
Utilities	18.4	(7.2)	21.3	6.0		

Source: IBES, MSCI, Datastream. As at COB 12<sup>th</sup> Oct, 2022.

#### Table 28: IBES Consensus EPS Country Forecasts

			EPS Growth (%)		
Country	Index	2021	2022E	2023E	2024E
Austria	ATX	151.8	12.0	(8.3)	1.3
Belgium	BEL 20	57.6	(0.7)	2.2	13.6
Denmark	Denmark KFX	79.4	38.5	(27.1)	(1.8)
Finland	MSCI Finland	77.2	(22.6)	29.1	6.6
France	CAC 40	117.2	30.5	(3.7)	5.3
Germany	DAX	51.5	5.8	4.6	10.0
Greece	MSCI Greece	22.4	13.5	42.9	11.9
Ireland	MSCI Ireland	16.5	12.2	5.2	11.8
Italy	MSCI Italy	100.9	24.2	(3.2)	5.8
Netherlands	AEX	75.6	35.4	(0.8)	1.8
Norway	MSCI Norway	78.2	73.0	(13.1)	(14.2)
Portugal	MSCI Portugal	31.5	52.3	10.3	6.1
Spain	IBEX 35	141.8	31.8	2.1	9.4
Sweden	OMX	43.9	3.0	7.9	8.0
Switzerland	SMI	10.3	4.1	13.8	9.9
United Kingdom	FTSE 100	170.4	23.5	(1.2)	1.3
EMU	MSCI EMU	75.7	16.9	3.4	8.5
Europe ex UK	MSCI Europe ex UK	57.0	16.1	3.1	7.8
Europe	MSCI Europe	66.1	17.9	1.7	5.6
United States	S&P 500	50.2	9.0	7.0	9.0
Japan	Topix	51.1	13.2	3.9	7.5
Emerging Market	MŚCI EM	52.7	9.9	4.5	11.6
Global	MSCI AC World	54.7	10.9	5.5	8.3

Source: IBES, MSCI, Datastream. As at COB 12<sup>th</sup> Oct, 2022\*\* Japan refers to the period from March in the year stated to March in the following year - EPS post-goodwill

### Valuations

#### Table 29: IBES Consensus European Sector Valuations

		P/E		Div	vidend Yields		E	EV/EBITDA		Pi	rice to Book	
	2022e	2023e	2024e	2022e	2023e	2024e	2022e	2023e	2024e	2022e	2023e	2024e
Europe	10.5	10.3	9.8	2.8%	3.5%	3.9%	10.2	9.2	6.7	1.8	1.7	1.6
Energy	4.1	4.9	5.8	3.6%	4.1%	5.3%	7.2	4.0	2.1	1.5	1.4	1.1
Materials	7.6	9.7	9.7	3.9%	5.9%	5.8%	8.3	6.0	4.7	1.7	1.6	1.4
Chemicals	13.2	14.5	13.3	3.3%	3.5%	3.9%	13.2	11.2	8.0	2.6	2.3	2.0
Construction Materials	8.2	8.7	7.9	4.5%	4.9%	5.1%	7.1	7.0	5.3	1.0	0.9	0.8
Metals & Mining	4.5	6.5	7.1	4.9%	10.0%	8.9%	5.6	3.5	2.9	1.4	1.3	1.1
Industrials	13.1	13.2	12.2	2.0%	2.7%	3.3%	14.4	11.5	7.8	3.3	2.8	2.5
Capital Goods	15.3	13.3	11.8	2.0%	2.4%	2.9%	12.5	12.5	9.3	3.0	2.6	2.4
Transport	-	9.3	10.5	1.5%	4.2%	6.2%	21.7	7.7	3.9	3.1	2.5	1.8
Business Svs	18.9	17.5	16.2	2.2%	2.4%	2.6%	15.0	15.4	12.5	7.3	6.6	5.7
Discretionary	10.3	10.0	9.0	1.2%	2.4%	3.2%	8.6	7.4	4.8	2.2	1.9	1.6
Automobile	4.2	4.5	4.1	2.3%	5.5%	6.6%	3.3	2.6	1.3	0.8	0.7	0.6
Consumer Durables	16.9	15.7	14.4	1.2%	1.6%	2.2%	20.3	17.1	11.6	5.7	5.0	4.3
Media & Entertainment	14.7	12.5	11.2	2.2%	1.9%	2.4%	12.0	15.3	10.0	1.6	1.8	1.5
Retailing	23.4	15.9	12.4	0.6%	1.3%	2.1%	23.7	30.6	16.2	2.8	2.5	2.0
Hotels, Restaurants & Leisure	24.3	18.0	15.1	0.3%	0.9%	1.7%	22.5	24.4	14.3	3.4	3.3	3.2
Staples	17.9	16.4	15.0	2.6%	2.7%	2.9%	11.9	13.6	11.8	3.2	3.1	2.9
Food & Drug Retailing	11.8	11.0	9.8	3.6%	3.5%	3.9%	6.8	8.0	6.7	1.7	1.6	1.5
Food Beverage & Tobacco	18.2	16.6	15.2	2.7%	2.8%	3.0%	14.0	14.0	11.9	3.0	2.9	2.7
Household Products	19.4	17.8	16.3	2.3%	2.4%	2.4%	10.0	16.2	14.4	4.9	4.9	4.3
Healthcare	15.5	14.2	12.7	2.5%	2.7%	2.7%	12.4	14.2	11.9	3.8	3.4	3.2
Financials	7.6	6.7	6.1	3.7%	5.7%	6.1%	-	-	-	0.7	0.7	0.7
Banks	6.2	5.7	5.1	2.9%	6.7%	7.1%	-	-	-	0.6	0.6	0.6
Diversified Financials	10.7	8.6	7.7	3.0%	3.2%	3.5%	-	-	-	1.0	0.9	0.9
Insurance	9.2	7.8	7.2	5.6%	6.1%	6.4%	-	-	-	0.9	0.9	1.1
Real Estate	9.6	9.5	9.2	6.5%	5.5%	6.1%	-	-	-	0.5	0.5	0.5
IT	19.1	16.0	14.3	1.0%	1.1%	1.5%	19.3	21.8	13.1	4.9	4.3	3.4
Software and Services	21.2	18.0	15.7	1.2%	1.2%	1.5%	20.6	23.1	14.3	4.6	4.0	3.0
Technology Hardware	12.9	11.4	10.7	1.2%	1.3%	2.2%	10.4	12.0	8.7	3.0	2.4	2.0
Semicon & Semicon Equip	20.3	16.5	14.6	0.7%	0.9%	1.3%	24.9	27.0	14.3	6.9	6.9	6.2
Communication Services	12.6	11.5	10.4	4.8%	4.3%	4.7%	6.2	6.5	6.5	1.3	1.3	1.3
Utilities	13.3	11.0	10.4	4.7%	5.2%	5.5%	9.0	9.3	9.3	1.6	1.5	1.5

Source: IBES, MSCI, Datastream. As at COB 12th Oct, 2022.

			P/E			Dividend Yield
Country	Index	12mth Fwd	2022E	2023E	2024E	12mth Fwd
Austria	ATX	6.1	5.8	6.3	6.2	5.6%
Belgium	BEL 20	13.7	13.9	13.6	12.0	3.1%
Denmark	Denmark KFX	16.0	12.4	17.0	17.3	2.7%
Finland	MSCI Finland	14.0	17.4	13.5	12.7	4.2%
France	CAC 40	9.7	9.4	9.7	9.2	3.9%
Germany	DAX	9.6	10.0	9.6	8.7	4.0%
Greece	MSCI Greece	55.6	75.6	52.9	47.2	1.1%
Ireland	MSCI Ireland	13.0	13.6	12.9	11.6	2.6%
Italy	MSCI Italy	7.0	6.8	7.0	6.7	6.0%
Netherlands	AEX	10.6	10.5	10.5	10.3	2.8%
Norway	MSCI Norway	7.6	6.8	7.8	9.1	5.7%
Portugal	MSCI Portugal	14.1	15.4	13.9	13.1	3.3%
Spain	IBEX 35	9.4	9.6	9.4	8.6	5.0%
Śweden	OMX	12.8	13.6	12.6	11.7	4.1%
Switzerland	SMI	14.4	16.1	14.1	12.9	3.5%
United Kingdom	FTSE 100	8.8	8.7	8.8	8.7	4.5%
EMU	MSCI EMU	10.2	10.5	10.2	9.4	4.0%
Europe ex UK	MSCI Europe ex UK	11.2	11.4	11.1	10.3	3.8%
Europe	MSCI Europe	10.3	10.5	10.3	9.8	4.0%
United States	S&P 500	15.3	16.2	15.2	13.9	1.8%
Japan	Торіх	11.6	11.9	11.5	10.7	2.7%
Emerging Market	MŚCI EM	10.5	10.8	10.0	9.2	3.6%
Global	MSCI AC World	14.0	14.7	13.1	12.8	2.5%

#### Table 30: IBES Consensus P/E and 12-Month Forward Dividend Yields — Country Forecasts

Source: IBES, MSCI, Datastream. As at COB 12<sup>th</sup> Oct, 2022; \*\* Japan refers to the period from March in the year stated to March in the following year - P/E post goodwill.

### Economic, Interest Rate and Exchange Rate Outlook

#### Table 31: Economic Outlook in Summary

	Real GDP % oya		Real GDP % over previous period, saar				Consumer prices % oya						
	2021	2022E	2023E	4Q21	1Q22	2Q22E	3Q22E	4Q22E	1Q23E	2Q22	4Q22	2Q23	4Q23
United States	5.9	1.8	1.0	7.0	-1.6	-0.6	2.0	1.5	1.0	8.6	7.0	3.7	2.9
Eurozone	5.2	3.2	0.4	2.0	2.7	3.1	0.5	-1.8	-1.0	8.0	10.2	6.4	2.4
United Kingdom	7.5	4.3	0.2	6.6	2.8	0.9	-0.5	-1.0	0.7	9.2	10.3	6.3	3.4
Japan	1.7	1.8	2.0	3.9	0.2	3.5	2.0	3.5	2.0	2.4	3.0	2.4	1.9
Emerging markets	7.2	3.3	3.2	7.9	5.9	-3.4	5.4	3.1	3.6	3.4	3.7	2.8	2.8
Global	6.0	2.8	1.9	6.4	2.6	-0.5	3.0	1.6	1.8	7.4	7.4	4.4	3.1

Source: J.P. Morgan economic research J.P. Morgan estimates, as of COB 07th Oct, 2022

#### Table 32: Official Rates Outlook

%	Forecast		Forecast	Forecast for				
	Official interest rate	Current	Last change (bp)	next change (bp)	Dec 22	Mar 23	Jun 23	Sep 23
United States	Federal funds rate	3.25	21 Sep 22 (+75bp)	Nov 22 (+75bp)	4.50	4.75	4.75	4.75
Eurozone	Depo rate	0.75	8 Sep 22 (+75bp)	Oct 22 (+75bp)	2.00	2.00	2.00	2.00
United Kingdom	Repo rate	2.25	22 Sep 22 (+50bp)	Nov 22 (+75bp)	3.50	4.25	4.25	4.25
Japan	Overnight call rate	-0.10	Jan 16 (-20bp)	On hold	-0.10	-0.10	-0.10	-0.10

Source: J.P. Morgan estimates, Datastream, as of COB 07th Oct, 2022.

#### Table 33: 10-Year Government Bond Yield Forecasts

10Yr Govt BY Forecast for end of					
	12-Oct-22	Dec 22	Mar 23	Jun 23	Sep 23
US	3.92	3.75	3.65	3.60	3.55
Euro Area	2.32	1.50	1.35	1.25	1.15
United Kingdom	4.43	3.00	3.00	2.80	2.65
Japan	0.25	0.25	0.25	0.25	0.25

Source: J.P. Morgan estimates, Datastream, forecasts as of COB 30th Sep, 2022.

#### Table 34: Exchange Rate Forecasts vs. US Dollar

Exchange rates vs US\$		Forecast for end of					
	12-Oct-22	Dec 22	Mar 23	Jun 23	Sep 23		
EUR	0.97	0.95	0.98	1.02	1.03		
GBP	1.11	1.05	1.08	1.10	1.11		
CHF	1.00	0.99	0.94	0.88	0.85		
JPY	147	147	145	142	140		
DXY	113.3	115.0	112.1	108.5	107.2		

Source: J.P. Morgan estimates, Datastream, forecasts as of COB  $30^{\text{th}}$  Sep, 2022.

### Sector, Regional and Asset Class Allocations

#### Table 35: J.P. Morgan Equity Strategy — European Sector Allocation

		MSCI Europo Waighta	D Morgon Allocation	Deviation From MSCI	J.P. Morgan Recommendation
F		MSCI Europe Weights	J.P. Morgan Allocation		
Energy		4.6%	6.0%	1.4%	OW
Materials		7.8%	9.0%	1.2%	ow
	Chemicals				N
	Construction Materials				N
	Metals & Mining				OW
Industrials		15.1%	14.0%	-1.1%	N
	Capital Goods ex Aerospace & Defence	9			N
	Aerospace & Defence*				OW
	Transport				OW
	Business Services				N
Consumer Discretionary		10.5%	12.0%	1.5%	N
	Automobile				OW
	Consumer Durables				N
	Hotels, Restaurants, Leisure				OW
	Speciality Retail				OW
	Internet Retail				N
Consumer Staples		12.5%	10.0%	-2.5%	UW
	Food & Drug Retailing				UW
	Beverages				UW
	Food & Tobacco				UW
	Household Products				UW
Healthcare		14.5%	12.0%	-2.5%	UW
Financials		15.8%	18.0%	2.2%	OW
i indiriciais	Banks	13.070	10.078	2.270	OW
	Insurance				OW
Real Estate	Insulance	1.3%	0.0%	-1.3%	UW
Information Technology		8.8%	8.0%	-0.8%	N
information recinology	Software and Services	0.0%	0.0 %	-0.8 %	UW
	Technology Hardware				N
Communication Services	Semicon & Semicon Equip	4.00/	C 0%	1.1%	OW
Communication Services	Talaan waxaa ka ahaa	4.9%	6.0%	1.170	• • •
	Telecommunication Services				OW
14:1:4:	Media	4.00/	F 0%	0.0%	N
Utilities		4.2%	5.0%	0.8%	N
		100.0%	100.0%	0.0%	Balanced

Source: MSCI, Datastream, J.P. Morgan.

#### Table 36: J.P. Morgan Equity Strategy — Global Regional Allocation

	MSCI Weights	Allocation	Deviation	Recommendation
EM	11.3%	14.0%	2.7%	Overweight
DM	88.7%	86.0%	-2.7%	Underweight
US	69.3%	69.0%	-0.3%	Neutral
Japan	6.4%	7.0%	0.6%	Neutral
Eurozone	9.1%	11.0%	1.9%	Overweight
UK	3.9%	6.0%	2.1%	Overweight
Other*	11.3%	7.0%	-4.3%	Underweight
	100.0%	100.0%	0.0%	Balanced

Source: MSCI, J.P. Morgan \*Other includes Denmark, Switzerland, Australia, Canada, Hong Kong SAR, Sweden, Singapore, New Zealand, Israel and Norway

#### Table 37: J.P. Morgan Equity Strategy — European Regional Allocation

	MSCI Europe Weights	Allocation	Deviation	Recommendation
Eurozone	51.1%	55.0%	3.9%	Overweight
United Kingdom	22.1%	26.0%	3.9%	Overweight
Other**	26.8%	19.0%	-7.8%	Underweight
	100.0%	100.0%	0.0%	Balanced

Source: MSCI, J.P. Morgan \*\*Other includes Denmark, Switzerland, Sweden and Norway

#### Table 38: J.P. Morgan Equity Strategy — Asset Class Allocation

	Benchmark Weighting	Allocation	Deviation	Recommendation
Equities	60%	65%	5%	Overweight
Bonds	30%	25%	-5%	Underweight
Cash	10%	10%	0%	Neutral
	100%	100%	0%	Balanced

Source: MSCI, J.P. Morgan

Analyst Certification: The Research Analyst(s) denoted by an "AC" on the cover of this report certifies (or, where multiple Research Analysts are primarily responsible for this report, the Research Analyst denoted by an "AC" on the cover or within the document individually certifies, with respect to each security or issuer that the Research Analyst covers in this research) that: (1) all of the views expressed in this report accurately reflect the Research Analyst's personal views about any and all of the subject securities or issuers; and (2) no part of any of the Research Analyst's compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed by the Research Analyst(s) in this report. For all Korea-based Research Analysts listed on the front cover, if applicable, they also certify, as per KOFIA requirements, that the Research Analyst's analysis was made in good faith and that the views reflect the Research Analyst's own opinion, without undue influence or intervention.

All authors named within this report are Research Analysts who produce independent research unless otherwise specified. In Europe, Sector Specialists (Sales and Trading) may be shown on this report as contacts but are not authors of the report or part of the Research Department.

#### **Important Disclosures**

• MSCI: The MSCI sourced information is the exclusive property of MSCI. Without prior written permission of MSCI, this information and any other MSCI intellectual property may not be reproduced, redisseminated or used to create any financial products, including any indices. This information is provided on an 'as is' basis. The user assumes the entire risk of any use made of this information. MSCI, its affiliates and any third party involved in, or related to, computing or compiling the information hereby expressly disclaim all warranties of originality, accuracy, completeness, merchantability or fitness for a particular purpose with respect to any of this information. Without limiting any of the foregoing, in no event shall MSCI, any of its affiliates or any third party involved in, or related to, computing or compiling the information have any liability for any damages of any kind. MSCI and the MSCI indexes are services marks of MSCI and its affiliates.

**Company-Specific Disclosures:** Important disclosures, including price charts and credit opinion history tables, are available for compendium reports and all J.P. Morgan–covered companies, and certain non-covered companies, by visiting <a href="https://www.jpmm.com/research/disclosures">https://www.jpmm.com/research/disclosures</a>, calling 1-800-477-0406, or e-mailing <a href="https://www.jpmm.com/research/disclosures">research/disclosures</a>, calling 1-800-477-0406, or e-mailing <a href="https://www.jpmm.com/research/disclosures">https://www.jpmm.com/research/disclosures</a>, calling 1-800-477-0406, or e-mailing <a href="https://www.jpmm.com/research/disc

#### Explanation of Equity Research Ratings, Designations and Analyst(s) Coverage Universe:

J.P. Morgan uses the following rating system: Overweight [Over the next six to twelve months, we expect this stock will outperform the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] Neutral [Over the next six to twelve months, we expect this stock will perform in line with the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] Underweight [Over the next six to twelve months, we expect this stock will underperform the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] Underweight [Over the next six to twelve months, we expect this stock will underperform the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] Not Rated (NR): J.P. Morgan has removed the rating and, if applicable, the price target, for this stock because of either a lack of a sufficient fundamental basis or for legal, regulatory or policy reasons. The previous rating and, if applicable, the price target, no longer should be relied upon. An NR designation is not a recommendation or a rating. In our Asia (ex-Australia and ex-India) and U.K. small- and mid-cap equity research, each stock's expected total return is compared to the expected total return of a benchmark country market index, not to those analysts' coverage universe. If it does not appear in the Important Disclosures section of this report, the certifying analyst's coverage universe can be found on J.P. Morgan's research website, <a href="https://www.jpmorganmarkets.com">https://www.jpmorganmarkets.com</a>.

#### J.P. Morgan Equity Research Ratings Distribution, as of October 01, 2022

	Overweight	Neutral	Underweight
	(buy)	(hold)	(sell)
J.P. Morgan Global Equity Research Coverage*	50%	37%	13%
IB clients**	50%	46%	33%
JPMS Equity Research Coverage*	50%	38%	12%
IB clients**	70%	68%	50%

\*Please note that the percentages might not add to 100% because of rounding.

\*\*Percentage of subject companies within each of the "buy," "hold" and "sell" categories for which J.P. Morgan has provided investment banking services within the previous 12 months.

For purposes only of FINRA ratings distribution rules, our Overweight rating falls into a buy rating category; our Neutral rating falls into a hold rating category; and our Underweight rating falls into a sell rating category. Please note that stocks with an NR designation are not included in the table above. This information is current as of the end of the most recent calendar quarter.

**Equity Valuation and Risks:** For valuation methodology and risks associated with covered companies or price targets for covered companies, please see the most recent company-specific research report at <a href="http://www.jpmorganmarkets.com">http://www.jpmorganmarkets.com</a>, contact the primary analyst or your J.P. Morgan representative, or email <a href="mailto:research.disclosure.inquiries@jpmorgan.com">research.disclosure.inquiries@jpmorganmarkets.com</a>, contact the primary analyst or your J.P. Morgan representative, or email <a href="mailto:research.disclosure.inquiries@jpmorgan.com">research.disclosure.inquiries@jpmorgan.com</a>. For material information about the proprietary models used, please see the Summary of Financials in company-specific research reports and the Company Tearsheets, which are

available to download on the company pages of our client website, <u>http://www.jpmorganmarkets.com</u>. This report also sets out within it the material underlying assumptions used.

A history of J.P. Morgan investment recommendations disseminated during the preceding 12 months can be accessed on the Research & Commentary page of <u>http://www.jpmorganmarkets.com</u> where you can also search by analyst name, sector or financial instrument.

Analysts' Compensation: The research analysts responsible for the preparation of this report receive compensation based upon various factors, including the quality and accuracy of research, client feedback, competitive factors, and overall firm revenues.

**Registration of non-US Analysts:** Unless otherwise noted, the non-US analysts listed on the front of this report are employees of non-US affiliates of J.P. Morgan Securities LLC, may not be registered as research analysts under FINRA rules, may not be associated persons of J.P. Morgan Securities LLC, and may not be subject to FINRA Rule 2241 or 2242 restrictions on communications with covered companies, public appearances, and trading securities held by a research analyst account.

#### **Other Disclosures**

J.P. Morgan is a marketing name for investment banking businesses of JPMorgan Chase & Co. and its subsidiaries and affiliates worldwide.

**UK MIFID FICC research unbundling exemption:** UK clients should refer to <u>UK MIFID Research Unbundling exemption</u> for details of JPMorgan's implementation of the FICC research exemption and guidance on relevant FICC research categorisation.

All research material made available to clients are simultaneously available on our client website, J.P. Morgan Markets, unless specifically permitted by relevant laws. Not all research content is redistributed, e-mailed or made available to third-party aggregators. For all research material available on a particular stock, please contact your sales representative.

Any long form nomenclature for references to China; Hong Kong; Taiwan; and Macau within this research material are Mainland China; Hong Kong SAR (China); Taiwan (China); and Macau SAR (China).

J.P. Morgan Research may, from time to time, write on issuers or securities targeted by economic or financial sanctions imposed or administered by the governmental authorities of the U.S., EU, UK or other relevant jurisdictions (Sanctioned Securities). Nothing in this report is intended to be read or construed as encouraging, facilitating, promoting or otherwise approving investment or dealing in such Sanctioned Securities. Clients should be aware of their own legal and compliance obligations when making investment decisions.

Any digital or crypto assets discussed in this research report are subject to a rapidly changing regulatory landscape. For relevant regulatory advisories on crypto assets, including bitcoin and ether, please see <a href="https://www.jpmorgan.com/disclosures/cryptoasset-disclosure">https://www.jpmorgan.com/disclosures/cryptoasset-disclosure</a>.

**Exchange-Traded Funds (ETFs):** J.P. Morgan Securities LLC ("JPMS") acts as authorized participant for substantially all U.S.-listed ETFs. To the extent that any ETFs are mentioned in this report, JPMS may earn commissions and transaction-based compensation in connection with the distribution of those ETF shares and may earn fees for performing other trade-related services, such as securities lending to short sellers of the ETF shares. JPMS may also perform services for the ETFs themselves, including acting as a broker or dealer to the ETFs. In addition, affiliates of JPMS may perform services for the ETFs, including trust, custodial, administration, lending, index calculation and/or maintenance and other services.

**Options and Futures related research:** If the information contained herein regards options- or futures-related research, such information is available only to persons who have received the proper options or futures risk disclosure documents. Please contact your J.P. Morgan Representative or visit <u>https://www.theocc.com/components/docs/riskstoc.pdf</u> for a copy of the Option Clearing Corporation's Characteristics and Risks of Standardized Options or

http://www.finra.org/sites/default/files/Security\_Futures\_Risk\_Disclosure\_Statement\_2018.pdf for a copy of the Security Futures Risk Disclosure Statement.

Changes to Interbank Offered Rates (IBORs) and other benchmark rates: Certain interest rate benchmarks are, or may in the future become, subject to ongoing international, national and other regulatory guidance, reform and proposals for reform. For more information, please consult: https://www.jpmorgan.com/global/disclosures/interbank offered rates

**Private Bank Clients:** Where you are receiving research as a client of the private banking businesses offered by JPMorgan Chase & Co. and its subsidiaries ("J.P. Morgan Private Bank"), research is provided to you by J.P. Morgan Private Bank and not by any other division of J.P. Morgan, including, but not limited to, the J.P. Morgan Corporate and Investment Bank and its Global Research division.

Legal entity responsible for the production and distribution of research: The legal entity identified below the name of the Reg AC Research Analyst who authored this material is the legal entity responsible for the production of this research. Where multiple Reg AC Research Analysts authored this material with different legal entities identified below their names, these legal entities are jointly responsible for the production of this research. Research Analysts from various J.P. Morgan affiliates may have contributed to the production of this material but may not be licensed to carry out regulated activities in your jurisdiction (and do not hold themselves out as being able to do so). Unless otherwise stated below, this material has been distributed by the legal entity responsible for production. If you have any queries, please contact the relevant Research Analyst in your jurisdiction or the entity in your jurisdiction that has distributed this research material.

#### Legal Entities Disclosures and Country-/Region-Specific Disclosures:

Argentina: JPMorgan Chase Bank N.A Sucursal Buenos Aires is regulated by Banco Central de la República Argentina ("BCRA"-Central Bank of Argentina) and Comisión Nacional de Valores ("CNV"- Argentinian Securities Commission" - ALYC y AN Integral N°51). Australia: J.P. Morgan Securities Australia Limited ("JPMSAL") (ABN 61 003 245 234/AFS Licence No: 238066) is regulated by the Australian Securities and Investments Commission and is a Market, Clearing and Settlement Participant of ASX Limited and CHI-X. This material is issued and distributed in Australia by or on behalf of JPMSAL only to "wholesale clients" (as defined in section 761G of the Corporations Act 2001). A list of all financial products covered can be found by visiting https://www.jpmm.com/research/disclosures. J.P. Morgan seeks to cover companies of relevance to the domestic and international

investor base across all Global Industry Classification Standard (GICS) sectors, as well as across a range of market capitalisation sizes. If applicable, in the course of conducting public side due diligence on the subject company(ies), the Research Analyst team may at times perform such diligence through corporate engagements such as site visits, discussions with company representatives, management presentations, etc. Research issued by JPMSAL has been prepared in accordance with J.P. Morgan Australia's Research Independence Policy which can be found at the following link: J.P. Morgan Australia - Research Independence Policy. Brazil: Banco J.P. Morgan S.A. is regulated by the Comissao de Valores Mobiliarios (CVM) and by the Central Bank of Brazil. Ombudsman J.P. Morgan: 0800-7700847 / ouvidoria.jp.morgan@jpmorgan.com. Canada: J.P. Morgan Securities Canada Inc. is a registered investment dealer, regulated by the Investment Industry Regulatory Organization of Canada and the Ontario Securities Commission and is the participating member on Canadian exchanges. This material is distributed in Canada by or on behalf of J.P.Morgan Securities Canada Inc. Chile: Inversiones J.P. Morgan Limitada is an unregulated entity incorporated in Chile. China: J.P. Morgan Securities (China) Company Limited has been approved by CSRC to conduct the securities investment consultancy business. Dubai International Financial Centre (DIFC): JPMorgan Chase Bank, N.A., Dubai Branch is regulated by the Dubai Financial Services Authority (DFSA) and its registered address is Dubai International Financial Centre - The Gate, West Wing, Level 3 and 9 PO Box 506551, Dubai, UAE. This material has been distributed by JP Morgan Chase Bank, N.A., Dubai Branch to persons regarded as professional clients or market counterparties as defined under the DFSA rules. European Economic Area (EEA): Unless specified to the contrary, research is distributed in the EEA by J.P. Morgan SE ("JPM SE"), which is subject to prudential supervision by the European Central Bank ("ECB") in cooperation with BaFin and Deutsche Bundesbank in Germany. JPM SE is a company headquartered in Frankfurt with registered address at TaunusTurm, Taunustor 1, Frankfurt am Main, 60310, Germany. The material has been distributed in the EEA to persons regarded as professional investors (or equivalent) pursuant to Art. 4 para. 1 no. 10 and Annex II of MiFID II and its respective implementation in their home jurisdictions ("EEA professional investors"). This material must not be acted on or relied on by persons who are not EEA professional investors. Any investment or investment activity to which this material relates is only available to EEA relevant persons and will be engaged in only with EEA relevant persons. Hong Kong: J.P. Morgan Securities (Asia Pacific) Limited (CE number AAJ321) is regulated by the Hong Kong Monetary Authority and the Securities and Futures Commission in Hong Kong, and J.P. Morgan Broking (Hong Kong) Limited (CE number AAB027) is regulated by the Securities and Futures Commission in Hong Kong. JP Morgan Chase Bank, N.A., Hong Kong (CE Number AAL996) is regulated by the Hong Kong Monetary Authority and the Securities and Futures Commission, is organized under the laws of the United States with limited liability. Where the distribution of this material is a regulated activity in Hong Kong, the material is distributed in Hong Kong by or through J.P. Morgan Securities (Asia Pacific) Limited and/or J.P. Morgan Broking (Hong Kong) Limited. India: J.P. Morgan India Private Limited (Corporate Identity Number - U67120MH1992FTC068724), having its registered office at J.P. Morgan Tower, Off. C.S.T. Road, Kalina, Santacruz - East, Mumbai - 400098, is registered with the Securities and Exchange Board of India (SEBI) as a 'Research Analyst' having registration number INH000001873. J.P. Morgan India Private Limited is also registered with SEBI as a member of the National Stock Exchange of India Limited and the Bombay Stock Exchange Limited (SEBI Registration Number - INZ000239730) and as a Merchant Banker (SEBI Registration Number - MB/INM000002970). Telephone: 91-22-6157 3000, Facsimile: 91-22-6157 3990 and Website: http://www.jpmipl.com. JPMorgan Chase Bank, N.A. - Mumbai Branch is licensed by the Reserve Bank of India (RBI) (Licence No. 53/ Licence No. BY.4/94; SEBI - IN/CUS/014/ CDSL : IN-DP-CDSL-444-2008/ IN-DP-NSDL-285-2008/ INBI00000984/ INE231311239) as a Scheduled Commercial Bank in India, which is its primary license allowing it to carry on Banking business in India and other activities, which a Bank branch in India are permitted to undertake. For non-local research material, this material is not distributed in India by J.P. Morgan India Private Limited. Indonesia: PT J.P. Morgan Sekuritas Indonesia is a member of the Indonesia Stock Exchange and is registered and supervised by the Otoritas Jasa Keuangan (OJK). Korea: J.P. Morgan Securities (Far East) Limited, Seoul Branch, is a member of the Korea Exchange (KRX). JPMorgan Chase Bank, N.A., Seoul Branch, is licensed as a branch office of foreign bank (JPMorgan Chase Bank, N.A.) in Korea. Both entities are regulated by the Financial Services Commission (FSC) and the Financial Supervisory Service (FSS). For non-macro research material, the material is distributed in Korea by or through J.P. Morgan Securities (Far East) Limited, Seoul Branch. Japan: JPMorgan Securities Japan Co., Ltd. and JPMorgan Chase Bank, N.A., Tokyo Branch are regulated by the Financial Services Agency in Japan. Malaysia: This material is issued and distributed in

Malaysia by JPMorgan Securities (Malaysia) Sdn Bhd (18146-X), which is a Participating Organization of Bursa Malaysia Berhad and holds a Capital Markets Services License issued by the Securities Commission in Malaysia. Mexico: J.P. Morgan Casa de Bolsa, S.A. de C.V. and J.P. Morgan Grupo Financiero are members of the Mexican Stock Exchange and are authorized to act as a broker dealer by the National Banking and Securities Exchange Commission. New Zealand: This material is issued and distributed by JPMSAL in New Zealand only to "wholesale clients" (as defined in the Financial Markets Conduct Act 2013). JPMSAL is registered as a Financial Service Provider under the Financial Service providers (Registration and Dispute Resolution) Act of 2008. Pakistan: J. P. Morgan Pakistan Broking (Pvt.) Ltd is a member of the Karachi Stock Exchange and regulated by the Securities and Exchange Commission of Pakistan. Philippines: J.P. Morgan Securities Philippines Inc. is a Trading Participant of the Philippine Stock Exchange and a member of the Securities Clearing Corporation of the Philippines and the Securities Investor Protection Fund. It is regulated by the Securities and Exchange Commission. Russia: CB J.P. Morgan Bank International LLC is regulated by the Central Bank of Russia. Singapore: This material is issued and distributed in Singapore by or through J.P. Morgan Securities Singapore Private Limited (JPMSS) [MCI (P) 060/08/2022 and Co. Reg. No.: 199405335R], which is a member of the Singapore Exchange Securities Trading Limited, and/or JPMorgan Chase Bank, N.A., Singapore branch (JPMCB Singapore), both of which are regulated by the Monetary Authority of Singapore. This material is issued and distributed in Singapore only to accredited investors, expert investors and institutional investors, as defined in Section 4A of the Securities and Futures Act, Cap. 289 (SFA). This material is not intended to be issued or distributed to any retail investors or any other investors that do not fall into the classes of "accredited investors," "expert investors" or "institutional investors," as defined under Section 4A of the SFA. Recipients of this material in Singapore are to contact JPMSS or JPMCB Singapore in respect of any matters arising from, or in connection with, the material. As at the date of this material, JPMSS is a designated market maker for certain structured warrants listed on the Singapore Exchange where the underlying securities may be the securities discussed in this material. Arising from its role as a designated market maker for such structured warrants, JPMSS may conduct hedging activities in respect of such underlying securities and hold or have an interest in such underlying securities as a result. The updated list of structured warrants for which JPMSS acts as designated market maker may be found on the website of the Singapore Exchange Limited: http://www.sgx.com. South Africa: J.P. Morgan Equities South Africa Proprietary Limited and JPMorgan Chase Bank, N.A., Johannesburg Branch are members of the Johannesburg Securities Exchange and are regulated by the Financial Services Board. Taiwan: J.P. Morgan Securities (Taiwan) Limited is a participant of the Taiwan Stock Exchange (company-type) and regulated by the Taiwan Securities and Futures Bureau. Material relating to equity securities is issued and distributed in Taiwan by J.P. Morgan Securities (Taiwan) Limited, subject to the license scope and the applicable laws and the regulations in Taiwan. According to Paragraph 2, Article 7-1 of Operational Regulations Governing Securities Firms Recommending Trades in Securities to Customers (as amended or supplemented) and/or other applicable laws or regulations, please note that the recipient of this material is not permitted to engage in any activities in connection with the material that may give rise to conflicts of interests, unless otherwise disclosed in the "Important Disclosures" in this material. Thailand: This material is issued and distributed in Thailand by JPMorgan Securities (Thailand) Ltd., which is a member of the Stock Exchange of Thailand and is regulated by the Ministry of Finance and the Securities and Exchange Commission, and its registered address is 3rd Floor, 20 North Sathorn Road, Silom, Bangrak, Bangkok 10500. UK: Unless specified to the contrary, research is distributed in the UK by J.P. Morgan Securities plc ("JPMS plc") which is a member of the London Stock Exchange and is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. JPMS plc is registered in England & Wales No. 2711006, Registered Office 25 Bank Street, London, E14 5JP. This material is directed in the UK only to: (a) persons having professional experience in matters relating to investments falling within article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) (Order) 2005 ("the FPO"); (b) persons outlined in article 49 of the FPO (high net worth companies, unincorporated associations or partnerships, the trustees of high value trusts, etc.); or (c) any persons to whom this communication may otherwise lawfully be made; all such persons being referred to as "UK relevant persons". This material must not be acted on or relied on by persons who are not UK relevant persons. Any investment or investment activity to which this material relates is only available to UK relevant persons and will be engaged in only with UK relevant persons. Research issued by JPMS plc has been prepared in accordance with JPMS plc's policy for prevention and avoidance of conflicts of interest related to the production of Research which can be found at the following link: J.P. Morgan EMEA - Research Independence Policy. U.S.: J.P. Morgan Securities LLC ("JPMS") is a member of the NYSE, FINRA, SIPC, and the NFA. JPMorgan Chase Bank, N.A. is a member of the FDIC. Material published by non-U.S. affiliates is distributed in the U.S. by JPMS who accepts responsibility for its content.

**General:** Additional information is available upon request. The information in this material has been obtained from sources believed to be reliable. While all reasonable care has been taken to ensure that the facts stated in this material are accurate and that the forecasts, opinions and expectations contained herein are fair and reasonable, JPMorgan Chase & Co. or its affiliates and/or subsidiaries (collectively J.P. Morgan) make no representations or warranties whatsoever to the completeness or accuracy of the material provided, except with respect to any disclosures relative to J.P. Morgan and the Research Analyst's involvement with the issuer that is the subject of the material. Accordingly, no reliance should be placed on the accuracy, fairness or completeness of the information contained in this material. Any data discrepancies in this material could be the result of different calculations and/or adjustments. J.P. Morgan accepts no liability whatsoever for any loss arising from any use of this material or its contents, and neither J.P. Morgan nor any of its respective directors, officers or employees, shall be in any way responsible for the contents hereof, apart from the liabilities and responsibilities that may be imposed on them by the relevant regulatory authority in the jurisdiction in question, or the regulatory regime thereunder. Opinions, forecasts or projections contained in this material represent J.P. Morgan's current opinions or judgment as of the date of the material only and are therefore subject to change without notice. Periodic updates may be provided on companies/industries based on companies/industries based on company-specific developments or announcements, market conditions or any other publicly available information. There can be no

assurance that future results or events will be consistent with any such opinions, forecasts or projections, which represent only one possible outcome. Furthermore, such opinions, forecasts or projections are subject to certain risks, uncertainties and assumptions that have not been verified, and future actual results or events could differ materially. The value of, or income from, any investments referred to in this material may fluctuate and/or be affected by changes in exchange rates. All pricing is indicative as of the close of market for the securities discussed, unless otherwise stated. Past performance is not indicative of future results. Accordingly, investors may receive back less than originally invested. This material is not intended as an offer or solicitation for the purchase or sale of any financial instrument. The opinions and recommendations herein do not take into account individual client circumstances, objectives, or needs and are not intended as recommendations of particular securities, financial instruments or strategies to particular clients. The recipients of this material must make their own independent decisions regarding any securities or financial instruments mentioned herein and should seek advice from such independent financial, legal, tax or other adviser as they deem necessary. J.P. Morgan may trade as a principal on the basis of the Research Analysts' views and research, and it may also engage in transactions for its own account or for its clients' accounts in a manner inconsistent with the views taken in this material, and J.P. Morgan is under no obligation to ensure that such other communication is brought to the attention of any recipient of this material. Others within J.P. Morgan, including Strategists, Sales staff and other Research Analysts, may take views that are inconsistent with those taken in this material. Employees of J.P. Morgan not involved in the preparation of this material may have investments in the securities (or derivatives of such securities) mentioned in this material and may trade them in ways different from those discussed in this material. This material is not an advertisement for or marketing of any issuer, its products or services, or its securities in any jurisdiction.

#### "Other Disclosures" last revised October 01, 2022.

Copyright 2022 JPMorgan Chase & Co. All rights reserved. This material or any portion hereof may not be reprinted, sold or redistributed without the written consent of J.P. Morgan.