
February 10, 2023

Commentary

Weekly Economic Perspectives

Contents

01 The Economy

US consumer credit growth slows sharply. Canada's labor market smashes expectations...again. UK GDP flat in Q4. German industrial production drops. Japanese wage inflation spikes. The RBA delivers hawkish 25 bp hike.

07 Week in Review

08 Week in Preview

09 Economic Indicators

Spotlight on Next Week

US inflation likely to downshift, but maybe not as much as expected. Japan's Q4 GDP may surprise to the upside. Aussie January employment may rebound.

Contact**Simona Mocuta**

Chief Economist

simona_mocuta@ssga.com

+1-617-664-1133

Krishna Bhimavarapu

Economist

VenkataVamseaKrishna_Bhimavarapu@ssga.com

+91-806-741-5000

Amy Le

Macro-Investment Strategist

amy_le@ssga.com

+44-203-395-6590

The Economy

Markets digest the rate implications of data signaling economic resilience.

US

After a slew of important releases last week, this was a lighter week on the US data front. There is broadening evidence that consumer sentiment is improving thanks to labor market resilience and moderating inflation. Indeed, the preliminary reading on the **Michigan Consumer Sentiment** index for February came in better than expected. The headline rose 1.5 points on a solid 4.2-point jump in the current situation assessment, while expectations eroded marginally. Long term inflation expectations were unchanged at 2.9% but short term (1 year) expectations rose three tenths to 4.2%, retracing more than half of January's retreat.

Mortgage applications are trying to find a bottom, aided by the one percentage point drop in the 30-year mortgage rate since early November. Mortgage applications rose 7.4% during the week of February 3, with purchase applications up 3.1% w/w and refinancing applications up 17.7% w/w. Activity remains well below year-earlier levels, but appears to have bottomed in both segments. Purchase applications were down 37.0% y/y with refinancing applications down 74.8% y/y during the February 3 week.

The rising cost of credit seems to be finally dampening demand for credit. Overall **consumer credit** rose by a smaller than expected \$11.6 billion in December, the least since January 2021. The slowdown was evident across both revolving and non-revolving categories. The former increased by the smallest amount since August 2021 and the latter by the smallest amount since August 2020.

The **federal budget deficit** stood at -38.8 billion in January, a reversal from a surplus of almost \$119 billion in January 2022. Notably, interest expenses exceeded defense expenditures during the month. Given ongoing increases in interest rates and given the substantial surge in the level of federal debt, the debt servicing burden is poised to get heavier still.

Canada

After a steep drop in December, the **Ivey PMI** rose to an eight-month high of 60.1 on solid employment and improving supplier deliveries. The comforting aspect is the fall in the prices index – to 63.6 from 67.5 in December. However, the employment sub-index remained on a firm footing at 60.5 from 59.5 in December.

The labor market smashed past expectations again, as hinted by the Ivey PMI. The economy added 150,000 jobs—precisely ten times the expectation! Importantly, though, the December job gains were revised down by nearly 30,000 to 69,200. The **unemployment rate** was unchanged at 5.0% but the participation rate jumped to 65.7%. Growth in immigrant-held jobs touched 13.3% y/y (+79,000), while resident-held jobs increased 2.8% (+536,000). The share of immigrants in overall employment rose to 3.4% in January from 3.1% last year. From a sector standpoint, services added 125,700 jobs while the goods sector added 25,400 jobs. Most job gains came in the prime-age group of 25-54 years old (100,000) and also among those aged over 54 (43,000). Industry-wise, most jobs were added by wholesale and retail trade (+59,000) and health care (+40,000). Declines were marked in transportation and warehousing (-17,000). **Average hourly earnings** rose by 4.5% y/y, slowing from December's downwardly revised 4.7% (from 5.2%).

While January employment report may warrant some repricing of the terminal BoC policy rate, it is important to remember that the labor market data has been quite volatile amid downward revisions. Given that wage growth has been decelerating, we continue to expect the BoC to remain on hold. There is a possible case for renewed hawkishness if the January CPI data subsequently throws a surprise.

Figure 1: Canada's Labor Market Remains On Solid Footing



Sources: SSGA Economics, StatCan, Macrobond

Merchandise exports declined 1.2% m/m in December on lower exports of energy products, and imports dropped 1.3%. Resultingly, the **merchandise trade deficit** narrowed to C\$160 million. Excluding the US, exports dropped 4.5%, while imports declined 3.8% for a second month. On an annual basis, however, the economy posted a second consecutive surplus in 2022 of C\$20.1 billion, more than four times greater than in 2021. However, slowing exports and imports don't bode well for the economy, but we expect the damage to be contained.

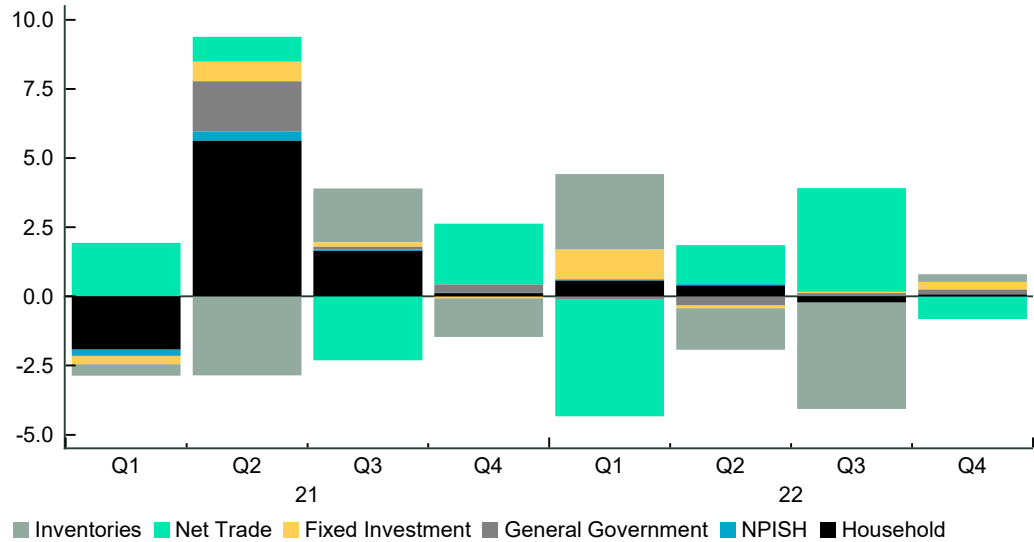
UK

It was a not very dramatic end to a very dramatic year for the UK economy. **Real GDP** was flat in the fourth quarter, an outcome slightly better than anticipated and made better still by an upward revision to the third-quarter data. With these, the economy grew 4.1% in 2022 as a whole, indeed, not a bad outcome given all that has transpired over the course of the year in respect to the energy price shock, fiscal policy reversals, and monetary tightening. For our part, we suspect some revisions to the fourth quarter data are likely as the component behavior seems a little odd. However, for the time being, we must report on the data as reported. As such, consumer spending rose a meager 0.1% q/q, but this was better than consensus expectations of a small decline. Fixed investment also did better than expected, up 1.5% y/y, but this upside surprise was essentially offset by a downward revision to Q3 performance. Inventories rose—this was a surprise to us, at least—a development that seems to have reflected an equally unexpected increase in imports. From a contribution to growth standpoint, this was a quarter where no sector made the sort of

outsized contributions visible in prior periods (Figure 2 below). The Q4 data, plus the earlier revisions, pose upside risks to our forecast of a 0.7% contraction in UK real GDP this year. Our next forecast update is due by mid-March.

Figure 2: Less Dramatic Moves In UK Q4 GDP

Percentage point contribution to quarterly growth



Sources: SSGA Economics, ONS

Eurozone

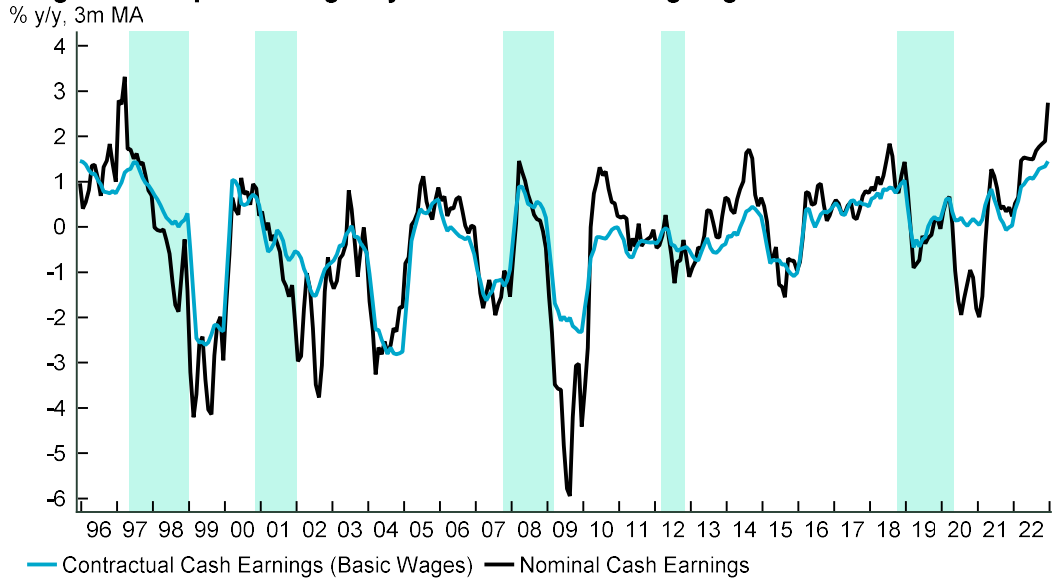
Industrial production was mixed across the region in December. **Germany** disappointed with a 3.1% monthly plunge that implies a sizable decline in the eurozone aggregate, but output jumped 1.6% m/m in **Italy**. The German weakness was exacerbated by an 8.0% plunge in construction output; manufacturing and mining declined a smaller 2.1%.

French monthly wages rose 0.6% q/q in Q4, marking the smallest quarterly gain in a year. Nevertheless, large increases earlier in the year mean that wage inflation has accelerated sharply over the course of 2022. The monthly wage index rose 3.9% y/y in Q4, up from about 1.6% in the previous few years.

Japan

Japanese wage inflation seems to be breaking higher. **Overall cash earnings** rose 4.8% y/y in December, the highest since 1997! Admittedly, most of this reflected one-time factors such as annual bonuses, which resulted in a 7.6% jump in special payments. However, contractual cash earnings (basic wages) also rose 1.8% y/y in December, the most since February 1995! Going forward, we expect wage growth to rise sustainably, supporting the view that monetary policy in Japan will normalize. We expect consumption to pick up from Q2 this year after a more favorable outcome from *shunto* wage negotiations next month.

Figure 3: Japan's Wage Dynamics Are Shifting Higher



Sources: SSGA Economics, Japanese Ministry of Health, Labour & Welfare, Macrobond

However, high-frequency consumption data was weak in December. The **BoJ's Consumption Activity Index (CAI)** fell 1.0% m/m while the November data was downwardly revised to -1.7% from -1.2%. Weaknesses in both goods and services were pronounced, falling -1.0% and -0.6%, respectively. This data was affirmed by the Ministry of Finance's household survey, which showed that December's real spending remained in negative territory for a second month at -1.3% y/y. However, real core spending came in positive at +0.5% y/y. Notable increases were recorded in key components with clothing & footwear (+6.8% m/m), furniture & household goods (+4.0%), while culture & recreation fell (-4.3%) and medical care (-4.2%). Separately, the government's **consumption trend index (CTI)** showed both the headline and the household consumption picked up in December at +0.1% m/m and +1.7%, respectively.

Essentially, these data support our consumption expectation for Q4 2022 at 2% y/y. A 1.7% rise in gross fixed capital formation should take the seasonally adjusted annualized GDP to 2.0%, landing 2022 GDP overall at 1.2% y/y. The critical source of uncertainty is inventory accumulation, which we expect to have dropped on the pick-up in domestic consumption. We will learn more next week.

On Friday, the Nikkei reported that the government would appoint **Dr Kazuo Ueda** as the new governor, an MIT PhD academic economist. Dr Ueda was a member of the BoJ board between 1998-2005 and had voted against exiting negative rates in August 2000. However, his April 2005 paper *"The Effects of the Bank of Japan's Zero Interest Rate Commitment and Quantitative Monetary Easing on the Yield Curve: A Macro-Finance Approach"* concluded that **"The portfolio rebalancing effect -- either by the BOJ's supplying ample liquidity or by its purchases of long-term government bonds -- has not been found to be significant."** The yen strengthened against the USD as market read this as a hawkish signal. We expect the new BoJ leadership to bring about changes in a data-dependent manner and see another modification in YCC this year.

Australia

The **Reserve Bank of Australia** (RBA) raised the cash rate target by 25 bps to 3.35% as expected, but the hawkish guidance took markets by surprise. An entire paragraph affirming its commitment to bring inflation back to the target marked a pivot from the dovish expectations the bank had set in December when it shifted to smaller hikes. Specifically, “*if high inflation were to become entrenched in people’s expectations, it would be very costly to reduce later*” and “...***the path to achieving a soft landing remains a narrow one***” surprised us.

The Statement of Monetary Policy strongly reiterated the hawkishness and materially revised inflation and wages, which we have highlighted previously. The statement that the board “*expects that further increases in interest rates will be needed over the months ahead*” stood out. The overall guidance supports our terminal forecast of 3.85% but we fear that the RBA may overreach if the hiking further as ‘the path to achieving a soft landing becomes narrow’.

On the other end, the economy is coming off the post-Covid highs. **Retail volumes** dropped -0.2% q/q in Q4 2022 as consumer preferences shifted from retail to more recreational activities. Compositionally, volumes rose +2.1% for food retailing, less so in cafes, restaurants and takeaways at +0.3%. However, spending on household goods fell for the fourth quarter at -2.0%. Perhaps the most significant risk presented from the volumes data was in the deflator, which rose +1.1% q/q, which translated into +7.3% y/y. The rise was strong and reasonably broad-based.

Week in Review (January 30 – February 03)

Country	Release (Date, format)	Consensus	Actual	Last	Comments
Monday, February 06					
CA	Ivey PMI SA (Jan)	na	60.1	33.4	Will the rebound prove sustainable?
GE	Factory Orders (Dec, m/m)	2.0%	3.2%	-4.4% (↑)	OK, not great.
JN	Labor Cash Earnings (Dec, y/y)	2.5%	4.8%	1.9% (↑)	Very encouraging.
AU	Retail Sales Ex Inflation (Q4, q/q)	-0.5%	-0.2%	0.3% (↑)	Contained drop.
Tuesday, February 07					
US	Consumer Credit (Dec, \$, bn)	25.000	11.565	33.107 (↑)	Sharp deceleration.
CA	Int'l Merchandise Trade (Dec, m/m, C\$, bn)	-0.50	-0.16	-0.22 (↓)	Slowing economy.
GE	Industrial Production (Dec, m/m, sa)	-0.8%	-3.1%	0.4% (↑)	Ouch!
JN	Leading Index CI (Dec, prelim)	97.1	97.2	97.7 (↑)	Mild retreat.
AU	RBA Cash Rate Target (Feb 07)	3.35%	3.35%	3.10%	Hawkish guidance supports our terminal 3.85%.
Wednesday, February 08					
IT	Retail Sales (Dec, m/m)	-0.7%	-0.2%	0.8%	OK.
Thursday, February 09					
US	Initial Jobless Claims (Feb 04, thous)	190	196	183	Low.
US	Continuing Claims (Jan 28, thous)	1,660	1,688	1,650 (↓)	Low.
GE	CPI (Jan, y/y, prelim)	8.9%	8.7%	8.6%	Fine.
JN	PPI (Jan, y/y)	9.7%	9.5%	10.5% (↑)	Still high.
Friday, February 10					
US	U. of Mich. Sentiment (Feb, prelim)	65.0	66.4	64.9	Current situation improved.
US	Monthly Budget Statement (Jan, \$, bn)	-55.0	-38.8	118.7	Interest costs on the rise.
CA	Unemployment Rate (Jan)	5.1%	5.0%	5.0%	Super-strong labor market.
UK	Industrial Production (Dec, m/m)	-0.2%	0.3%	0.1% (↑)	Welcome but not game changing.
UK	GDP (Q4, q/q, prelim)	0.0%	0.0%	-0.2% (↑)	Private consumption rose 0.1%.
FR	Wages (Q4, q/q, prelim)	1.0%	0.6%	1.0%	Smallest increase in a year.
IT	Industrial Production (Dec, m/m)	0.2%	1.6%	-0.1% (↑)	Good!

Source: for data, Bloomberg®; for commentary, SSGA Economics.

Week In Preview (January 30 – February 03)

Country	Release (Date, format)	Consensus	Last	Comments
Monday, February 13				
JN	GDP (Q4, q/q, sa, prelim)	0.5%	-0.2%	We expect 1.2% y/y average growth in 2022.
JN	Industrial Production (Dec, m/m, final)	-0.1% (p)	-1.2%	May come in higher than consensus.
AU	Westpac Consumer Conf Index (Feb)	na	84.3	May come in lower.
AU	NAB Business Confidence (Jan)	na	-1.0	May come in lower.
Tuesday, February 14				
US	NFIB Small Business Optimism (Jan)	91.0	89.8	Price and wage plans important to watch.
US	CPI (Jan, y/y)	6.2%	6.5%	There is some upside risk here.
UK	Average Weekly Earnings (Dec, 3m, y/y)	6.2%	6.4%	
UK	ILO Unemployment Rate (Dec, 3m, m/m)	3.7%	3.7%	
EC	GDP (Q4, q/q, prelim, sa)	0.1%	0.1%	
JN	Tertiary Industry Index (Dec, m/m)	0.1%	-0.2%	Should rebound from last month.
Wednesday, February 15				
US	Empire Manufacturing (Feb)	-18.0	-32.9	
US	Retail Sales Advance (Jan, m/m)	1.9%	-1.1%	Lifted by jump in vehicle sales.
US	Industrial Production (Jan, m/m)	0.5%	-0.7%	
US	Business Inventories (Dec, m/m)	0.3%	0.4%	
US	NAHB Housing Market Index (Feb)	37	35	Putting in a bottom.
CA	Housing Starts (Jan, thous)	245.0	248.6	Should be slowing.
CA	Manufacturing Sales (Dec, m/m)	-1.5%	0.0%	
CA	Existing Home Sales (Jan, m/m)	-2.5%	1.3%	May start rising strongly.
UK	CPI (Jan, y/y)	10.3%	10.5%	
EC	Industrial Production (Dec, m/m, sa)	-0.8%	1.0%	Dragged down by Germany.
JN	Core Machine Orders (Dec, m/m)	2.8%	-8.3%	Rebound expected.
AU	Unemployment Rate (Jan)	3.5%	3.5%	Should come in strong.
Thursday, February 16				
US	Building Permits (Jan, thous)	1,350	1,337 (↑)	
US	Housing Starts (Jan, thous)	1,355	1,382	
US	Initial Jobless Claims (Feb 11, thous)	200	196	
US	Continuing Jobless Claims (Feb 4, thous)	1,688	1,688	
US	Philadelphia Fed Business Outlook (Feb)	-7.4	-8.9	
US	PPI Final Demand (Jan, y/y)	5.4%	6.2%	
Friday, February 17				
US	Import Price Index (Jan, y/y)	1.8%	3.5%	
US	Leading Index (Jan, m/m)	-0.3%	-0.8%	
CA	Teranet/National Bank HPI (Jan, y/y)	na	0.0%	Uptick expected.
CA	Industrial Product Price (Jan, m/m)	-0.1%	-1.1%	May be decelerating.
CA	Raw Materials Price Index (Jan, m/m)	na	-3.1%	Deflationary.
UK	Retail Sales Inc Auto Fuel (Jan, m/m)	-0.3%	-1.0%	
FR	CPI (Jan, y/y, final)	6.0% (p)	5.9%	

Source: for data, Bloomberg®; for commentary, SSGA Economics.

Economic Indicators

Central Bank Policy Targets

Region	Target	Year/Year % Change in Target				
		Aug	Sep	Oct	Nov	Dec
US	Target: PCE price index 2.0% y/y	6.3	6.3	6.1	5.5	5.0
Canada	Target: CPI 2.0% y/y, 1.0%-3.0% control range	7.0	6.9	6.9	6.8	6.3
UK	Target: CPI 2.0% y/y	9.9	10.1	11.1	10.7	10.5
Eurozone	Target: CPI below but close to 2.0% y/y	9.1	9.9	10.6	10.1	9.2
Japan	Target: CPI 2.0% y/y	3.0	3.0	3.7	3.8	4.0
Australia	Target Range: CPI 2.0%-3.0% y/y	7.3	7.3	7.8	7.8	7.8

Source: Macrobond

Key Interest Rates

	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23
US (top of target range)	0.50	0.50	1.00	1.75	2.50	2.50	3.25	3.25	4.00	4.50	4.50
Canada (Overnight Rate)	0.50	1.00	1.00	1.50	2.50	2.50	3.25	3.75	3.75	4.25	4.50
UK (Bank Rate)	0.75	0.75	1.00	1.25	1.25	1.75	2.25	2.25	3.00	3.50	3.50
Eurozone (Refi)	0.00	0.00	0.00	0.00	0.50	0.50	1.25	1.25	2.00	2.50	2.50
Japan (OCR)	-0.02	-0.02	-0.03	-0.04	-0.01	-0.04	-0.07	-0.06	-0.08	-0.02	-0.01
Australia (OCR)	0.10	0.10	0.33	0.73	1.28	1.81	2.25	2.58	2.84	3.05	3.10

Source: Macrobond

General Government Structural Balance as a % of Potential GDP

										Forecast	
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	
US	-2.5	-3.6	-4.1	-5.1	-5.7	-10.8	-9.5	-4.0	-5.3	-6.0	
Canada	0.0	0.1	-0.3	0.0	-0.2	-8.6	-4.0	-2.7	-1.2	-0.6	
UK	-3.6	-2.8	-2.3	-2.4	-2.7	0.5	-3.2	-4.3	-1.7	-0.4	
Eurozone	-0.5	-0.5	-0.5	-0.3	-0.5	-4.3	-3.8	-3.5	-2.9		
Germany	1.2	1.2	1.1	1.6	1.3	-2.9	-3.0	-3.0	-1.8	-1.1	
France	-2.1	-1.9	-1.9	-1.5	-2.1	-5.7	-5.1	-4.5	-4.8	-4.3	
Italy	-0.6	-1.2	-1.5	-1.6	-0.9	-6.0	-5.1	-5.7	-3.6	-3.6	
Japan	-4.2	-4.0	-3.4	-2.5	-2.6	-8.2	-6.3	-7.3	-3.2	-2.3	
Australia	-2.6	-2.2	-1.6	-1.1	-4.0	-7.9	-6.2	-3.5	-3.1	-2.6	

Source: International Monetary Fund, World Economic Outlook

Headline Consumer and Producer Price Inflation

	CPI Year/Year % Change						PPI Year/Year % Change				
	Sep	Oct	Nov	Dec	Jan		Sep	Oct	Nov	Dec	Jan
US	8.2	7.7	7.1	6.5			8.5	8.2	7.3	6.2	
Canada	6.9	6.9	6.8	6.3			9.0	9.9	9.4	7.6	
UK	10.1	11.1	10.7	10.5			18.3	17.5	16.3	14.7	
Eurozone	9.9	10.6	10.1	9.2			41.9	30.5	27.0	24.6	
Germany	10.0	10.4	10.0	8.6			45.8	34.5	28.2	21.6	
France	5.6	6.2	6.2	5.9	6.0		26.1	21.3	18.1	17.7	
Italy	8.9	11.8	11.8	11.6	10.1		41.7	27.7	29.4	31.7	
Japan	3.0	3.7	3.8	4.0			10.3	9.7	9.8	10.5	9.5
Australia	7.3	7.8	7.8	7.8			6.4	5.8	5.8	5.8	

Source: Macrobond

Economic Indicators

Real GDP Growth (Q/Q Seasonally Adjusted)

	Quarter/Quarter % Change					Year/Year % Change				
	Q4-21	Q1-22	Q2-22	Q3-22	Q4-22	Q4-21	Q1-22	Q2-22	Q3-22	Q4-22
US	1.7	-0.4	-0.1	0.8	0.7	5.7	3.7	1.8	1.9	1.0
Canada	1.7	0.7	0.8	0.7		3.9	3.2	4.7	3.9	
UK	1.5	0.5	0.1	-0.2	0.0	8.9	10.5	3.9	1.9	0.4
Eurozone	0.5	0.6	0.9	0.3	0.1	4.8	5.5	4.3	2.3	1.9
Germany	0.0	0.8	0.1	0.5	-0.2	1.2	3.5	1.7	1.4	1.1
France	0.6	-0.2	0.5	0.2	0.1	5.1	4.8	4.2	1.0	0.5
Italy	0.9	0.1	1.1	0.5	-0.1	6.6	6.4	5.0	2.7	1.7
Japan	1.2	-0.5	1.1	-0.2		0.9	0.6	1.4	1.7	
Australia	3.8	0.4	0.9	0.6		4.6	2.9	3.2	5.9	

Source: Macrobond

Industrial Production Index (M/M Seasonally Adjusted)

	Month/Month % Change					Year/Year % Change				
	Aug	Sep	Oct	Nov	Dec	Aug	Sep	Oct	Nov	Dec
US	0.0	0.3	0.0	-0.6	-0.7	3.6	5.0	3.4	2.2	1.6
Canada	-0.5	0.4	-0.7	0.1		3.8	4.0	2.3	3.0	
UK	-1.5	-0.1	0.2	0.1	0.3	-6.2	-5.4	-4.2	-4.4	-4.1
Germany	-0.8	1.1	-0.4	0.4	-3.1	1.8	2.7	-0.4	-0.6	-4.2
France	2.6	-0.9	-2.6	2.0	1.1	1.4	1.6	-2.7	0.7	1.4
Italy	2.2	-1.7	-1.0	-0.1	1.6	2.5	-0.4	-1.3	-3.3	0.1
Japan	3.4	-1.7	-3.2	0.2	-0.1	4.2	9.6	3.8	-0.9	-1.2

Source: Macrobond

Unemployment Rate (Seasonally Adjusted)

	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23
US	3.6	3.6	3.6	3.6	3.5	3.7	3.5	3.7	3.6	3.5	3.4
Canada	5.3	5.3	5.2	4.9	4.9	5.3	5.2	5.2	5.1	5.0	5.0
UK	3.8	3.8	3.8	3.6	3.5	3.6	3.7	3.7			
Eurozone	6.8	6.7	6.7	6.7	6.6	6.7	6.7	6.6	6.6	6.6	
Germany	5.0	5.0	5.0	5.3	5.4	5.5	5.5	5.5	5.5	5.5	5.5
France	7.4	7.5	7.6	7.6	7.3	7.2	7.1	7.1	7.0	7.1	
Italy	8.3	8.2	8.1	8.0	8.0	7.9	7.9	7.9	7.8	7.8	
Japan	2.6	2.5	2.6	2.6	2.6	2.5	2.6	2.6	2.5	2.5	
Australia	3.9	3.9	3.9	3.6	3.5	3.5	3.6	3.4	3.5	3.5	

Source: Macrobond

Current Account Balance as a % of GDP (Seasonally Adjusted)

	Q2-20	Q3-20	Q4-20	Q1-21	Q2-21	Q3-21	Q4-21	Q1-22	Q2-22	Q3-22	Q4-22
US	-3.1	-3.2	-3.5	-3.4	-3.6	-3.8	-3.7	-4.6	-3.8	-3.4	
Canada	-1.5	-2.4	-1.4	0.0	-0.4	-0.6	0.0	0.1	0.4	-1.6	
UK	-1.1	-2.6	-6.6	-1.9	-0.4	-3.3	-0.4	-7.7	-5.7	-3.1	
Eurozone	1.2	2.1	3.2	3.5	3.1	2.3	1.2	0.4	-1.3	-3.6	
Germany	5.3	7.0	8.1	9.1	8.1	6.7	5.9	5.6	3.6	1.7	4.1
France	-3.7	-2.0	-0.4	0.6	0.7	0.3	-0.3	-0.1	-1.8	-3.3	-2.9
Japan	4.3	3.7	4.6	4.2	3.6	4.0	3.4	3.1	3.4	3.5	3.5
Australia	-1.5	-2.5	-2.8	-3.5	-2.2	-2.7	-2.2	-1.4	-0.2	1.2	

Source: Macrobond

**About State Street
Global Advisors**

For four decades, State Street Global Advisors has served the world's governments, institutions and financial advisors. With a rigorous, risk-aware approach built on research, analysis and market-tested experience, we build from a breadth of index and active strategies to create cost-effective solutions. And, as pioneers in index, ETF, and ESG investing, we are always inventing new ways to invest. As a result, we have become the world's fourth-largest asset manager* with US \$3.26 trillion[†] under our care.

* Pensions & Investments Research Center, as of December 31, 2021.

[†] This figure is presented as of September 30, 2022 and includes approximately \$55.12 billion of assets with respect to SPDR products for which State Street Global Advisors Funds Distributors, LLC (SSGA FD) acts solely as the marketing agent. SSGA FD and State Street Global Advisors are affiliated. Please note all AUM is unaudited.

ssga.com

**Marketing Communication
Important Risk Discussion**

Investing involves risk including the risk of loss of principal.

All information is from SSGA unless otherwise noted and has been obtained from sources believed to be reliable, but its accuracy is not guaranteed. There is no representation or warranty as to the current accuracy, reliability or completeness of, nor liability for, decisions based on such information and it should not be relied on as such.

The information provided does not constitute investment advice and it should not be relied on as such. It should not be considered a solicitation to buy or an offer to sell a security. It does not take into account any investor's particular investment objectives, strategies, tax status or investment horizon. You should consult your tax and financial advisor.

The trademarks and service marks referenced herein are the property of their respective owners. Third party data providers make no warranties or representations of any kind relating to the accuracy, completeness or timeliness of the data and have no liability for damages of any kind relating to the use of such data.

The whole or any part of this work may not be reproduced, copied or transmitted or any of its contents disclosed to third parties without SSGA's express written consent.

The views expressed in this material are the views of SSGA Economics Team through the period ended February 10, 2023 and are subject to change based on market and other conditions. This document contains certain statements that may be deemed forward-looking statements. Please note that any such statements are not guarantees of any future performance and actual results or developments may differ materially from those projected.

The information contained in this communication is not a research recommendation or 'investment research' and is classified as a 'Marketing Communication' in accordance with the Markets in Financial Instruments Directive (2014/65/EU) or applicable Swiss regulation. This means that this marketing communication

(a) has not been prepared in accordance with legal

requirements designed to promote the independence of investment research (b) is not subject to any prohibition on dealing ahead of the dissemination of investment research.

This communication is directed at professional clients (this includes eligible counterparties as defined by the "appropriate EU regulator" who are deemed both knowledgeable and experienced in matters relating to investments. The products and services to which this communication relates are only available to such persons and persons of any other description (including retail clients) should not rely on this communication.

Intellectual Property Information

BLOOMBERG®, a trademark and service mark of Bloomberg Finance L.P. Standard & Poor's S&P 500 Index® is a registered trademark of Standard & Poor's Financial Services LLC. FTSE 100® is a trademark jointly owned by the London Stock Exchange Plc and The Financial Times Limited, and is used by FTSE International Limited under license. "All-World", "All-Share" and "All-Small" are trademarks of FTSE International Limited.

Australia: State Street Global Advisors, Australia, Limited (ABN 42 003 914 225) is the holder of an Australian Financial Services License (AFSL Number 238276). Registered office: Level 14, 420 George Street, Sydney, NSW 2000, Australia. T: +612 9240-7600. F: +612 9240-7611.

Hong Kong: State Street Global Advisors Asia Limited, 68/F, Two International Finance Centre, 8 Finance Street, Central, Hong Kong. T: +852 2103-0288. F: +852 2103-0200.

Japan: State Street Global Advisors (Japan) Co., Ltd., Toranomon Hills Mori Tower 25F 1-23-1 Toranomon, Minato-ku, Tokyo 105-6325 Japan. T: +81-3-4530-7380. Financial Instruments Business Operator, Kanto Local Financial Bureau (Kinsho #345), Membership: Japan Investment Advisers Association, The Investment Trust Association, Japan, Japan Securities Dealers' Association.

Singapore: State Street Global Advisors Singapore Limited, 168, Robinson Road, #33-01 Capital Tower, Singapore 068912 (Company Reg. No: 200002719D, regulated by the Monetary Authority of Singapore). T: +65 6826-7555.

F: +65 6826-7501.

Abu Dhabi: State Street Global Advisors Limited, ADGM branch is regulated by the Financial Services Regulatory Authority (FSRA). This document is intended for Professional Clients or Market Counterparties only as defined by the FSRA and no other person should act upon it.

State Street Global Advisors Limited, ADGM Branch, Al Khatem Tower, Suite 42801, Level 28, ADGM Square, Al Maryah Island, P.O Box 76404, Abu Dhabi, United Arab Emirates. Regulated by the ADGM Financial Services Regulatory Authority. T: +971 2 245 9000.

Belgium: State Street Global Advisors Belgium, Chaussée de La Hulpe 185, 1170 Brussels, Belgium. T: +32 2 663 2036. State Street Global Advisors Belgium is a branch office of State Street Global Advisors Europe Limited, registered in Ireland with company number 49934, authorised and regulated by the Central Bank of Ireland, and whose registered office is at 78 Sir John Rogerson's Quay, Dublin 2.

France: State Street Global Advisors Europe Limited, France Branch ("State Street Global Advisors France") is a branch of State Street Global Advisors Europe Limited, registered in Ireland with company number 49934, authorised and regulated by the Central Bank of Ireland, and whose registered office is at 78 Sir John Rogerson's Quay, Dublin 2. State Street Global Advisors France is registered in France with company number RCS Nanterre 899 183 289, and its office is located at Coeur Défense - Tour A - La Défense 4, 33e étage, 100, Esplanade du Général de Gaulle, 92 931 Paris La Défense Cedex, France. T: +33 1 44 45 40 00. F: +33 1 44 45 41 92.

Germany: State Street Global Advisors Europe Limited, Branch in Germany, Brienner Strasse 59, D-80333 Munich, Germany ("State Street Global Advisors Germany"). T: +49 (0)89 55878 400. State Street Global Advisors Germany is a branch of State Street Global Advisors Europe Limited, registered in Ireland with company number 49934, authorised and regulated by the Central Bank of Ireland, and whose registered office is at 78 Sir John Rogerson's Quay, Dublin 2.

Ireland: State Street Global Advisors Europe Limited is regulated by the Central Bank of Ireland. Registered office address

78 Sir John Rogerson's Quay, Dublin 2. Registered Number: 49934. T: +353 (0)1 776 3000. F: +353 (0)1 776 3300.

Italy: State Street Global Advisors Europe Limited, Italy Branch ("State Street Global Advisors Italy") is a branch of State Street Global Advisors Europe Limited, registered in Ireland with company number 49934, authorised and regulated by the Central Bank of Ireland, and whose registered office is at 78 Sir John Rogerson's Quay, Dublin 2. State Street Global Advisors Italy is registered in Italy with company number 11871450968 - REA: 2628603 and VAT number 11871450968, and its office is located at Via Ferrante Aporti, 10 - 20125 Milan, Italy. T: +39 02 32066 100. F: +39 02 32066 155.

Netherlands: State Street Global Advisors Netherlands, Apollo Building 7th floor, Herikerbergweg 29, 1101 CN Amsterdam, Netherlands. T: +31 20 7181 000. State Street Global Advisors Netherlands is a branch office of State Street Global Advisors Europe Limited, registered in Ireland with company number 49934, authorised and regulated by the Central Bank of Ireland, and whose registered office is at 78 Sir John Rogerson's Quay, Dublin 2.

Switzerland: State Street Global Advisors AG, Beethovenstr. 19, CH-8027 Zurich. Registered with the Register of Commerce Zurich CHE-105.078.458. T: +41 (0)44 245 70 00. F: +41 (0)44 245 70 16.

United Kingdom: State Street Global Advisors Limited. Authorised and regulated by the Financial Conduct Authority. Registered in England. Registered No. 2509928. VAT No. 5776591 81. Registered office: 20 Churchill Place, Canary Wharf, London, E14 5HJ. T: 020 3395 6000. F: 020 3395 6350.

Canada: State Street Global Advisors, Ltd., 1981 McGill College Avenue, Suite 500, Montreal, Qc, H3A 3A8, T: +514 282 2400 and 30 Adelaide Street East Suite 800, Toronto, Ontario M5C 3G6. T: +647 775 5900.

United States: State Street Global Advisors, 1 Iron Street, Boston, MA 02210-1641.

© 2023 State Street Corporation. All Rights Reserved. 2537623.175.1.GBL.RTL Exp. Date: 02/29/2024