APOLLO

Daily and weekly indicators for the US economy

Torsten Slok, Jyoti Agarwal, and Rajvi Shah

Apollo Global Management

July 2023

Legal Disclaimer

Unless otherwise noted, information included herein is presented as of the dates indicated. Apollo Global Management, Inc. (together with its subsidiaries, "Apollo") makes no representation or warranty, expressed or implied, with respect to the accuracy, reasonableness, or completeness of any of the information contained herein, including, but not limited to, information obtained from third parties. Opinions, estimates and projections constitute the current judgment of the author as of the date indicated. They do not necessarily reflect the views and opinions of Apollo and are subject to change at any time without notice. Apollo does not have any responsibility to update the information to account for such changes. Hyperlinks to third-party websites in these materials are provided for reader convenience only. There can be no assurance that any trends discussed herein will continue.

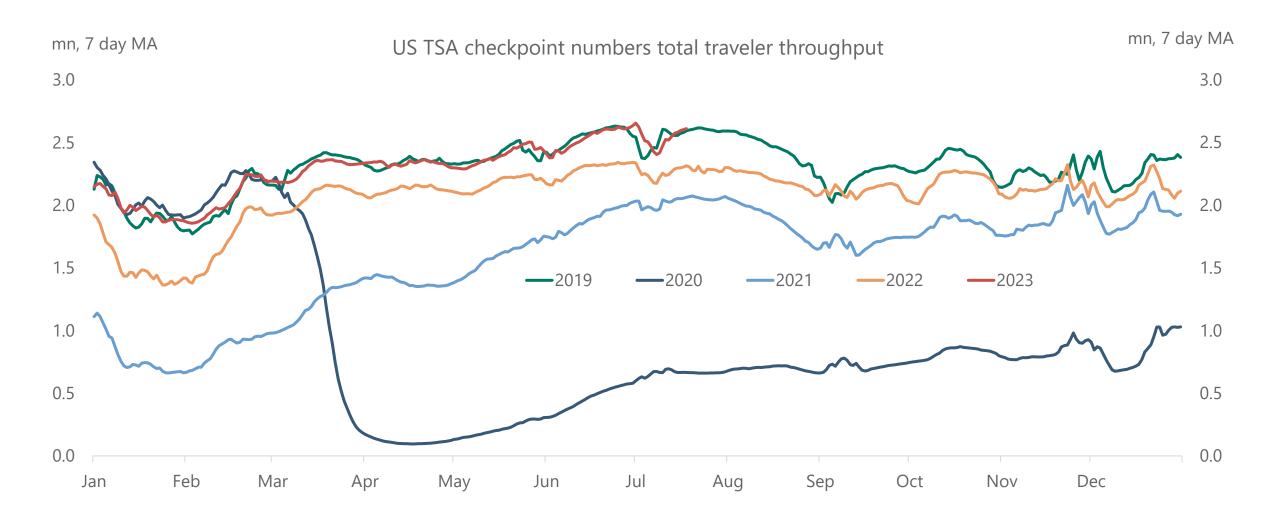
The information contained herein is not intended to provide, and should not be relied upon for, accounting, legal or tax advice and does not constitute an investment recommendation or investment advice. Investors should make an independent investigation of the information contained herein, including consulting their tax, legal, accounting or other advisors about such information. Apollo does not act for you and is not responsible for providing you with the protections afforded to its clients.

Certain information contained herein may be "forward-looking" in nature. Due to various risks and uncertainties, actual events or results may differ materially from those reflected or contemplated in such forward-looking information. As such, undue reliance should not be placed on such information. Forward-looking statements may be identified by the use of terminology including, but not limited to, "may", "will", "should", "expect", "anticipate", "target", "project", "estimate", "intend", "continue" or "believe" or the negatives thereof or other variations thereon or comparable terminology.

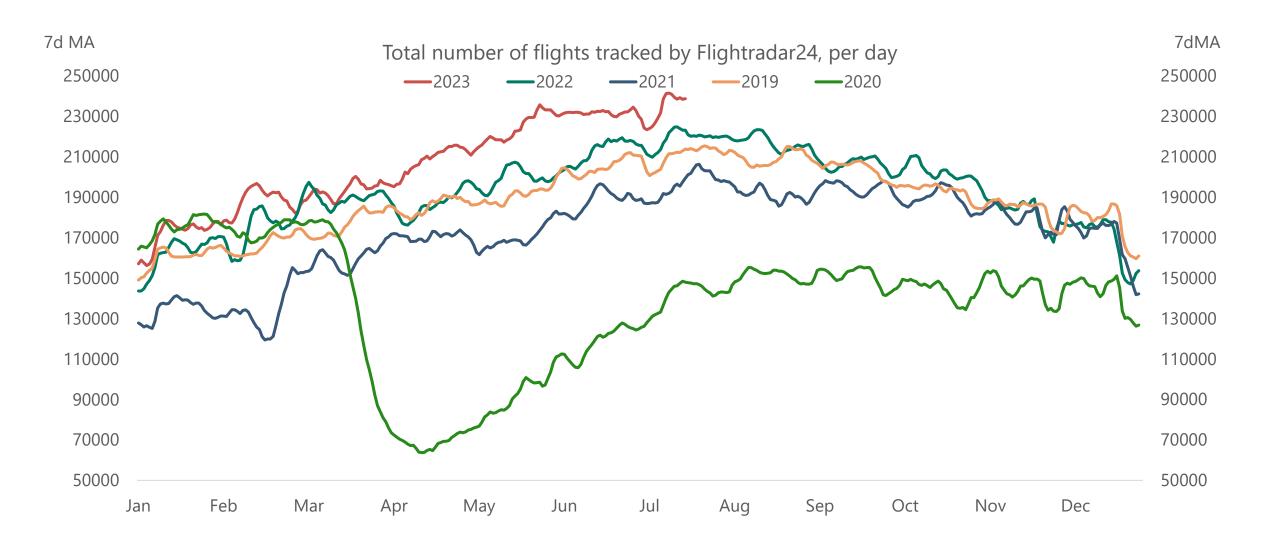


Daily economic indicators

US air travel still solid

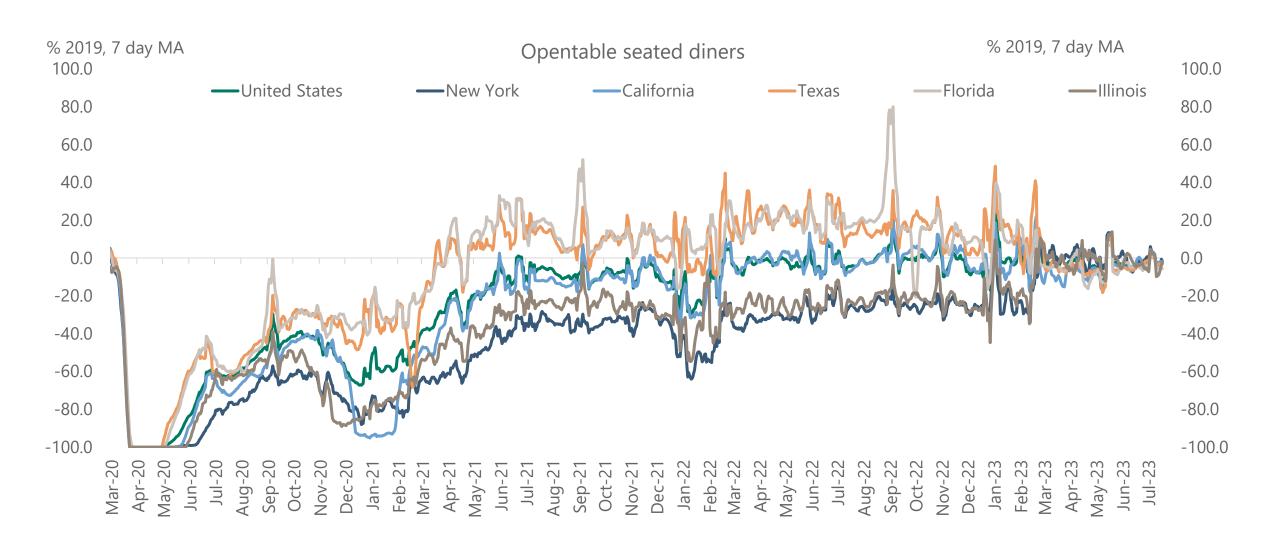


Global air traffic at the highest level in five years



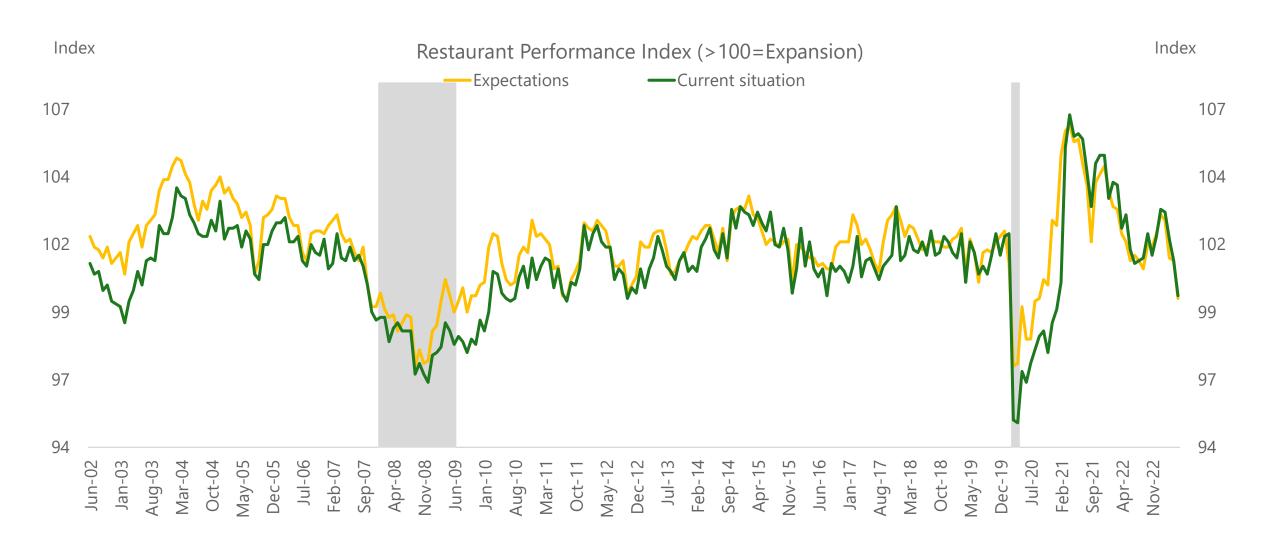
Source: Flightradar24.com, Apollo Chief Economist

Restaurant bookings have normalized

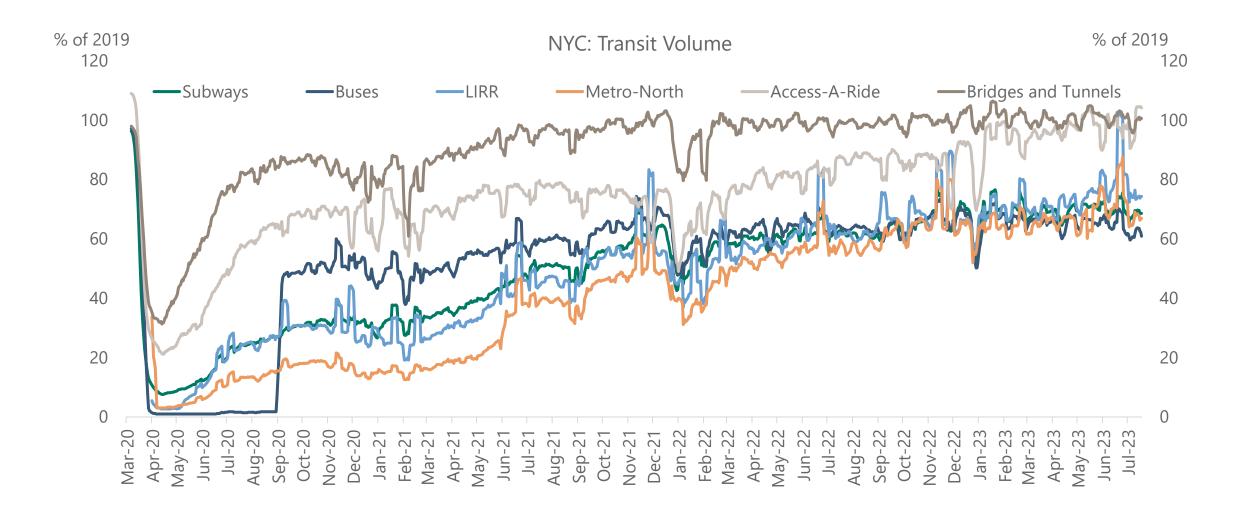


Source: OpenTable, Apollo Chief Economist

Restaurant demand starting to slow down

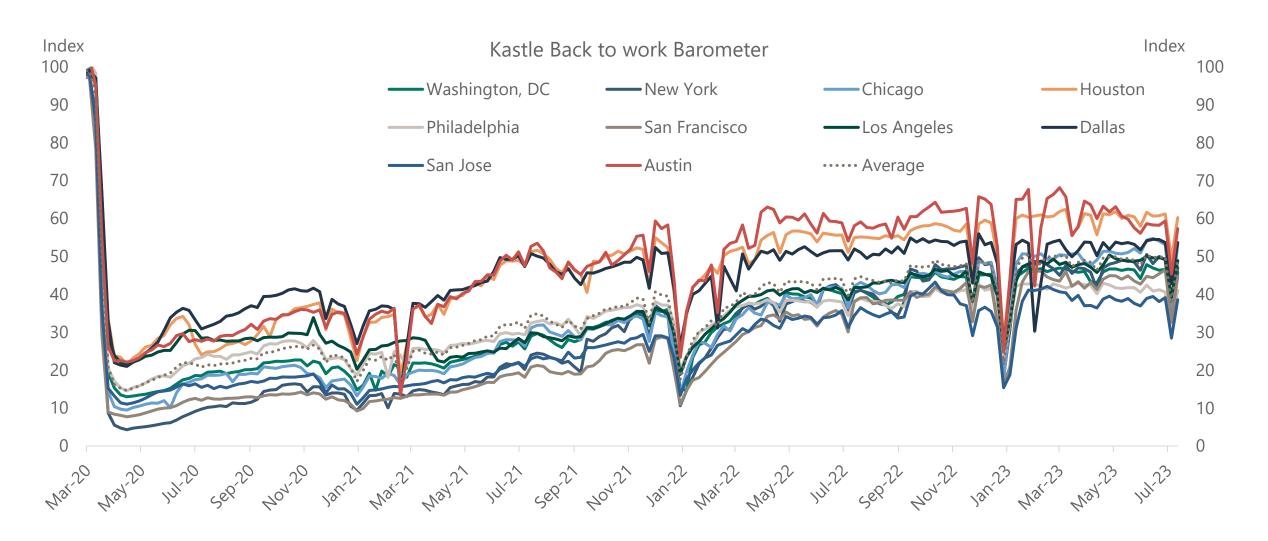


NYC mobility indicators

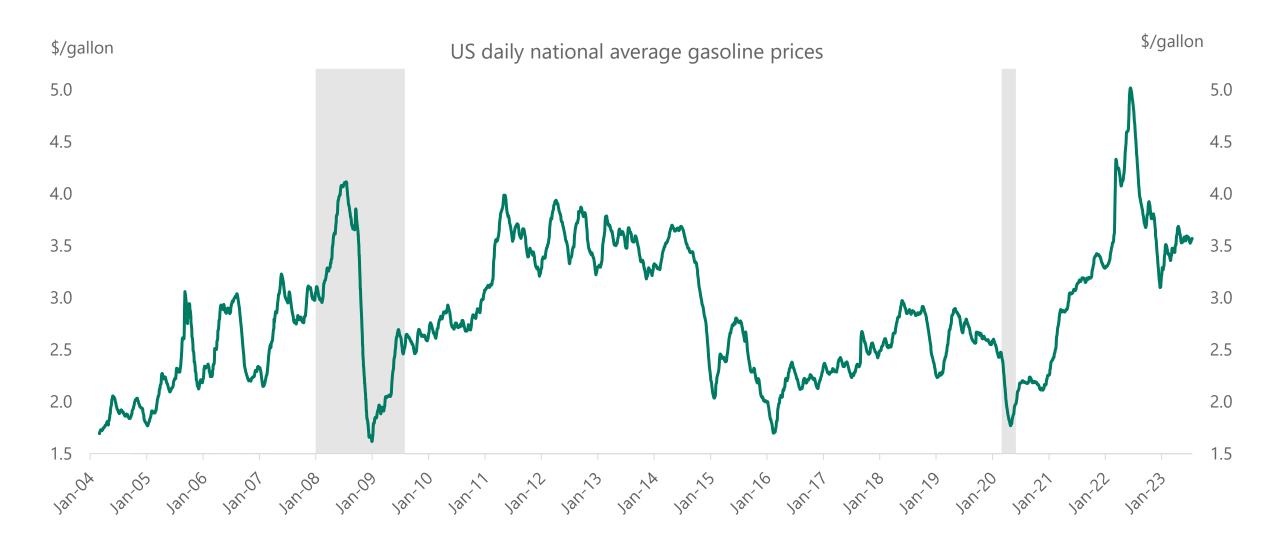


Source: MTA, Apollo Chief Economist

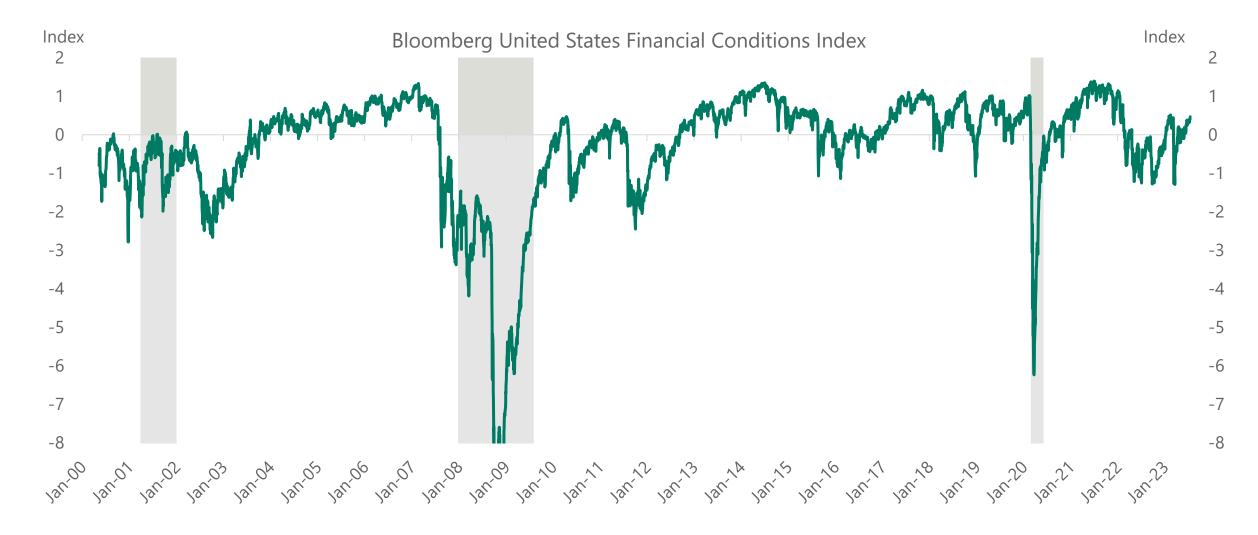
New York City office use at 47% of capacity



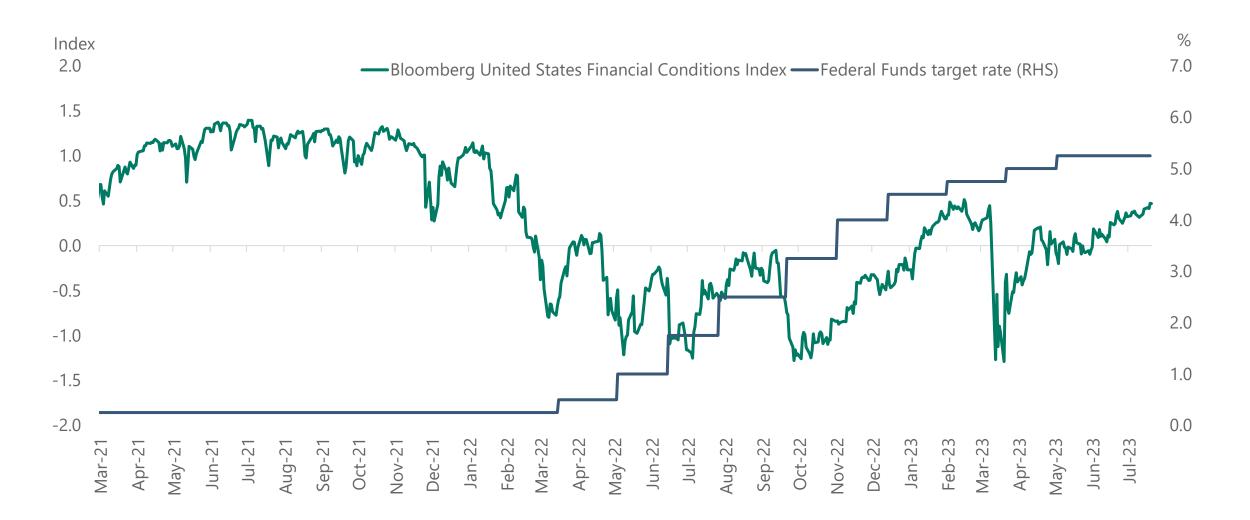
Average US retail gas prices down from \$5 to \$3.52 per gallon



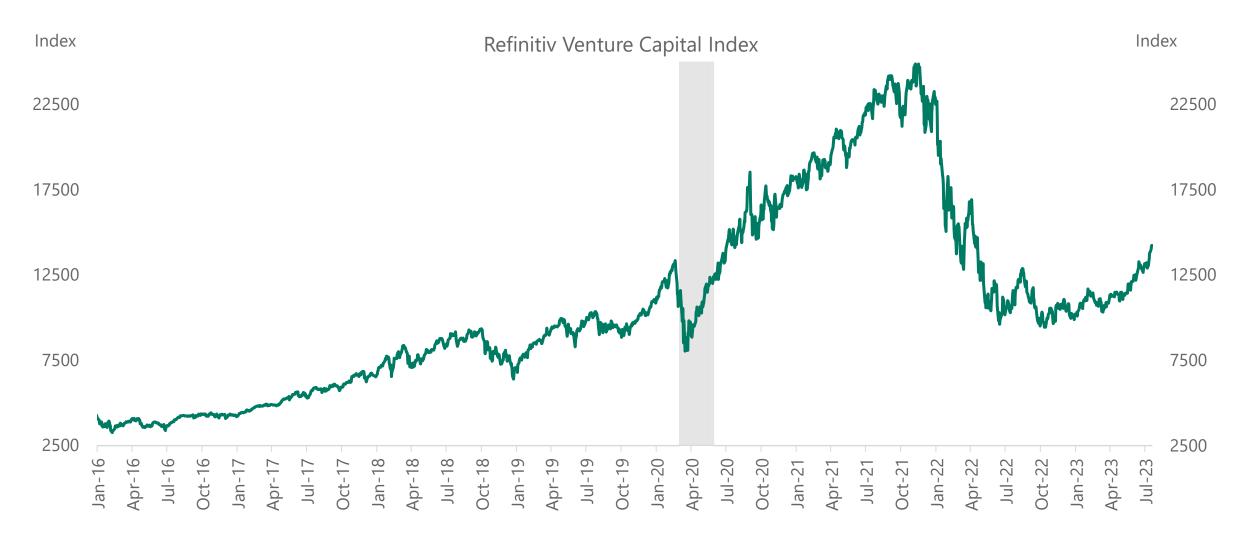
Financial conditions are easy, daily data



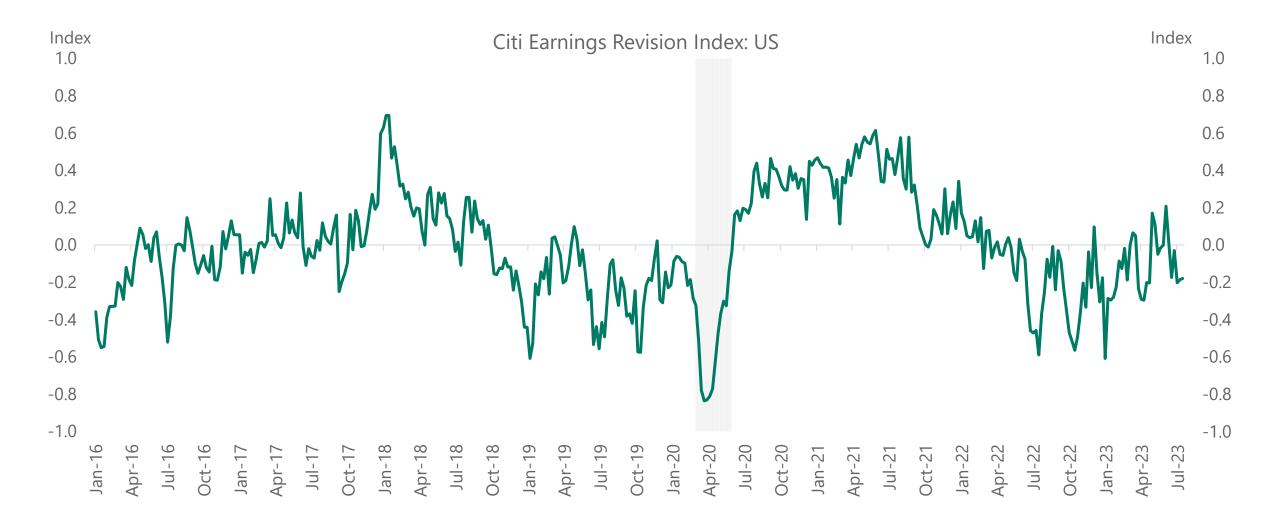
Financial conditions are now at the same levels as when the Fed started tightening



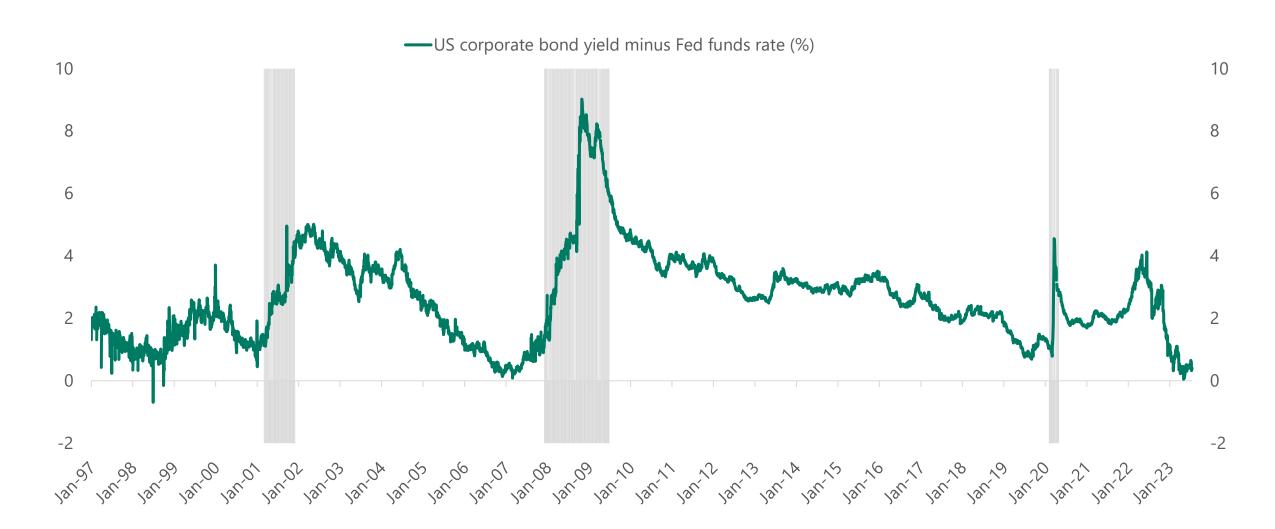
US venture capital valuations down 50% from the peak



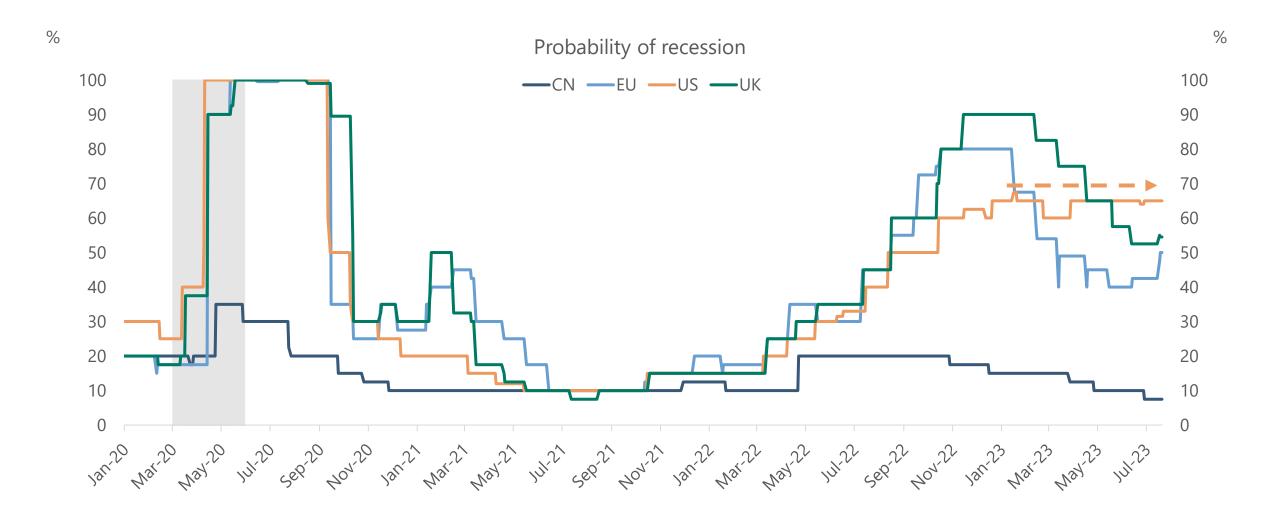
Corporate earnings revisions: Upgrades minus downgrades



Not much additional yield left in passive IG relative to the Fed funds rate



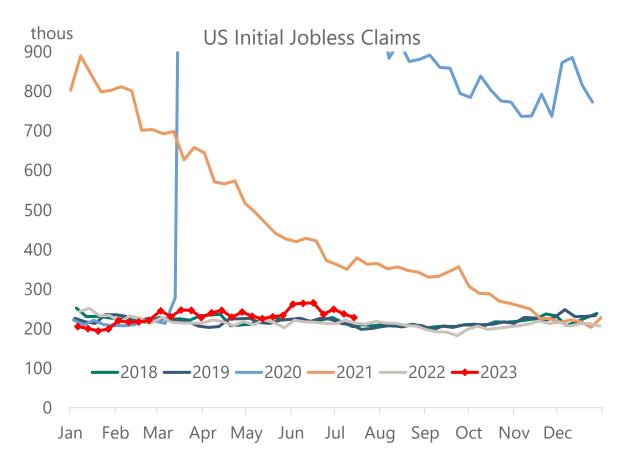
Consensus has lowered recession probability for Europe, UK, and China. But not the US.

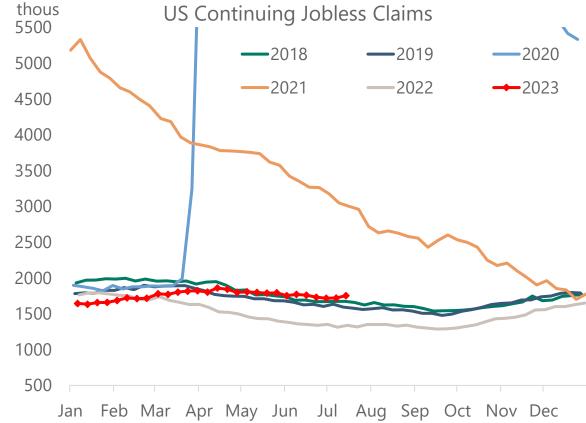


APOLLO

Weekly economic indicators

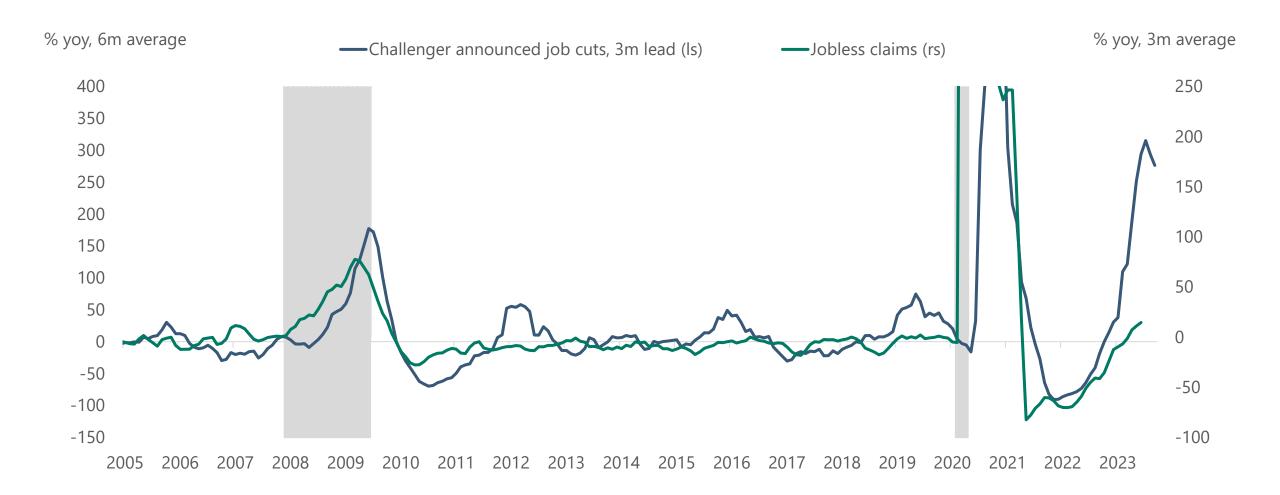
Continuing claims moved higher last week



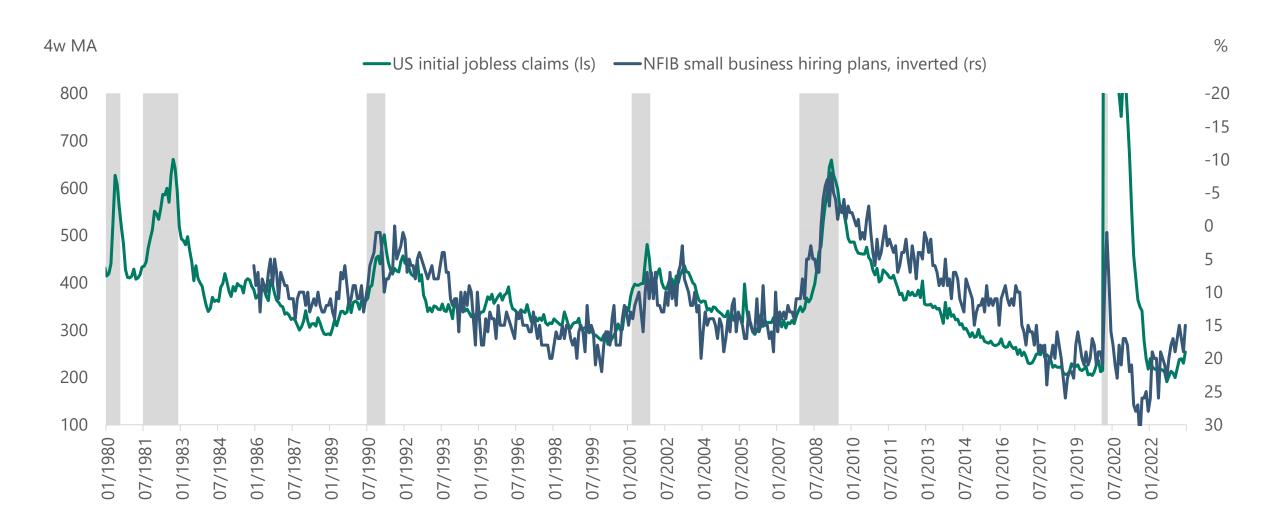


Source: Department of Labor, Bloomberg, Apollo Chief Economist

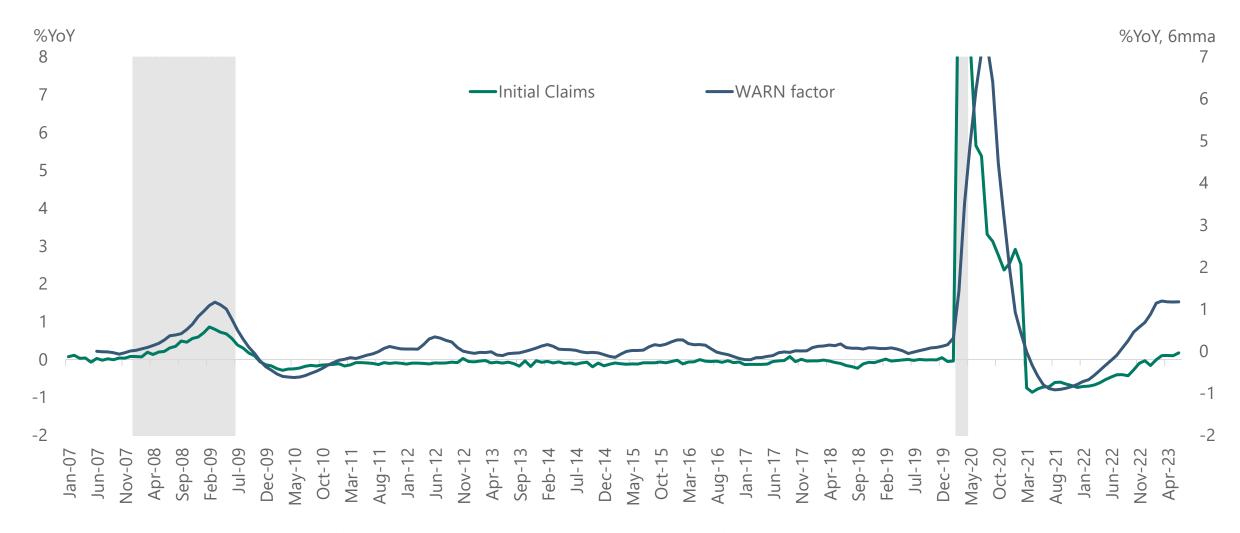
Job cuts announcements point to higher jobless claims



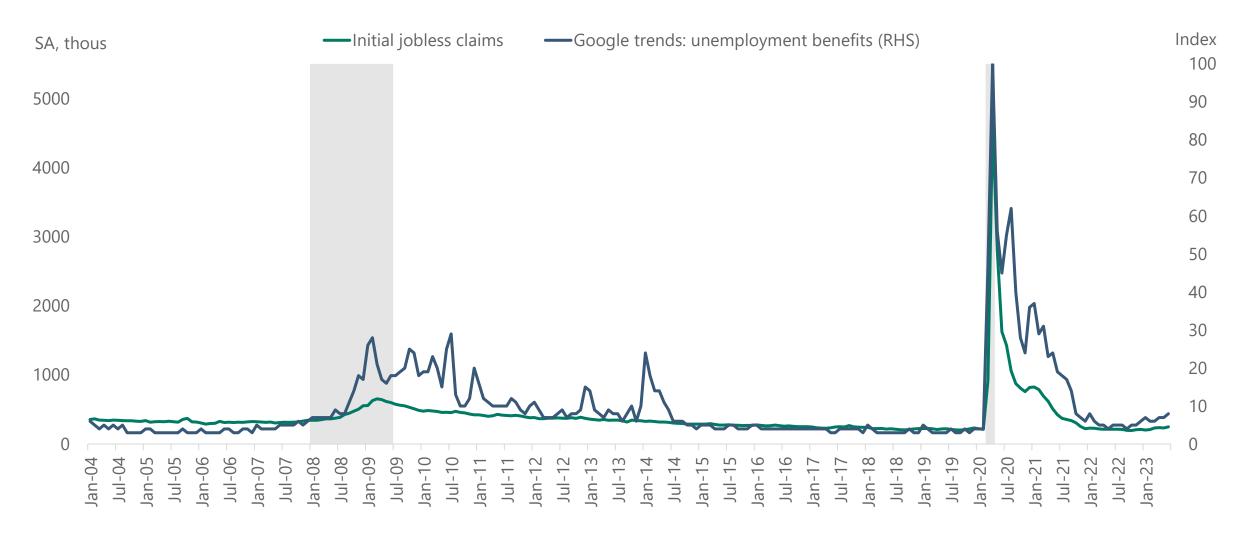
Small business hiring plans point to higher jobless claims



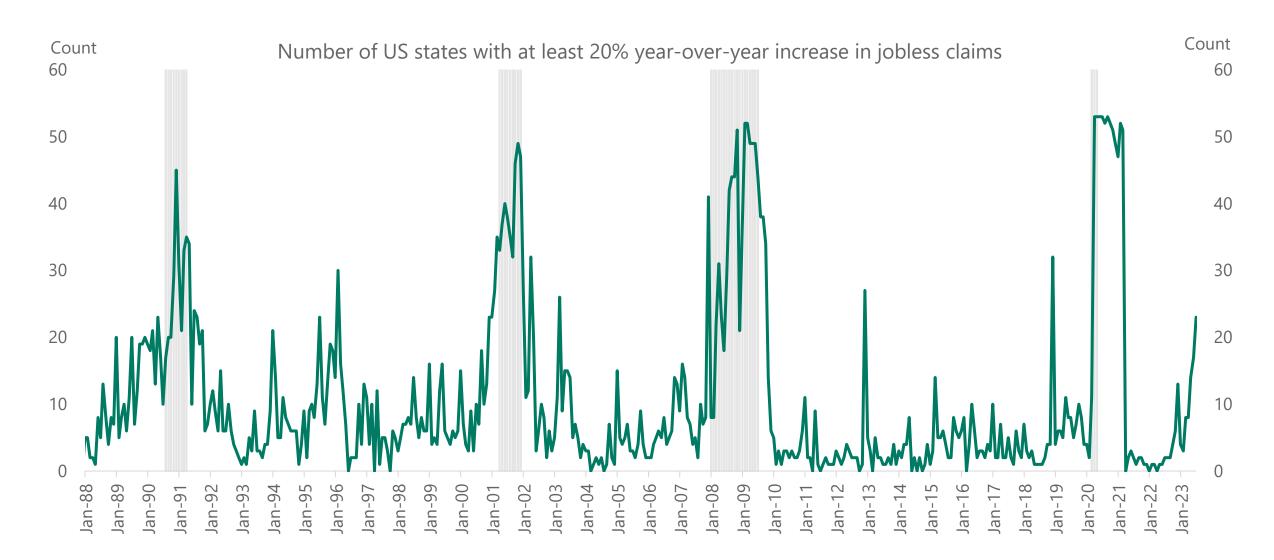
WARN notices point to higher jobless claims



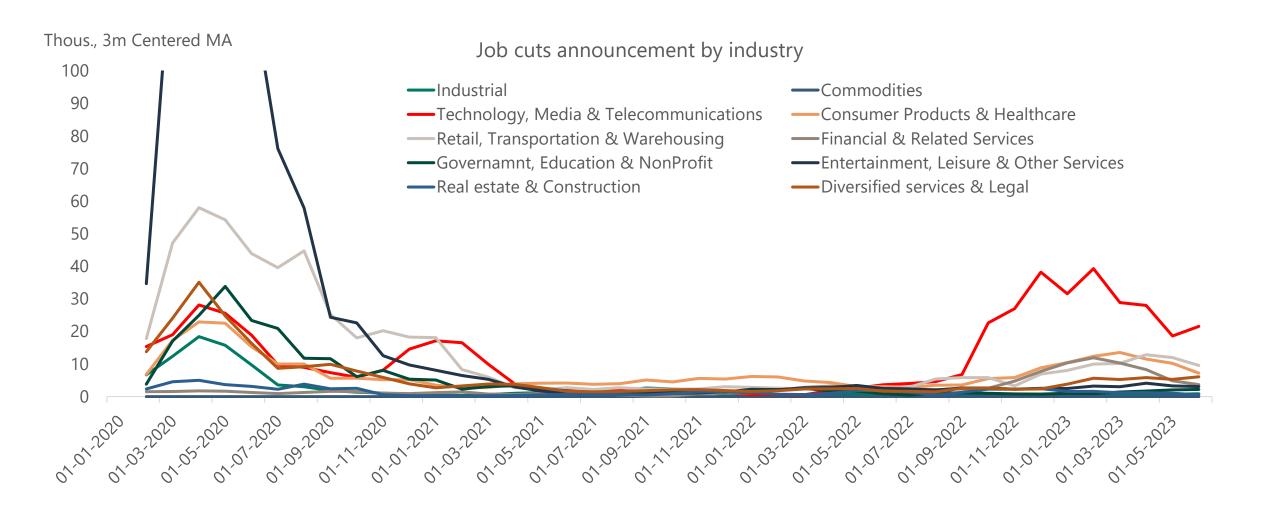
Google searches point to higher jobless claims



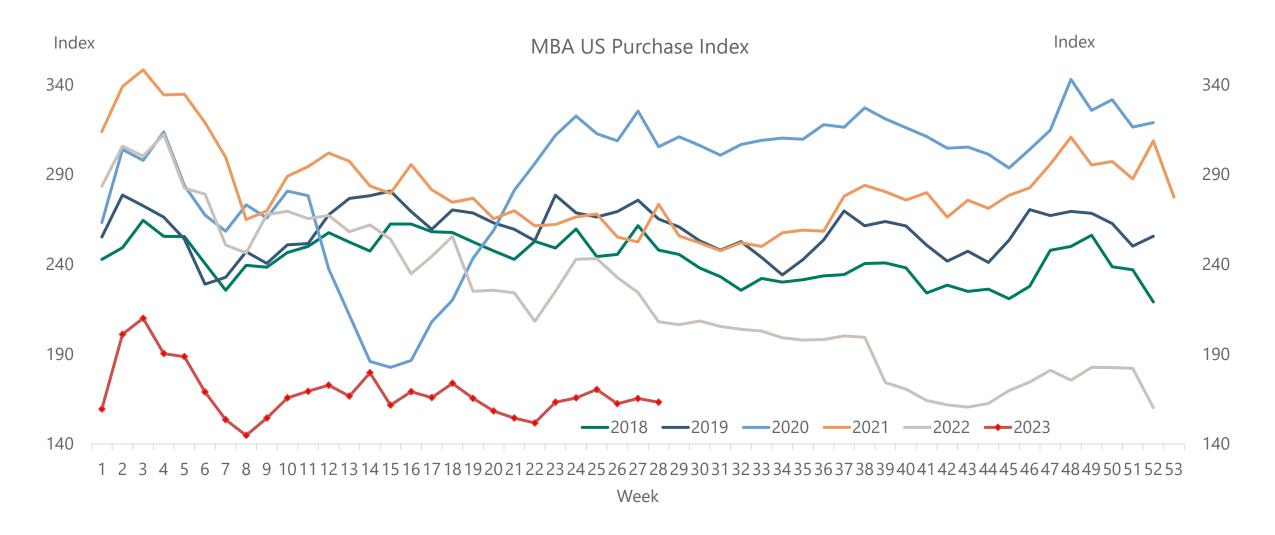
Number of states with at least 20% increase in jobless claims



Job cut announcements across industries

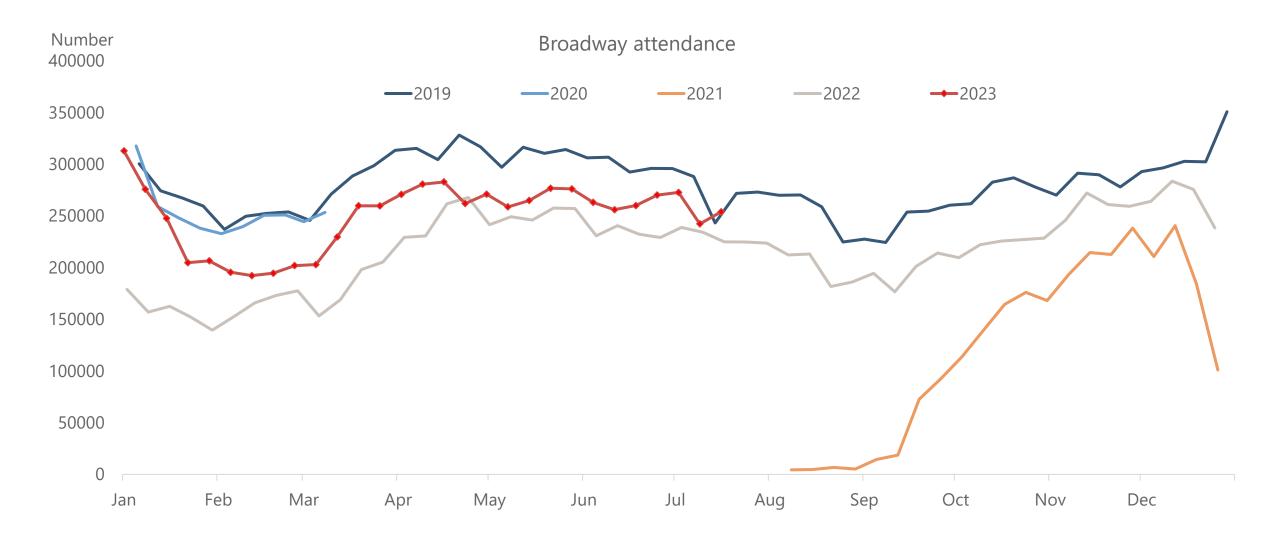


Weekly mortgage purchase applications soft



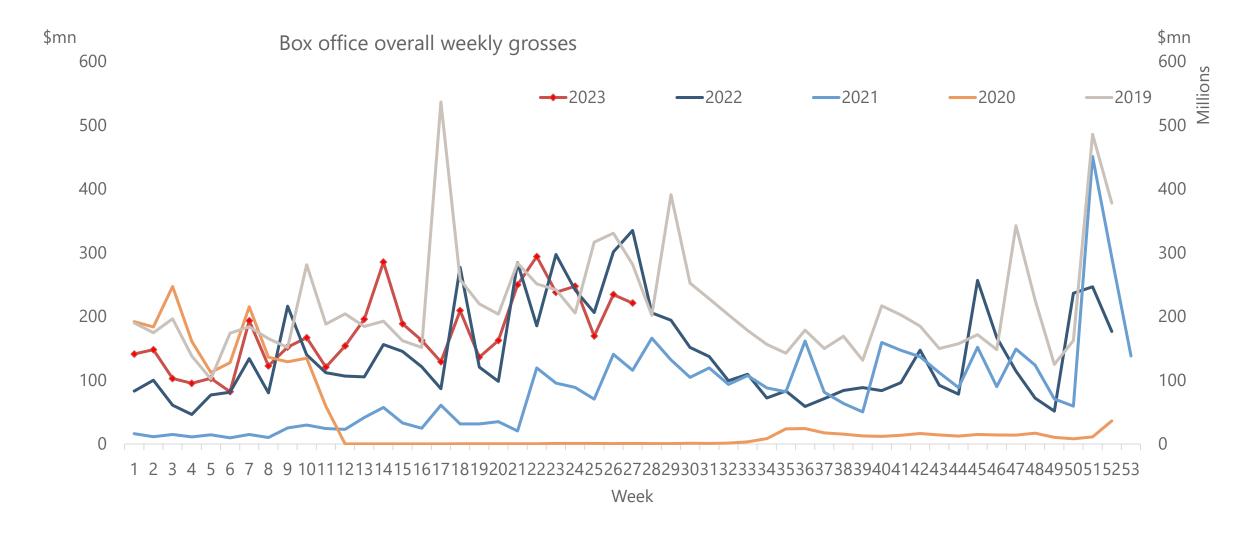
26

The number of people going to Broadway shows above 2022 levels



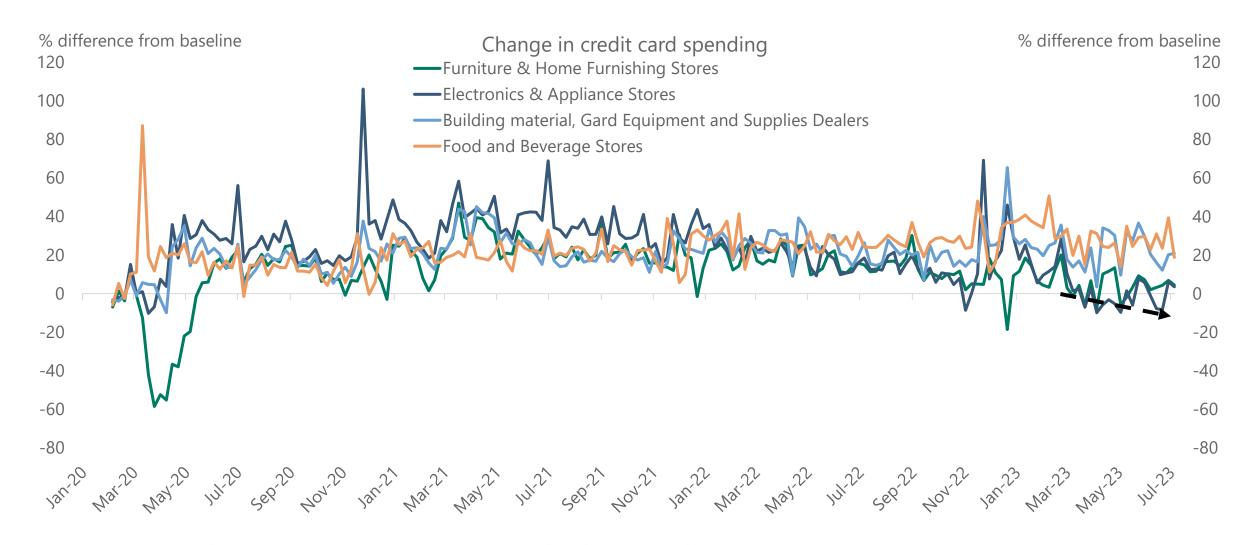
Source: Internet Broadway Database, Apollo Chief Economist

Movie theatre visits above pre-pandemic levels

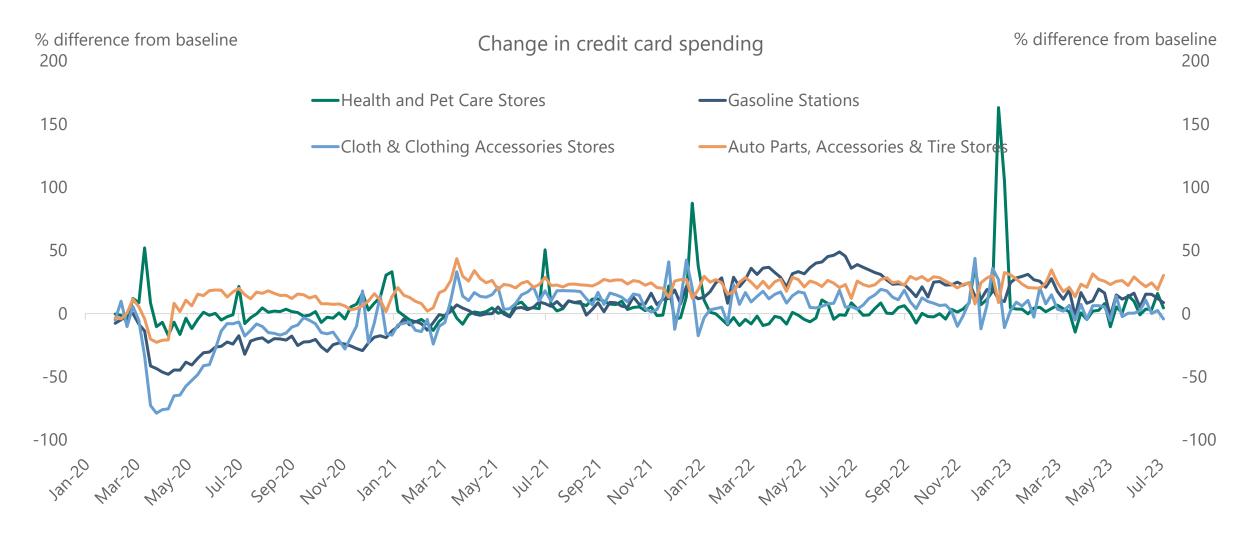


Source: Boxofficemojo.com, Apollo Chief Economist

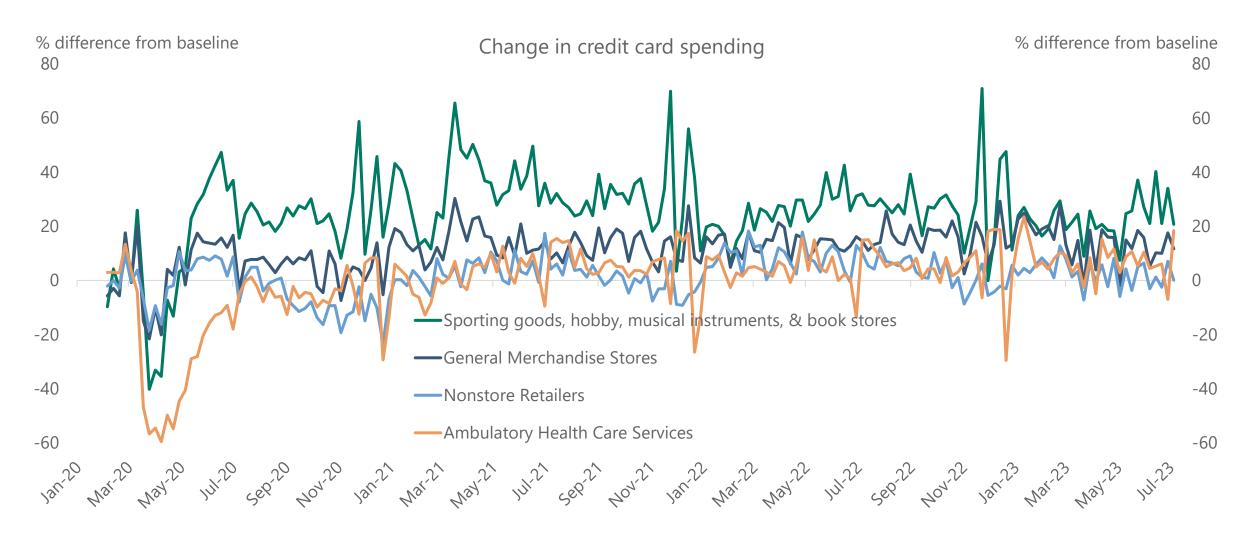
Consumer spending on Furniture and Electronics slowing



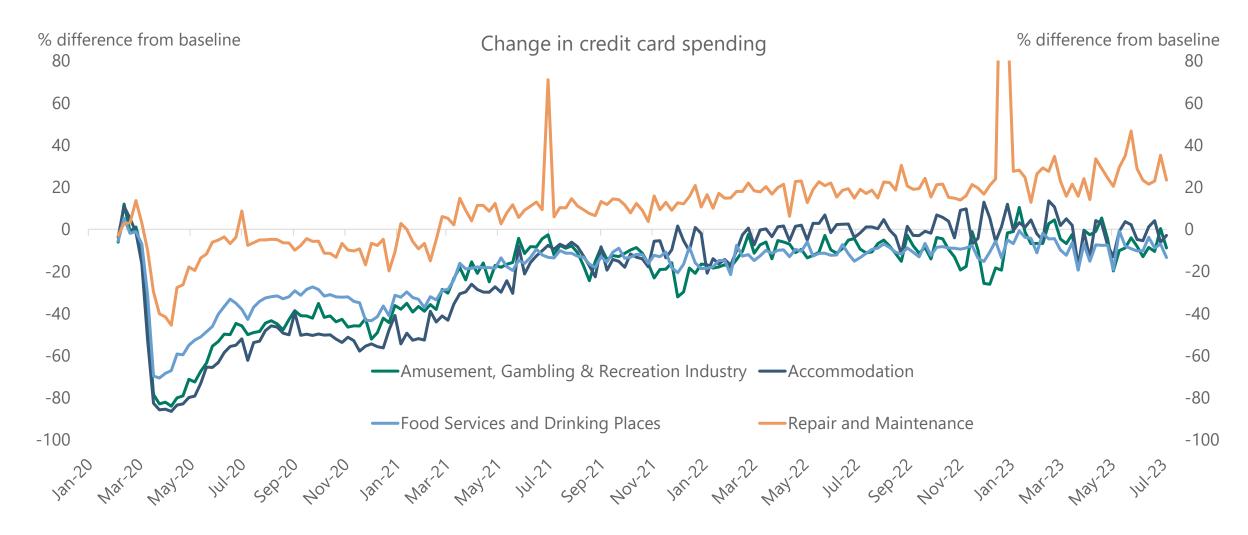
US consumer credit card spending



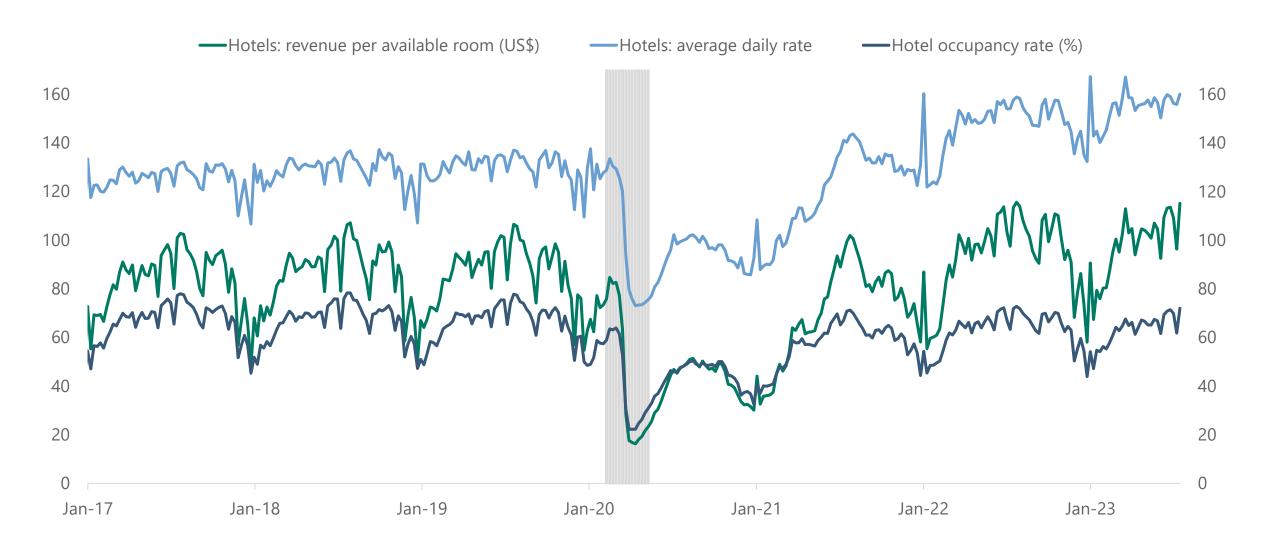
US consumer credit card spending



US consumer credit card spending

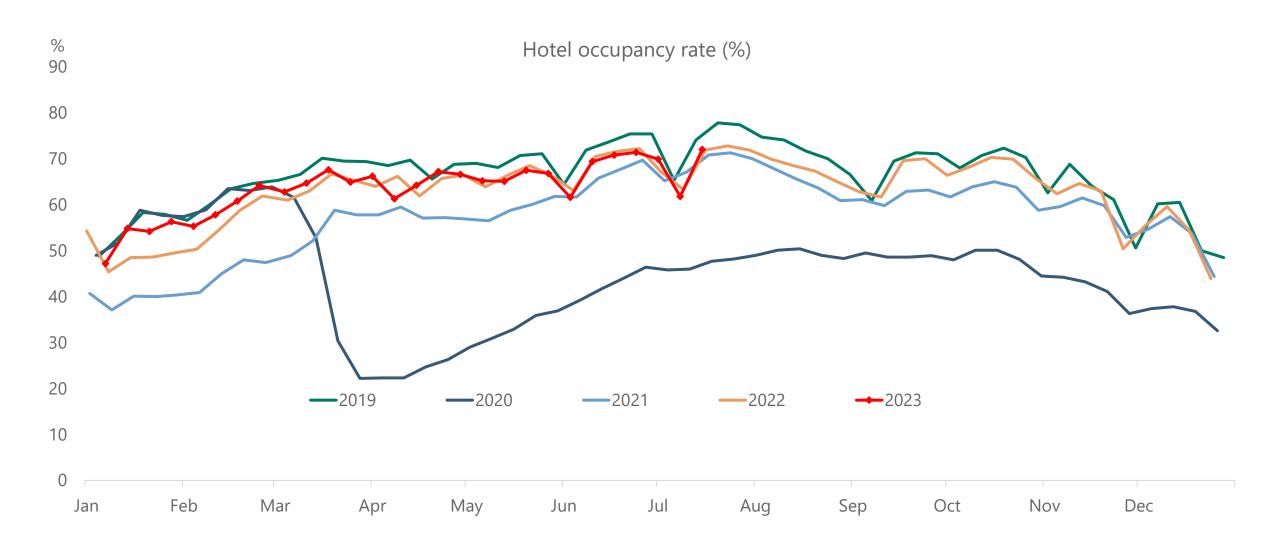


Weekly data for hotel demand still solid

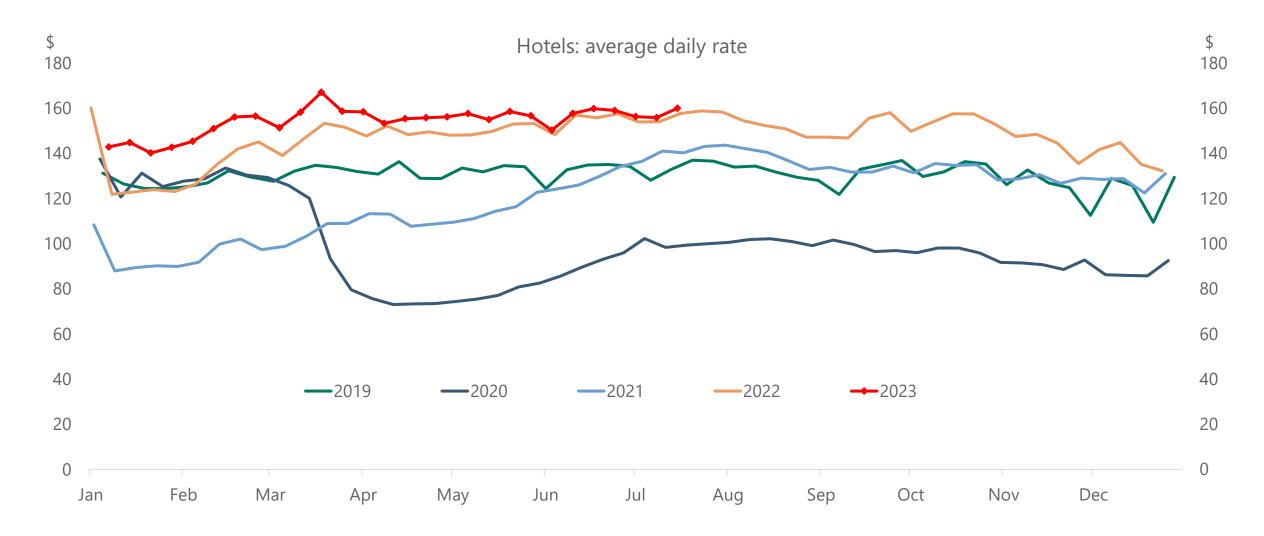


33

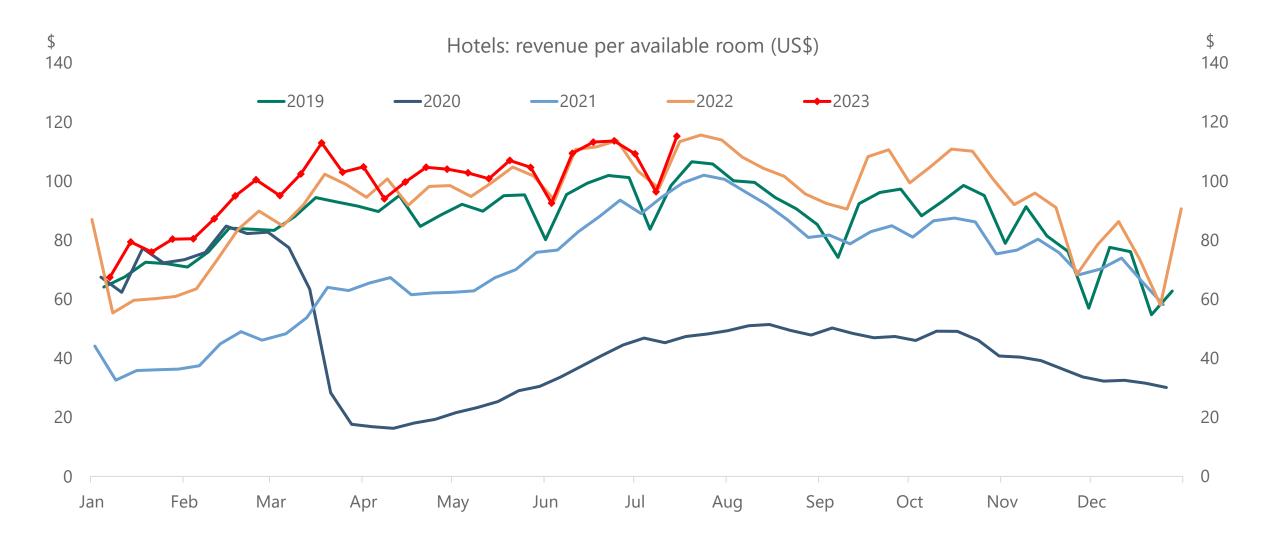
Weekly data for hotel demand



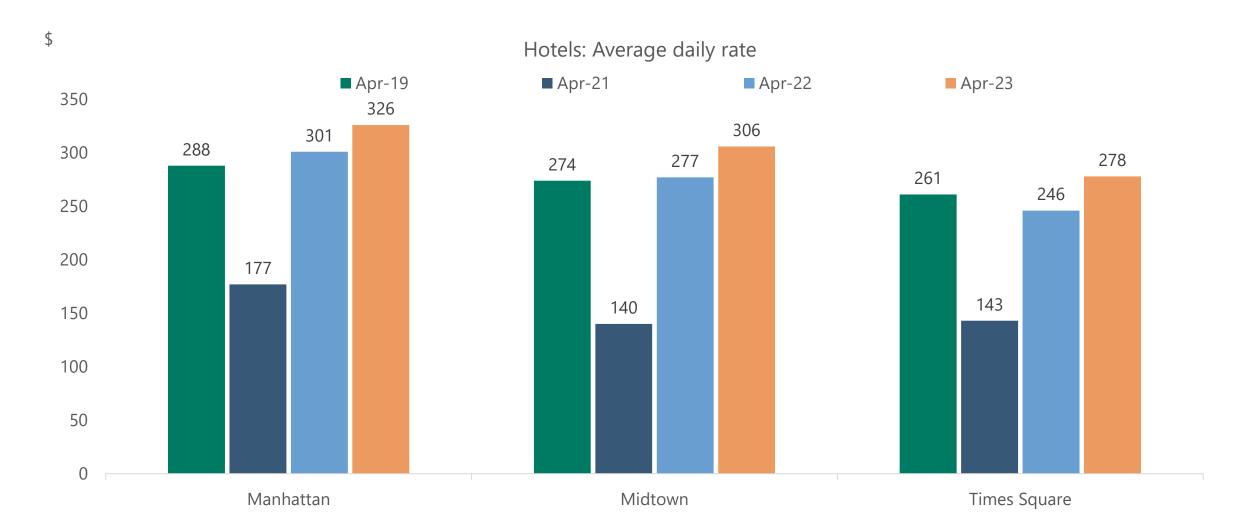
Weekly data for hotel demand



Weekly data for hotel demand

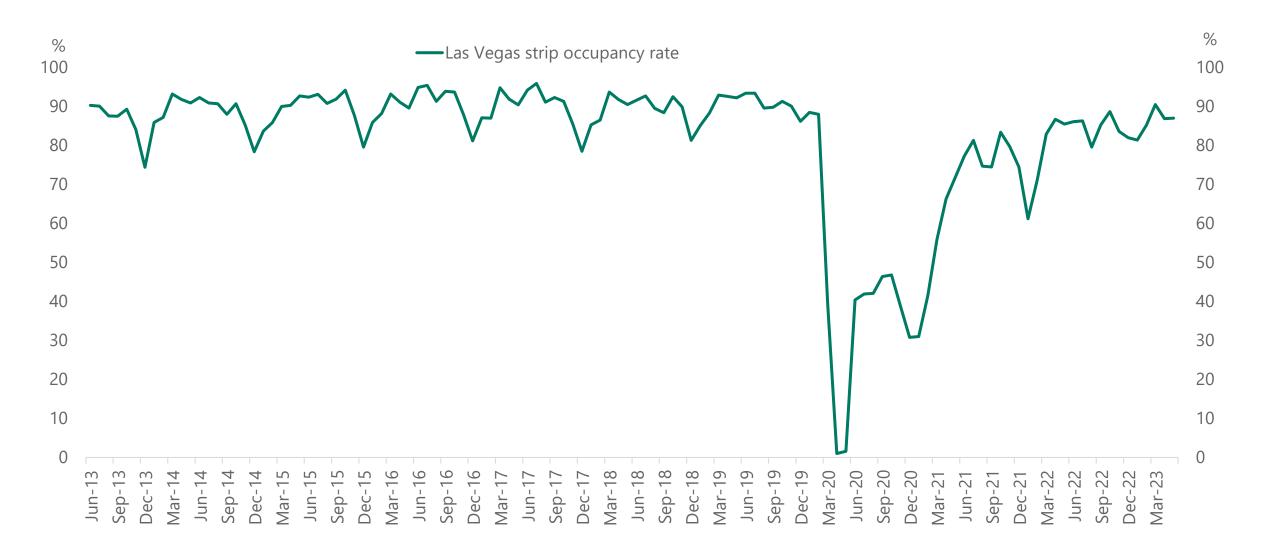


Hotel prices are above pre-pandemic levels



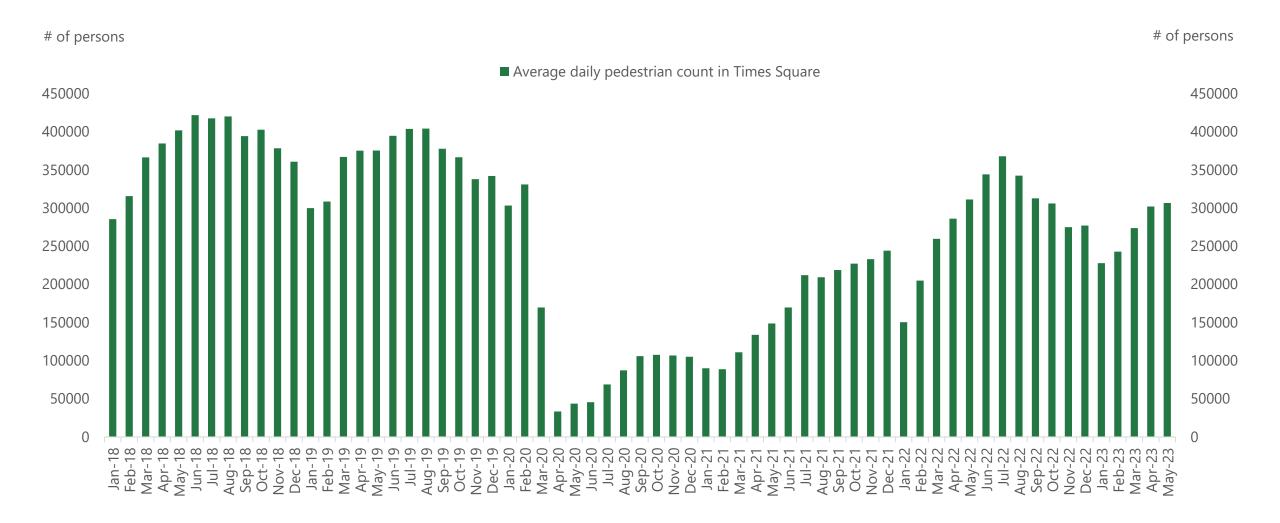
Source: Timessquarenyc.org, Apollo Chief Economist

Las Vegas occupancy rate back at pre-pandemic levels



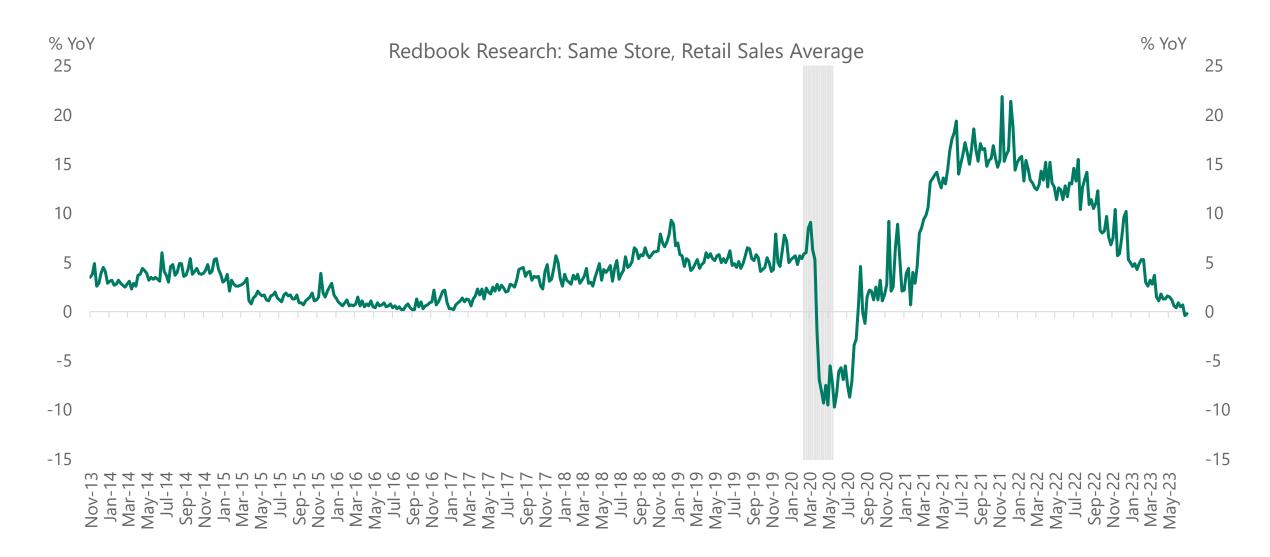
Source: Bloomberg, Apollo Chief Economist

Average daily pedestrian count in Times Square back at pre-pandemic levels



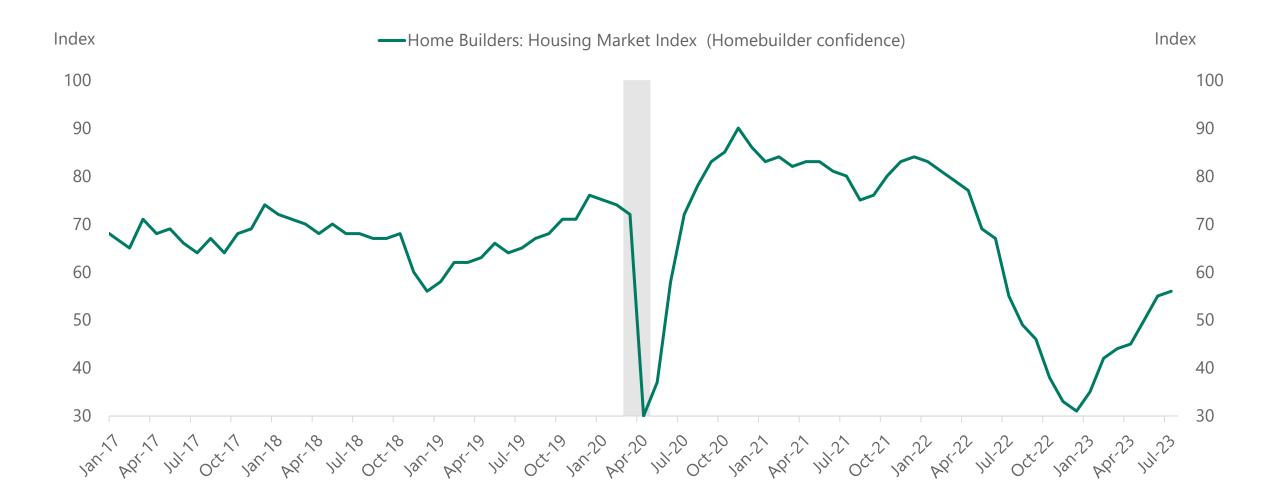
Source: Timessquare.com, Apollo Chief Economist

Weekly data for same-store retail sales slowing down



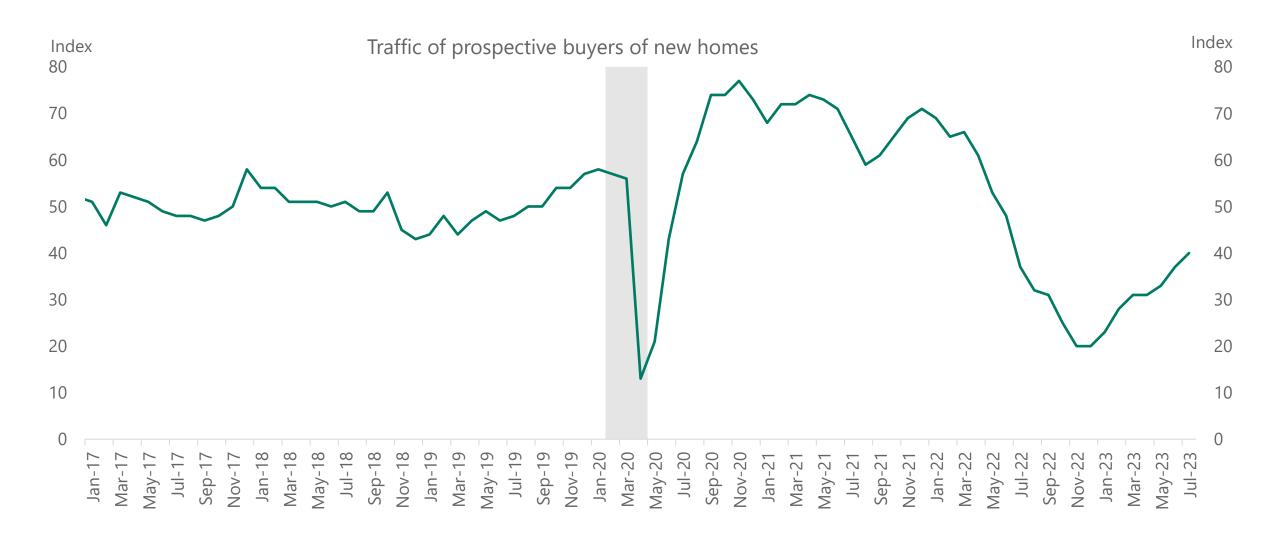
Source: Redbook, Haver Analytics, Apollo Chief Economist

Homebuilder confidence trending higher

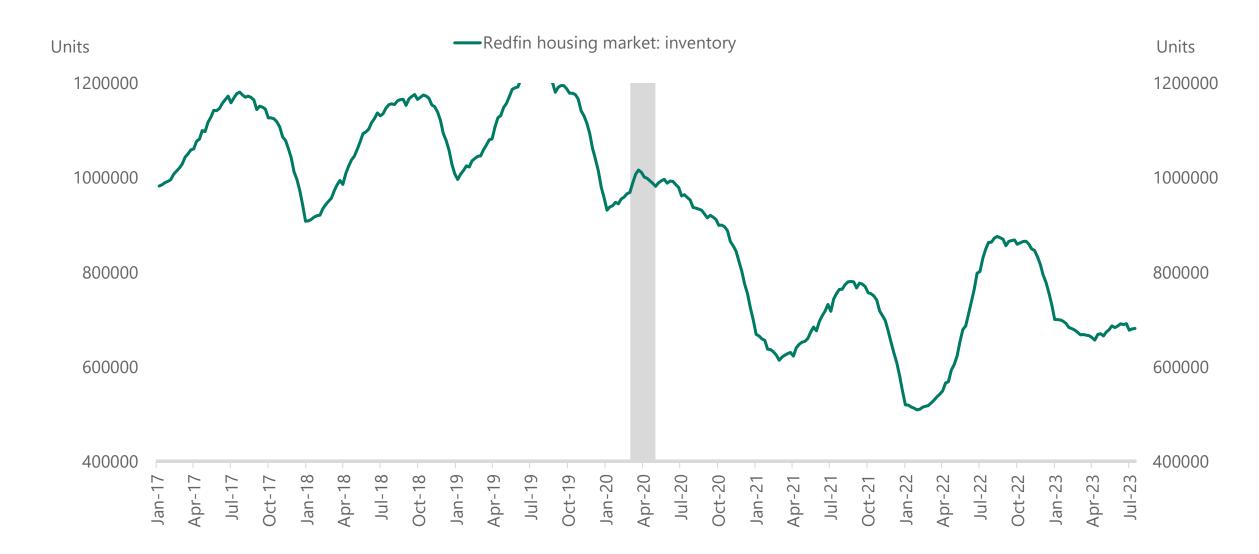


Source: NAR, Haver Analytics, Apollo Chief Economist

Traffic of prospective homebuyers starting to improve

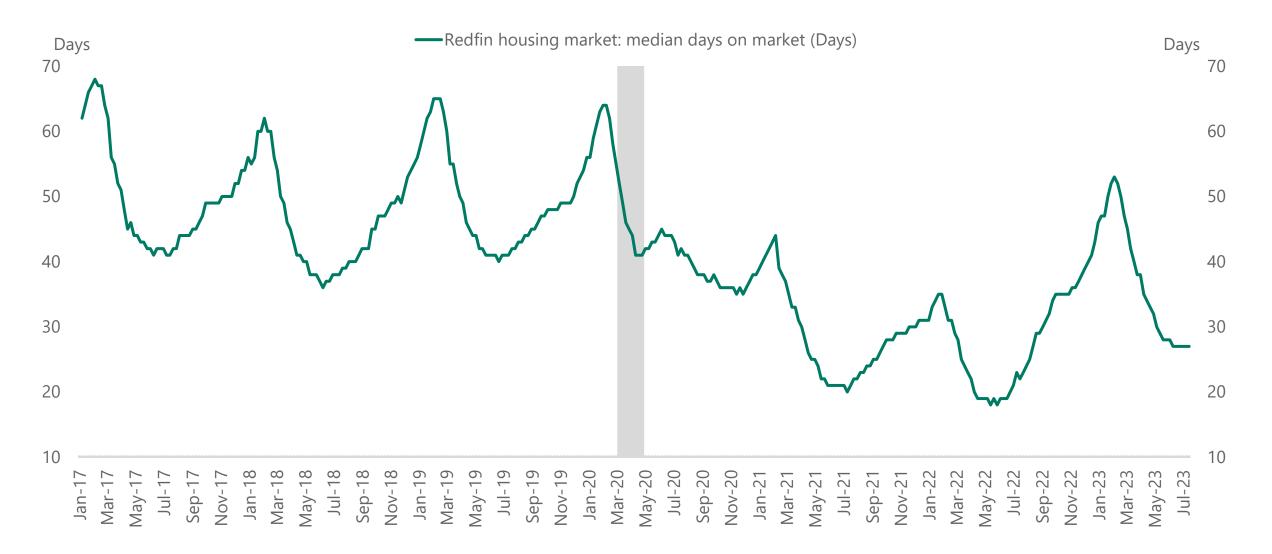


Housing inventory is low



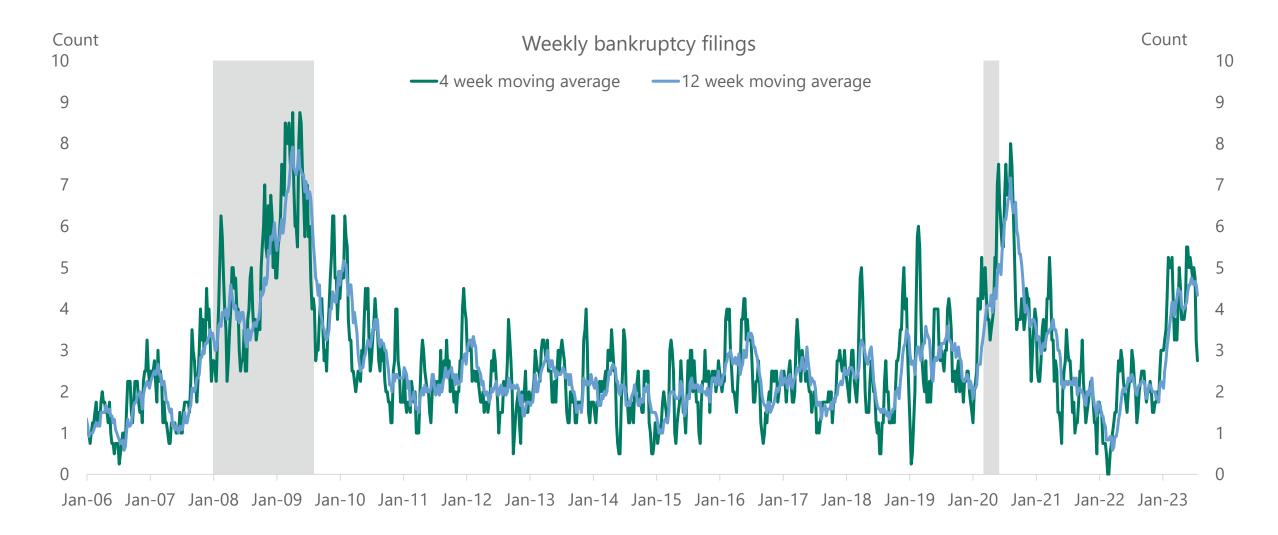
Source: Redfin, Haver, Apollo Chief Economist

Starting to see a decline in the number of days houses are for sale

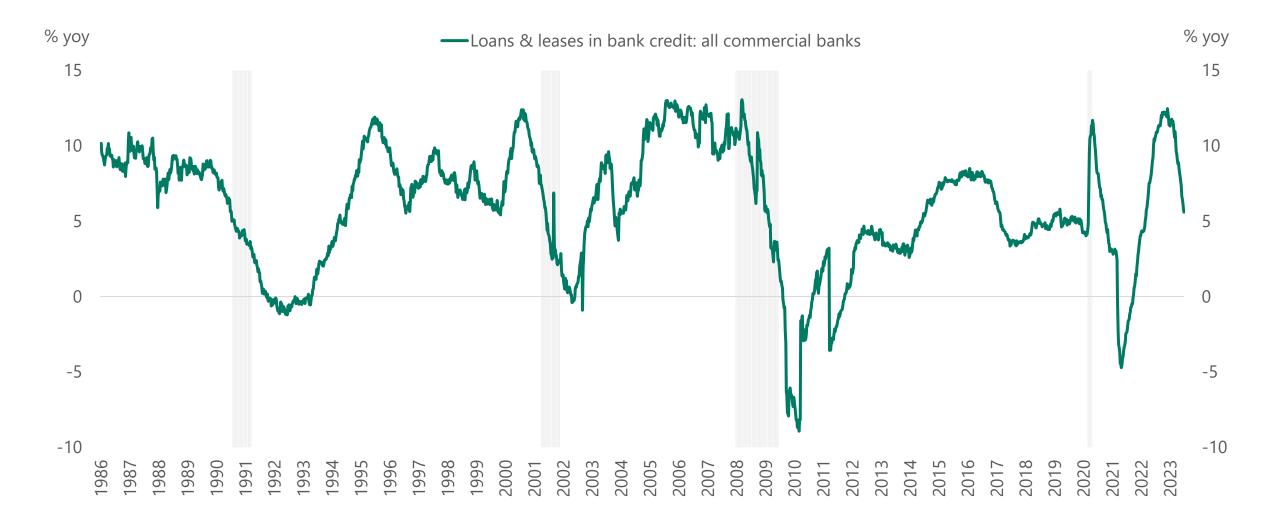


Source: Redfin, Haver, Apollo Chief Economist

Weekly bankruptcy filings

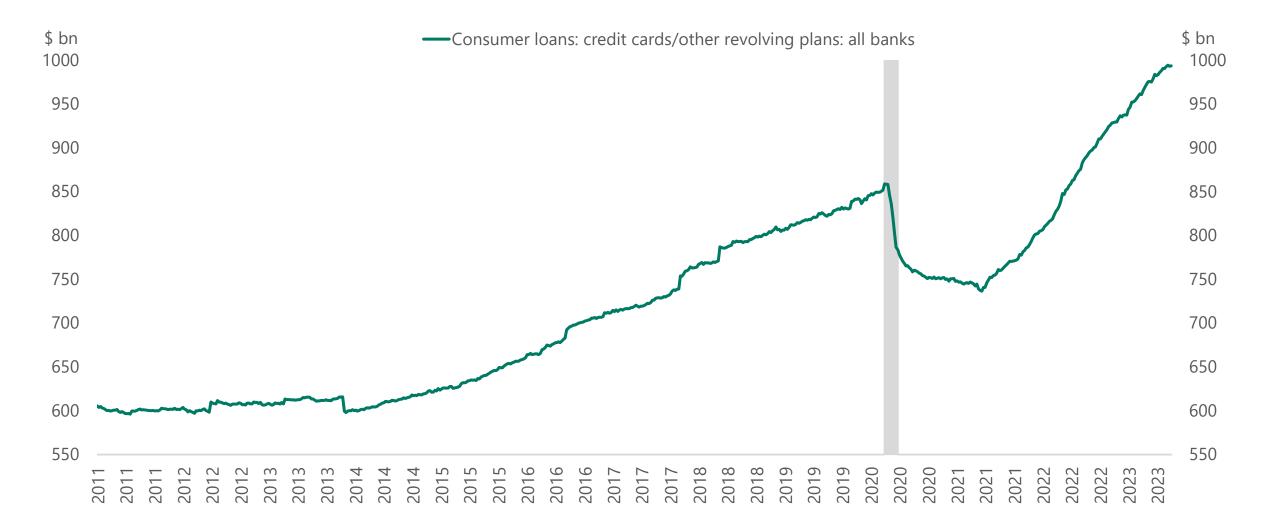


Banks' weekly loan growth rolling over



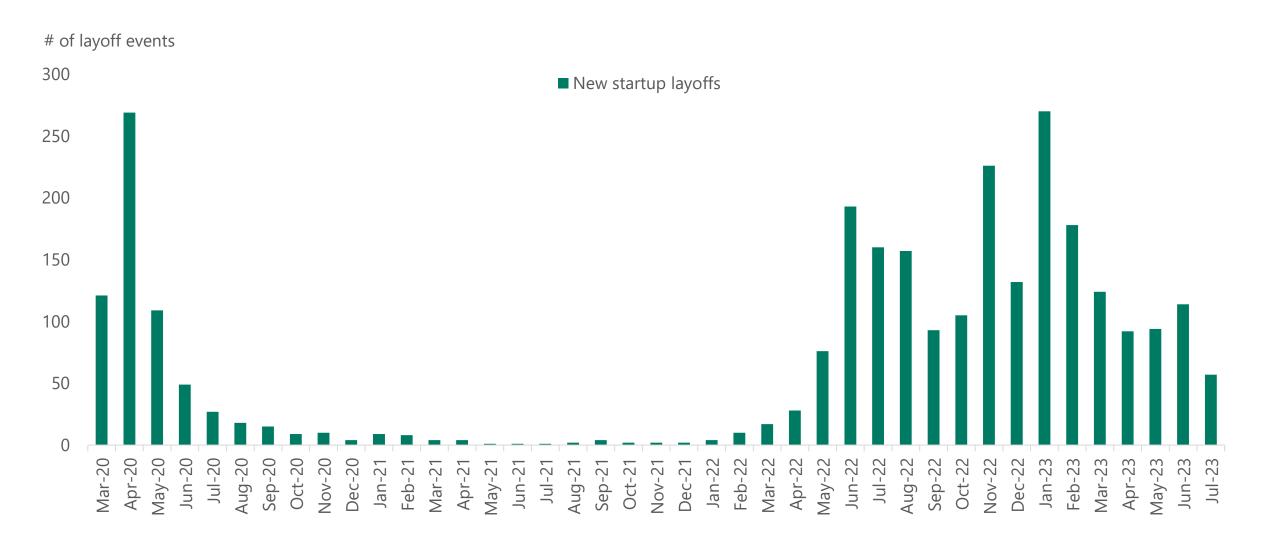
Source: FRB, Haver, Apollo Chief Economist 45

Weekly credit card debt is rising as the economy re-opens

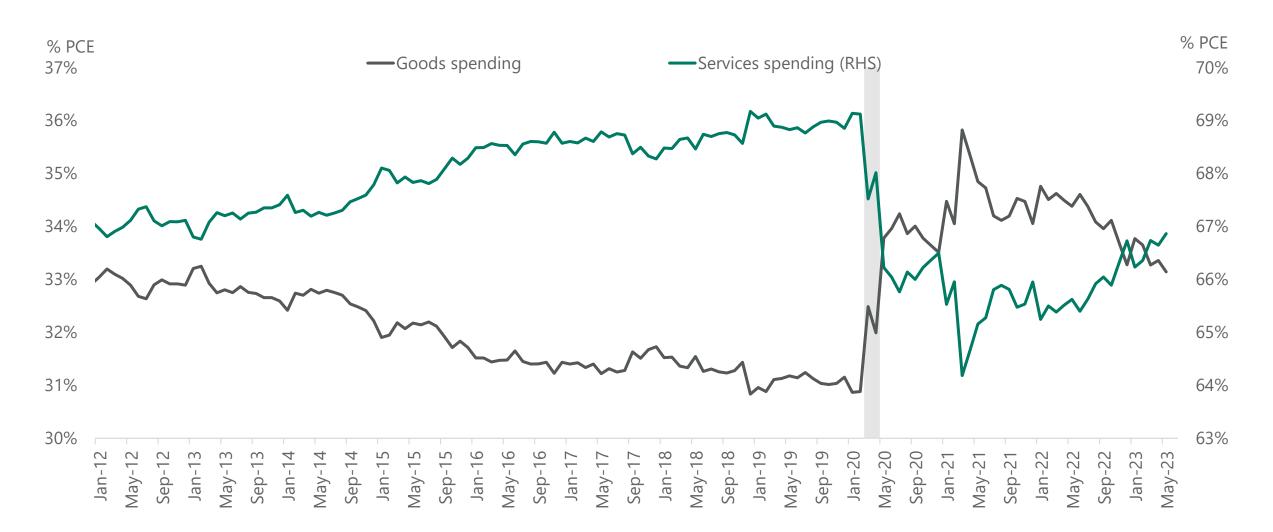


Source: FRB, Haver, Apollo Chief Economist

Layoffs at tech startups

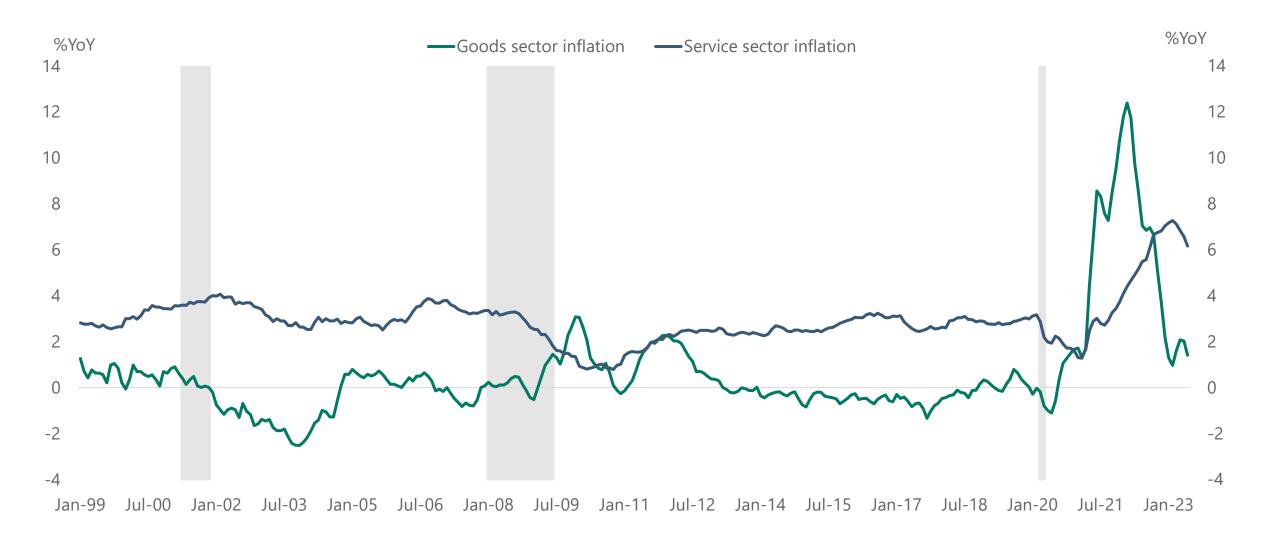


Shift from goods to services in US consumer spending



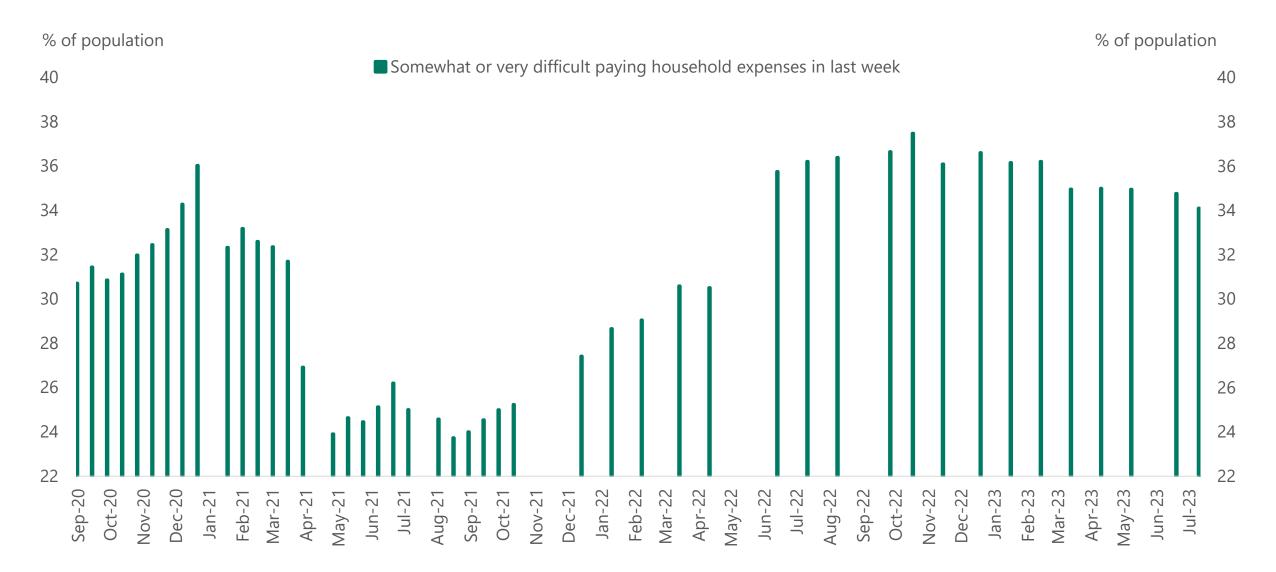
Source: BEA, Haver Analytics, Apollo Chief Economist

Goods sector inflation slowing. Service sector inflation rising

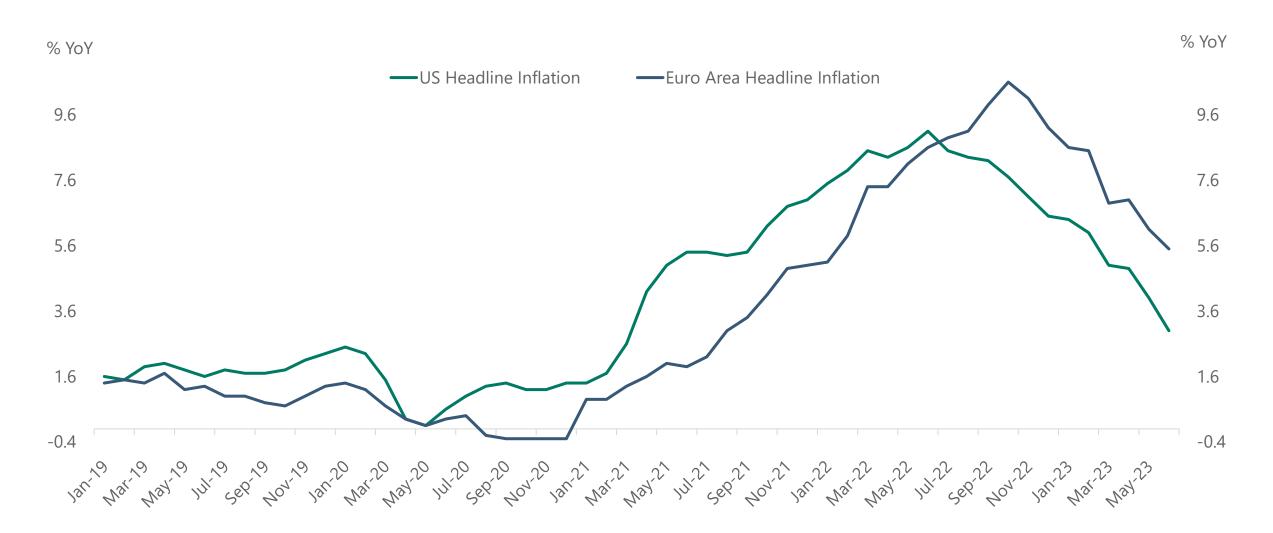


Source: BLS, Haver Analytics, Apollo Chief Economist

Share of households having difficulties paying expenses

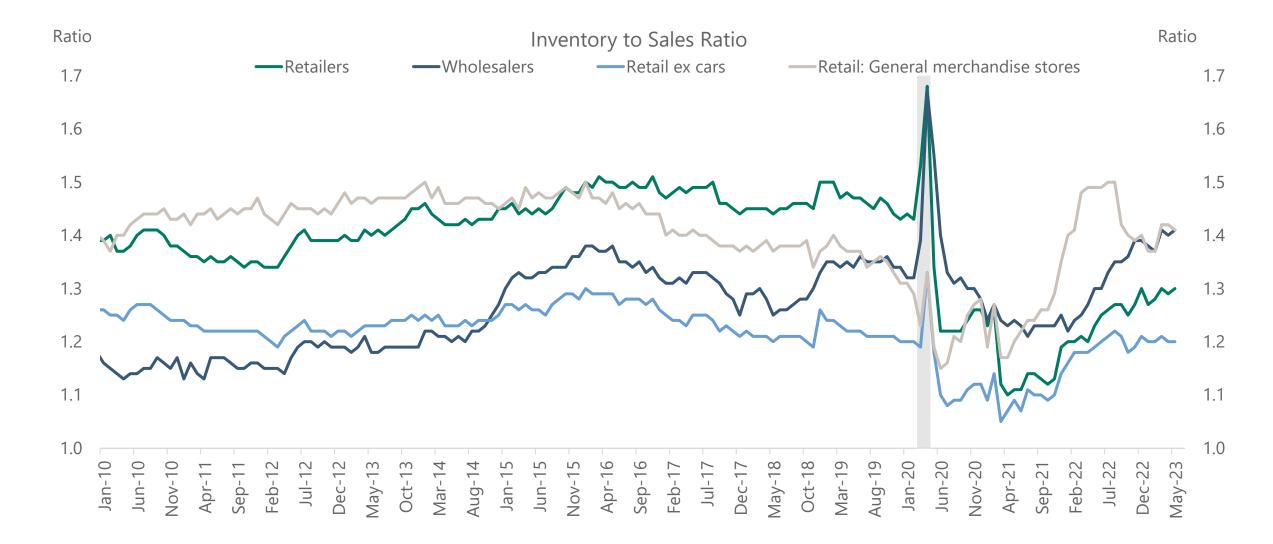


Inflation has peaked both in the US and Europe



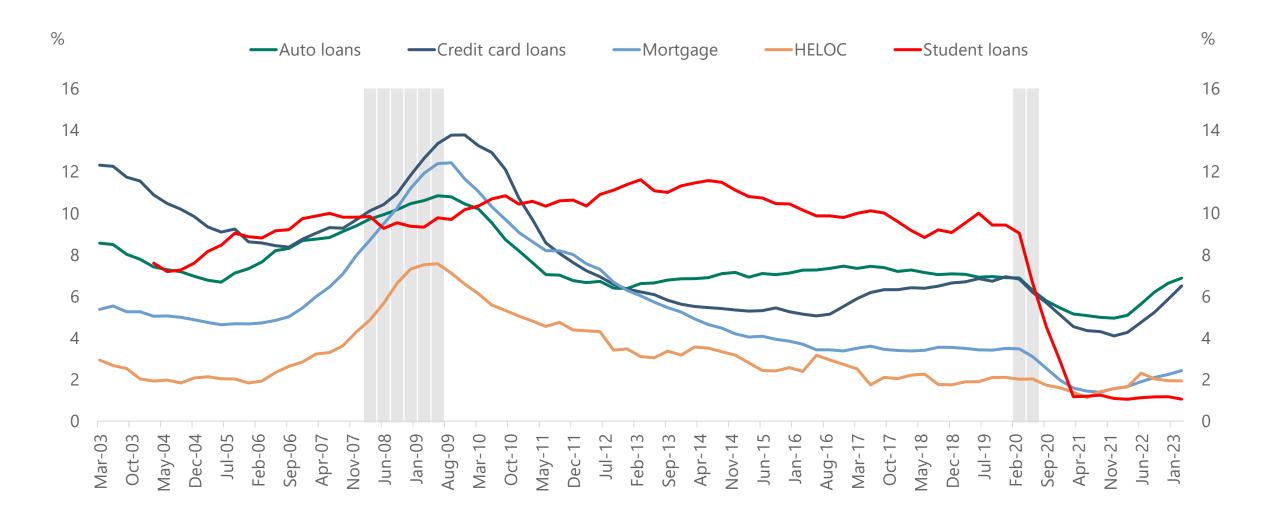
Source: Bloomberg, Apollo Chief Economist

Inventory to sales ratio



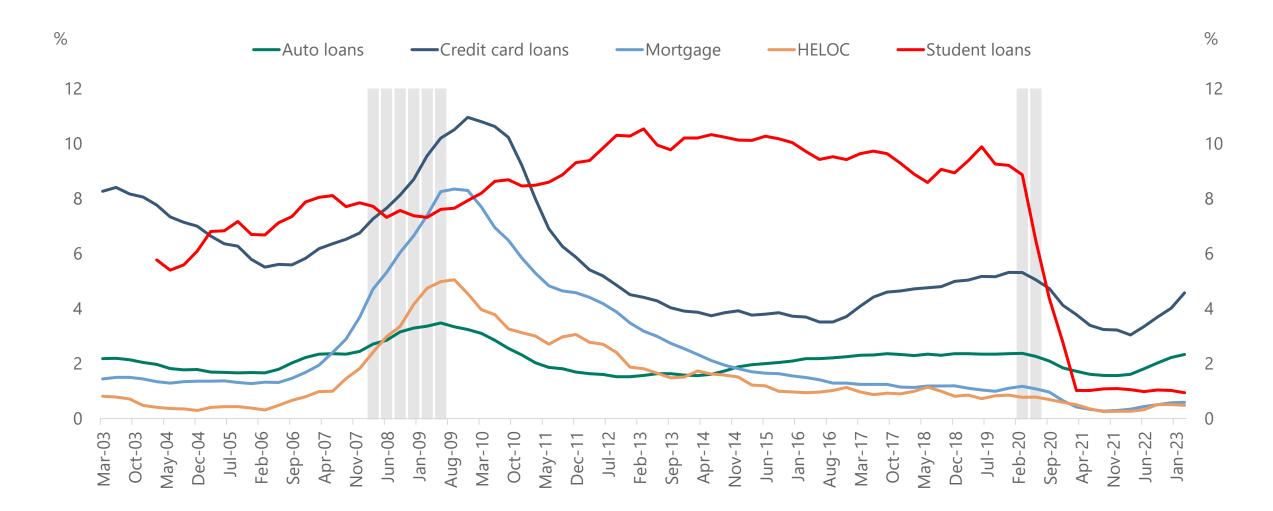
Source: Census, Haver Analytics, Apollo Chief Economist

New delinquent (+30 days) balances by loan type, % of current balance



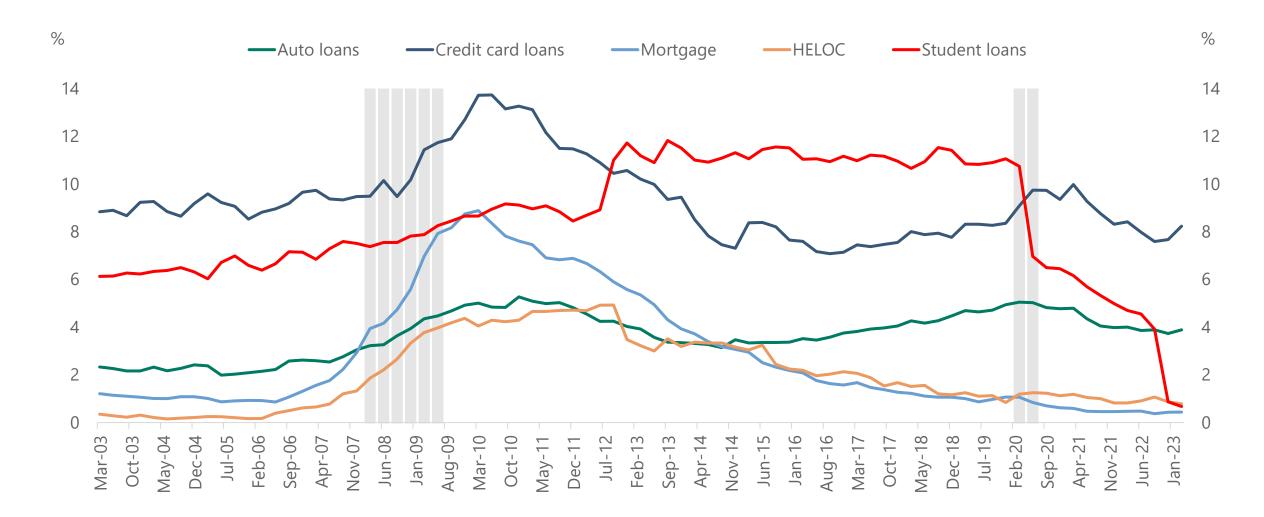
Source: FRBNY, Haver, Apollo Chief Economist

New seriously delinquent (+90 days) balances by loan type, % of current balance



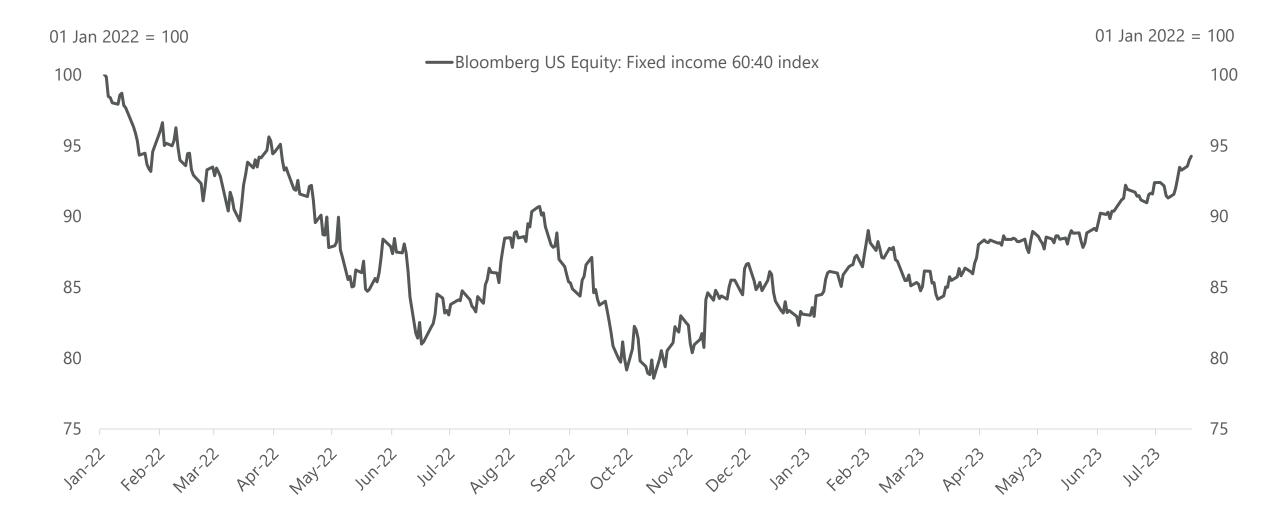
Source: FRBNY, Haver, Apollo Chief Economist

Percent of balance +90 days delinquent by loan type, in %

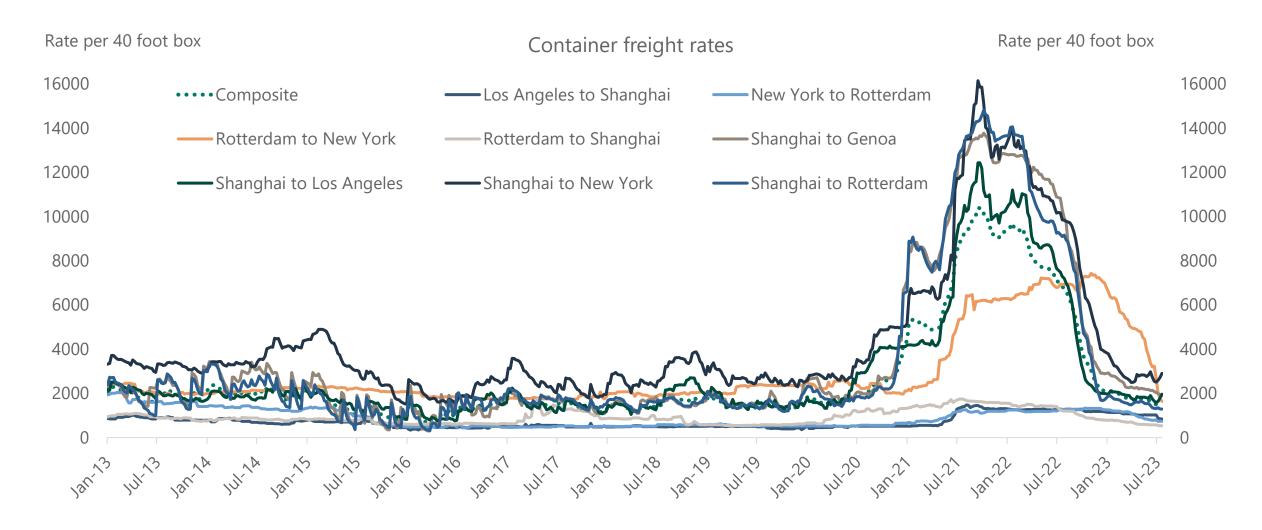


Source: FRBNY, Haver, Apollo Chief Economist

60/40 portfolio down 6%

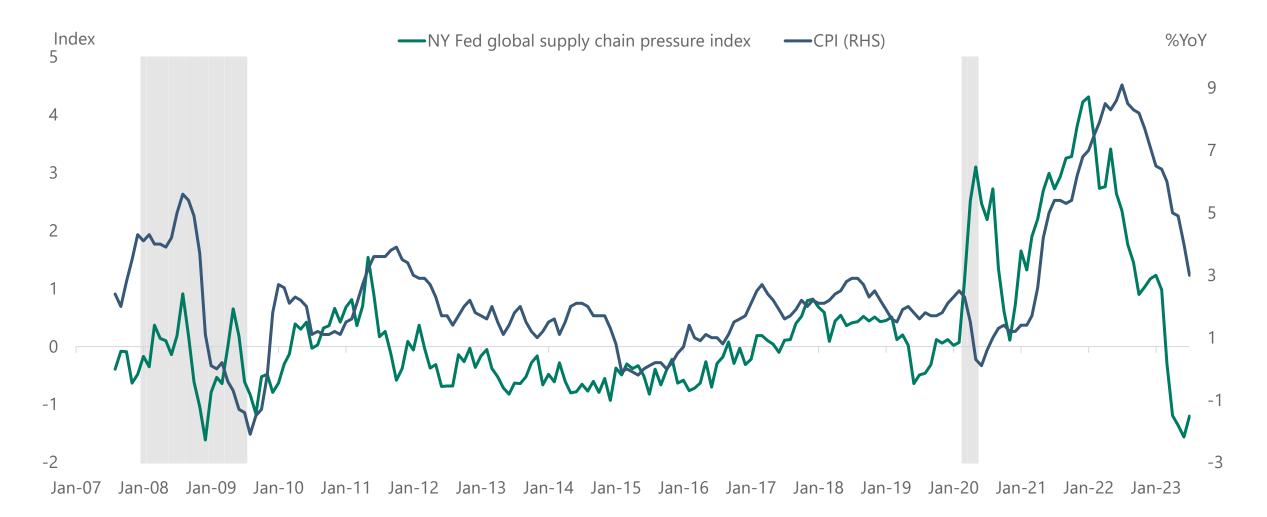


Container freight rates back at pre-pandemic levels

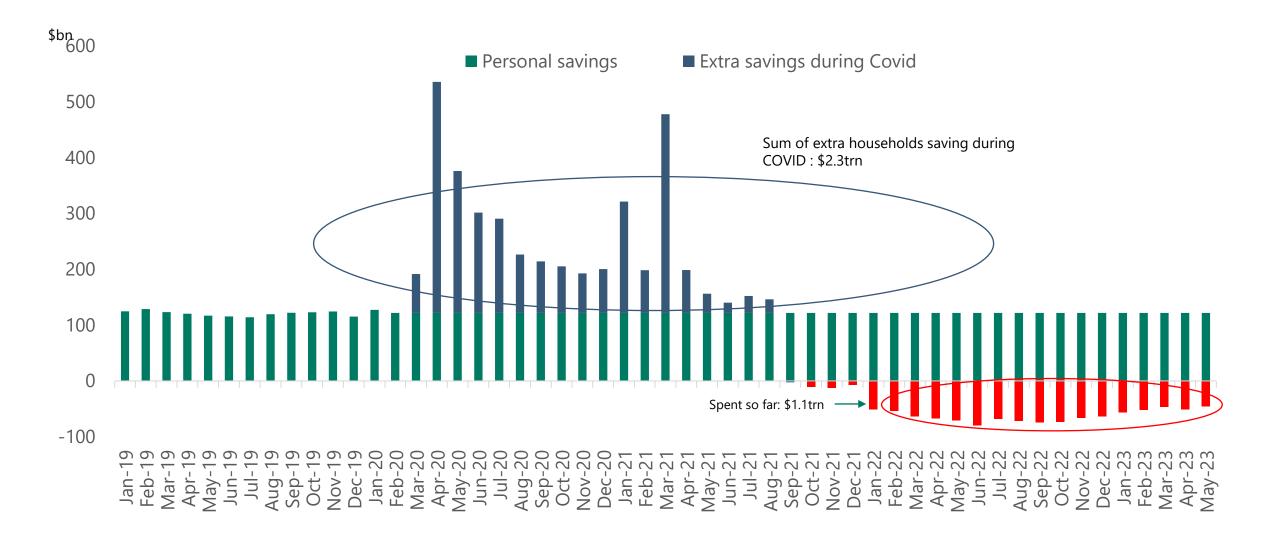


Source: WCI, Bloomberg, Apollo Chief Economist 57

Supply chain improvements putting downward pressure on goods inflation

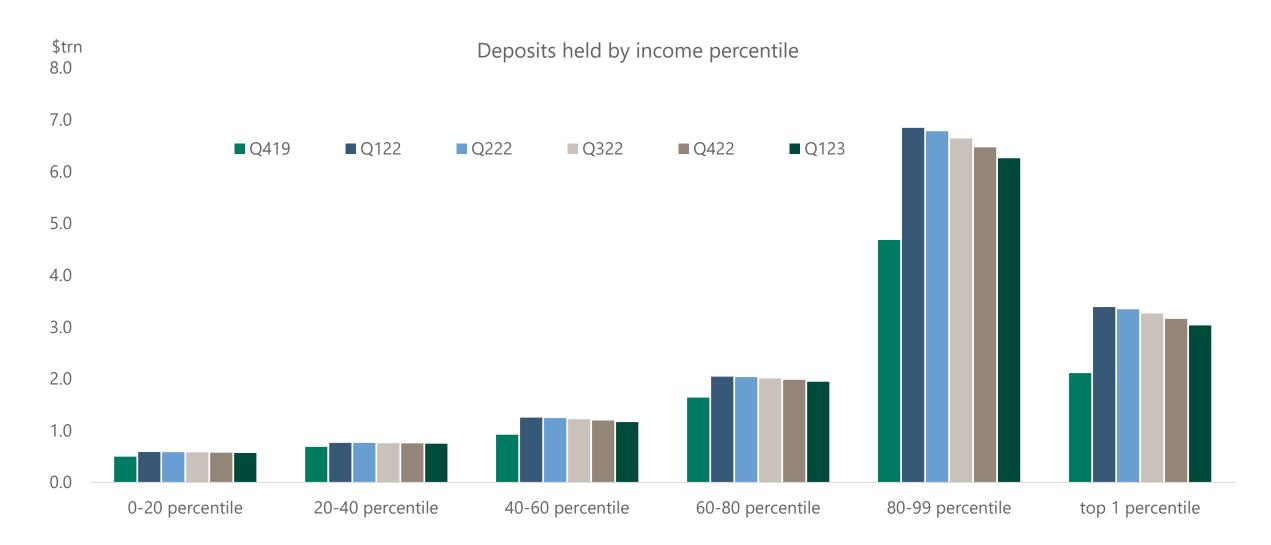


Households are running down their excess savings, but still about \$1.2trn left



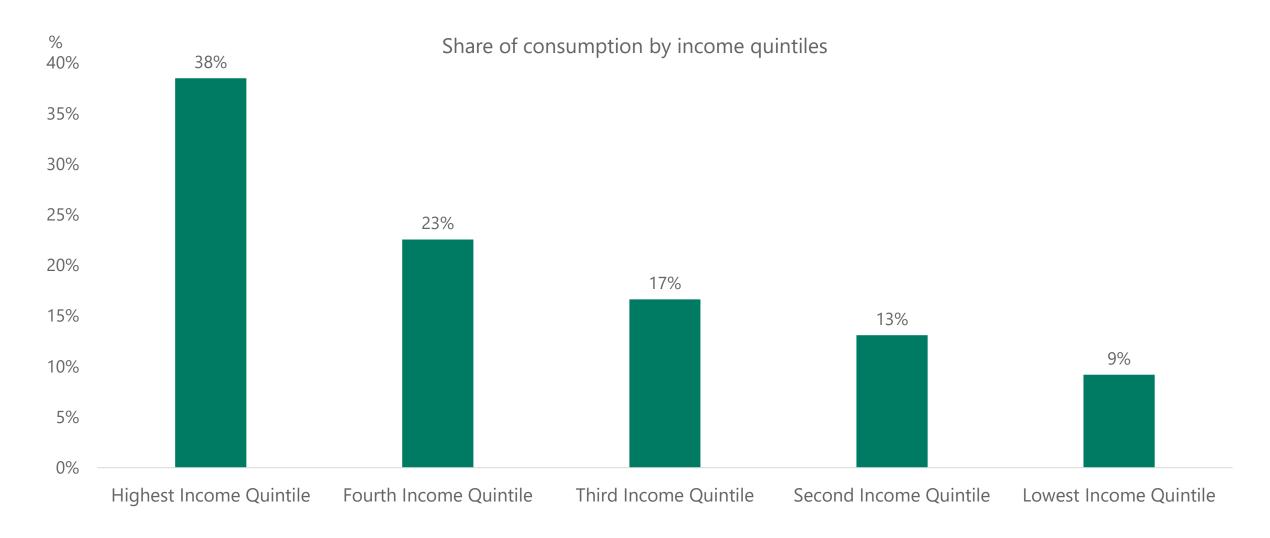
Note: Bloomberg, Apollo Chief Economist

Household savings across different income groups

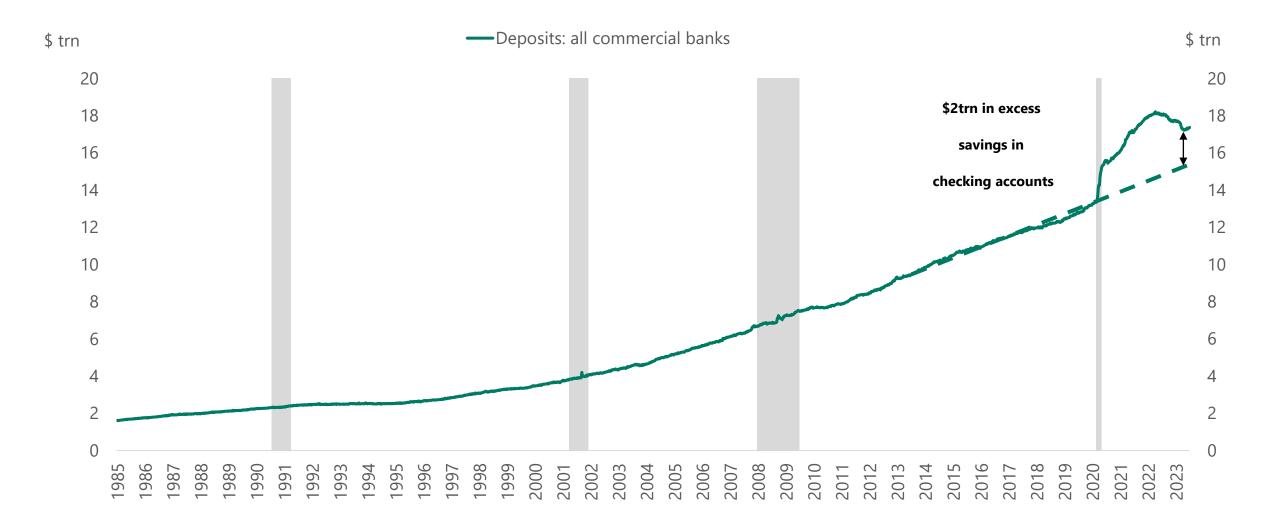


Source: FRB, Haver Analytics, Apollo Chief Economist

Share of US total consumer spending, by income

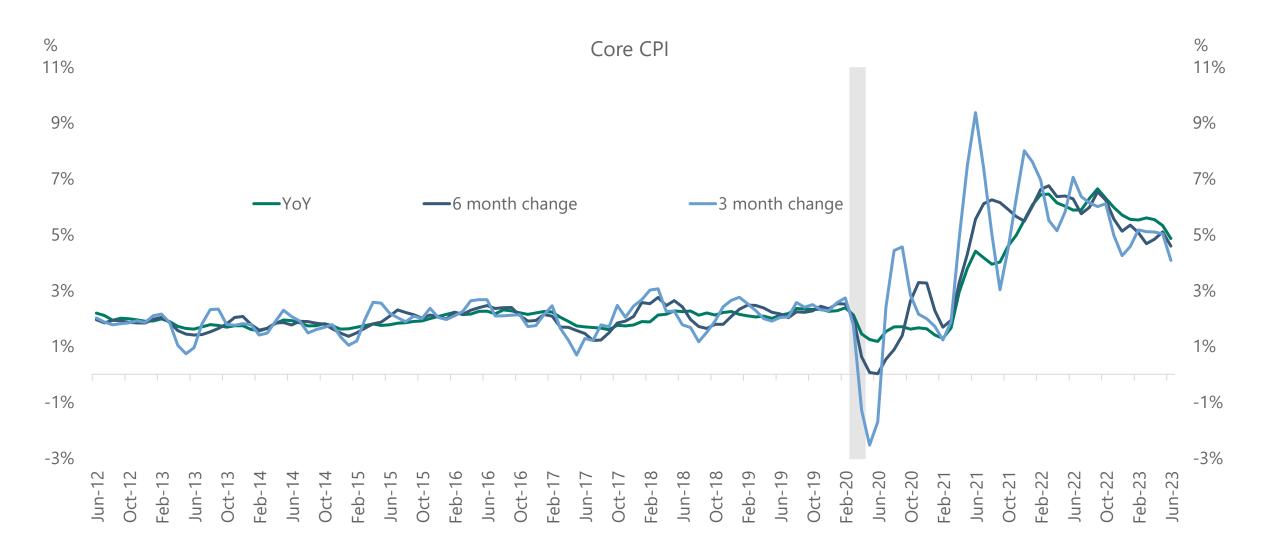


Record-high level of deposits at commercial banks



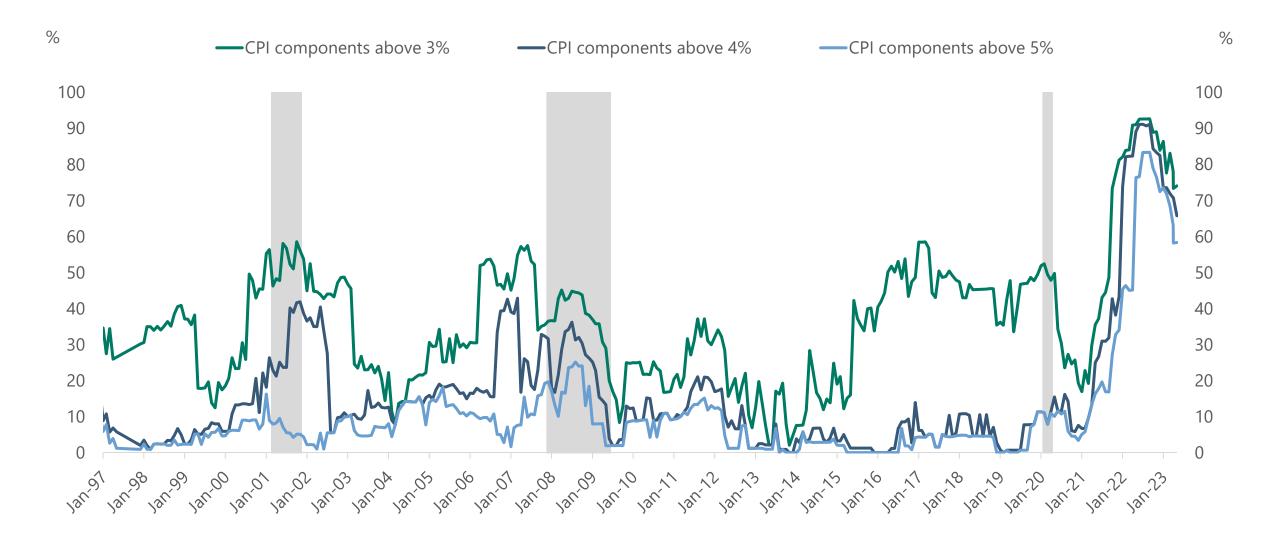
Source: FRB, Haver, Apollo Chief Economist

Inflation remains well above the Fed's 2% inflation target

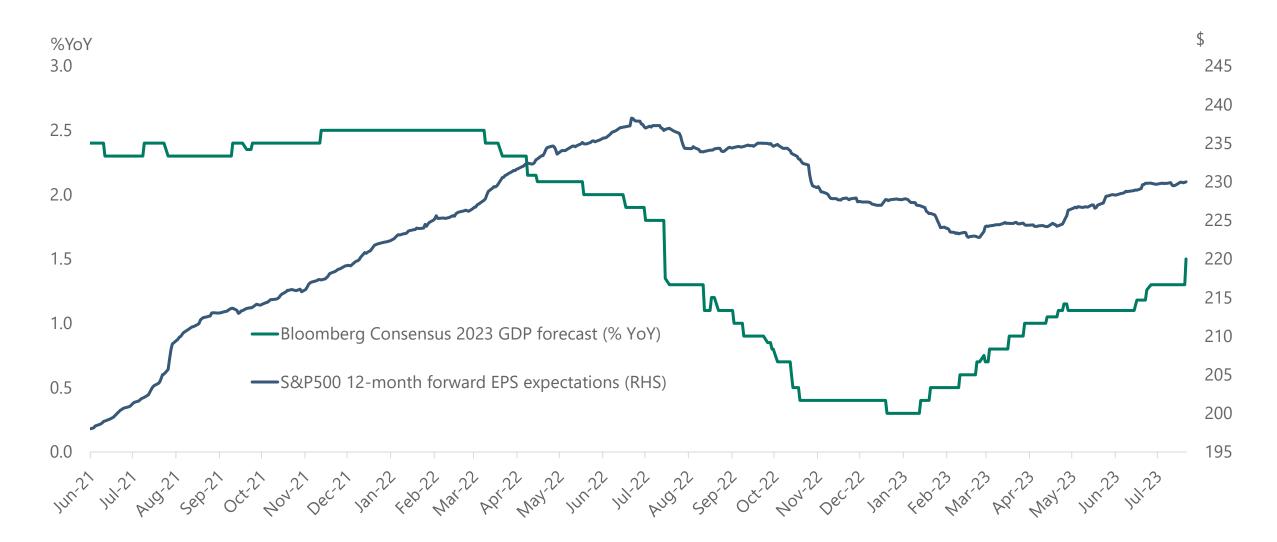


Source: BLS, Haver Analytics, Apollo Chief Economist

Inflation is still broad-based

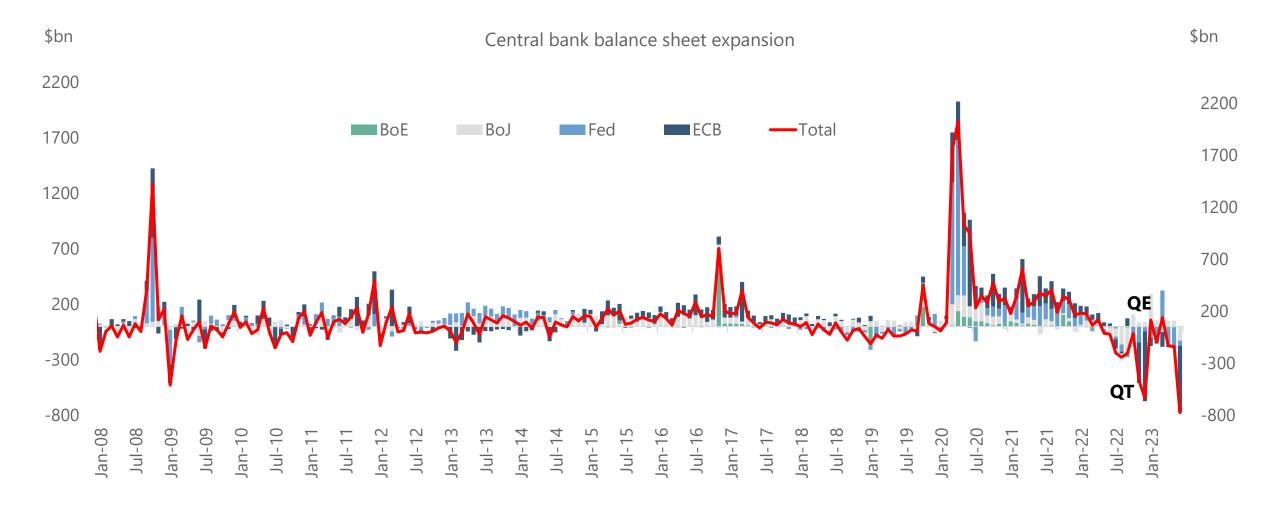


Divergence between S&P500 earnings expectations and GDP growth expectations



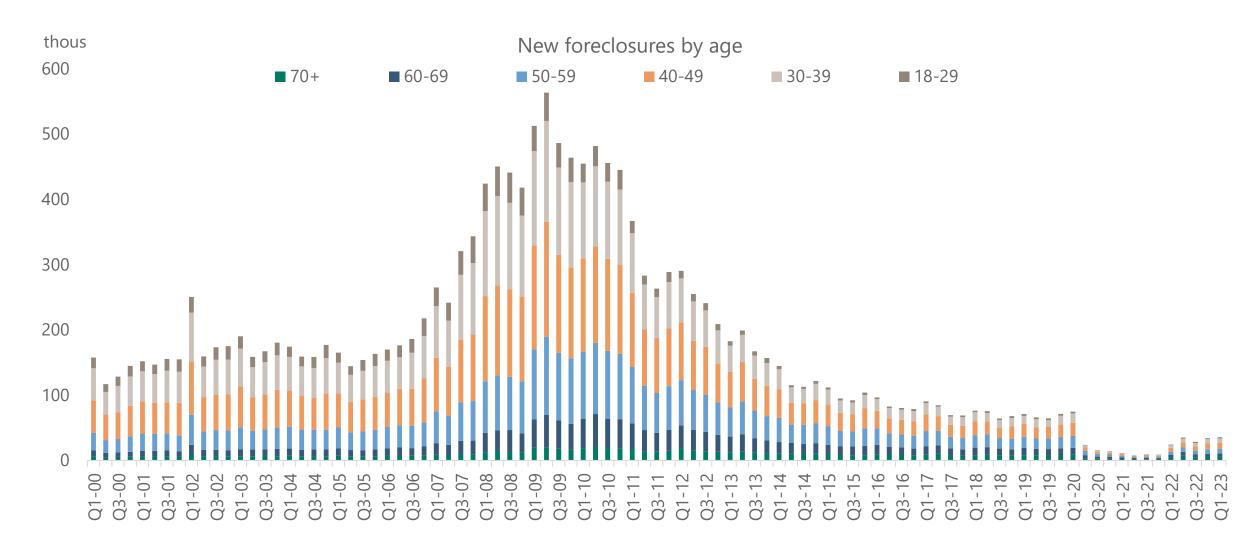
65

QE vs QT

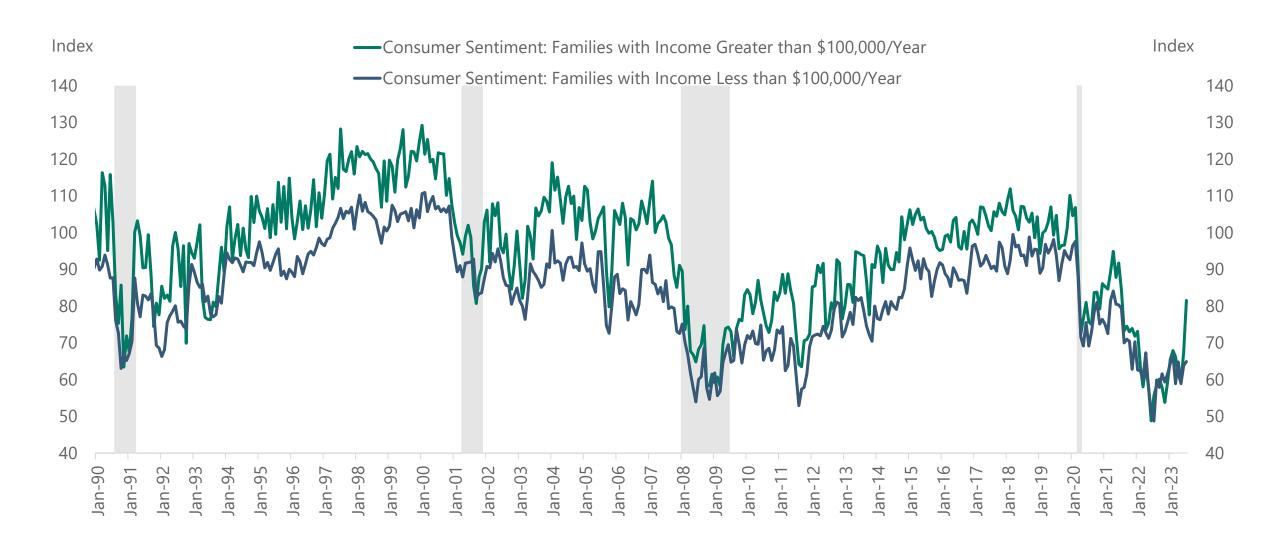


Source: Bloomberg, Apollo Chief Economist

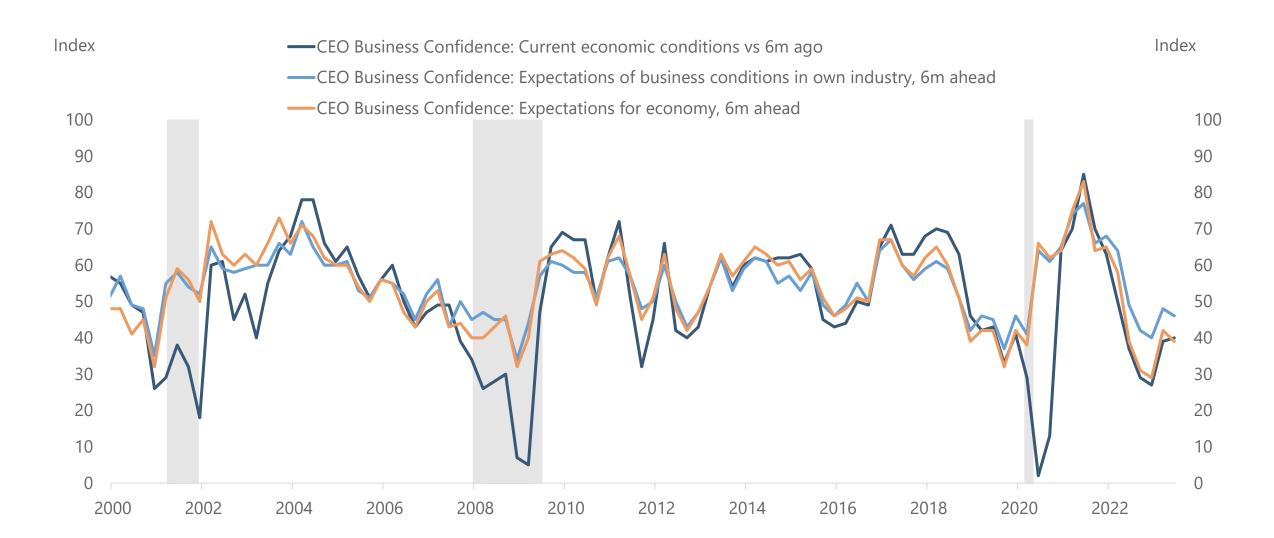
New foreclosures, by age



Consumer sentiment rising again

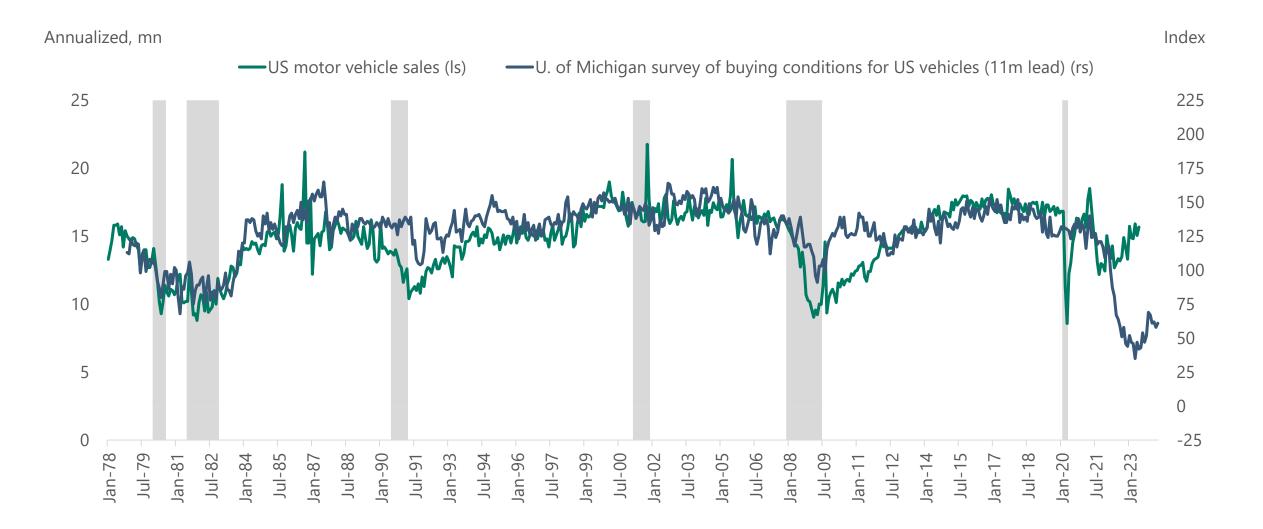


CEOs are slightly more optimistic about the outlook



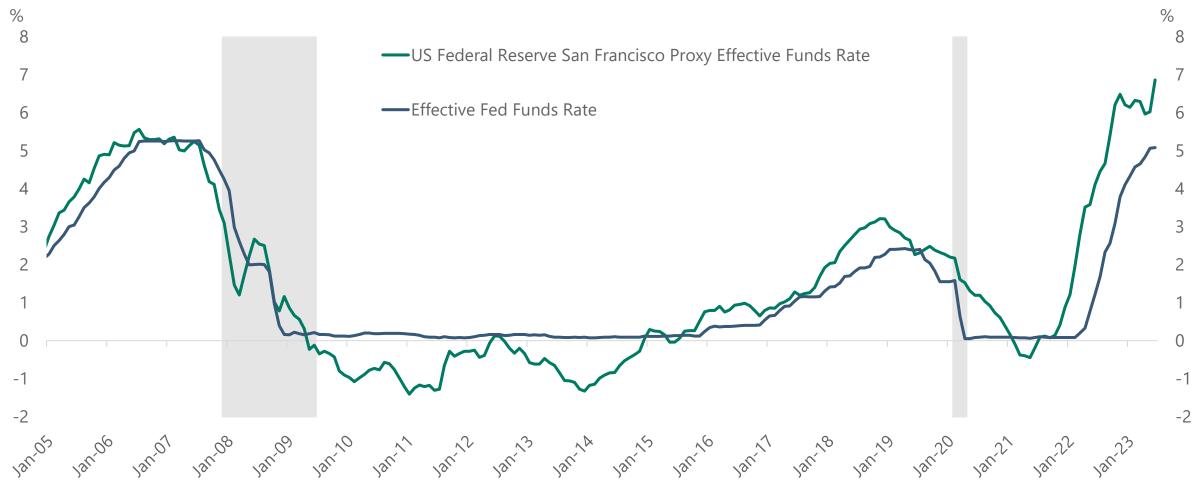
Source: The Conference Board, Haver, Apollo Chief Economist

US car buying sentiment is turning around



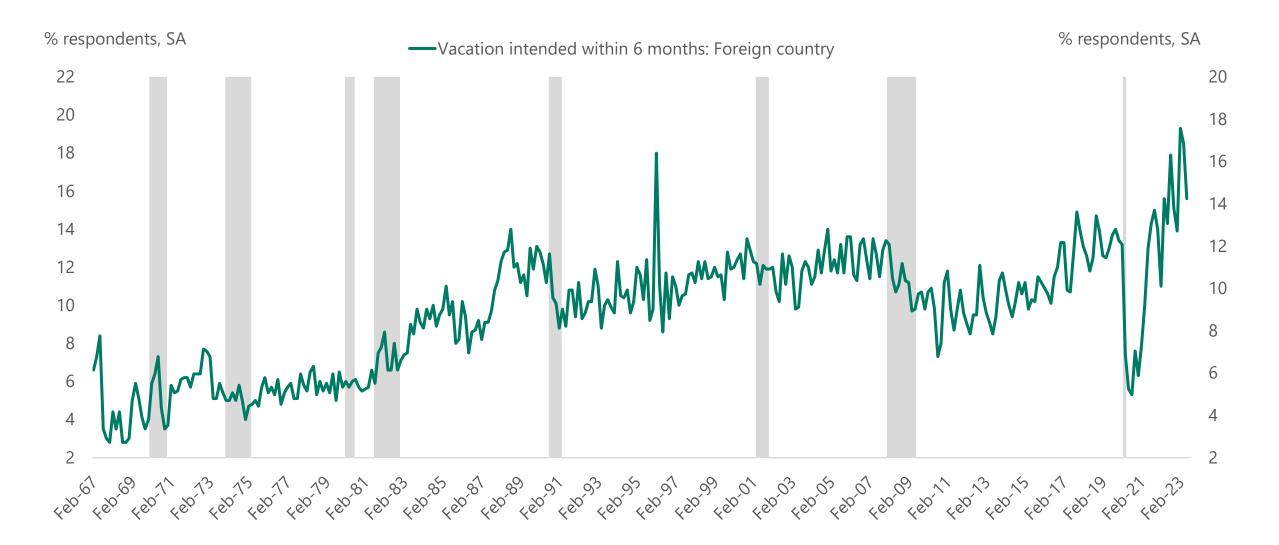
Source: Bloomberg, Apollo Chief Economist

The Fed's own proxy Fed funds rate is around 6%



Source: Bloomberg, Apollo Chief Economist. Note: Source: Monthly series of the proxy funds rate, from Doh and Choi (2016) and Choi, Doh, Foerster, and Martinez (2022). This measure uses public and private borrowing rates and spreads to infer the broader stance of monetary policy. When the Federal Open Market Committee uses additional tools, such as forward guidance or changes in the balance sheet, these policy actions affect financial conditions, which the proxy rate translates into an analogous level of the federal funds rate. The proxy rate can be interpreted as indicating what the federal funds rate would typically be associated with prevailing financial market conditions were driven solely by the funds rate.

Consumers' international vacation plans weakened recently



Heatmap for the US economy and US financial markets

		Dec-19	Mar-20	Jun-20	Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22	Jun-22	Sep-22	Dec-22	Mar-23	Latest
	Inflation (% YoY)	2.3	1.5	0.6	1.4	1.4	2.6	5.4	5.4	7.0	8.5	9.1	8.2	6.5	5.0	3.0
	Core Inflation (% YoY)	2.3	2.1	1.2	1.7	1.6	1.6	4.5	4.0	5.5	6.5	5.9	6.6	5.7	5.6	4.8
	Economic Growth (% YoY)	2.6	0.8	-8.4	-2.0	-1.5	1.2	12.5	5.0	5.7	3.7	1.8	1.9	0.9	1.8	1.8
	New Home sales (000s)	693.0	609.0	936.0	988.0	873.0	850.0	716.0	742.0	830.0	707.0	563.0	567.0	636.0	657.0	763.0
AIC CYCLE	Consumer Sentiment	99.3	89.1	78.1	80.4	80.7	84.9	85.5	72.8	70.6	59.4	50.0	58.6	59.7	62.0	64.4
	Inventory to sales ratio (retailers)	1.4	1.5	1.2	1.2	1.3	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.3	1.3	1.3
ECONOMIC	ISM Manufacturing PMI	47.9	49.0	52.6	55.5	60.2	63.8	61.1	60.7	58.6	57.0	53.1	51.0	48.4	46.3	46.0
8	Homebuilder sentiment	76	72	58	83	86	82	81	76	84	79	67	46	31	44	55
	Unemployment rate (%)	3.6	4.4	11.0	7.9	6.7	6.1	5.9	4.8	3.9	3.6	3.6	3.5	3.5	3.5	3.6
	Average hourly wage (% YoY)	2.9	3.6	5.1	4.8	5.5	4.3	3.9	4.9	5.0	5.9	5.4	5.1	4.8	4.3	4.4
	JOLTS Quits rate (%)	2.3	1.9	1.9	2.2	2.4	2.5	2.8	2.9	2.9	2.9	2.7	2.6	2.6	2.5	2.6
	Jobless claims	235.5	2337.8	1490.3	851.8	836.8	669.3	410.5	340.5	214.5	218.0	216.8	190.5	210.6	242.0	256.8
	S&P 500 Forward P/E ratio	18.4	16.5	21.7	21.5	22.6	21.9	21.4	20.1	21.4	19.6	16.0	15.3	16.9	18.3	19.5
	IG Spread (bps)	101	305	160	144	103	97	86	89	98	122	164	167	138	145	127
	HY Spread (bps)	360	877	644.0	541	386	336.0	304	315	310	343	587	543	481	458	395
ш	Yield curve (bps)	31	22	65	59	84	154	144	129	139	193	193	96	-48	-99	-149
CYCLE	10 year yield	1.92	0.67	0.66	0.69	0.92	1.74	1.47	1.49	1.51	2.34	3.02	3.83	3.88	3.47	3.82
MARKET	VIX	13.8	53.5	30.4	26.4	22.8	19.4	15.8	23.1	17.2	20.6	28.7	31.6	21.7	18.7	13.5
MAR	MOVE Index	58.3	83.9	54.1	39.2	49.0	71.3	57.3	61.1	77.1	106.9	135.5	141.9	121.6	135.9	114.1
	M&A Transaction value (\$bn)	483.2	365.0	155.9	557.8	762.8	716.0	929.7	859.7	850.1	714.6	685.6	397.5	429.2	353.1	444.9
	S&P 500 buybacks (\$bn)	181.6	198.7	88.7	101.8	130.6	178.1	198.8	234.6	270.1	281.0	219.6	210.8	211.2	215.5	215.5
	IPO volume (\$bn, 3 month sum) SPAC volume (\$bn, 3 month	12.2	23.0	29.3	65.7	65.7	151.1	48.3	39.3	51.1	7.1	2.9	1.6	1.0	7.6	2.6
	sum)	3.8	5.9	11.9	40.4	39.3	109.6	13.8	13.8	20.8	3.5	2.3	0.8	0.6	0.8	0.7

Source: Apollo Chief Economist. Colours based on deviation from mean. Green = mean +/- 0.5 stddev; Yellow = +/- 0.5 to 1 stddev,; Red = +/- 1 stdev. For PMI>50 is red and less than 50 is green. Consumer sentiment and MOVE > mean is red and < mean is green and for jobless claims vice-versa. Data starts in 2010.

Heatmap for the EU economy and EU financial markets

		Dec-19	Mar-20	Jun-20	Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22	Jun-22	Sep-22	Dec-22	Mar-23	Latest
	Inflation (% YoY)	1.3	0.7	0.3	-0.3	-0.3	1.3	1.9	3.4	5.0	7.4	8.6	9.9	9.2	6.9	5.5
	Core Inflation (% YoY)	1.3	1.0	0.8	0.2	0.2	0.9	0.9	1.9	2.6	3.0	3.7	4.8	5.2	5.7	5.5
CYCLE	Economic Growth (% YoY)	1.2	-2.8	-14.1	-3.9	-4.0	-0.7	14.3	4.1	4.8	5.4	4.2	2.4	1.7	1.1	1.1
	House prices (% yoy)	4.3	5.1	5.1	5.2	5.9	6.2	7.4	9.2	9.5	9.8	9.2	6.6	#N/A	0.0	2.9
Σ	Consumer Confidence	-7.6	-12.3	-14.6	-12.9	-12.0	-9.9	-2.2	-3.7	-9.2	-22.0	-24.1	-28.7	-22.0	-19.1	-15.1
ONOMIC	ISM Manufacturing PMI	#N/A N/A	#N/A N/A	#N/A N/A	53.7	55.2	62.5	63.4	58.6	58.0	56.5	52.1	48.4	47.8	47.3	43.4
EC	Economic sentiment indicator	103	94	75	95	97	103	115	118	115	106	103	95	97	99	95
	Unemployment rate (%)	7.5	7.2	8.1	8.6	8.2	8.2	7.9	7.3	7.0	6.8	6.7	6.7	6.7	6.6	6.5
	wages & salaries	1.4	-0.6	-10.3	-4.2	-2.0	-0.3	10.1	4.0	3.3	6.2	5.6	5.4	#N/A	0.0	5.5
	EURO STOXX Forward P/E ratio	14.5	12.7	17.2	17.3	18.0	18.2	17.1	15.4	15.4	13.2	11.0	10.0	11.6	12.4	12.2
CYCLE	IG Spread (bps)	94	238	148	118	93	91	84	85	98	129	212	221	167	168	150
_	HY Spread (bps)	308	754	521.0	472	355	314.0	296	304	331	400	641	625	498	474	435
MARKET	Yield curve (bps)	0.312	0.026	0.044	-0.023	-0.072	0.207	0.291	0.3	0.318	1.045	1.833	1.355	0.565	-0.711	-1.078
Σ	10 year yield	-0.19	-0.47	-0.46	-0.52	-0.57	-0.29	-0.21	-0.20	-0.18	0.55	1.33	2.11	2.57	2.29	2.42
	VIX	15.6	53.3	35.7	30.5	28.7	21.1	21.5	26.9	21.8	32.1	31.2	30.1	22.4	21.1	17.0

Heatmap for the UK economy and UK financial markets

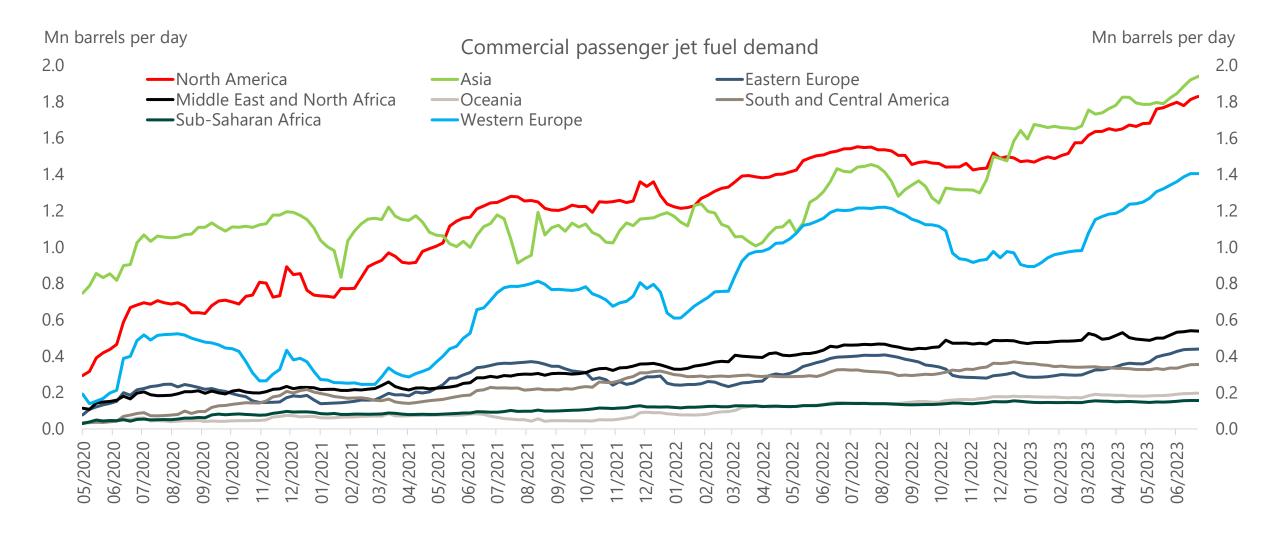
		Dec-19	Mar-20	Jun-20	Sep-20	Dec-20	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22	Jun-22	Sep-22	Dec-22	Mar-23	Latest
	Inflation (% YoY)	1.3	1.5	0.6	0.5	0.6	0.7	2.5	3.1	5.4	7.0	9.4	10.1	10.5	10.1	7.9
	Core Inflation (% YoY)	1.4	1.6	1.4	1.3	1.4	1.1	2.3	2.9	4.2	5.7	5.8	6.5	6.3	6.2	6.9
	Economic Growth (% YoY)	1.3	-2.0	-22.6	-10.3	-9.2	-7.7	24.4	8.5	8.9	10.6	3.8	2.0	0.6	0.2	0.6
	Home sales(units)	98450	90090	64360	95890	125980	173690	209420	161850	98200	109960	103200	103630	97660	89040	80020
CYCLE	Consumer Confidence	-11.0	-9.0	-30.0	-25.0	-26.0	-16.0	-9.0	-13.0	-15.0	-31.0	-41.0	-49.0	-42.0	-36.0	-30.0
	PMI composite	#N/A N/A	#N/A N/A	#N/A N/A	56.5	50.4	56.4	62.2	54.9	53.6	60.9	53.7	49.1	49.0	52.2	52.8
NOMIC	Home price expectations in the next 3 months	29	-82	-9	19	-1	40	29	24	33	22	1	-34	-61	-47	-55
<u> </u>	Unemployment rate (%)	3.8	4.0	4.1	4.9	5.2	4.9	4.7	4.3	4.0	3.7	3.8	3.6	3.7	3.9	4.0
	Average weekly earnings 3m average (% YoY)	2.7	2.5	-1.3	1.3	4.6	3.9	9.2	6.1	4.6	6.6	5.1	6.0	6.0	6.1	6.9
	Job layoffs (%)	3.9	3.8	4.8	11.4	12.8	5.4	3.5	3.7	2.6	2.5	1.9	2.7	3.5	2.8	3.3
	Jobless claims change MoM	7.9	2.4	-65.2	-17.5	-17.5	-13.7	-169.2	-94.1	-70.8	-67.8	-24.5	6.5	7.0	26.5	25.7
CYCLE	FTSE Forward P/E ratio	13.3	12.1	15.9	14.6	14.7	14.0	13.0	12.0	12.2	11.6	9.9	8.6	10.0	10.4	10.9
5	IG Spread (bps)	131	265	175	150	113	113	106	104	115	145	206	244	194	191	159
H	HY Spread (bps)	445	993	721.0	607	463	379.0	372	353	390	463	709	698	669	631	552
MARKEI	Yield curve (bps)	0.072	0.256	0.072	0.129	0.097	0.745	0.616	0.922	0.721	0.86	0.979	1.843	0.172	-0.76	-0.728
Ž	10 year yield	0.82	0.36	0.17	0.23	0.20	0.85	0.72	1.02	0.97	1.61	2.23	4.09	3.67	3.49	4.27

China: Metro passenger volumes close to pre-pandemic level



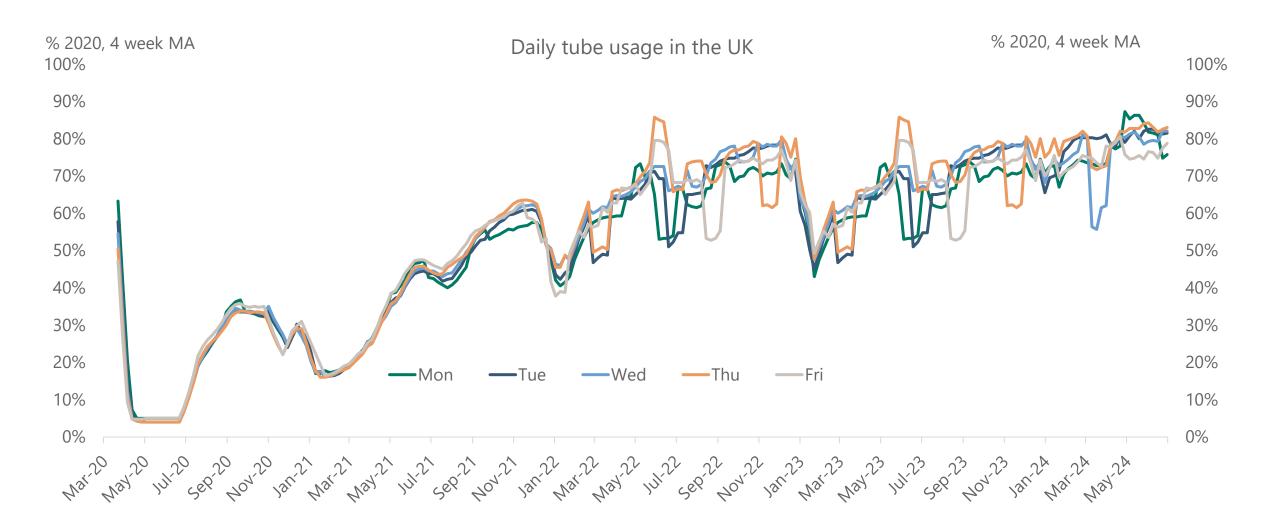
Source: Bloomberg, Apollo Chief Economist

Flight activity: North America is catching up with Asia



Source: Bloomberg, Apollo Chief Economist.

UK tube usage



Source: ONS, TfL, Apollo Chief Economist



Torsten Slok, Ph.D.

Chief Economist

Apollo Global Management
tslok@apollo.com

Torsten Slok joined Apollo in August 2020 as Chief Economist and he leads Apollo's macroeconomic and market analysis across the platform.

Prior to joining, Mr. Slok worked for 15 years as Chief Economist at Deutsche Bank where his team was top ranked in the annual Institutional Investor survey for a decade, including #1 in 2019. Prior to joining Deutsche Bank Mr. Slok worked at the IMF in Washington, DC and at the OECD in Paris.

Mr. Slok has a Ph.D in Economics and has studied at the University of Copenhagen and Princeton University.