



August 24, 2023

Global Strategy Quadrant

Steven Wieting
Chief Investment
Strategist and
Chief Economist,
Citi Global Wealth

STRATEGY TEAM

Malcolm Spittler
Maya Issa
Chadd Cornilles
Jorge Amato
Ken Peng
Li-Gang Liu
Calvin Ha
Wang Shurong
Andrea Leung
Guillaume Menuet
Judiyah Amirthanathar
Charles Reinhard
Lorraine Schmitt
Joseph Fiorica
Cecilia Chen
Bruce Harris
Joseph Kaplan
Jaideep Tiwari
Melvin Lou

China vs US: One Stays Aloft. The Other Stays Depressed

Following 2020's COVID shock, China's economy leapt by 8.5% in 2021 on reopening and stimulus. We were wrong to assume a similar pattern would unfold this year. After making initial gains following a second shutdown and reopening, China's economy contracted in the second quarter of 2023. Policymakers have been highly gradualist in arresting a property market decline and weakness in domestic consumption. Consumer, producer, and export prices are falling, while real interest rates are rising in a way that is reminiscent of Japan in the early 1990s.

Investors may now be underestimating the lengths to which China will ultimately go to restore growth. However, it's clear that China's outlook is highly dependent on official steps to contain spillovers from property-sector financial troubles to other parts of the economy. China's gross goods exports are about three times larger than the US relative to GDP. With goods exports falling across most of the world to contain inventory build-ups, domestic consumption and investment gains are more important for China to fight an economic slowdown and high unemployment.

Due to the early year "bounce," China may come close to reaching its real GDP target of 5% in 2023. However, this may be deceptive. Only a decisive stimulus and reacceleration of business and consumer activity would absorb labor slack and generate a solid 2024. We have cut our real GDP forecasts for China by an average of 1.4 percentage points this year and next to +4.5% and +3.0%.

Compared to China, the US economy has been the mirror of resilience. Persistent employment gains and declining inflation are keeping the US consumer spending pace solid even as manufacturing and housing contract. We've raised our US real GDP forecast for 2023 by 1.3 percentage points to 2.6%.

Unfortunately, a longer period of restrictive Fed policy and moderating labor demand suggests a softer 2024 for the US. While still higher than our initial 2024 view, we see US growth slowing to 1.8% next year. This means global growth will likely slow further to 2.0% in 2024. With policy easing and reduced inflation next year, global growth will likely strengthen in 2025.

The combination of Fed pressures and a weaker China have sapped market confidence. As we noted last month (see [July's Quadrant](#)), rising confidence that a US recession will be avoided actually made markets more vulnerable to correction. US overconfidence can be a source of risk.

When Japan's equity market peaked in 1989, it was 45% of global traded equity market cap. Today, the MSCI China is just 2.5% of global indices. While there are similarities to Japan on the policy front, unlike 1989, confidence in China's outlook has already shriveled. China shares are off 52% from the 2021 high. Equity valuations in Japan were also roughly 8X higher than China's are today. However, China's economic importance to the world today is at least as material as Japan's was at its peak.

While much is "priced in," our reduced confidence in China's economy and policy approach has led us to shift down our allocation to Asian and Latin American equities by 2.5 percentage points. This includes China and Developed Markets (DM) Asia such as Hong Kong and Australia. We have shifted up US asset weightings as a result. The US bond market may be particularly poised to benefit from the impact of China's export price deflation. We would still expect to broaden our global equity overweights in time.

India Special: The world's largest national population is no longer China's, but India's. At a far earlier stage of economic development – but also a far higher equity valuation – **we see India's economy relatively insulated from China woes with lower trade linkages than Europe and Latam.**

**INVESTMENT PRODUCTS: NOT FDIC INSURED · NOT CDIC INSURED ·
NOT GOVERNMENT INSURED · NO BANK GUARANTEE · MAY LOSE VALUE**

With China's recovery faltering and highly dependent on central government policy measures, the Global Investment Committee (GIC) shifted its equity allocations from certain non-US markets to the US. We have made further reductions in China equities, but also eliminated overweights in closely impacted developed markets such as Hong Kong and Australia. We have also eliminated an overweight in Brazil.

We consequently raised our allocation to US equities by 2.5 percentage points. This leaves our allocation to Global Fixed Income overweight by 1 percentage point (highly concentrated in high quality US bonds), Global equities neutral and cash underweight by 1 percentage point.

In our reallocation, we added to an equally-weighted (rather than market cap-weighted) S&P 500 position. It can also be implemented through diversified active managers. This is to avoid any additional concentration in US mega cap shares that have led the rally in the year-to-date and now comprise a record 31% of S&P 500 index market cap in just the top 10 holdings. The equal weight S&P Index trades at a 16% valuation discount to the market cap weighted index, the largest gap since 2010.

We expect a broadening performance in global equities in time and the peak of the US dollar in 2022 to prove lasting. However, economic and financial developments in China suggest US dollar strength and US asset outperformance before contrary trends reassert. As we noted in last month's [Quadrant](#), we believed the sharp rally in market sentiment and drop in hedging activity made global markets more susceptible to near-term weakness. We believed this was best addressed with short-term hedging strategies.

While a setback in markets was expected, since last month, our confidence in China's long-term economic outlook and policy course has weakened further. After making initial gains following a second shutdown and reopening, China's economy contracted in the second quarter of 2023. While investors may now be underestimating the lengths to which China will ultimately go to restore growth, to date, policymakers have been highly gradualist in arresting a property market decline and weakness in domestic consumption. Consumer, producer and export prices are falling, while real interest rates are rising in way that is reminiscent of Japan in the early 1990s.

China's outlook appears highly dependent on official steps to contain spillovers from property-sector financial troubles to other parts of its economy. In contrast, persistent employment gains and declining inflation are keeping the US consumer spending pace solid even as manufacturing and housing contract. This is pushing up US yields and views over the sustainability of tight US monetary policy.

We believe significant declines in China's export prices (with over a 30% share of US merchandise imports) will support future declines in US inflation. While bond prices have fallen, we continue to overweight US investment grade bonds, particularly Treasuries with increasingly attractive future real yields.

China's share prices have fallen 20% from their highs of this year and 52% from their 2021 peak. Forward valuations are a meager 11X expected EPS, suggesting investors expect downward estimate revisions. The traded market cap of China A-shares is just 2.5% of global equity benchmarks. This contrasts markedly with 45% for Japan at the peak of 1989. This performance suggests much of the China news – and US economic outperformance - has been priced in already.

China's financial linkages to world markets are comparatively small. However, its impact on the global economy is at least as large as Japan's at its peak. Noting this risk and the mild impact China's woes have had outside its borders to date, we've decided to err on the side of caution and shift equity allocations somewhat in a defensive manner while maintaining our overweight in quality fixed income. We continue to expect to reallocate toward equities from our large overweight in US high grade fixed income over the course of the full economic cycle to come.



FIXED INCOME

Developed Sovereign				1	
Developed Investment Grade Corporates					2
High Yield	-2				
Emerging Market Sovereigns				1	

EQUITIES

Developed Equities		-1			
Large Cap				1	
US				1	
Europe				1	
Asia ex-Japan				←	
Japan				1	
Small and Mid Cap		-1			
US SMID Cap				1	
Non-US SMID Cap	-2				
Emerging Market Equity				←	
Thematic Equity*					→

CASH

CASH		-1			
------	--	----	--	--	--

COMMODITIES

COMMODITIES				1	
-------------	--	--	--	---	--

*Thematic equities include Cyber Security. Please refer to the [Portfolio Allocations](#) for a comprehensive breakdown of the portfolios at each risk level.

-2 = very underweight | -1 = underweight | 0 = neutral | 1 = overweight | 2 = very overweight

Arrows indicate changes from previous GIC meeting

China vs US: One Stays Aloft. The Other Stays Depressed

Steven Wieting
Chief Investment
Strategist and
Chief Economist

China's economy is not following the "shock, stimulus, boom" pattern.

We believe parsimony or procrastination in stimulating the economy risks self-reinforcing negative effects.

If individual actors seek to protect their balance sheet resources while central authorities seek "fiscal responsibility," the economy collectively can face insufficient demand and less serviceable debt burdens.

China's export price plunge may reinstate the global tradeable goods deflation that many believed was a thing of the past.

In 2020, China was the first to suffer from COVID lockdowns and economic contraction. After reopening and stimulus steps, China's economy roared with a world-beating 8.5% real GDP gain in 2021. After new COVID lockdowns and a reopening in late 2022, we assumed a semblance of the same pattern would be repeated. We were wrong.

In 2023, China's economy is seeing a lack of "policy traction" after the public has suffered what might be analogous to "long COVID." Economic growth rebounded in the few months after COVID lockdowns ended in late 2022, but activity has since slowed or even contracted. Both industrial and consumer prices are beginning to fall slightly. Official policy interest rates have dropped, but not as much as consumer and wholesale prices. **Considering all the potential actions they can take, to date Chinese policymakers haven't moved faster than markets to sustain expectations of recovery.**

China's leadership has surprised international investors for about three years now, seemingly willing to crush industry champions while seeking "common prosperity" with a much enhanced role for the state. Trade disputes with the US in 2018 have been followed with far more contentious security concerns on both sides. This is sharply impacting cross-border investment.

For China, we believe any parsimony or procrastination in stimulating the economy risks self-reinforcing negative economic effects. This would in turn take even stronger and more costly steps to overcome.

Like many others at different times and places, China's policymakers are seeking to avoid rewarding mistakes with "bailouts." They seek "higher quality growth" rather than rapid growth. However, the so-called "paradox of thrift" may come into play. If individual actors seek to protect themselves by cautiously protecting balance-sheet resources while central authorities seek "fiscal responsibility," the economy *collectively* can face insufficient demand and less serviceable debt burdens.

Servicing debt requires income, which is generated by economic output (see **Figures 1-2**). When an economy is overheating in an inflationary period, it can be helpful to "deleverage" and slow growth. But doing so in a period of slow inflation and high unemployment risks a self-reinforcing deflation (see **Figure 3**).

In the present setting, a Chinese export price plunge will likely also reinstate conditions of global tradeable goods deflation that many believed were a thing of the past (see **Figure 4**).

Figure 1: China nominal GDP and domestic debt



Source: Haver Analytics and BIS as of August 22, 2023. Note: Gray areas are recessions.

Figure 2: Non-financial debt as % of GDP: China, EM ex-China, Euro Area, Japan, US

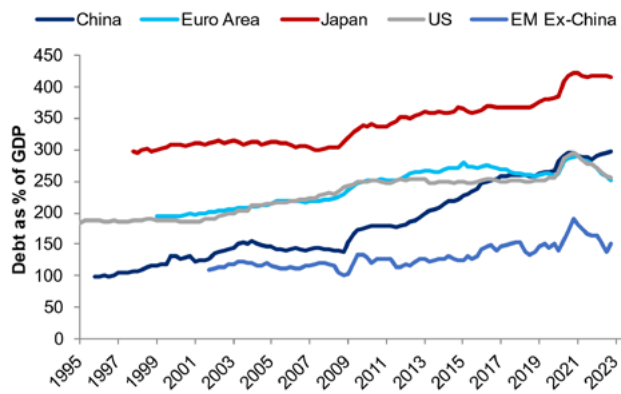
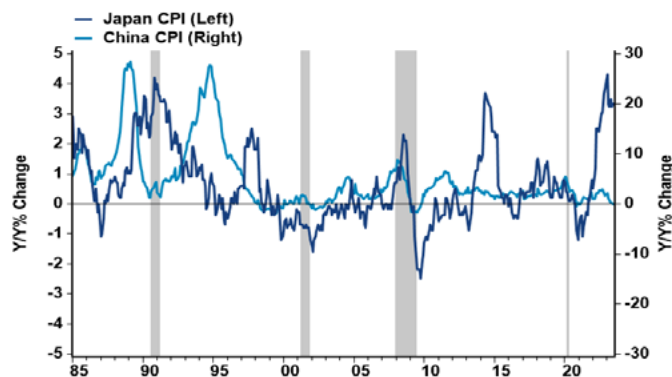
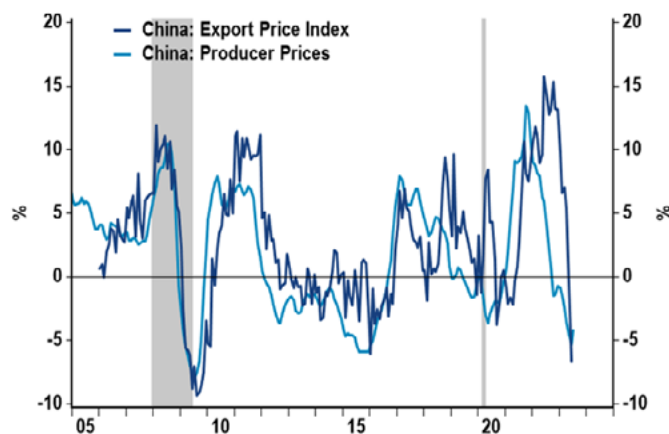


Figure 3: CPI Y/Y%: China vs Japan



Source: Haver Analytics as of August 15, 2023. Note: gray areas are recessions.

Figure 4: China producer and export prices Y/Y%



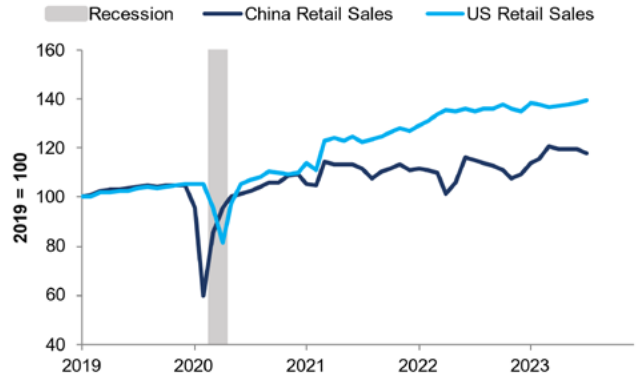
China's Immediate Challenge

Like most economies, China's exports have weakened sharply in 2023 (see **Figure 5**). This outcome was easily predicted as consumer goods inventories surged across the world in 2022. As gross merchandise exports are nearly 19% of China's GDP – nearly 3X the US's share – Chinese industry has been hard hit. This highlights the importance of domestic consumption and investment for China's economy (and others) to stay fully employed. Yet despite lockdowns that should have generated pent up demand this year, China's consumers are showing great caution in spending. In recent months, China's retail spending has fallen far short of the US's path, even as China's consumer demand was far weaker in 2020 and again 2022 (see **Figure 6**).

Figure 5: China and US: merchandise exports Y/Y%



Figure 6: US retail sales have risen faster than China's sales since Covid first struck



Source: Haver Analytics as of August 18, 2023. Note: grey areas are recessions.

In the US, by comparison, confidence in sustaining the recovery is rising (see **Figure 7**). The large rise in services consumption is boosting related employment. This in turn is helping goods producers and importers reduce inventories and “work down” a recessionary headwind (see **Figure 8**).

China's near-term challenge is an export sector 3X the US and a property sector that may be 2X more important to its growth.

Stronger tracking data and financial conditions for the US are nearly the mirror opposite of China's (see **Figure 9**). However, we would caution against extrapolating this condition forever. Sustaining tighter monetary policy – which might be Fed Chairman Powell's message later this week – will weigh on the future even as markets relish in US growth today.

Overconfidence may be the US problem, but its immediate economic strength is helping to reduce recessionary imbalances.

But today counts. As we show below in **Figure 10**, we have revised up our US real GDP forecast by 1.3 percentage points, the opposite of China's downward revision of the same magnitude. For 2024, our revision to the US is also upward, but the pace of economic growth on average should be slower next year.

China's exit point for 2023's GDP is critical to 2024. Its early year economic strength can be deceptive, even for policymakers. After a second quarter economic contraction from the 1Q pace, even a stalled Chinese economy would yield a 4% full-year average gain. However, only a dramatic turnaround would avoid a significantly slower economy in 2024. A range of scenarios for China real GDP average near 3% for 2024.

Figure 7: US real consumer spending on services vs employment

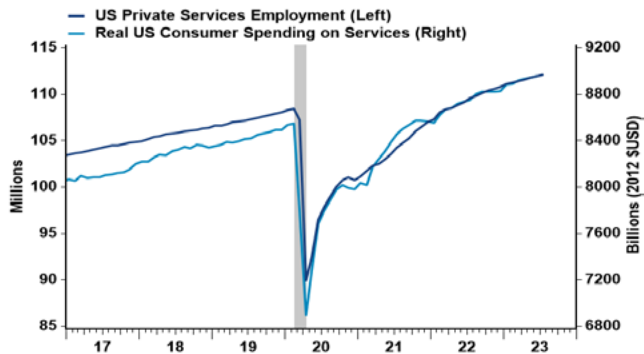
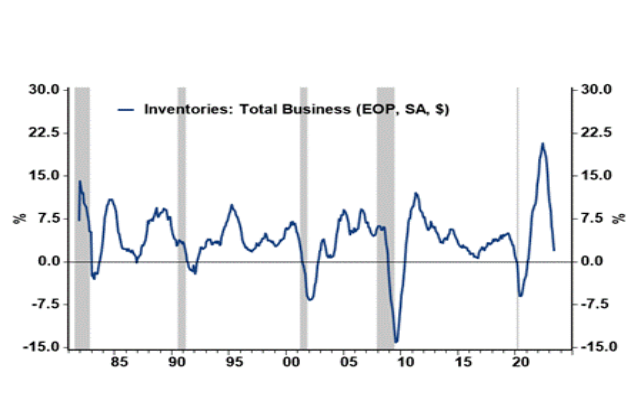


Figure 8: US business inventories Y/Y%



Source: Haver Analytics as of July 19, 2023. Note: gray areas are recessions.

Figure 9: Citi Economic Surprise Index for US vs China



Source: Haver Analytics as of August 15, 2023. Grey areas note recessions. All forecasts are expressions of opinion and are subject to change without notice and are not intended to be a guarantee of future events. Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only and do not represent the performance of any specific investment. Index returns do not include any expenses, fees or sales charges, which would lower performance. Past performance is no guarantee of future results. Real results may vary.

Figure 10: CGWI revised real GDP forecasts and S&P 500 EPS estimates (%)

	2020	2021	2022	2023	Change from Previous	2024	Change from Previous
	China	2.2	8.5	3.0	4.5	-1.3	3.0
US	-2.8	6.0	2.1	2.3	1.3	1.8	0.4
EU	-6.2	5.4	3.4	0.7	0.1	0.6	-0.5
UK	-11.0	7.6	4.1	0.5	0.2	0.8	-0.3
Global	-3.2	5.9	3.3	2.4	-0.1	2.0	-0.4

	S&P 500 EPS	Y/Y%	Bottom-Up Consensus	Y/Y%
	2020	142.3	-13.5	
2021	209.1	46.9		
2022	221.6	6.0		
2023	217.0	-2.1	220.5	1.1
2024	225.0	3.7	246.4	11.8
2025	243.0	8.0		

Source: CGWI and Haver Analytics as of August 22, 2023. All forecasts are expressions of opinion and are subject to change without notice and are not intended to be a guarantee of future events. Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only and do not represent the performance of any specific investment. Index returns do not include any expenses, fees, or sales charges, which would lower performance. Past performance is no guarantee of future results. Real results may vary.

The Policy Lesson of Japan

China's highly indebted property developers seem certain to drive a wave of defaults. As was the case in the US post 2008, it is important for China's policymakers to contain the damage from causing self-reinforcing negative impact through *other* parts of the economy. Once again, China's property sector is larger than the US relative to the size of its economy (see **Figures 11-12**). The US had the lesson of the Japanese deflation following the bursting of its property bubble to help guide its policy. Even so, it took four years for US real estate investment to bottom following an over-construction binge.

Figure 11: The US and China are both going through a property investment slump

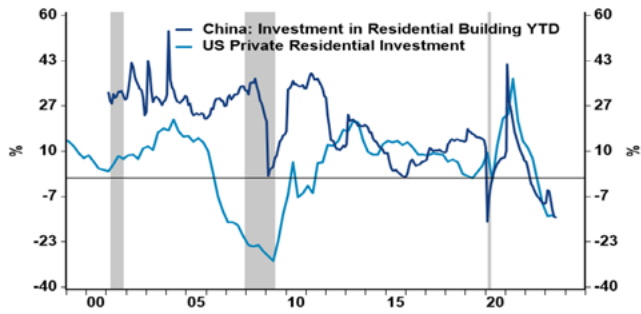
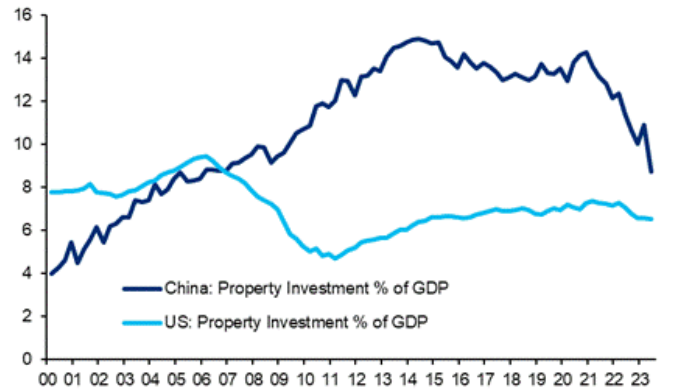


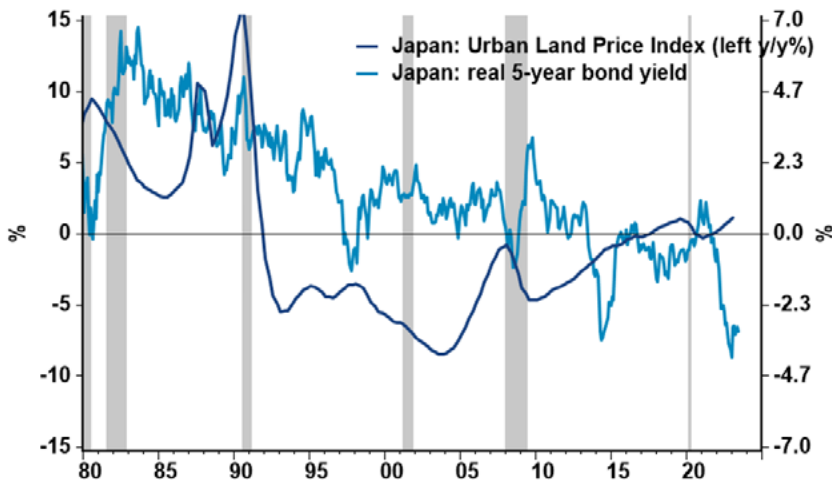
Figure 12: In China, the housing sector has a larger impact as it never posted a 2008/2009 contraction



Source: Haver Analytics as of August 15, 2023. Grey areas are recessions.

This brings us to the lessons of Japan itself. Following a misguided surge in growth expectations in the 1980s, Japan’s real estate bubble peaked in 1989. While other factors played a role, the collapse was deflationary in nature. The initial view of Japanese officials was one of extraordinary caution to avoid boosting asset prices, “rewarding the guilty” and reflating the bubble. Over the next six years, rate cuts came slow. For many years, half-hearted small fiscal easing steps were taken and withdrawn. Japan suffered a mild deflation for most of two decades until far stronger easing steps were finally taken about 10 years ago (see **Figure 13**). Notably, Japan contributed to a “global savings glut” that helped lower bond yields even today. In the case of China, linkages to yields and inflation are more likely to be through trade impact. We also acknowledge there is little reason to believe these issues will unfold over the span of decades.

Figure 13: Japan property prices crashed in 1990, policy rates only fell to 1% in 1995, leading real yields high



Source: Haver Analytics as of August 15, 2023. Grey areas note recessions.

The lesson of Japan and the US in the 1930s is most clear – unless policymakers are aiming for a hard, painful deleveraging with healthy parts of the economy being dragged down by the sick parts, policymakers need to get ahead of deflationary expectations and ease quickly and forcefully.

China comparisons to Japan may be most off base when looking at asset prices. However, the economic consequences of China's economic challenges are at least as important.

One should not oversimplify the case for “Japanification” in China. While there are strong demographic similarities, there are large differences in banking, financial linkages to the world, and the country’s relative state of economic development. Japan’s property prices surged far more in the 1980s than China’s in the last decade. The difference in equity markets is actually far more stark. At its 1990 peak, Japan’s equity market was nearly 45% of the world’s. In 2021, China’s was 5% of the world (see **Figure 14**). When Japan’s equity bubble burst, it was trading at roughly 8X the value of China’s stock market which has already fallen 52% from its 2021 peak (see **Figures 15-16**).

Figure 14: China vs Japan equity market as % of world market cap



Source: MSCI and Bloomberg as of August 15, 2023. All forecasts are expressions of opinion and are subject to change without notice and are not intended to be a guarantee of future events. Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only and do not represent the performance of any specific investment. Index returns do not include any expenses, fees or sales charges, which would lower performance. Past performance is no guarantee of future results. Real results may vary.

Figure 15: Japan vs China equity market: compare 1980s to 2010s

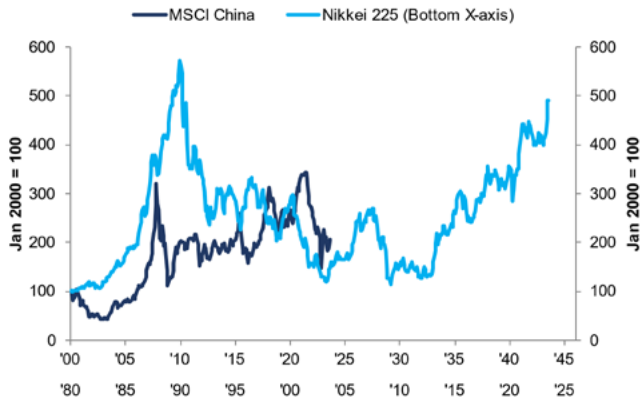
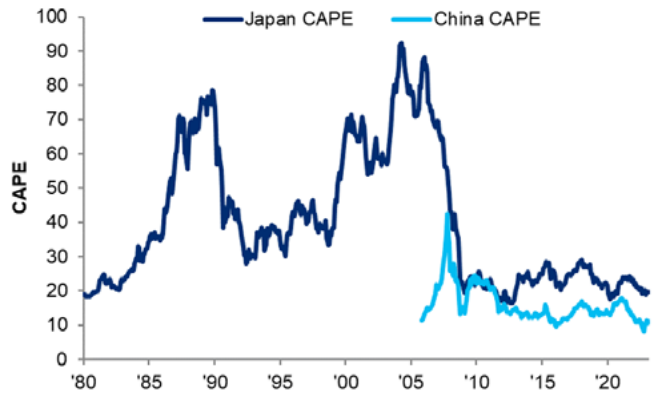


Figure 16: Japan vs China equity: cycle adjusted price/earnings



Source: MSCI and Haver Analytics as of August 15, 2023. All forecasts are expressions of opinion and are subject to change without notice and are not intended to be a guarantee of future events. Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only and do not represent the performance of any specific investment. Index returns do not include any expenses, fees or sales charges, which would lower performance. Past performance is no guarantee of future results. Real results may vary.

Portfolio Changes

China growth challenges should weigh against rising US yields which are increasingly attractive.

China will either stimulate broadly again as it did in 2008 and 2020 or fall behind in a way that is reminiscent of Japan, at least from a macroeconomic policy perspective. If it's the latter, we would view consequent strength in the US dollar, weakness in Chinese demand, and falling export prices to be a global disinflationary force. Of course, there are many other issues between China and the West to consider far beyond the scope of this report. For one clear issue, however, with US bond yields at 16-year highs, inflation diminishing, and global demographics not dissimilar to China, we believe the case for high grade US bonds is increasingly compelling (see **Figures 17-19**).

Noting this, our Global Investment Committee is already overweight US high quality bonds at the “expense” of holding no Japanese bonds with their negligible yields. Across segments, our portfolio yield is 5.6% with a 5.5-year duration, a far higher yield than the Fed’s estimate of policy rates over the same period.

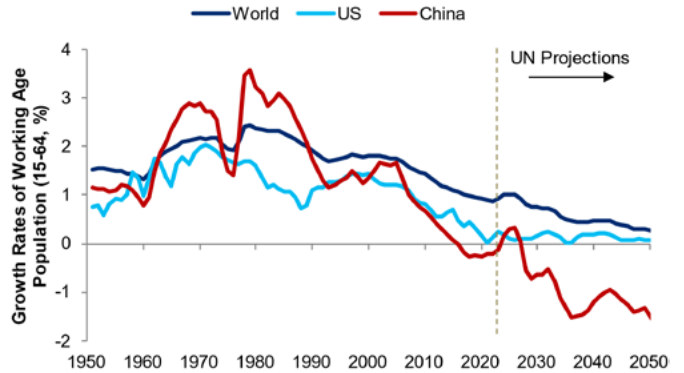
While it is tempting to add even more to our 7% US investment grade bond overweight, we decided to reallocate some of our non-US equity positions to the equal-weighted S&P 500. This is to avoid any additional concentration in US mega cap shares that have led the rally in the year-to-date and now comprise a record 31% of S&P 500 index market cap in just the top 10 holdings. This can also be implemented through diversified active managers.

The equal-weight S&P 500 Index trades at a 16% valuation discount to the market cap-weighted index, the largest gap since 2010 (see **Figure 20**). We don’t seek to actively underweight the “Magnificent 7” large cap US tech stocks that have driven the majority of US share price gains this year. But we would also not want to overweight them (see **Figure 21**).

While the US might suffer from overconfidence with its strong market and economic outperformance this year, this is not true for the majority of even large cap US shares. The equal-weight S&P 500 has posted a mere 3.6% gain this year, and we continue to see a likely broadening in global equity performance in the year to come, once investors look beyond the near-term challenges we’ve highlighted.

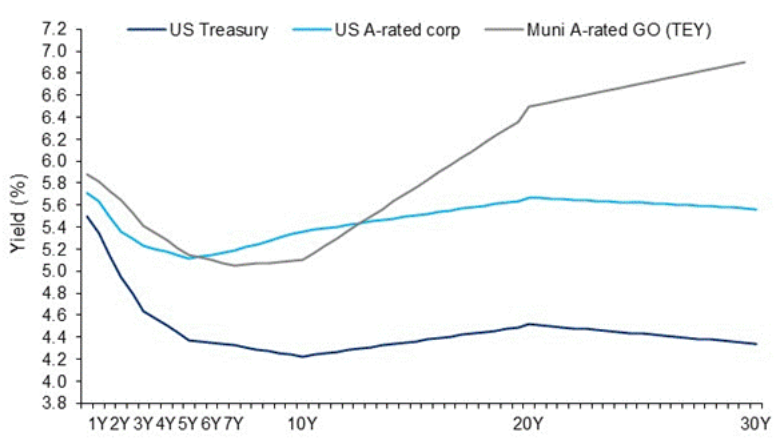
Figure 17: US Treasury 5-year note yield (%)

Figure 18: Population aged 15-64 and UN projections Y/Y%



Source: Haver Analytics as of August 15, 2023. Note: gray areas are recessions. All forecasts are expressions of opinion and are subject to change without notice and are not intended to be a guarantee of future events.

Figure 19: US Treasury, IG corporate, and tax-equivalent muni yield curve



Source: Bloomberg as of August 17, 2023. All forecasts are expressions of opinion and are subject to change without notice and are not intended to be a guarantee of future events. Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only and do not represent the performance of any specific investment. Index returns do not include any expenses, fees or sales charges, which would lower performance. Past performance is no guarantee of future results. Real results may vary.

Figure 20: Forward P/E of S&P 500 market cap-weighted vs equal-weighted

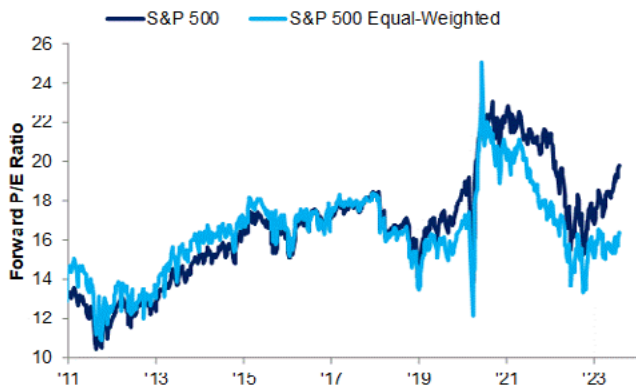
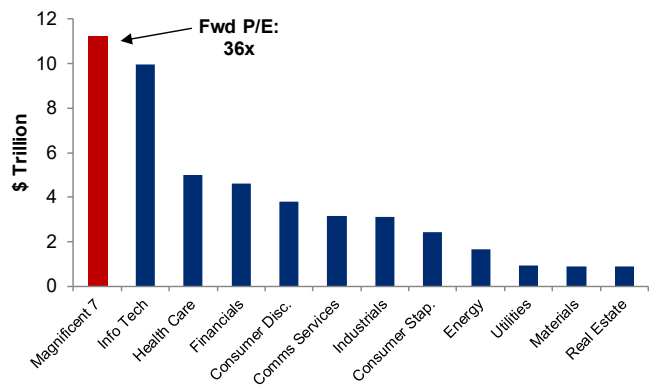


Figure 21: Seven large US tech-related shares are larger than all other S&P 500 sectors



Source: Bloomberg as of August 21, 2023. All forecasts are expressions of opinion and are subject to change without notice and are not intended to be a guarantee of future events. Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only and do not represent the performance of any specific investment. Index returns do not include any expenses, fees or sales charges, which would lower performance. Past performance is no guarantee of future results. Real results may vary.

India: An Emerging Growth Engine in Asia

Cecilia Chen
Global Equity
Investment Strategist

Joe Fiorica
Head, Global Equity
Investment Strategist

Ken Peng
Head, Asia Pacific
Investment Strategist

Jaideep Tiwari
Head, Global
Foreign Exchange
Investment Strategist

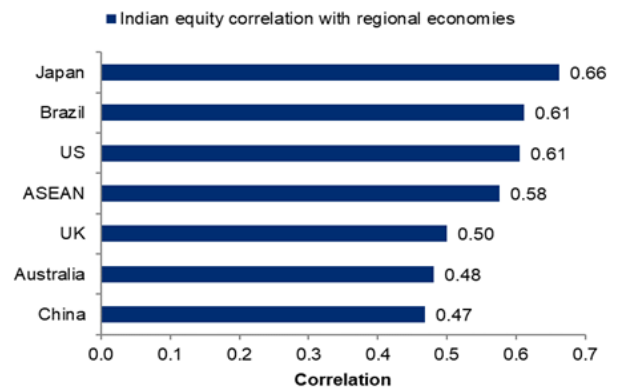
India has attracted increasing interest from international investors in recent years. The country is widely considered to be well positioned as an alternative growth engine and investment destination within Asia as China deals with a sluggish domestic economy and ongoing geopolitical challenges. India is also one of the few emerging markets that is likely to see meaningful population growth in the coming years and still enjoys high single-digit real GDP growth. Citi Research economists are projecting real GDP growth of 6.2% and 6.1% in FY23 and FY24 respectively (vs 5% and 4.6% for broader Emerging Asia).

Over the past decade, the Indian government has been proactive in promoting structural reforms, and it has doubled down on policy support for domestic manufacturing since 2020. We recommend a moderate overweight in India within Emerging Markets (EM) portfolios with the following considerations:

- Indian equities are perennially expensive, but the premium is supported by consistent earnings outperformance in emerging markets (**Figure 24**), as well as growing interest from foreign investors.
- Indian equities are less correlated with China, more linked to the global economy (**Figure 27**).
- Prefer sectors that enjoy direct benefits from macro tailwinds, like electronic manufacturing, fintech, e-commerce, industrials, healthcare, semiconductors and renewable energy.
- We see currency risks as well-contained.

Figure 26: Outperformance of earnings growth supports a valuation premium of India

Figure 29: Indian equities are more correlated to the rest of the world than to China

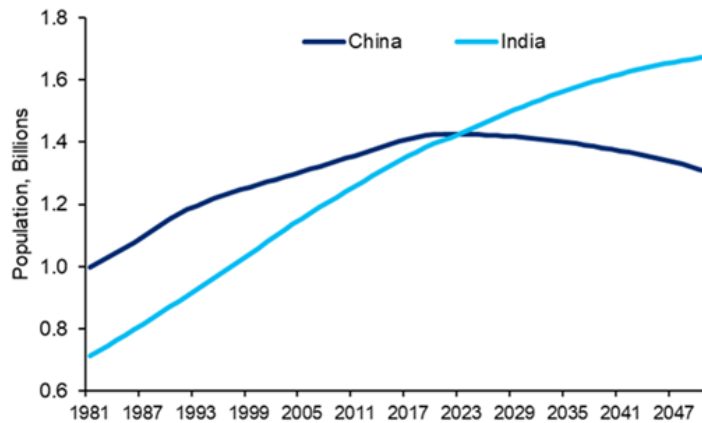


Source: Bloomberg as of August 11, 2023. Correlation is the extent to which the values of different types of investments move in tandem with one another in response to changing economic and market conditions. Correlation is measured on a scale of -1 to +1. Investments with a positive correlation tend to rise and fall in value at the same time, while investments with a negative correlation tend to move in opposite directions. An asset class has a correlation of 1 with itself. Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only and do not represent the performance of any specific investment. Index returns do not include any expenses, fees, or sales charges, which would lower performance. Past performance is no guarantee of future results. Real results may vary.

Demographic dividends

With its large and young population, India's demographic dividends are likely to be fuel for economic growth in the years to come. In contrast, China's net birth rate dipped below zero in 2022 after enjoying decades of demographic tailwinds since the 1980s. According to U.N. projections, India surpassed China to become the most populous country in the world this April and is set to contribute more to the global working age population than China in the next two years (**Figure 22**). The median age in India today is 28, roughly on par with the age of an average Chinese person in 2000, when China was on the verge of a strong decade for growth and private investment returns. A young and rising working class is critical for bolstering not only a nation's productivity, but also its middle class which is key for growth in overall consumption.

Figure 22: India has taken over China as the most populous nation in the world



Source: Haver Analytics as of August 11, 2023. All forecasts are expressions of opinion and are subject to change without notice and are not intended to be a guarantee of future events.

Structural reforms over the past decade are gaining momentum

2014/15: “Make in India” and “Digital India”

In an effort to capitalize on these demographic tailwinds, the Indian government has launched multiple reforms since President Modi took office in 2014, trying to follow China's export- and investment-driven playbook. Two of Modi's flagship programs include “Make in India” (promoting domestic manufacturing) and “Digital India” (promoting digitization across economy). As these initiatives build momentum, overall foreign direct investment in the last two years (\$104.8bn) grew to 1.7 times of that in 2014-2015 (\$60.8bn) when the “Make in India” was first introduced (**Figure 23**), though has moderated a bit recently.

Meanwhile, digital transactions in India have surged by 50% annually, which can be attributed to the rollout of “Digital India” in 2015 and further accelerated with the launch of the central bank-sponsored Unified Payment Interface (UPI), an open, free and instant transfer platform using fintech apps. In 2022, \$1.5 trillion of digital transactions have been recorded, equivalent to one third of the nation's GDP. This rapid digital adoption in India is likely to unlock growth potential for broad industries, such as fintech, e-commerce, healthcare, education, etc.

2020: Production Linked Incentive (PLI) scheme

In April 2020, the government doubled down on its manufacturing push by introducing Production-Linked Incentive (PLI) scheme, a cornerstone of the “Make in India” program. The scheme provides incentives that link to investment and industrial production in certain areas, aiming to boost exports, reduce import reliance, encourage job creation, and enhance productivity for domestic manufacturing over the long run. The PLIs initially covered 3 sectors and are now available to 14 key manufacturing sectors (See Appendix A in the end). For illustration purposes, sectors could be categorized into Renewable energy & EVs, Industrials and Digitalization, Healthcare and Semiconductors. Supply chains of these industries are the primary beneficiaries. More sectors are still expected to be included as the scheme evolves.

These schemes in aggregate stand at \$34bn in fiscal incentives (Citi Research: Three Years of PLI – Progress, Expectations and Challenges) with a time frame of four to six years. This would translate into a moderate annual fiscal outlay of around 1.3% of government expenditures in FY2022, with expected investment of \$60bn, or 9% of 2022 fixed capital expenditures. So far, over 700 applications have been approved.

In its third year, the PLI schemes have been bearing some fruit. According to Citi Research, at least \$6bn or 10% of the investment target has been achieved across sectors. So far, electronics manufacturing (largely mobile phones) and pharmaceuticals have seen the most visible progress. Exports of mobile phones have surged ~80% compound annual growth rate (CAGR) in the past 2 years whereas total Indian exports grew 22% CAGR (**Figure 24**). Although less impactful on exports, the investment in pharmaceuticals has achieved 85% of its entire target. The progress in these two sectors may be a result of the relatively mature ecosystems India has built over the past decade coupled with moderate technology capital expenditure (capex) requirements. We would expect related sectors to continue to benefit from ongoing PLI support, albeit at normalized growth rates.

Figure 23: Foreign Direct Investment has taken off since 2014

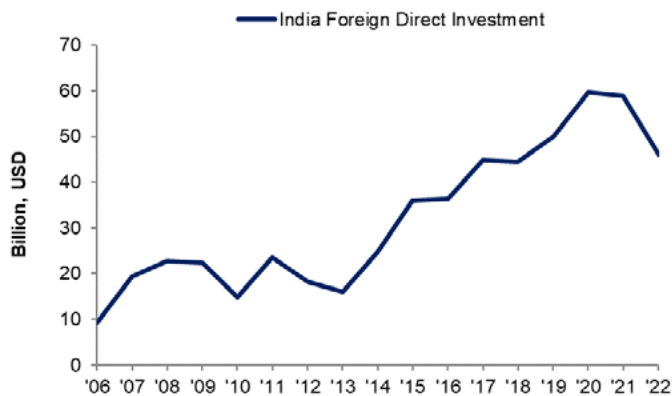
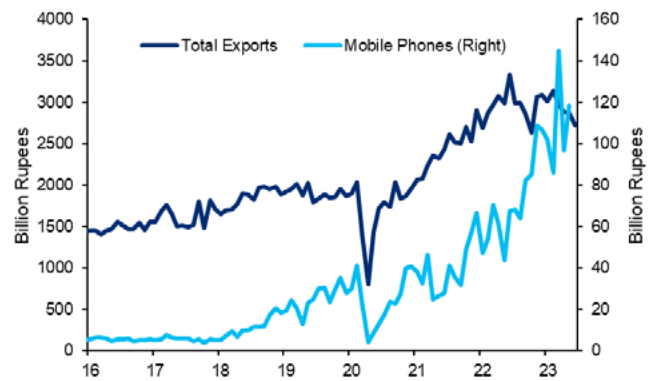


Figure 24: Exports of mobile phones surged 80% CAGR since 2021



Source: Haver Analytics as of August 11, 2023. Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only and do not represent the performance of any specific investment. Index returns do not include any expenses, fees or sales charges, which would lower performance. Past performance is no guarantee of future results. Real results may vary.

By contrast, semiconductors and EVs in India are still in their infancy stages as they still require heavy technology input and infrastructure capex. The lack of infrastructure for high-tech industries is often cited as a key hurdle for India to improve its manufacturing standing within Asia. Foxconn’s exit from India’s first semiconductor fabrications factory contract in July was the latest setback for India’s plan to boost its position in semi supply chains.

In any case, large fiscal incentives distributed to develop a local ecosystem for Semis (\$10bn) and Renewable energy (\$8bn) amid intensified US-China geopolitical tensions may attract foreign customers seeking an alternative manufacturing base. India has indeed become a popular candidate for multinational companies implementing a “China+1” production strategies in recent years. Several high-profile global tech giants have already announced plans to build factories and increase investment in India. We expect India’s partnership with foreign companies in strategically important industries to accelerate in the years to come.

Market timing: Is the hefty valuation worth all the hype?

Valuation appears perennially expensive...

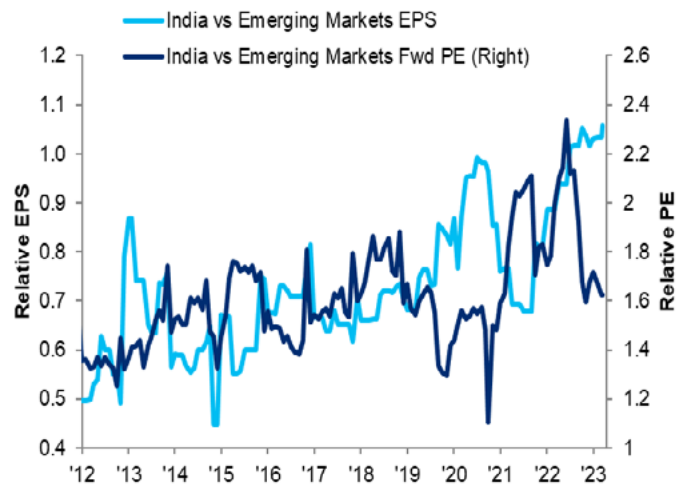
Markets have clearly taken note of India’s demographic tailwinds and structural reforms in recent years. The MSCI India Index has returned 73% in USD terms since April 2020 (vs 9% for MSCI EM), with 12% annualized earnings growth over the past three years (vs 4% for MSCI EM). Those sectors benefitting from structural tailwinds like Industrials, consumer discretionary, materials and IT have been the top gainers during this period (Figure 25).

The MSCI India Index has consistently trading at a premium to the broad emerging markets after bottoming out in 2020. Though valuations have improved meaningfully from their peak in October 2022 and now appear less stretched following the Adani crisis earlier this year, India is still trading at a 63% premium to emerging markets (Figure 26). Even compared to its own history, Indian valuations are close to one standard deviation above long-term average (Figure 27). Hefty valuations have been a consistent concern preventing international investors from raising exposure to India.

Figure 25: Sector price performance and earnings revision since Apr’20



Figure 26: Outperformance of earnings growth supports a valuation premium of India



Source: Bloomberg as of August 11, 2023. Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only and do not represent the performance of any specific investment. Index returns do not include any expenses, fees or sales charges, which would lower performance. Past performance is no guarantee of future results. Real results may vary.

...But the premium is supported by consistent earnings outperformance and foreign inflows

In the same way that US large caps justify a valuation premium with consistent earnings growth, Indian equities have consistently outperformed broad emerging markets over for the same reason. India's earnings relative to broad emerging markets have reached new highs in recent quarters (**Figure 27**). Markets now expect India's earnings to grow 22% and 18% in FY23 and FY24, much more robust than that of broader EM (-6% in FY23, 18% in FY24, MSCI consensus)

International allocations to India have yet to fully recognize the market's potential. Current positioning in India among Asian funds remains relatively low compared to China. That figure is even lower in global funds. But this trend seems to be reversing since 2020 (**Figure 28**). Consistent with India's recent outperformance, allocations to India in Asia ex-Japan funds have doubled since 2020 April to 14% today, while that to China has declined from 36% to 29% during the same period. In our view, India has the potential to attract more inflows in the coming years given favorable secular trends and lower geopolitical risk.

Figure 27: MSCI India forward (fwd) PE & EPS

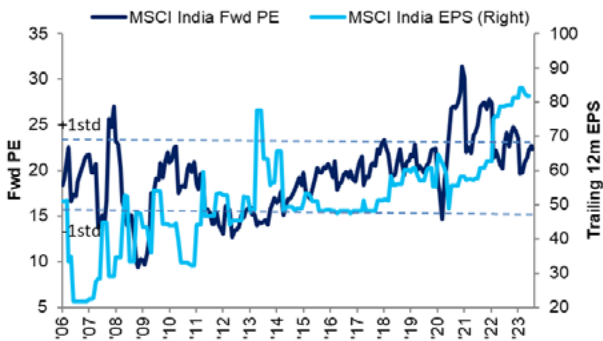


Figure 28: Allocation to India remains low, but has doubled since 2020



Source: Bloomberg and EPFR, as of August 11, 2023. Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only and do not represent the performance of any specific investment. Index returns do not include any expenses, fees, or sales charges, which would lower performance. Past performance is no guarantee of future results. Real results may vary. All forecasts are expressions of opinion and are subject to change without notice and are not intended to be a guarantee of future events.

Less correlated with China, more linked to the global economy

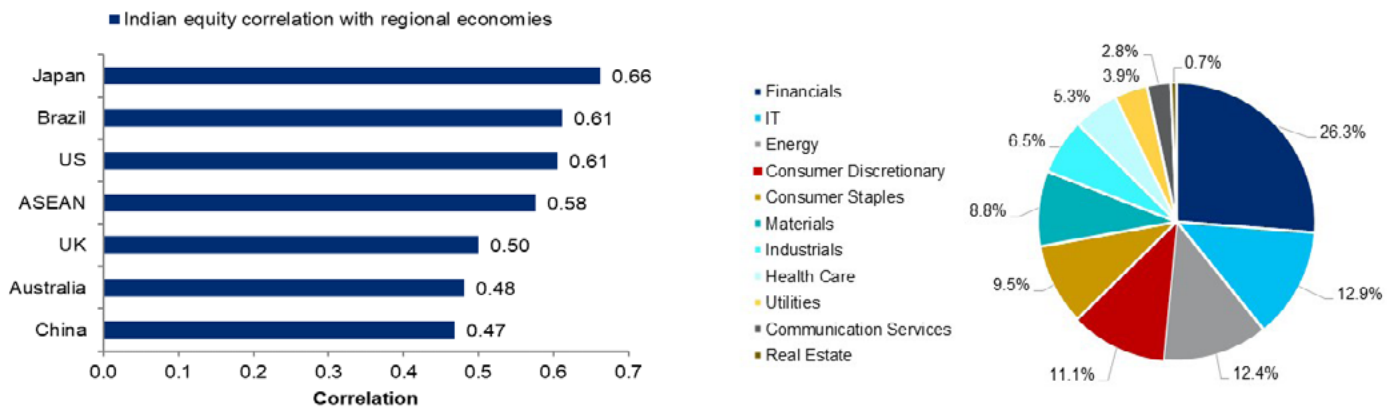
For international investors wary of China but still in need of diversification within Asia, India might fit the bill. Unlike the rest of Asia, Indian equities have historically showed a relatively low correlation with China and are more correlated with economies in the rest of the world (**Figure 29**). Since April, a stabilized US banking crisis, softening inflation and more-resilient-than-expected economic growth in developed markets have all played to India's favor. The market has since rebounded over 17% from March lows, outperforming emerging markets notably.

Falling oil prices since May 2022 were another global factor that contributing to India's outperformance. India is the third largest importer of crude oil globally. Falling energy-related input costs have boosted profit margins for industries relying on external energy supply. The relative performance of MSCI India vs MSCI ACWI has a mild negative correlation of -0.13 with oil prices since 2010 when the government de-controlled petroleum prices. This negative relationship intensified during recent episodes of oil price declines (-0.44 from Jun 2014 to Jan 2016 and -0.54 from May 2022 till today). Going forward, further energy price downside could continue to benefit Indian consumers, industrials, etc. In the meantime, however, headwinds from a potential rolling recession in the US and tight financial conditions globally could still put pressure on profit margins for companies with weak balance sheets, as well as those with demanding valuations.

Prefer sectors that enjoy direct benefits from macro tailwinds

Even for passive investors who tend to invest in benchmark indices, broad India offers great balance in sector allocations. MSCI India is well diversified across sectors, with weightings tilted towards major beneficiaries of structural reforms and demographic dividends (**Figure 30**). While the largest sector – financials -- may not appear to be a direct beneficiary, the rapid rise in Fintech within the sector thanks to accelerating digitalization is likely to enhance its earnings outlook. Similarly, high-tech manufacturing reforms, growth in renewable energy, digitalization and middle class consumption growth are likely to boost growth in major sectors like IT, Energy, Consumer Discretionary and Staples, etc. More broadly, productivity increases induced by “Make in India” and “Digital India” are likely to fundamentally improve the earnings profile for various sectors in the economy.

Figure 29: Indian equities are more correlated to the rest of the world than to China **Figure 30:** Sector weights of MSCI India Index



Source: Bloomberg, Haver Analytics, and MSCI as of August 11, 2023. Correlation is the extent to which the values of different types of investments move in tandem with one another in response to changing economic and market conditions. Correlation is measured on a scale of -1 to +1. Investments with a positive correlation tend to rise and fall in value at the same time, while investments with a negative correlation tend to move in opposite directions. An asset class has a correlation of 1 with itself. Indices are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only and do not represent the performance of any specific investment. Index returns do not include any expenses, fees, or sales charges, which would lower performance. Past performance is no guarantee of future results. Real results may vary.

Currency risks well-contained

As for currency risks, we think Indian Rupee (INR) should remain range-bound given the RBI's priority of maintaining stability, though risks are tilted towards upside if a soft-landing setup in the US plays out. INR depreciated 15% during the pandemic but has stabilized between 81 to 83 for the past year, largely because of the RBI's currency management. Economic tailwinds and policy support are likely to narrow the current account deficit in certain industries. This would set the currency in a favorable position relative to other emerging markets and provide confidence for international investors.

Overall, we believe India will continue to benefit from structural tailwinds, but as always would caution against chasing companies with stretched valuations in the near term. We prefer to implement our moderate overweight to Indian equities via quality names in favorable sectors and look to any corrections as an opportunity to accumulate positions for medium to long term portfolios.

Appendix A. Production Linked Incentive (PLI) schemes and related programs

Sector	Fiscal outlay (USD bn)	Investment expectation (USD bn)
Renewable Energy and EVs	8.21	24.77
Auto & Auto components for EVs	3.13	8.17
Solar panels modules	2.90	13.34
Advance Chemistry Cell (ACC) battery storage	2.19	3.26
Industrials and Digitalization	9.99	6.50
Telecom and Networking products	1.47	0.43
Large-scale electronic manufacturing (mobile phones & elec components)	4.94	1.40
IT hardware (Laptops, PCs, etc)	2.05	0.30
Drones and drone components	0.01	N.A.
White Goods (Air conditioners & LED)	0.75	0.80
Specialty steel	0.76	3.56
Healthcare	3.05	2.72
Pharmaceuticals	2.64	2.60
Manufacturing of medical devices	0.41	0.13
Semiconductors	10.03	23.41
Others	2.61	3.13
Textile	1.29	2.39
Food processing	1.32	0.74
Total (USD bn)	33.9	60.5
Total (INR bn)	2808	5014

Source: Citi Global Wealth, Citi Research, PIB, Government Ministries. As of August 8, 2023. All forecasts are expressions of opinion and are subject to change without notice and are not intended to be a guarantee of future events.

Portfolio allocations

This section shows the strategic and tactical asset allocations. The Global Asset Allocation (GAA) team creates strategic asset allocations (SAAs) using the [CPB Adaptive Valuations Strategy](#) (AVS) methodology on an annual basis. Global Investment Committee (GIC) provides underweight and overweight decisions to AVS's Global USD without Hedge Funds Risk Level 1 through Level 5 portfolios. GAA team then creates tactical allocations for all other profiles or subprofiles such as Global USD with Hedge Funds and Illiquids PE & RE Level 2 through Level 5 portfolios. These sample portfolios included below reflect 2023 SAAs and the tactical over/under weights expressed at the August 23, 2023 GIC meeting.

Global USD with Hedge Funds and 15% Illiquids (PE & RE): Risk Level 2

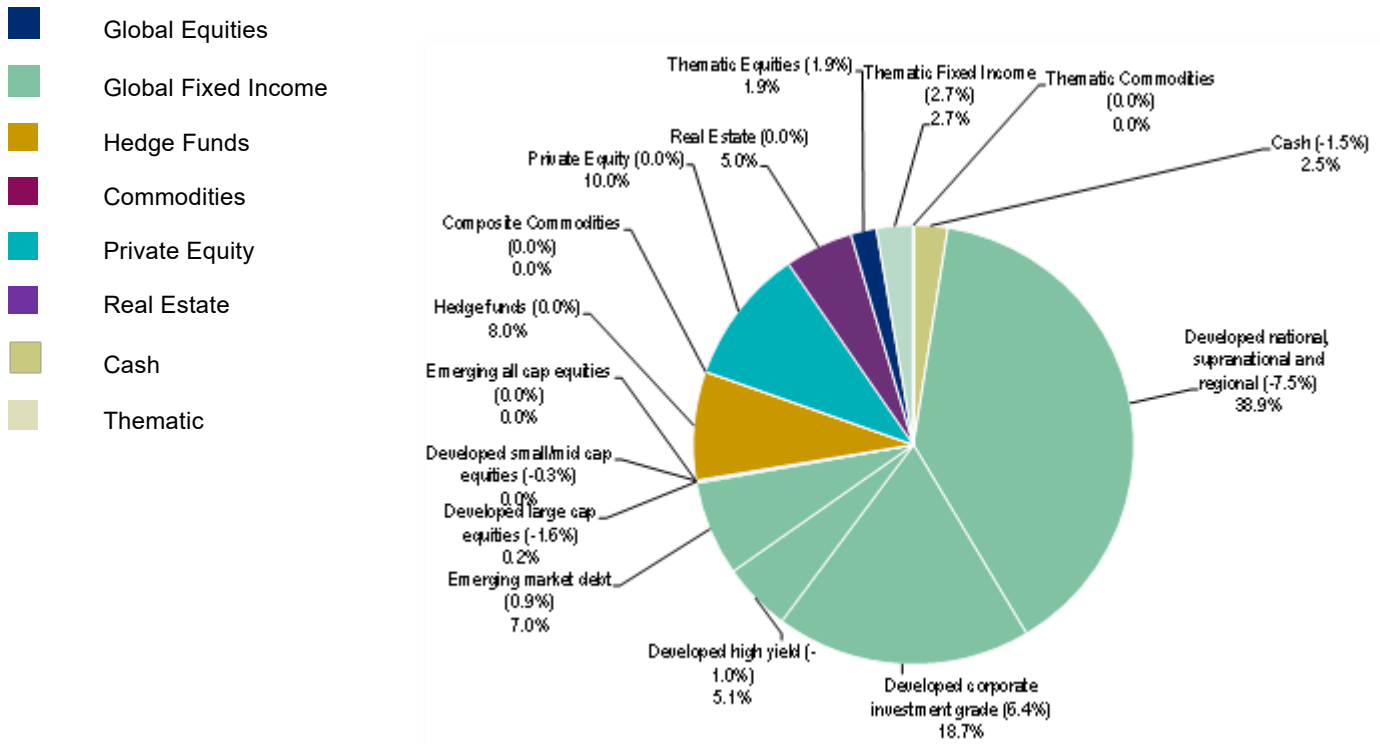
Risk Level 2 is designed for investors who emphasize capital preservation over return on investment, but who are willing to subject some portion of their principal to increased risk in order to generate a potentially greater rate of return on investment.

Classification	Strategic (%)	Tactical* (%)	Active (%)
Cash	4.0	2.5	-1.5
Fixed Income	70.9	72.4	1.5
Developed Investment Grade	58.7	57.7	-1.0
US	36.4	46.9	10.5
Government	16.3	18.5	2.2
Inflation-Linked	2.2	2.4	0.2
Short	4.7	5.0	0.3
Intermediate	6.8	6.9	0.2
Long	2.5	4.1	1.6
Securitized	11.7	12.8	1.2
Credit	8.5	15.7	7.1
Short	1.5	2.7	1.3
Intermediate	4.7	10.6	5.9
Long	2.3	2.3	0.0
Europe	17.0	9.0	-8.0
Government	13.2	5.9	-7.3
Credit	3.8	3.1	-0.7
Australia	0.4	0.4	0.0
Government	0.4	0.4	0.0
Japan	4.9	1.4	-3.5
Government	4.9	1.4	-3.5
Developed High Yield	6.1	5.1	-1.0
US	4.6	4.1	-0.5
Europe	1.5	0.9	-0.5
Emerging Market Debt	6.1	7.0	0.9
Asia	1.0	1.7	0.7
Local currency	0.5	0.5	-0.0
Foreign currency	0.5	1.2	0.7
EMEA	3.1	2.4	-0.7
Local currency	1.5	0.7	-0.8
Foreign currency	1.5	1.7	0.2
LatAm	2.0	2.8	0.8
Local currency	1.0	1.0	-0.0
Foreign currency	1.0	1.8	0.8
Thematic Fixed Income	0.0	2.7	2.7
US Bank Loans	0.0	0.0	0.0
Preferreds	0.0	2.7	2.7
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0

Classification	Strategic (%)	Tactical* (%)	Active (%)
Equities	2.1	2.1	0.0
Developed Equities	2.1	0.2	-1.9
Developed Large Cap Equities	1.8	0.2	-1.6
US	1.3	0.1	-1.2
Canada	0.1	0.0	-0.1
UK	0.1	0.0	-0.1
Switzerland	0.1	0.0	-0.0
Europe ex UK ex Switzerland	0.2	0.0	-0.1
Asia ex Japan	0.1	0.0	-0.1
Japan	0.1	0.0	-0.1
Developed Small/Mid Cap Equities	0.3	0.0	-0.3
US	0.2	0.0	-0.1
Non-US	0.1	0.0	-0.1
Emerging All Cap Equities	0.0	0.0	0.0
Asia	0.0	0.0	0.0
China	0.0	0.0	0.0
Asia (ex China)	0.0	0.0	0.0
EMEA	0.0	0.0	0.0
LatAm	0.0	0.0	0.0
Brazil	0.0	0.0	0.0
LatAm ex Brazil	0.0	0.0	0.0
Thematic Equities	0.0	1.9	1.9
Global Equity REITs	0.0	0.0	0.0
US Mortgage REITs	0.0	0.0	0.0
Global Healthcare	0.0	0.0	0.0
Global Pharma	0.0	0.0	0.0
Cyber Security	0.0	0.0	0.0
Fintech	0.0	0.0	0.0
Natural Resources	0.0	0.0	0.0
Oil Services	0.0	0.0	0.0
Equal-Weighted S&P 500	0.0	0.0	0.0
Commodities	0.0	1.9	1.9
Composite Commodities	0.0	0.0	0.0
Thematic Commodities	0.0	0.0	0.0
Gold	0.0	0.0	0.0
Thematic 2	0.0	0.0	0.0
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0
Hedge Funds	8.0	8.0	0.0
Private Equity	10.0	10.0	0.0
Real Estate	5.0	5.0	0.0
Total	100.0	100.0	0.0

Active = the difference between tactical and strategic allocations. Minor differences may result due to rounding.

Global USD with Hedge Funds and 15% Illiquids (PE & RE): Risk Level 2 - Tactical Allocations



Figures in brackets are active allocations. All allocations are subject to change at discretion of the GIC of the Citi Private Bank.

Core Positions

Global equities have a neutral position, global fixed income has an overweight of +1.5%, cash has an underweight of -1.5%.

Within equities, developed large cap equities have an underweight of -1.6% and developed small/mid cap equities have an overweight of -0.3%. Emerging market equities have neutral positions and Thematic equities have an overweight of +1.9%.

Within fixed income, developed investment grade has an underweight position of -1.0%; developed high yield has an underweight position of -1.0% and emerging market debt has an overweight position of +0.9%. Thematic fixed income has an overweight of +2.7%.

Hedge Fund allocation in the tactical portfolio is 8%. Private Equity and Real Estate allocations are 10% and 5%, respectively. All these three asset classes positionings are neutral.

Global USD with Hedge Funds and 15% Illiquids (PE & RE): Risk Level 3

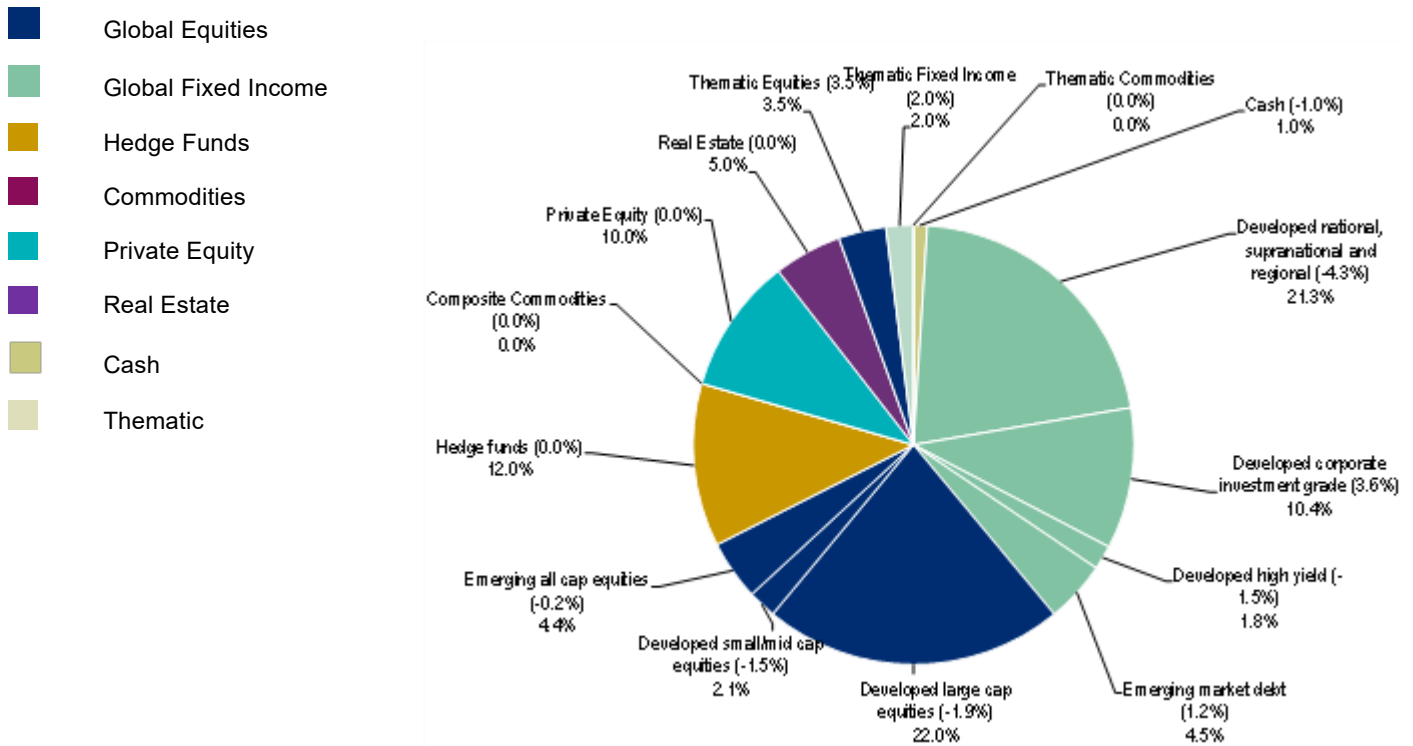
Risk Level 3 is designed for investors with a blended objective who require a mix of assets and seek a balance between investments that offer income and those positioned for a potentially higher return on investment. Risk Level 3 may be appropriate for investors willing to subject their portfolio to additional risk for potential growth in addition to a level of income reflective of his/her stated risk tolerance

Classification	Strategic (%)	Tactical* (%)	Active (%)
Cash	2.0	1.0	-1.0
Fixed Income	39.0	40.0	1.0
Developed Investment Grade	32.4	31.7	-0.7
US	20.1	30.0	9.9
Government	9.0	14.6	5.6
Inflation-Linked	1.2	2.3	1.0
Short	2.6	3.6	1.0
Intermediate	3.7	5.8	2.0
Long	1.4	2.9	1.5
Securitized	6.4	6.1	-0.3
Credit	4.7	9.3	4.6
Short	0.8	1.8	1.0
Intermediate	2.6	6.2	3.6
Long	1.3	1.3	0.0
Europe	9.4	1.5	-7.9
Government	7.3	0.4	-6.9
Credit	2.1	1.1	-1.0
Australia	0.2	0.2	0.0
Government	0.2	0.2	0.0
Japan	2.7	0.0	-2.7
Government	2.7	0.0	-2.7
Developed High Yield	3.3	1.8	-1.5
US	2.5	1.5	-1.0
Europe	0.8	0.3	-0.5
Emerging Market Debt	3.3	4.5	1.2
Asia	0.6	0.8	0.3
Local currency	0.3	0.0	-0.3
Foreign currency	0.3	0.8	0.5
EMEA	1.7	1.8	0.1
Local currency	0.8	0.1	-0.8
Foreign currency	0.8	1.8	0.9
LatAm	1.1	1.9	0.8
Local currency	0.5	0.5	0.0
Foreign currency	0.5	1.4	0.8
Thematic Fixed Income	0.0	2.0	2.0
US Bank Loans	0.0	0.0	0.0
Preferreds	0.0	2.0	2.0
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0

Classification	Strategic (%)	Tactical* (%)	Active (%)
Equities	32.0	32.0	0.0
Developed Equities	27.4	24.1	-3.3
Developed Large Cap Equities	23.9	22.0	-1.9
US	16.8	15.1	-1.7
Canada	0.9	0.9	-0.0
UK	1.0	1.0	-0.1
Switzerland	0.7	0.6	-0.0
Europe ex UK ex Switzerland	2.1	2.2	0.1
Asia ex Japan	0.8	0.8	-0.0
Japan	1.5	1.4	-0.1
Developed Small/Mid Cap Equities	3.5	2.1	-1.5
US	2.1	2.0	-0.1
Non-US	1.5	0.1	-1.3
Emerging All Cap Equities	4.6	4.4	-0.2
Asia	3.8	3.8	0.0
China	1.3	1.2	-0.1
Asia (ex China)	2.5	2.6	0.1
EMEA	0.3	0.1	-0.2
LatAm	0.5	0.5	-0.0
Brazil	0.3	0.3	-0.0
LatAm ex Brazil	0.2	0.2	-0.0
Thematic Equities	0.0	3.5	3.5
Global Equity REITs	0.0	0.0	0.0
US Mortgage REITs	0.0	0.0	0.0
Global Healthcare	0.0	0.0	0.0
Global Pharma	0.0	0.0	0.0
Cyber Security	0.0	1.0	1.0
Fintech	0.0	0.0	0.0
Natural Resources	0.0	0.0	0.0
Oil Services	0.0	0.0	0.0
Equal-Weighted S&P 500	0.0	2.5	2.5
Commodities	0.0	0.0	0.0
Composite Commodities	0.0	0.0	0.0
Thematic Commodities	0.0	0.0	0.0
Gold	0.0	0.0	0.0
Thematic 2	0.0	0.0	0.0
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0
Hedge Funds	12.0	12.0	0.0
Private Equity	10.0	10.0	0.0
Real Estate	5.0	5.0	0.0
Total	100.0	100.0	0.0

Active = the difference between tactical and strategic allocations. Minor differences may result due to rounding.

Global USD with Hedge Funds and 15% Illiquids (PE & RE): Risk Level 3 - Tactical Allocations



Figures in brackets are active allocations. All allocations are subject to change at discretion of the GIC of the Citi Private Bank.

Core Positions

Global equities have a neutral position, global fixed income has an overweight of +1.0%, cash has an underweight of -1.0%.

Within equities, developed large cap equities have an underweight of -1.9% and developed small/mid cap equities have an underweight of -1.5%. Emerging market equities have an underweight of -0.2%. Thematic equities have an overweight position +3.5%.

Within fixed income, developed investment grade has an underweight position of -0.7%; developed high yield has an underweight position of -1.5% and emerging market debt has an overweight position of +1.2%. Thematic fixed income has an overweight of +2.0%.

Hedge Fund allocation in the tactical portfolio is 12%. Private Equity and Real Estate allocations are 10% and 5%, respectively. All these three asset classes positionings are neutral.

Global USD with Hedge Funds and 15% Illiquids (PE & RE): Risk Level 4

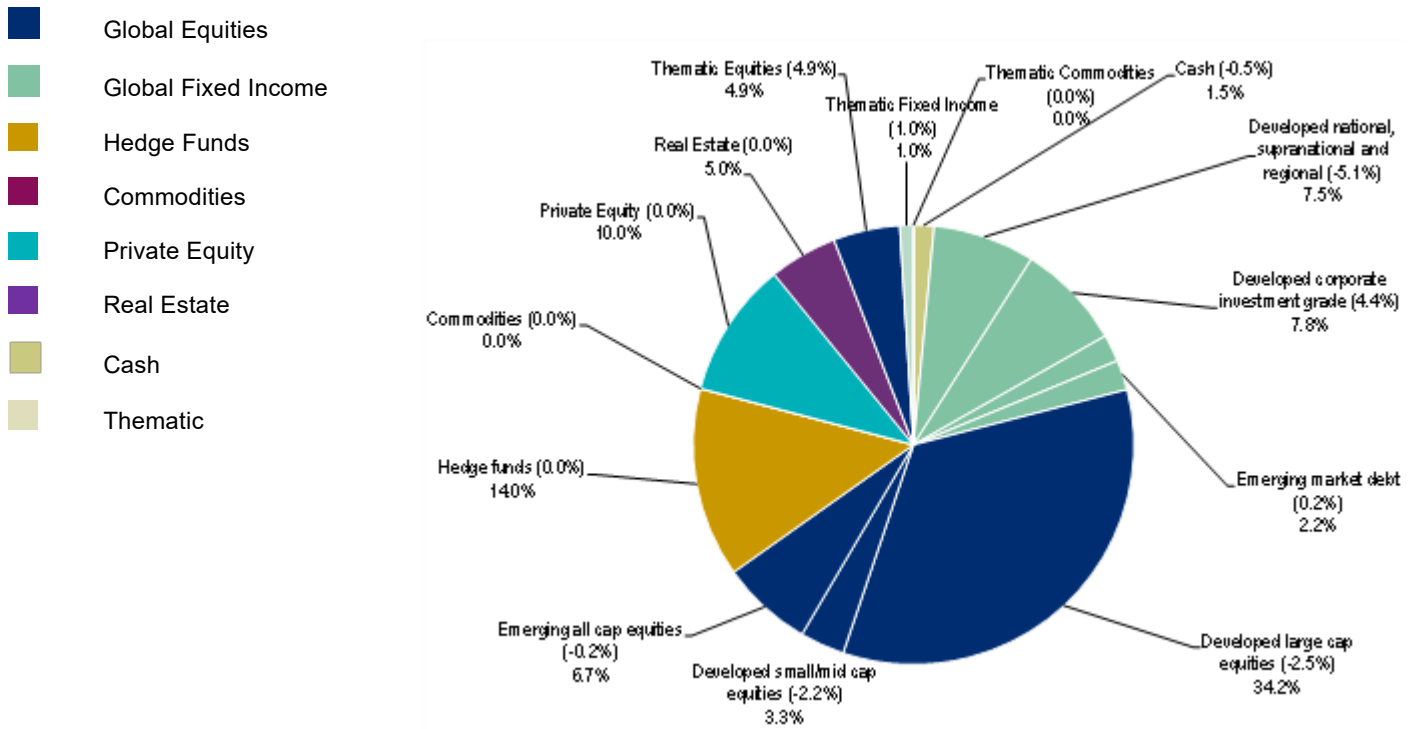
Risk Level 4 is designed for investors with a blended objective who require a mix of assets and seek a balance between investments that offer income and those positioned for a potentially higher return on investment. They are willing to subject a large portion of their portfolio to greater risk and market value fluctuations in anticipation of a potentially greater return on investment. Investors may have a preference for investments or trading strategies that may assume higher-than-normal market risks and/or potentially less liquidity with the goal (but not guarantee) of commensurate gains.

Classification	Strategic (%)	Tactical* (%)	Active (%)
Cash	2.0	1.5	-0.5
Fixed Income	20.0	20.5	0.5
Developed Investment Grade	16.0	15.3	-0.7
US	9.9	15.2	5.3
Government	4.4	7.2	2.8
Inflation-Linked	0.6	0.6	-0.0
Short	1.3	1.7	0.4
Intermediate	1.8	2.8	0.9
Long	0.7	2.2	1.5
Securitized	3.2	0.3	-2.9
Credit	2.3	7.7	5.4
Short	0.4	2.1	1.7
Intermediate	1.3	5.5	4.2
Long	0.6	0.1	-0.5
Europe	4.6	0.0	-4.6
Government	3.6	0.0	-3.6
Credit	1.0	0.0	-1.0
Australia	0.1	0.0	-0.1
Government	0.1	0.0	-0.1
Japan	1.3	0.0	-1.3
Government	1.3	0.0	-1.3
Developed High Yield	2.0	2.0	-0.0
US	1.5	1.5	-0.0
Europe	0.5	0.5	-0.0
Emerging Market Debt	2.0	2.2	0.2
Asia	0.3	0.6	0.3
Local currency	0.2	0.2	0.1
Foreign currency	0.2	0.4	0.2
EMEA	1.0	0.7	-0.3
Local currency	0.5	0.0	-0.5
Foreign currency	0.5	0.7	0.2
LatAm	0.6	0.9	0.3
Local currency	0.3	0.0	-0.3
Foreign currency	0.3	0.9	0.5
Thematic Fixed Income	0.0	1.0	1.0
US Bank Loans	0.0	0.0	0.0
Preferreds	0.0	1.0	1.0
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0

Classification	Strategic (%)	Tactical* (%)	Active (%)
Equities	49.1	49.1	0.0
Developed Equities	42.2	37.5	-4.7
Developed Large Cap Equities	36.8	34.2	-2.5
US	25.9	23.5	-2.4
Canada	1.4	1.3	-0.1
UK	1.6	1.5	-0.1
Switzerland	1.0	1.0	-0.0
Europe ex UK ex Switzerland	3.3	3.4	0.1
Asia ex Japan	1.3	1.2	-0.1
Japan	2.3	2.2	-0.1
Developed Small/Mid Cap Equities	5.5	3.3	-2.2
US	3.2	3.1	-0.1
Non-US	2.3	0.2	-2.1
Emerging All Cap Equities	6.9	6.7	-0.2
Asia	5.7	5.9	0.2
China	2.0	1.9	-0.1
Asia (ex China)	3.7	4.0	0.3
EMEA	0.4	0.1	-0.3
LatAm	0.8	0.7	-0.0
Brazil	0.5	0.5	-0.0
LatAm ex Brazil	0.3	0.3	-0.0
Thematic Equities	0.0	4.9	4.9
Global Equity REITs	0.0	0.0	0.0
US Mortgage REITs	0.0	0.0	0.0
Global Healthcare	0.0	0.0	0.0
Global Pharma	0.0	0.0	0.0
Cyber Security	0.0	1.4	1.4
Fintech	0.0	0.0	0.0
Natural Resources	0.0	0.0	0.0
Oil Services	0.0	0.0	0.0
Equal-Weighted S&P 500	0.0	3.5	3.5
Commodities	0.0	0.0	0.0
Composite Commodities	0.0	0.0	0.0
Thematic Commodities	0.0	0.0	0.0
Gold	0.0	0.0	0.0
Thematic 2	0.0	0.0	0.0
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0
Hedge Funds	14.0	14.0	0.0
Private Equity	10.0	10.0	0.0
Real Estate	5.0	5.0	0.0
Total	100.0	100.0	-0.0

Active = the difference between tactical and strategic allocations. Minor differences may result due to rounding.

Global USD with Hedge Funds and 15% Illiquids (PE & RE): Risk Level 4 - Tactical Allocations



Figures in brackets are active allocations. All allocations are subject to change at discretion of the GIC of the Citi Private Bank.

Core Positions

Global equities have a neutral position, global fixed income has an overweight of 0.5%, cash has an underweight of -0.5%.

Within equities, developed large cap equities have an underweight of -2.5% and developed small/mid cap equities have an underweight of -2.2%. Emerging market equities have an underweight of -0.2%. Thematic equities have an overweight position +4.9%.

Within fixed income, developed investment grade has an underweight position of -0.7%; developed high yield has a neutral position and emerging market debt has an overweight position of +0.2%. Thematic fixed income has an overweight of +1.0%.

Hedge Fund allocation in the tactical portfolio is 14%. Private Equity and Real Estate allocations are 10% and 5%, respectively. All these three asset classes positionings are neutral

Global USD with Hedge Funds and 15% Illiquids (PE & RE): Risk Level 5

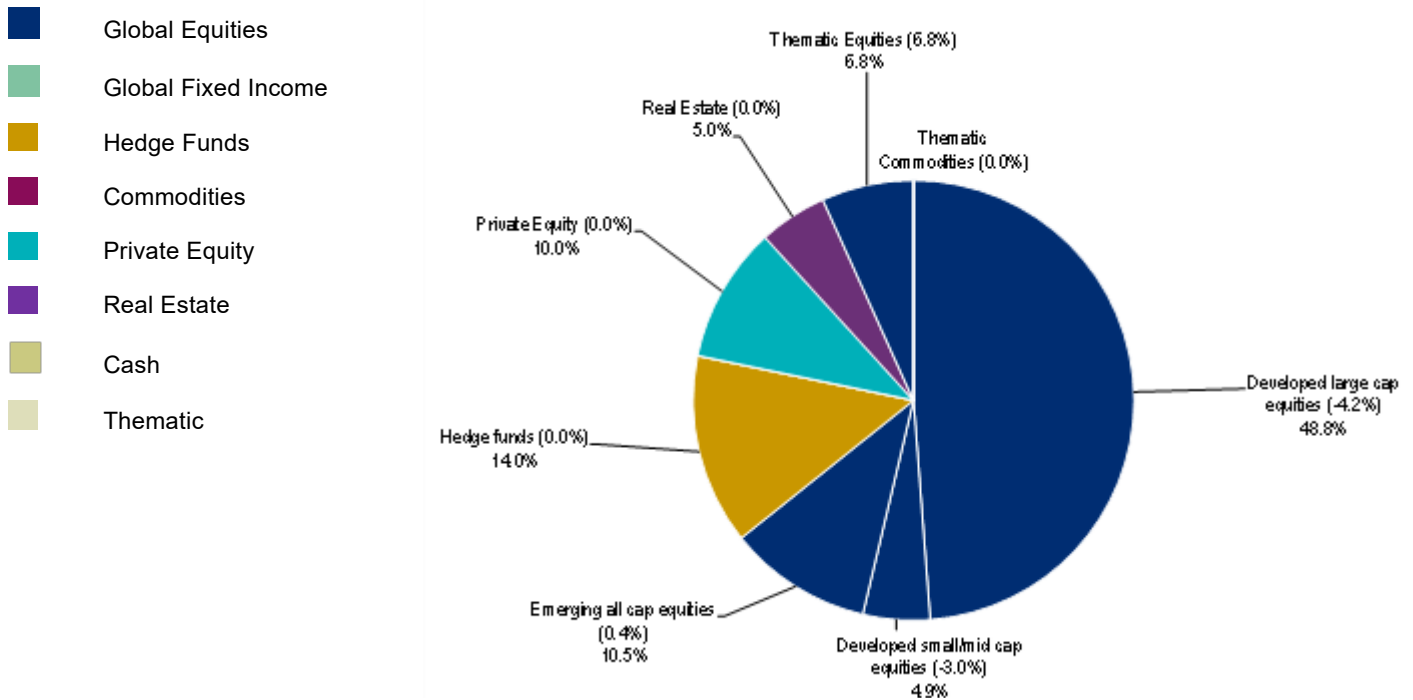
Risk Level 5 is designed for investors who emphasize return on investment. They are willing to subject their entire portfolio to greater risk and market value fluctuations in anticipation of a potentially greater return on investments. Investors may have a preference for investments or trading strategies that may assume higher than-normal market risks and/or potentially less liquidity with the goal (but not guarantee) of commensurate gains. Clients may engage in tactical or opportunistic trading, which may involve higher volatility and variability of returns.

Classification	Strategic (%)	Tactical* (%)	Active (%)
Cash	0.0	0.0	0.0
Fixed Income	0.0	0.0	0.0
Developed Investment Grade	0.0	0.0	0.0
US	0.0	0.0	0.0
Government	0.0	0.0	0.0
Inflation-Linked	0.0	0.0	0.0
Short	0.0	0.0	0.0
Intermediate	0.0	0.0	0.0
Long	0.0	0.0	0.0
Securitized	0.0	0.0	0.0
Credit	0.0	0.0	0.0
Short	0.0	0.0	0.0
Intermediate	0.0	0.0	0.0
Long	0.0	0.0	0.0
Europe	0.0	0.0	0.0
Government	0.0	0.0	0.0
Credit	0.0	0.0	0.0
Australia	0.0	0.0	0.0
Government	0.0	0.0	0.0
Japan	0.0	0.0	0.0
Government	0.0	0.0	0.0
Developed High Yield	0.0	0.0	0.0
US	0.0	0.0	0.0
Europe	0.0	0.0	0.0
Emerging Market Debt	0.0	0.0	0.0
Asia	0.0	0.0	0.0
Local currency	0.0	0.0	0.0
Foreign currency	0.0	0.0	0.0
EMEA	0.0	0.0	0.0
Local currency	0.0	0.0	0.0
Foreign currency	0.0	0.0	0.0
LatAm	0.0	0.0	0.0
Local currency	0.0	0.0	0.0
Foreign currency	0.0	0.0	0.0
Thematic Fixed Income	0.0	0.0	0.0
US Bank Loans	0.0	0.0	0.0
Preferreds	0.0	0.0	0.0
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0

Classification	Strategic (%)	Tactical* (%)	Active (%)
Equities	71.0	71.0	-0.0
Developed Equities	60.8	53.7	-7.1
Developed Large Cap Equities	53.0	48.8	-4.2
US	37.3	33.1	-4.2
Canada	2.0	2.0	-0.1
UK	2.3	2.2	-0.1
Switzerland	1.5	1.4	-0.0
Europe ex UK ex Switzerland	4.7	5.0	0.3
Asia ex Japan	1.8	1.8	-0.1
Japan	3.3	3.2	-0.1
Developed Small/Mid Cap Equities	7.9	4.9	-3.0
US	4.6	4.4	-0.1
Non-US	3.3	0.5	-2.8
Emerging All Cap Equities	10.2	10.5	0.4
Asia	8.4	9.2	0.8
China	2.9	2.8	-0.1
Asia (ex China)	5.5	6.4	0.9
EMEA	0.6	0.2	-0.4
LatAm	1.1	1.1	-0.0
Brazil	0.7	0.7	-0.0
LatAm ex Brazil	0.4	0.4	-0.0
Thematic Equities	0.0	6.8	6.8
Global Equity REITs	0.0	0.0	0.0
US Mortgage REITs	0.0	0.0	0.0
Global Healthcare	0.0	0.0	0.0
Global Pharma	0.0	0.0	0.0
Cyber Security	0.0	1.5	1.5
Fintech	0.0	0.0	0.0
Natural Resources	0.0	0.0	0.0
Oil Services	0.0	0.0	0.0
Equal-Weighted S&P 500	0.0	5.3	5.3
Commodities	0.0	0.0	0.0
Composite Commodities	0.0	0.0	0.0
Thematic Commodities	0.0	0.0	0.0
Gold	0.0	0.0	0.0
Thematic 2	0.0	0.0	0.0
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0
Hedge Funds	14.0	14.0	0.0
Private Equity	10.0	10.0	0.0
Real Estate	5.0	5.0	0.0
Total	100.0	100.0	0.0

Active = the difference between tactical and strategic allocations. Minor differences may result due to rounding.

Global USD with Hedge Funds and 15% Illiquids (PE & RE): Risk Level 5 - Tactical Allocations



Figures in brackets are active allocations. All allocations are subject to change at discretion of the GIC of the Citi Private Bank.

Core Positions

Global equities, global fixed income as well as cash are all at an overall neutral position.

Within equities, developed large cap equities have an underweight of -4.2% and developed small/mid cap equities have an underweight of -3.0%. Emerging market equities have an overweight of +0.4%. Thematic equities have an overweight position +6.8%.

Within fixed income, developed government debt, developed corporate investment grade, developed high yield and emerging market debt are all at neutral position.

Hedge Fund allocation in the tactical portfolio is 14%. Private Equity and Real Estate allocations are 10% and 5%, respectively. All these three asset classes positionings are neutral.

Global USD without Hedge Funds: Risk Level 1

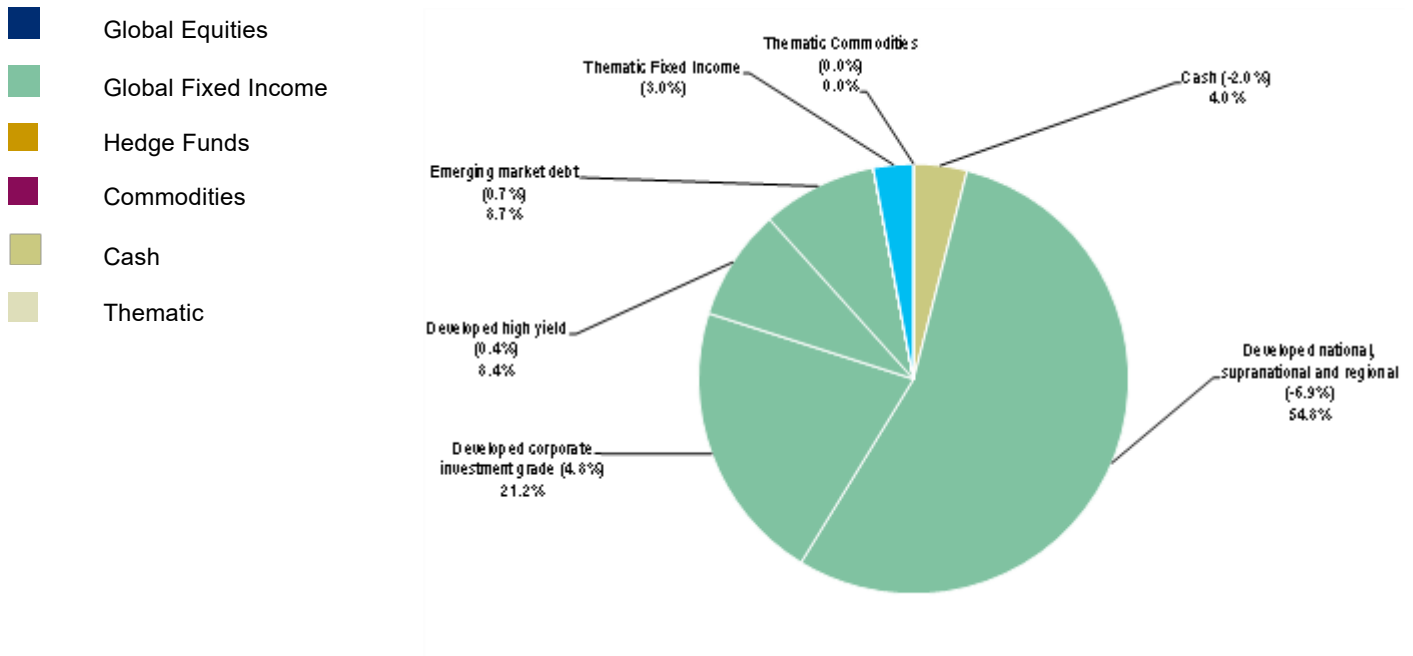
Risk Level 1 is designed for investors who have a preference for capital preservation and relative safety over the potential for a return on investment. These investors prefer to hold cash, time deposits and/or lower risk fixed income instruments.

Classification	Strategic (%)	Tactical* (%)	Active (%)
Cash	6.0	4.0	-2.0
Fixed Income	94.0	96.0	2.0
Developed Investment Grade	78.0	75.9	-2.1
US	48.4	57.5	9.1
Government	21.6	24.2	2.6
Inflation-Linked	3.0	2.8	-0.2
Short	6.3	8.1	1.8
Intermediate	9.0	8.0	-1.0
Long	3.4	5.4	2.0
Securitized	15.5	17.0	1.5
Credit	11.3	16.3	5.0
Short	1.9	2.9	1.0
Intermediate	6.3	10.3	4.0
Long	3.1	3.1	0.0
Europe	22.6	14.9	-7.7
Government	17.5	10.0	-7.5
Credit	5.1	4.9	-0.2
Australia	0.5	0.5	0.0
Government	0.5	0.5	0.0
Japan	6.5	3.0	-3.5
Government	6.5	3.0	-3.5
Developed High Yield	8.0	8.4	0.4
US	6.1	5.4	-0.7
Europe	1.9	3.0	1.1
Emerging Market Debt	8.0	8.7	0.7
Asia	1.4	2.1	0.7
Local currency	0.7	0.6	-0.1
Foreign currency	0.7	1.5	0.8
EMEA	4.0	3.3	-0.8
Local currency	2.0	1.3	-0.8
Foreign currency	2.0	2.0	0.0
LatAm	2.6	3.3	0.7
Local currency	1.3	1.3	0.0
Foreign currency	1.3	2.0	0.7
Thematic Fixed Income	0.0	3.0	3.0
US Bank Loans	0.0	0.0	0.0
Preferreds	0.0	3.0	3.0
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0

Classification	Strategic (%)	Tactical* (%)	Active (%)
Equities	0.0	0.0	0.0
Developed Equities	0.0	0.0	0.0
Developed Large Cap Equities	0.0	0.0	0.0
US	0.0	0.0	0.0
Canada	0.0	0.0	0.0
UK	0.0	0.0	0.0
Switzerland	0.0	0.0	0.0
Europe ex UK ex Switzerland	0.0	0.0	0.0
Asia ex Japan	0.0	0.0	0.0
Japan	0.0	0.0	0.0
Developed Small/Mid Cap Equities	0.0	0.0	0.0
US	0.0	0.0	0.0
Non-US	0.0	0.0	0.0
Emerging All Cap Equities	0.0	0.0	0.0
Asia	0.0	0.0	0.0
China	0.0	0.0	0.0
Asia (ex China)	0.0	0.0	0.0
EMEA	0.0	0.0	0.0
LatAm	0.0	0.0	0.0
Brazil	0.0	0.0	0.0
LatAm ex Brazil	0.0	0.0	0.0
Thematic Equities	0.0	0.0	0.0
Global Equity REITs	0.0	0.0	0.0
US Mortgage REITs	0.0	0.0	0.0
Global Healthcare	0.0	0.0	0.0
Global Pharma	0.0	0.0	0.0
Cyber Security	0.0	0.0	0.0
Fintech	0.0	0.0	0.0
Natural Resources	0.0	0.0	0.0
Oil Services	0.0	0.0	0.0
Equal-Weighted S&P 500	0.0	0.0	0.0
Commodities	0.0	0.0	0.0
Composite Commodities	0.0	0.0	0.0
Thematic Commodities	0.0	0.0	0.0
Gold	0.0	0.0	0.0
Thematic 2	0.0	0.0	0.0
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0
Total	100.0	100.0	0.0

Active = the difference between tactical and strategic allocations. Minor differences may result due to rounding

Global USD without Hedge Funds: Risk Level 1 - Tactical Allocations



Figures in brackets are active allocations. All allocations are subject to change at discretion of the GIC of the Citi Private Bank.

Core Positions

Global equities have an overall neutral position, global fixed income has an overweight of +2.0% and cash has an underweight of -2.0%.

Within equities, developed large cap equities, developed small/mid cap equities and emerging market equities are all at neutral positions.

Within fixed income, developed investment grade debt has an underweight position of -2.1%; developed high yield has a slight overweight position of +0.4% and emerging market debt has an overweight position of +0.7%. Thematic fixed income has an overweight position of +3.0%.

Global USD without Hedge Funds: Risk Level 2

Risk Level 2 is designed for investors who emphasize capital preservation over return on investment, but who are willing to subject some portion of their principal to increased risk in order to generate a potentially greater rate of return on investment.

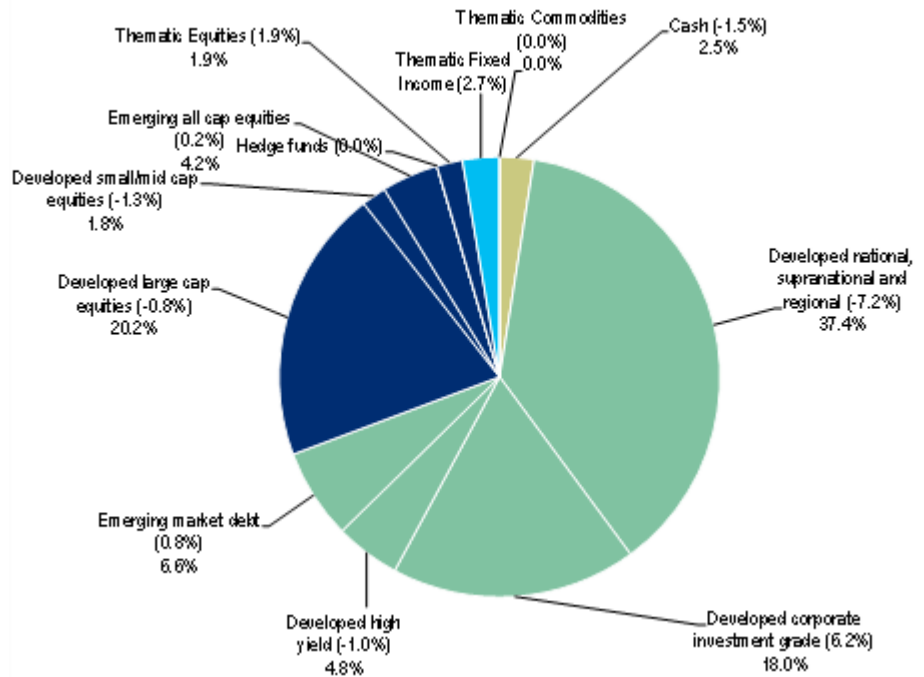
Classification	Strategic (%)	Tactical* (%)	Active (%)
Cash	4.0	2.5	-1.5
Fixed Income	68.0	69.5	1.5
Developed Investment Grade	56.4	55.4	-1.0
US	35.0	45.0	10.1
Government	15.6	17.7	2.1
Inflation-Linked	2.1	2.3	0.2
Short	4.6	4.8	0.3
Intermediate	6.5	6.6	0.2
Long	2.4	3.9	1.5
Securitized	11.2	12.3	1.1
Credit	8.2	15.0	6.9
Short	1.4	2.6	1.2
Intermediate	4.5	10.2	5.7
Long	2.3	2.3	0.0
Europe	16.3	8.7	-7.7
Government	12.7	5.7	-7.0
Credit	3.7	3.0	-0.7
Australia	0.4	0.4	0.0
Government	0.4	0.4	0.0
Japan	4.7	1.3	-3.4
Government	4.7	1.3	-3.4
Developed High Yield	5.8	4.8	-1.0
US	4.4	3.9	-0.5
Europe	1.4	0.9	-0.5
Emerging Market Debt	5.8	6.6	0.8
Asia	1.0	1.6	0.6
Local currency	0.5	0.5	-0.0
Foreign currency	0.5	1.1	0.6
EMEA	2.9	2.3	-0.6
Local currency	1.5	0.7	-0.8
Foreign currency	1.5	1.6	0.1
LatAm	1.9	2.7	0.8
Local currency	0.9	0.9	-0.0
Foreign currency	0.9	1.7	0.8
Thematic Fixed Income	0.0	2.7	2.7
US Bank Loans	0.0	0.0	0.0
Preferreds	0.0	2.7	2.7
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0

Classification	Strategic (%)	Tactical* (%)	Active (%)
Equities	28.0	28.0	0.0
Developed Equities	24.0	22.0	-2.0
Developed Large Cap Equities	20.9	20.2	-0.8
US	14.7	13.7	-1.0
Canada	0.8	0.8	0.0
UK	0.9	0.9	0.0
Switzerland	0.6	0.6	0.0
Europe ex UK ex Switzerland	1.9	2.1	0.2
Asia ex Japan	0.7	0.7	0.0
Japan	1.3	1.3	0.0
Developed Small/Mid Cap Equities	3.1	1.8	-1.3
US	1.8	1.8	0.0
Non-US	1.3	0.0	-1.3
Emerging All Cap Equities	4.0	4.2	0.2
Asia	3.3	3.7	0.4
China	1.1	1.1	-0.0
Asia (ex China)	2.2	2.6	0.4
EMEA	0.2	0.0	-0.2
LatAm	0.5	0.5	0.0
Brazil	0.3	0.3	0.0
LatAm ex Brazil	0.2	0.2	0.0
Thematic Equities	0.0	1.9	1.9
Global Equity REITs	0.0	0.0	0.0
US Mortgage REITs	0.0	0.0	0.0
Global Healthcare	0.0	0.0	0.0
Global Pharma	0.0	0.0	0.0
Cyber Security	0.0	0.0	0.0
Fintech	0.0	0.0	0.0
Natural Resources	0.0	0.0	0.0
Oil Services	0.0	0.0	0.0
Equal-Weighted S&P 500	0.0	1.9	1.9
Commodities	0.0	0.0	0.0
Composite Commodities	0.0	0.0	0.0
Thematic Commodities	0.0	0.0	0.0
Gold	0.0	0.0	0.0
Thematic 2	0.0	0.0	0.0
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0
Total	100.0	100.0	0.0

Active = the difference between tactical and strategic allocations. Minor differences may result due to rounding.

Global USD without Hedge Funds: Risk Level 2 - Tactical Allocations

- Global Equities
- Global Fixed Income
- Hedge Funds
- Commodities
- Cash
- Thematic



Figures in brackets are active allocations. All allocations are subject to change at discretion of the GIC of the Citi Private Bank.

Core Positions

Global equities have an overall neutral position, global fixed income has an overweight of +1.5% and cash has an underweight of -1.5%.

Within equities, developed large cap equities have an underweight position of -0.8% and developed small/mid cap equities have an underweight of -1.3%. Emerging market equities have an overweight of +0.2%. Thematic equities have an overweight of +1.9%.

Within fixed income, developed investment grade has an underweight position of -1.0%; developed high yield has an underweight position of -1.0% and emerging market debt has an overweight position of +0.8%. Thematic fixed income has an overweight position of +2.7%

Global USD without Hedge Funds: Risk Level 3

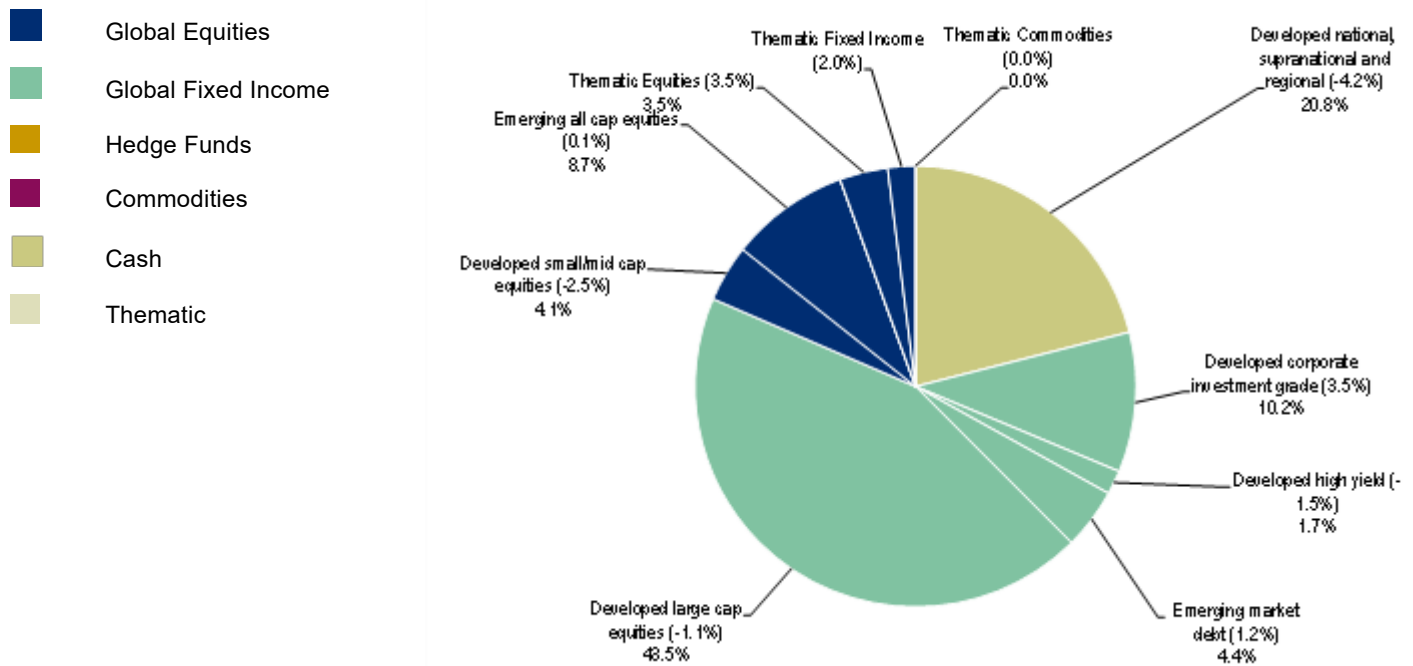
Risk Level 3 is designed for investors with a blended objective who require a mix of assets and seek a balance between investments that offer income and those positioned for a potentially higher return on investment. Risk Level 3 may be appropriate for investors willing to subject their portfolio to additional risk for potential growth in addition to a level of income reflective of his/her stated risk tolerance.

Classification	Strategic (%)	Tactical* (%)	Active (%)
Cash	2.0	1.0	-1.0
Fixed Income	38.1	39.1	1.0
Developed Investment Grade	31.7	31.0	-0.7
US	19.6	29.3	9.7
Government	8.8	14.3	5.5
Inflation-Linked	1.2	2.2	1.0
Short	2.6	3.6	1.0
Intermediate	3.6	5.6	2.0
Long	1.4	2.9	1.5
Securitized	6.3	6.0	-0.3
Credit	4.6	9.1	4.5
Short	0.8	1.8	1.0
Intermediate	2.5	6.0	3.5
Long	1.3	1.3	0.0
Europe	9.2	1.5	-7.7
Government	7.1	0.4	-6.7
Credit	2.1	1.1	-1.0
Australia	0.2	0.2	0.0
Government	0.2	0.2	0.0
Japan	2.7	0.0	-2.7
Government	2.7	0.0	-2.7
Developed High Yield	3.2	1.7	-1.5
US	2.5	1.5	-1.0
Europe	0.8	0.3	-0.5
Emerging Market Debt	3.2	4.4	1.2
Asia	0.6	0.8	0.2
Local currency	0.3	0.0	-0.3
Foreign currency	0.3	0.8	0.5
EMEA	1.6	1.8	0.1
Local currency	0.8	0.1	-0.8
Foreign currency	0.8	1.7	0.9
LatAm	1.0	1.8	0.8
Local currency	0.5	0.5	-0.0
Foreign currency	0.5	1.3	0.8
Thematic Fixed Income	0.0	2.0	2.0
US Bank Loans	0.0	0.0	0.0
Preferreds	0.0	2.0	2.0
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0

Classification	Strategic (%)	Tactical* (%)	Active (%)
Equities	59.9	59.9	0.0
Developed Equities	51.3	47.7	-3.6
Developed Large Cap Equities	44.7	43.5	-1.1
US	31.5	30.0	-1.5
Canada	1.7	1.7	0.0
UK	1.9	1.9	0.0
Switzerland	1.3	1.3	0.0
Europe ex UK ex Switzerland	4.0	4.3	0.4
Asia ex Japan	1.5	1.5	0.0
Japan	2.8	2.8	0.0
Developed Small/Mid Cap Equities	6.6	4.1	-2.5
US	3.9	3.9	0.0
Non-US	2.8	0.3	-2.5
Emerging All Cap Equities	8.6	8.7	0.1
Asia	7.1	7.6	0.5
China	2.5	2.5	-0.0
Asia (ex China)	4.6	5.1	0.5
EMEA	0.5	0.1	-0.4
LatAm	1.0	1.0	-0.0
Brazil	0.6	0.6	-0.0
LatAm ex Brazil	0.3	0.3	-0.0
Thematic Equities	0.0	3.5	3.5
Global Equity REITs	0.0	0.0	0.0
US Mortgage REITs	0.0	0.0	0.0
Global Healthcare	0.0	0.0	0.0
Global Pharma	0.0	0.0	0.0
Cyber Security	0.0	1.0	1.0
Fintech	0.0	0.0	0.0
Natural Resources	0.0	0.0	0.0
Oil Services	0.0	0.0	0.0
Equal-Weighted S&P 500	0.0	2.5	2.5
Commodities	0.0	0.0	0.0
Composite Commodities	0.0	0.0	0.0
Thematic Commodities	0.0	0.0	0.0
Gold	0.0	0.0	0.0
Thematic 2	0.0	0.0	0.0
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0
Total	100.0	100.0	0.0

Active = the difference between tactical and strategic allocations. Minor differences may result due to rounding.

Global USD without Hedge Funds: Risk Level 3 - Tactical Allocations



Figures in brackets are active allocations. All allocations are subject to change at discretion of the GIC of the Citi Private Bank.

Core Positions

Global equities have an overall neutral position, global fixed income has an overweight position of +1.0% and cash has an underweight position of -1.0%.

Within equities, developed large cap equities have an underweight position of -0.6% while developed small/mid cap equities have an underweight position of -2.5%. Emerging market equities have an overweight of +2.1%. Thematic equities have an overweight of +1.0%.

Within fixed income, developed investment grade debt has an underweight position of -0.7%; developed high yield has an underweight position of -1.5%; emerging market debt has an overweight position of +1.2%. Thematic fixed income has an overweight of +2.0%.

Global USD without Hedge Funds: Risk Level 4

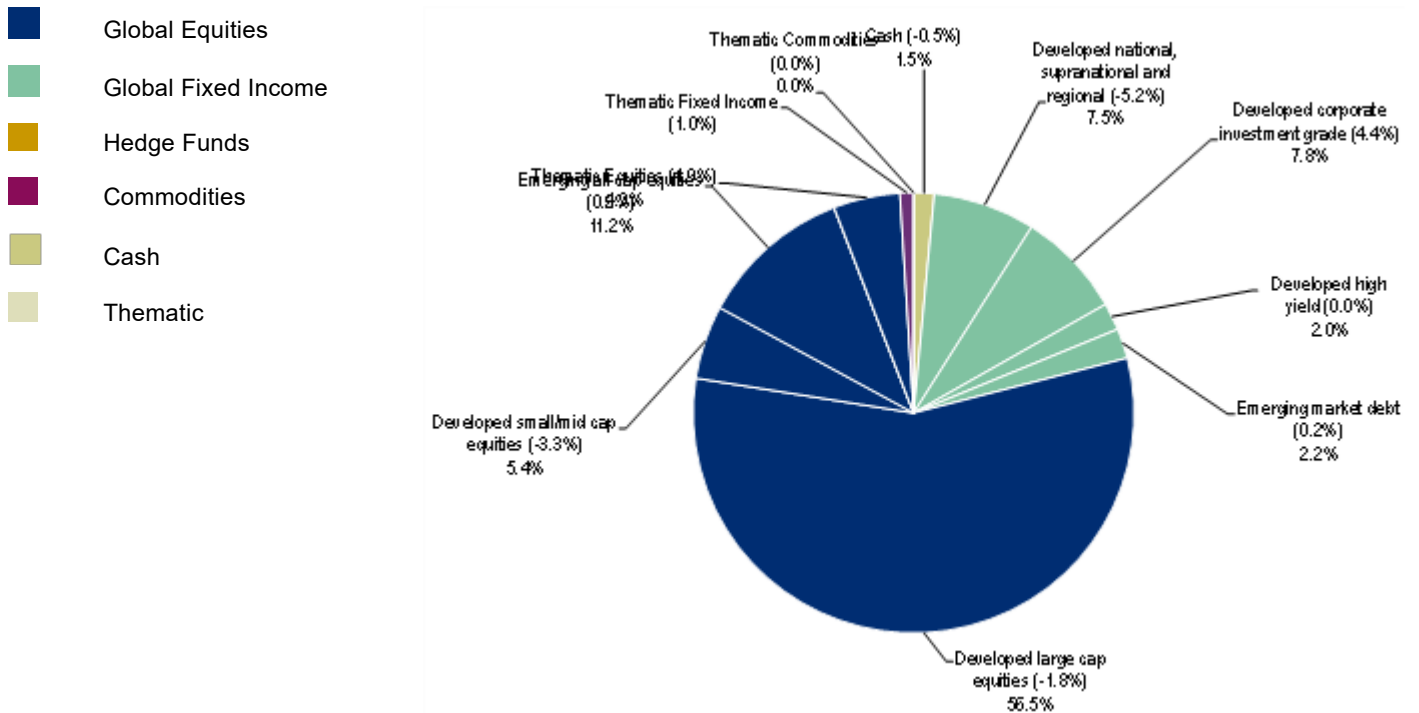
Risk Level 4 is designed for investors with a blended objective who require a mix of assets and seek a balance between investments that offer income and those positioned for a potentially higher return on investment. They are willing to subject a large portion of their portfolio to greater risk and market value fluctuations in anticipation of a potentially greater return on investment. Investors may have a preference for investments or trading strategies that may assume higher-than-normal market risks and/or potentially less liquidity with the goal (but not guarantee) of commensurate gains.

Classification	Strategic (%)	Tactical* (%)	Active (%)
Cash	2.0	1.5	-0.5
Fixed Income	20.0	20.5	0.5
Developed Investment Grade	16.0	15.3	-0.7
US	9.9	15.2	5.3
Government	4.4	7.2	2.8
Inflation-Linked	0.6	0.6	-0.0
Short	1.3	1.7	0.4
Intermediate	1.8	2.8	1.0
Long	0.7	2.2	1.5
Securitized	3.2	0.3	-2.9
Credit	2.3	7.8	5.4
Short	0.4	2.1	1.7
Intermediate	1.3	5.5	4.2
Long	0.6	0.1	-0.5
Europe	4.6	0.0	-4.6
Government	3.6	0.0	-3.6
Credit	1.0	0.0	-1.0
Australia	0.1	0.0	-0.1
Government	0.1	0.0	-0.1
Japan	1.3	0.0	-1.3
Government	1.3	0.0	-1.3
Developed High Yield	2.0	2.0	0.0
US	1.5	1.5	0.0
Europe	0.5	0.5	0.0
Emerging Market Debt	2.0	2.2	0.2
Asia	0.3	0.6	0.3
Local currency	0.2	0.2	0.1
Foreign currency	0.2	0.4	0.2
EMEA	1.0	0.7	-0.3
Local currency	0.5	0.0	-0.5
Foreign currency	0.5	0.7	0.2
LatAm	0.6	0.9	0.3
Local currency	0.3	0.0	-0.3
Foreign currency	0.3	0.9	0.5
Thematic Fixed Income	0.0	1.0	1.0
US Bank Loans	0.0	0.0	0.0
Preferreds	0.0	1.0	1.0
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0

Classification	Strategic (%)	Tactical* (%)	Active (%)
Equities	78.0	78.0	0.0
Developed Equities	67.0	61.9	-5.1
Developed Large Cap Equities	58.3	56.5	-1.8
US	41.1	38.8	-2.3
Canada	2.2	2.2	-0.0
UK	2.5	2.5	-0.0
Switzerland	1.6	1.6	-0.0
Europe ex UK ex Switzerland	5.2	5.6	0.4
Asia ex Japan	2.0	2.0	-0.0
Japan	3.7	3.7	-0.0
Developed Small/Mid Cap Equities	8.7	5.4	-3.3
US	5.0	5.0	-0.0
Non-US	3.6	0.4	-3.3
Emerging All Cap Equities	11.0	11.2	0.2
Asia	9.1	9.8	0.7
China	3.2	3.2	0.0
Asia (ex China)	6.0	6.7	0.7
EMEA	0.7	0.1	-0.5
LatAm	1.2	1.2	0.0
Brazil	0.8	0.8	0.0
LatAm ex Brazil	0.4	0.4	0.0
Thematic Equities	0.0	4.9	4.9
Global Equity REITs	0.0	0.0	0.0
US Mortgage REITs	0.0	0.0	0.0
Global Healthcare	0.0	0.0	0.0
Global Pharma	0.0	0.0	0.0
Cyber Security	0.0	1.4	1.4
Fintech	0.0	0.0	0.0
Natural Resources	0.0	0.0	0.0
Oil Services	0.0	0.0	0.0
Equal-Weighted S&P 500	0.0	3.5	3.5
Commodities	0.0	0.0	0.0
Composite Commodities	0.0	0.0	0.0
Thematic Commodities	0.0	0.0	0.0
Gold	0.0	0.0	0.0
Thematic 2	0.0	0.0	0.0
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0
Total	100.0	100.0	-0.0

Active = the difference between tactical and strategic allocations. Minor differences may result due to rounding.

Global USD without Hedge Funds: Risk Level 4 - Tactical Allocations



Figures in brackets are active allocations. All allocations are subject to change at discretion of the GIC of the Citi Private Bank.

Core Positions

Global equities have overall neutral position, global fixed income has an overweight of +0.5% and cash has an underweight of -0.5%.

Within equities, developed large cap equities have an underweight position of -1.1% and developed small/mid cap equities have an underweight position of -3.3%. Emerging market equities have an overweight of +2.9%. Thematic equities have an overweight position of +1.4%.

Within fixed income, developed investment grade debt has an underweight position of -0.7%; developed high yield has a neutral position and emerging market debt has an overweight position of 0.2%. Thematic fixed income has an overweight position of +1.0%.

Global USD without Hedge Funds: Risk Level 5

Risk Level 5 is designed for investors who emphasize return on investment. They are willing to subject their entire portfolio to greater risk and market value fluctuations in anticipation of a potentially greater return on investments. Investors may have a preference for investments or trading strategies that may assume higher than-normal market risks and/or potentially less liquidity with the goal (but not guarantee) of commensurate gains. Clients may engage in tactical or opportunistic trading, which may involve higher volatility and variability of returns.

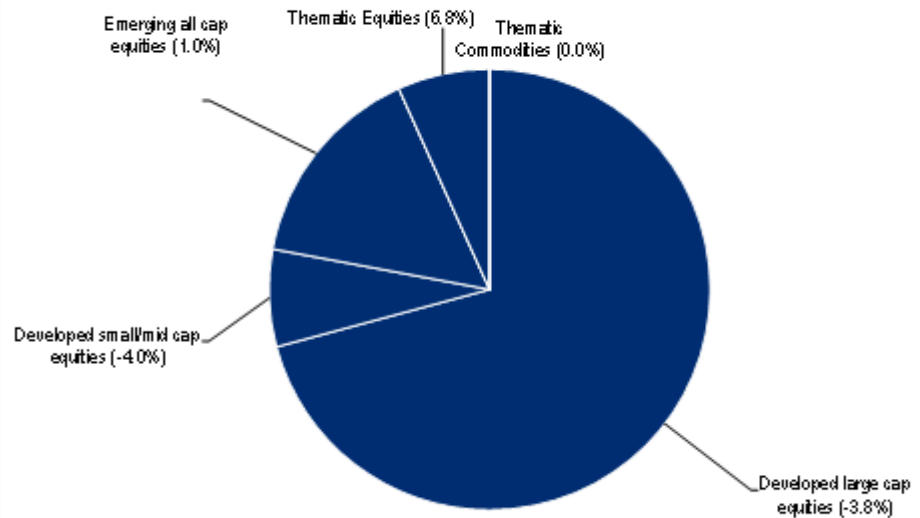
Classification	Strategic (%)	Tactical* (%)	Active (%)
Cash	0.0	0.0	0.0
Fixed Income	0.0	0.0	0.0
Developed Investment Grade	0.0	0.0	0.0
US	0.0	0.0	0.0
Government	0.0	0.0	0.0
Inflation-Linked	0.0	0.0	0.0
Short	0.0	0.0	0.0
Intermediate	0.0	0.0	0.0
Long	0.0	0.0	0.0
Securitized	0.0	0.0	0.0
Credit	0.0	0.0	0.0
Short	0.0	0.0	0.0
Intermediate	0.0	0.0	0.0
Long	0.0	0.0	0.0
Europe	0.0	0.0	0.0
Government	0.0	0.0	0.0
Credit	0.0	0.0	0.0
Australia	0.0	0.0	0.0
Government	0.0	0.0	0.0
Japan	0.0	0.0	0.0
Government	0.0	0.0	0.0
Developed High Yield	0.0	0.0	0.0
US	0.0	0.0	0.0
Europe	0.0	0.0	0.0
Emerging Market Debt	0.0	0.0	0.0
Asia	0.0	0.0	0.0
Local currency	0.0	0.0	0.0
Foreign currency	0.0	0.0	0.0
EMEA	0.0	0.0	0.0
Local currency	0.0	0.0	0.0
Foreign currency	0.0	0.0	0.0
LatAm	0.0	0.0	0.0
Local currency	0.0	0.0	0.0
Foreign currency	0.0	0.0	0.0
Thematic Fixed Income	0.0	0.0	0.0
US Bank Loans	0.0	0.0	0.0
Preferreds	0.0	0.0	0.0
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0

Classification	Strategic (%)	Tactical* (%)	Active (%)
Equities	100.0	100.0	-0.0
Developed Equities	85.7	77.9	-7.8
Developed Large Cap Equities	74.6	70.8	-3.8
US	52.6	48.0	-4.5
Canada	2.8	2.8	0.0
UK	3.3	3.3	0.0
Switzerland	2.1	2.1	0.0
Europe ex UK ex Switzerland	6.6	7.3	0.7
Asia ex Japan	2.6	2.6	0.0
Japan	4.7	4.7	0.0
Developed Small/Mid Cap Equities	11.1	7.1	-4.0
US	6.5	6.5	0.0
Non-US	4.6	0.7	-4.0
Emerging All Cap Equities	14.3	15.3	1.0
Asia	11.8	13.3	1.5
China	4.1	4.1	0.0
Asia (ex China)	7.7	9.2	1.5
EMEA	0.9	0.4	-0.5
LatAm	1.6	1.6	0.0
Brazil	1.0	1.0	0.0
LatAm ex Brazil	0.6	0.6	0.0
Thematic Equities	0.0	6.8	6.8
Global Equity REITs	0.0	0.0	0.0
US Mortgage REITs	0.0	0.0	0.0
Global Healthcare	0.0	0.0	0.0
Global Pharma	0.0	0.0	0.0
Cyber Security	0.0	1.5	1.5
Fintech	0.0	0.0	0.0
Natural Resources	0.0	0.0	0.0
Oil Services	0.0	0.0	0.0
Equal-Weighted S&P 500	0.0	5.3	5.3
Commodities	0.0	0.0	0.0
Composite Commodities	0.0	0.0	0.0
Thematic Commodities	0.0	0.0	0.0
Gold	0.0	0.0	0.0
Thematic 2	0.0	0.0	0.0
Thematic 3	0.0	0.0	0.0
Thematic 4	0.0	0.0	0.0
Thematic 5	0.0	0.0	0.0
Total	100.0	100.0	-0.0

Active = the difference between tactical and strategic allocations. Minor differences may result due to rounding.

Global USD without Hedge Funds: Risk Level 5 - Tactical Allocations

- Global Equities
- Global Fixed Income
- Hedge Funds
- Commodities
- Cash
- Thematic



Figures in brackets are active allocations. All allocations are subject to change at discretion of the GIC of the Citi Private Bank.

Core Positions

Global equities, global fixed income as well as cash are all at an overall neutral position.

Within equities, developed large cap equities have an underweight position of -2.3% and developed small/mid cap equities have an underweight position of -4.0%. Emerging market equities have an overweight of +4.8%. Thematic equities have an overweight position of +1.5%.

Within fixed income, developed government debt, developed corporate investment grade, developed high yield and emerging market debt are all at neutral position.

Important Information

In any instance where distribution of this communication (“Communication”) is subject to the rules of the US Commodity Futures Trading Commission (“CFTC”), this communication constitutes an invitation to consider entering into a derivatives transaction under US CFTC Regulations §§ 1.71 and 23.605, where applicable, but is not a binding offer to buy/sell any financial instrument.

This Communication is prepared by Citi Global Wealth Investments (“CGWI”) which is comprised of the Investments and Capital Markets capabilities of Citi Private Bank, Citi Global Wealth at Work, Citi Personal Wealth Management and International Personal Bank U.S.

Citi Private Bank, Citi Global Wealth at Work, Citi Personal Wealth Management are businesses of Citigroup Inc. (“Citigroup”), which provide clients access to a broad array of products and services available through bank and non-bank affiliates of Citigroup. Not all products and services are provided by all affiliates or are available at all locations. In the U.S., investment products and services are provided by Citigroup Global Markets Inc. (“CGMI”), member FINRA and SIPC, Citi Private Advisory, LLC (“CPA”), member FINRA and SIPC, and Citi Global Alternatives, LLC (“CGA”). CPA acts as distributor of certain alternative investment products to certain eligible clients’ segments. CGMI accounts are carried by Pershing LLC, member FINRA, NYSE, SIPC. Investment management services (including portfolio management) are available through CGMI, CGA, Citibank, N.A. and other affiliated advisory businesses. Insurance is offered by Citi Personal Wealth Management through Citigroup Life Agency LLC (“CLA”). In California, CLA does business as Citigroup Life Insurance Agency, LLC (license number OG56746). CGMI, CPA, CGA, CLA and Citibank, N.A. are affiliated companies under the common control of Citigroup.

Outside the U.S., investment products and services are provided by other Citigroup affiliates. Investment Management services (including portfolio management) are available through CGMI, CGA, Citibank, N.A. and other affiliated advisory businesses. These Citigroup affiliates, including CGA, will be compensated for the respective investment management, advisory, administrative, distribution and placement services they may provide.

International Personal Bank U.S. (“IPB U.S.”) is a business of Citigroup which provides its clients access to a broad array of products and services available through Citigroup, its bank and non-bank affiliates worldwide (collectively, “Citi”). Through IPB U.S. prospects and clients have access to the Citigold® Private Client International, Citigold® International, International Personal, Citi Global Executive Preferred, and Citi Global Executive Account Packages. Investment products and services are made available through Citi Personal Investments International (“CPII”), a business of Citigroup which offers securities through CGMI, member FINRA and SIPC, an investment advisor and broker-dealer registered with the Securities and Exchange Commission CGMI, and investment accounts are carried by Pershing LLC, member FINRA, NYSE, and SIPC. Insurance is offered by CPII through CLA. In California, CLA does business as Citigroup Life Insurance Agency, LLC (license number OG56746). Citibank, N.A., CGMI and CLA are affiliated companies under common control of Citigroup Inc.

CGWI personnel are not research analysts, and the information in this Communication is not intended to constitute “research”, as that term is defined by applicable regulations. Unless otherwise indicated, any reference to a research report or research recommendation is not intended to represent the whole report and is not in itself considered a recommendation or research report.

This Communication is provided for information and discussion purposes only, at the recipient’s request. The recipient should notify CGWI immediately should it at any time wish to cease being provided with such information. Unless otherwise indicated, (i) it does not constitute an offer or recommendation to purchase or sell any security, financial instrument or other product or service, or to attract any funding or deposits, and (ii) it does not constitute a solicitation if it is not subject to the rules of the CFTC (but see discussion above regarding communication subject to CFTC rules) and (iii) it is not intended as an official confirmation of any transaction.

Unless otherwise expressly indicated, this Communication does not take into account the investment objectives, risk profile or financial situation of any particular person and as such, investments mentioned in this document may not be suitable for all investors. Citi is not acting as an investment or other advisor, fiduciary or agent. The information contained herein is not intended to be an exhaustive discussion of the strategies or concepts mentioned herein or tax or legal advice. Recipients of this Communication should obtain advice based on their own individual circumstances from their own tax, financial, legal, and other advisors about the risks and merits of any transaction before making an investment decision, and only make such decisions on the basis of their own objectives, experience, risk profile and resources.

The information contained in this Communication is based on generally available information and, although obtained from sources believed by Citi to be reliable, its accuracy and completeness cannot be assured, and such information may be incomplete or condensed. Any assumptions or information contained in this Communication constitute a judgment only as of the date of this document or on any specified dates and is subject to change without notice. Insofar as this Communication may contain historical and forward-looking information, past performance is neither a guarantee nor an indication of future results, and future results may not meet expectations due to a variety of economic, market and other factors. Further, any projections of potential risk or return are illustrative and should not be taken as limitations of the maximum possible loss or gain. Any prices, values or estimates provided in this Communication (other than those that are identified as being historical) are indicative only, may change without notice and do not represent firm quotes as to either price or size, nor reflect the value Citi may assign a security in its inventory. Forward looking information does not indicate a level at which Citi is prepared to do a trade and may not account for all relevant assumptions and future conditions. Actual conditions may vary substantially from estimates which could have a negative impact on the value of an instrument.

Views, opinions and estimates expressed herein may differ from the opinions expressed by other Citi businesses or affiliates and are not intended to be a forecast of future events, a guarantee of future results, or investment advice, and are subject to change without notice based on market and other conditions. Citi is under no duty to update this document and accepts no liability for any loss (whether direct, indirect or consequential) that may arise from any use of the information contained in or derived from this Communication.

None of the financial instruments or other products mentioned in this Communication (unless expressly stated otherwise) is (i) insured by the Federal Deposit Insurance Corporation or any other governmental authority, or (ii) deposits or other obligations of, or guaranteed by Citi or any other insured depository institution.

Citi often acts as an issuer of financial instruments and other products, acts as a market maker and trades as principal in many different financial instruments and other products, and can be expected to perform or seek to perform investment banking and other services for the issuer of such financial instruments or other products. The author of this Communication may have discussed the information contained therein with others within or outside Citi, and the author and/or such other Citi personnel may have already acted on the basis of this information (including by trading for Citi's proprietary accounts or communicating the information contained herein to other customers of Citi). Citi, Citi's personnel (including those with whom the author may have consulted in the preparation of this communication), and other customers of Citi may be long or short the financial instruments or other products referred to in this Communication, may have acquired such positions at prices and market conditions that are no longer available, and may have interests different from or adverse to your interests.

IRS Circular 230 Disclosure: Citi and its employees are not in the business of providing, and do not provide, tax or legal advice to any taxpayer outside Citi. Any statement in this Communication regarding tax matters is not intended or written to be used, and cannot be used or relied upon, by any taxpayer for the purpose of avoiding tax penalties. Any such taxpayer should seek advice based on the taxpayer's particular circumstances from an independent tax advisor.

Neither Citi nor any of its affiliates can accept responsibility for the tax treatment of any investment product, whether or not the investment is purchased by a trust or company administered by an affiliate of Citi. Citi assumes that, before making any commitment to invest, the investor and (where applicable, its beneficial owners) have taken whatever tax, legal or other advice the investor/beneficial owners consider necessary and have arranged to account for any tax lawfully due on the income or gains arising from any investment product provided by Citi.

This Communication is for the sole and exclusive use of the intended recipients and may contain information proprietary to Citi which may not be reproduced or circulated in whole or in part without Citi's prior consent. The manner of circulation and distribution may be restricted by law or regulation in certain countries. Persons who come into possession of this document are required to inform themselves of, and to observe such restrictions. Citi accepts no liability whatsoever for the actions of third parties in this respect. Any unauthorized use, duplication, or disclosure of this document is prohibited by law and may result in prosecution.

Other businesses within Citigroup Inc. and affiliates of Citigroup Inc. may give advice, make recommendations, and take action in the interest of their clients, or for their own accounts, that may differ from the views expressed in this document. All expressions of opinion are current as of the date of this document and are subject to change without notice. Citigroup Inc. is not obligated to provide updates or changes to the information contained in this document.

The expressions of opinion are not intended to be a forecast of future events or a guarantee of future results. Past performance is not a guarantee of future results. Real results may vary.

Although information in this document has been obtained from sources believed to be reliable, Citigroup Inc. and its affiliates do not guarantee its accuracy or completeness and accept no liability for any direct or consequential losses arising from its use. Throughout this publication where charts indicate that a third party (parties) is the source, please note that the attributed may refer to the raw data received from such parties. No part of this document may be copied, photocopied or duplicated in any form or by any means, or distributed to any person that is not an employee, officer, director, or authorized agent of the recipient without Citigroup Inc.'s prior written consent.

Citigroup Inc. may act as principal for its own account or as agent for another person in connection with transactions placed by Citigroup Inc. for its clients involving securities that are the subject of this document or future editions of the document.

RISKS

Investments in financial instruments or other products carry significant risk, including the possible loss of the principal amount invested. Financial instruments or other products denominated in a foreign currency are subject to exchange rate fluctuations, which may have an adverse effect on the price or value of an investment in such products. This Communication does not purport to identify all risks or material considerations which may be associated with entering into any transaction.

Structured products can be highly illiquid and are not suitable for all investors. Additional information can be found in the disclosure documents of the issuer for each respective structured product described herein. Investing in structured products is intended only for experienced and sophisticated investors who are willing and able to bear the high economic risks of such an investment. Investors should carefully review and consider potential risks before investing.

OTC derivative transactions involve risk and are not suitable for all investors. Investment products are not insured, carry no bank or government guarantee, and may lose value. Before entering into these transactions, you should: (i) ensure that you have obtained and considered relevant information from independent reliable sources concerning the financial, economic and political conditions of the relevant markets; (ii) determine that you have the necessary knowledge, sophistication and experience in financial, business and investment matters to be able to evaluate the risks involved, and that you are financially able to bear such risks; and (iii) determine, having considered the foregoing points, that capital markets transactions are suitable and appropriate for your financial, tax, business and investment objectives.

This material may mention options regulated by the US Securities and Exchange Commission. Before buying or selling options you should obtain and review the current version of the [Options Clearing Corporation booklet](#), Characteristics and Risks of Standardized Options. A copy of the booklet can be obtained upon request from Citigroup Global Markets Inc., 390 Greenwich Street, 3rd Floor, New York, NY 10013.

If you buy options, the maximum loss is the premium. If you sell put options, the risk is the entire notional below the strike. If you sell call options, the risk is unlimited. The actual profit or loss from any trade will depend on the price at which the trades are executed. The prices used herein are historical and may not be available when you order is entered. Commissions and other transaction costs are not considered in these examples. Option trades in general and these trades in particular may not be appropriate for every investor. Unless noted otherwise, the source of all graphs and tables in this report is Citi. Because of the importance of tax considerations to all option transactions, the investor considering options should consult with his/her tax advisor as to how their tax situation is affected by the outcome of contemplated options transactions.

Bonds are affected by a number of risks, including fluctuations in interest rates, credit risk and prepayment risk. In general, as prevailing interest rates rise, fixed income securities prices will fall. Bonds face credit risk if a decline in an issuer's credit rating, or creditworthiness, causes a bond's price to decline. High yield bonds are subject to additional risks such as increased risk of default and greater volatility because of the lower credit quality of the issues. Finally, bonds can be subject to prepayment risk. When interest rates fall, an issuer may choose to borrow money at a lower interest rate, while paying off its previously issued bonds. As a consequence, underlying bonds will lose the interest payments from the investment and will be forced to reinvest in a market where prevailing interest rates are lower than when the initial investment was made.

Bond rating equivalence

Alpha and/or numeric symbols used to give indications of relative credit quality. In the municipal market, these designations are published by the rating services. Internal ratings are also used by other market participants to indicate credit quality.

Bond credit quality ratings	Rating agencies		
	Moody's ¹	Standard and Poor's ²	Fitch Ratings ²
Credit risk			
Investment Grade			
Highest quality	Aaa	AAA	AAA
High quality (very strong)	Aa	AA	AA
Upper medium grade (Strong)	A	A	A
Medium grade	Baa	BBB	BBB
Not Investment Grade			
Lower medium grade (somewhat speculative)	Ba	BB	BB
Low grade (speculative)	B	B	B
Poor quality (may default)	Caa	CCC	CCC
Most speculative	Ca	CC	CC
No interest being paid or bankruptcy petition filed	C	D	C
In default	C	D	D

1 The ratings from Aa to Ca by Moody's may be modified by the addition of a 1, 2, or 3 to show relative standing within the category.

2 The ratings from AA to CC by Standard and Poor's and Fitch Ratings may be modified by the addition of a plus or a minus to show relative standing within the category.

(MLP's) - Energy Related MLPs May Exhibit High Volatility. While not historically very volatile, in certain market environments Energy Related MLPS may exhibit high volatility.

Changes in Regulatory or Tax Treatment of Energy Related MLPs. If the IRS changes the current tax treatment of the master limited partnerships included in the Basket of Energy Related MLPs thereby subjecting them to higher rates of taxation, or if other regulatory authorities enact regulations which negatively affect the ability of the master limited partnerships to generate income or distribute dividends to holders of common units, the return on the Notes, if any, could be dramatically reduced. Investment in a basket of Energy Related MLPs may expose the investor to concentration risk due to industry, geographical, political, and regulatory concentration.

Mortgage-backed securities ("MBS"), which include collateralized mortgage obligations ("CMOs"), also referred to as real estate mortgage investment conduits ("REMICs"), may not be suitable for all investors. There is the possibility of early return of principal due to mortgage prepayments, which can reduce expected yield and result in reinvestment risk. Conversely, return of principal may be slower than initial prepayment speed assumptions, extending the average life of the security up to its listed maturity date (also referred to as extension risk).

Additionally, the underlying collateral supporting non-Agency MBS may default on principal and interest payments. In certain cases, this could cause the income stream of the security to decline and result in loss of principal. Further, an insufficient level of credit support may result in a downgrade of a mortgage bond's credit rating and lead to a higher probability of principal loss and increased price volatility. Investments in subordinated MBS involve greater credit risk of default than the senior classes of the same issue. Default risk may be pronounced in cases where the MBS security is secured by, or evidencing an interest in, a relatively small or less diverse pool of underlying mortgage loans.

MBS are also sensitive to interest rate changes which can negatively impact the market value of the security. During times of heightened volatility, MBS can experience greater levels of illiquidity and larger price movements. Price volatility may also occur from other factors including, but not limited to, prepayments, future prepayment expectations, credit concerns, underlying collateral performance and technical changes in the market.

Alternative investments referenced in this report are speculative and entail significant risks that can include losses due to leveraging or other speculative investment practices, lack of liquidity, volatility of returns, restrictions on transferring interests in the fund, potential lack of diversification, absence of information regarding valuations and pricing, complex tax structures and delays in tax reporting, less regulation and higher fees than mutual funds and advisor risk.

Asset allocation does not assure a profit or protect against a loss in declining financial markets.

The indexes are unmanaged. An investor cannot invest directly in an index. They are shown for illustrative purposes only and do not represent the performance of any specific investment. Index returns do not include any expenses, fees or sales charges, which would lower performance.

Past performance is no guarantee of future results.

International investing entails greater risk, as well as greater potential rewards compared to US investing. These risks include political and economic uncertainties of foreign countries as well as the risk of currency fluctuations. These risks are magnified in countries with emerging markets, since these countries may have relatively unstable governments and less established markets and economics.

Investing in smaller companies involves greater risks not associated with investing in more established companies, such as business risk, significant stock price fluctuations and illiquidity.

Factors affecting commodities generally, index components composed of futures contracts on nickel or copper, which are industrial metals, may be subject to a number of additional factors specific to industrial metals that might cause price volatility. These include changes in the level of industrial activity using industrial metals (including the availability of substitutes such as manmade or synthetic substitutes); disruptions in the supply chain, from mining to storage to smelting or refining; adjustments to inventory; variations in production costs, including storage, labor and energy costs; costs associated with regulatory compliance, including environmental regulations; and changes in industrial, government and consumer demand, both in individual consuming nations and internationally. Index components concentrated in futures contracts on agricultural products, including grains, may be subject to a number of additional factors specific to agricultural products that might cause price volatility. These include weather conditions, including floods, drought and freezing conditions; changes in government policies; planting decisions; and changes in demand for agricultural products, both with end users and as inputs into various industries.

The information contained herein is not intended to be an exhaustive discussion of the strategies or concepts mentioned herein or tax or legal advice. Readers interested in the strategies or concepts should consult their tax, legal, or other advisors, as appropriate.

Diversification does not guarantee a profit or protect against loss. Different asset classes present different risks.

COUNTRY DISCLOSURES

Citibank, N.A., Hong Kong / Singapore organized under the laws of U.S.A. with limited liability. This communication is distributed in Hong Kong by Citi Private Bank operating through Citibank N.A., Hong Kong Branch, which is registered in Hong Kong with the Securities and Futures Commission for Type 1 (dealing in securities), Type 4 (advising on securities), Type 6 (advising on corporate finance) and Type 9 (asset management) regulated activities with CE No: (AAP937) or in Singapore by Citi Private Bank operating through Citibank, N.A., Singapore Branch which is regulated by the Monetary Authority of Singapore. Any questions in connection with the contents in this communication should be directed to registered or licensed representatives of the relevant aforementioned entity. The contents of this communication have not been reviewed by any regulatory authority in Hong Kong or any regulatory authority in Singapore. This communication contains confidential and proprietary information and is intended only for recipient in accordance with accredited investors requirements in Singapore (as defined under the Securities and Futures Act (Chapter 289 of Singapore) (the "Act") and professional investors requirements in Hong Kong (as defined under the Hong Kong Securities and Futures Ordinance and its subsidiary legislation). For regulated asset management services, any mandate will be entered into only with Citibank, N.A., Hong Kong Branch and/or Citibank, N.A. Singapore Branch, as applicable. Citibank, N.A., Hong Kong Branch or Citibank, N.A., Singapore Branch may sub-delegate all or part of its mandate to another Citigroup affiliate or other branch of Citibank, N.A. Any references to named portfolio managers are for your information only, and this communication shall not be construed to be an offer to enter into any portfolio management mandate with any other Citigroup affiliate or other branch of Citibank, N.A. and, at no time will any other Citigroup affiliate or other branch of Citibank, N.A. or any other Citigroup affiliate enter into a mandate relating to the above portfolio with you. To the extent this communication is provided to clients who are booked and/or managed in Hong Kong: No other statement(s) in this communication shall operate to remove, exclude or restrict any of your rights or obligations of Citibank under applicable laws and regulations. Citibank, N.A., Hong Kong Branch does not intend to rely on any provisions herein which are inconsistent with its obligations under the Code of Conduct for Persons Licensed by or Registered with the Securities and Futures Commission, or which mis-describes the actual services to be provided to you.

Citibank, N.A. is incorporated in the United States of America and its principal regulators are the US Office of the Comptroller of Currency and Federal Reserve under US laws, which differ from Australian laws. Citibank, N.A. does not hold an Australian Financial Services License under the Corporations Act 2001 as it enjoys the benefit of an exemption under ASIC Class Order CO 03/1101 (remade as ASIC Corporations (Repeal and Transitional) Instrument 2016/396 and extended by ASIC Corporations (Amendment) Instrument 2023/588).

In the United Kingdom, Citibank N.A., London Branch (registered branch number BR001018), Citigroup Centre, Canada Square, Canary Wharf, London, E14 5LB, is authorized and regulated by the Office of the Comptroller of the Currency (USA) and authorized by the Prudential Regulation Authority. Subject to regulation by the Financial Conduct Authority and limited regulation by the Prudential Regulation Authority. Details about the extent of our regulation by the Prudential Regulation Authority are available from us on request. The contact number for Citibank N.A., London Branch is +44 (0)20 7508 8000.

Citibank Europe plc (UK Branch) is a branch of Citibank Europe plc, which is authorised and regulated by the Central Bank of Ireland and the European Central Bank. Authorised by the Prudential Regulation Authority. Subject to regulation by the Financial Conduct Authority and limited regulation by the Prudential Regulation Authority. Details about the extent of our regulation by the Prudential Regulation Authority are available from us on request. Citibank Europe plc, UK Branch is registered as a branch in the register of companies for England and Wales with registered branch number BR017844. Its registered address is Citigroup Centre, Canada Square, Canary Wharf, London E14 5LB. VAT No.: GB 429 6256 29. Citibank Europe plc is registered in Ireland with number 132781, with its registered office at 1 North Wall Quay, Dublin 1. Citibank Europe plc is regulated by the Central Bank of Ireland. Ultimately owned by Citigroup Inc., New York, USA.

Citibank Europe plc, Luxembourg Branch, registered with the Luxembourg Trade and Companies Register under number B 200204, is a branch of Citibank Europe plc. It is subject to the joint supervision of the European Central bank and the Central Bank of Ireland. It is furthermore subject to limited regulation by the Commission de Surveillance du Secteur Financier (the CSSF) in its role as host Member State authority and registered with the CSSF under number B00000395. Its business office is at 31, Z.A. Bourmicht, 8070 Bertrange, Grand Duchy of Luxembourg. Citibank Europe plc is registered in Ireland with company registration number 132781. It is regulated by the Central Bank of Ireland under the reference number C26553 and supervised by the European Central Bank. Its registered office is at 1 North Wall Quay, Dublin 1, Ireland.

This document is communicated by Citibank (Switzerland) AG, which has its registered address at Hardstrasse 201, 8005 Zurich, Citibank N.A., Zurich Branch, which has its registered address at Hardstrasse 201, 8005 Zurich, or Citibank N.A., Geneva Branch, which has its registered address at 2, Quai de la Poste, 1204 Geneva. Citibank (Switzerland) AG and Citibank, N.A., Zurich and Geneva Branches are authorised and supervised by the Swiss Financial Supervisory Authority (FINMA). In Jersey, this

document is communicated by Citibank N.A., Jersey Branch which has its registered address at PO Box 104, 38 Esplanade, St Helier, Jersey JE4 8QB. Citibank N.A., Jersey Branch is regulated by the Jersey Financial Services Commission. Citibank N.A. Jersey Branch is a participant in the Jersey Bank Depositors Compensation Scheme. The Scheme offers protection for eligible deposits of up to £50,000. The maximum total amount of compensation is capped at £100,000,000 in any 5-year period. Full details of the Scheme and banking groups covered are available on the States of Jersey website www.gov.je/dcs, or on request.

Citi may offer, issue, distribute or provide other services in relation to certain unsecured financial instruments issued or entered into by BRRD Entities (i.e., EU entities within the scope of Directive 2014/59/EU (the BRRD), including EU credit institutions, certain EU investment firms and / or their EU subsidiaries or parents) (BRRD Financial Instruments).

In various jurisdictions (including, without limitation, the European Union and the United States) national authorities have certain powers to manage and resolve banks, broker dealers and other financial institutions (including, but not limited to, Citi) when they are failing or likely to fail. There is a risk that the use, or anticipated use, of such powers, or the manner in which they are exercised, may materially adversely affect (i) your rights under certain types of unsecured financial instruments (including, without limitation, BRRD Financial Instruments), (ii) the value, volatility or liquidity of certain unsecured financial instruments (including, without limitation, BRRD Financial Instruments) that you hold and / or (iii) the ability of an institution (including, without limitation, a BRRD Entity) to satisfy any liabilities or obligations it has to you. In the event of resolution, the value of BRRD Financial Instruments may be reduced to zero and or liabilities may be converted into ordinary shares or other instruments of ownership for the purposes of stabilisation and loss absorption. The terms of existing BRRD Financial Instruments (e.g., date of maturity or interest rates payable) could be altered and payments could be suspended.

There can be no assurance that the use of any BRRD resolution tools or powers by the BRRD Resolution Authority or the manner in which they are exercised will not materially adversely affect your rights as a holder of BRRD Financial Instruments, the market value of any investment you may have in BRRD Financial Instruments and/or a BRRD Entity's ability to satisfy any liabilities or obligations it has to you. You may have a right to compensation from the relevant authorities if the exercise of such resolution powers results in less favourable treatment for you than the treatment that you would have received under normal insolvency proceedings. By accepting any services from Citi, you confirm that you are aware of these risks.

In Canada, Citi Private Bank is a division of Citibank Canada, a Schedule II Canadian chartered bank. References herein to Citi Private Bank and its activities in Canada relate solely to Citibank Canada and do not refer to any affiliates or subsidiaries of Citibank Canada operating in Canada. Certain investment products are made available through Citibank Canada Investment Funds Limited ("CCIFL"), a wholly owned subsidiary of Citibank Canada. Investment Products are subject to investment risk, including possible loss of principal amount invested. Investment Products are not insured by the CDIC, FDIC or depository insurance regime of any jurisdiction and are not guaranteed by Citigroup or any affiliate thereof.

This document is for information purposes only and does not constitute an offer to sell or a solicitation of an offer to buy any securities to any person in any jurisdiction. The information set out herein may be subject to updating, completion, revision, verification and amendment and such information may change materially.

Citigroup, its affiliates and any of the officers, directors, employees, representatives or agents shall not be held liable for any direct, indirect, incidental, special, or consequential damages, including loss of profits, arising out of the use of information contained herein, including through errors whether caused by negligence or otherwise.

CCIFL is not currently a member and does not intend to become a member of the Canadian Investment Regulatory Organization ("CIRO"); consequently, clients of CCIFL will not have available to them investor protection benefits that would otherwise derive from membership of CCIFL in the CIRO, including coverage under any investor protection plan for clients of members of the CIRO.

Bahrain: IN BAHRAIN, CITI PRIVATE BANK OPERATES UNDER SPECIFIC APPROVAL ISSUED ON THE BASIS OF CITIBANK, N.A., BAHRAIN BRANCH'S BANKING LICENSE

Marketing and distribution of Investment Funds to clients in Bahrain requires Notification to the Central Bank of Bahrain and will be limited to UHNWI as defined below. Minimum investment subscription criteria will apply for products for all subscriptions for Bahrain domiciled clients.

Ultra-high net worth investors are:

- (a) Individuals who have a minimum net worth (or joint net worth with their spouse) of USD 25 million or more
- (b) Companies, partnerships, trusts or other commercial undertakings, which have financial assets available for investment of not less than USD 25 million; or
- (c) Governments, supranational organisations, central banks or other national monetary authorities, and state organisations whose main activity is to invest in financial instruments (such as state pension funds).

GLOBAL CONSUMER BANK (Asia Pacific and EMEA):

"Citi analysts" refer to investment professionals within Citi Research ("CR"), Citi Global Markets Inc. ("CGMI"), Citi Global Wealth Investments ("CGWI") and voting members of the Citi Global Investment Committee. Citibank N.A. and its affiliates / subsidiaries provide no independent research or analysis in the substance or preparation of this document.

The information in this document has been obtained from reports issued by CGMI and CGWI. Such information is based on sources CGMI and CGWI believe to be reliable. CGMI and CGWI, however, do not guarantee its accuracy and it may be incomplete or condensed. All opinions and estimates constitute CGMI and CGWI's judgment as of the date of the report and are subject to change without notice. This document is for general information purposes only and is not intended as a recommendation or an offer or solicitation for the purchase or sale of any security or currency. No part of this document may be reproduced in any manner without the written consent of Citibank N.A. Information in this document has been prepared without taking account of the objectives, financial situation, or needs of any particular investor. Any person considering an

investment should consider the appropriateness of the investment having regard to their objectives, financial situation, or needs, and should seek independent advice on the suitability or otherwise of a particular investment. Investments are not deposits, are not obligations of, or guaranteed or insured by Citibank N.A., Citigroup Inc., or any of their affiliates or subsidiaries, or by any local government or insurance agency, and are subject to investment risk, including the possible loss of the principal amount invested. Investors investing in funds denominated in non-local currency should be aware of the risk of exchange rate fluctuations that may cause a loss of principal. Past performance is not indicative of future performance, prices can go up or down. Investment products are not available to US persons. Investors should be aware that it is his/her responsibility to seek legal and/or tax advice regarding the legal and tax consequences of his/her investment transactions. If an investor changes residence, citizenship, nationality, or place of work, it is his/her responsibility to understand how his/her investment transactions are affected by such change and comply with all applicable laws and regulations as and when such becomes applicable. Citibank does not provide legal and/or tax advice and is not responsible for advising an investor on the laws pertaining to his/her transaction.

Citi Research (CR) is a division of Citigroup Global Markets Inc. (the "Firm"), which 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.

For more information, please refer to https://www.citivelocity.com/cvr/eppublic/citi_research_disclosures.

MARKET SPECIFIC DISCLOSURES

Hong Kong: This This communication is distributed in Hong Kong by Citibank (Hong Kong) Limited ("CHKL") and/or Citibank, N.A., Hong Kong Branch ("CBNA HK", Citibank, N.A. is organized under the laws of U.S.A. with limited liability). CHKL and CBNA HK provide no independent research or analysis in the substance or preparation of this communication. Although information in this communication has been obtained from sources believed to be reliable, CHKL and CBNA HK do not guarantee its accuracy or completeness and accept no liability for any direct or consequential losses arising from its use.

This communication is for general information only, is not intended as a recommendation or an offer or solicitation for the purchase or sale of any products or services and should not be relied upon as financial advice. The information herein has not taken account of the objectives, financial situation or needs of any particular investor. Any person considering an investment should consider the suitability of the investment having regard to their objectives, financial situation and needs, and should seek independent advice before making an investment decision. You should obtain and consider the relevant product terms and conditions and risk disclosure statement, and consider if it's suitable for your objectives, financial situation or needs before making any investment decision. Investors are advised to obtain independent legal, financial and taxation advice prior to investing. Investments are not deposits, are not protected by the Deposit Protection Scheme in Hong Kong and are subject to investment risk including the possible loss of the principal amount invested.

This communication does not constitute the distribution of any information in any jurisdiction in which it is unlawful to distribute such information to any person in such jurisdiction.

CHKL does not provide discretionary portfolio management services.

Singapore: This communication is distributed in Singapore by Citibank Singapore Limited ("CSL") to selected Citigold/Citigold Private Clients. CSL provides no independent research or analysis of the substance or in preparation of this communication. Please contact your Citigold/Citigold Private Client Relationship Manager in CSL if you have any queries on or any matters arising from or in connection with this communication. Investment products are not insured under the provisions of the Deposit Insurance and Policy Owners' Protection Schemes Act of Singapore and are not eligible for deposit insurance coverage under the Deposit Insurance Scheme.

This communication is for general information only and should not be relied upon as financial advice. The information herein has no regard to the specific objectives, financial situation and particular needs of any specific person and is not intended to be an exhaustive discussion of the strategies or concepts mentioned herein or tax or legal advice. Any person interested in the strategies or concepts mentioned herein should consult their independent tax, legal, financial or other advisors, as appropriate. This communication does not constitute the distribution of any information or the making of any offer or solicitation by anyone in any jurisdiction in which such distribution or offer is not authorized or to any person to whom it is unlawful to distribute such information or make any offer or solicitation.

Before making any investment, each investor must obtain the investment offering materials, which include a description of the risks, fees and expenses and the performance history, if any, which may be considered in connection with making an investment decision. Interested investors should seek the advice of their financial adviser about the issues discussed herein as appropriate. Should investors choose not to seek such advice, they should carefully consider the risks associated with the investment and make a determination based upon the investor's own particular circumstances, that the investment is consistent with the investor's investment objectives and assess whether the investment product is suitable for themselves. Although information in this document has been obtained from sources believed to be reliable, CSL does not guarantee its accuracy or completeness and accept no liability for any direct or consequential losses arising from its use.

CSL does not provide discretionary portfolio management services

UAE: This document is distributed in UAE by Citibank, N.A. UAE. Citibank N.A. UAE is licensed by UAE Securities and Commodities Authority ("SCA") to undertake the financial activity as Promoter under license number 602003.

Citibank N.A. UAE is registered with Central Bank of UAE under license numbers BSD/504/83 for Al Wasl Branch Dubai, 13/184/2019 for Mall of the Emirates Branch Dubai, BSD/2819/9 for Sharjah Branch, and BSD/692/83 for Abu Dhabi Branch.

This is not an official statement of Citigroup Inc. and may not reflect all of your investments with or made through Citibank. For an accurate record of your accounts and transactions, please consult your official statement. Before making any investment, each investor must obtain the investment offering materials, which include a description of the risks, fees and expenses and the performance history, if any, which may be considered in connection with making an investment decision. Each investor should carefully consider the risks associated with the investment and make a determination based upon the investor's own particular circumstances, that the investment is consistent with the investor's investment objectives. At any time, Citigroup companies may compensate affiliates and their representatives for providing products and services to clients.

United Kingdom: This document is distributed in the U.K. by Citibank UK Limited and in Jersey by Citibank N.A., Jersey Branch.

Citibank UK Limited is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. Our firm's Financial Services Register number is 805574. Citibank UK Limited is a company limited by shares registered in England and Wales with registered address at Citigroup Centre, Canada Square, Canary Wharf, London E14 5LB, Companies House Registration No. 11283101.

Citibank N.A., Jersey Branch is regulated by the Jersey Financial Services Commission. Citi International Personal Bank is registered in Jersey as a business name of Citibank N.A. The address of Citibank N.A., Jersey Branch is P.O. Box 104, 38 Esplanade, St Helier, Jersey JE4 8QB. Citibank N.A. is incorporated with limited liability in the USA. Head office: 399 Park Avenue, New York, NY 10043, USA.

© 2023 Citigroup Inc. Citi, Citi and Arc Design and other marks used herein are service marks of Citigroup Inc. or its affiliates, used and registered throughout the world.