

2021 Long-Term Capital Market Assumptions

Q3 Update | Invesco Investment Solutions | Japanese yen (JPY)

The document is intended only for Professional Clients in Continental Europe (as defined under Important Information); for Professional Clients in Dubai, Ireland, the Isle of Man, Jersey and Guernsey, and the UK; for Institutional Investors in Australia; for wholesale investors (as defined in the Financial Markets Conduct Act) in New Zealand, for Professional Investors in Hong Kong; for Qualified Institutional Investors in Japan; for Qualified Institutional Investors and/or certain specific institutional investors in Indonesia and for qualified buyers in Philippines for informational purposes only; for Institutional Investors and/or Accredited Investors in Singapore; for certain specific Qualified Institutions/Sophisticated Investors only in Taiwan and for Institutional Investors in the USA. The document is intended only for accredited investors as defined under National Instrument 45-106 in Canada. It is not intended for and should not be distributed to or relied upon by the public or retail investors.



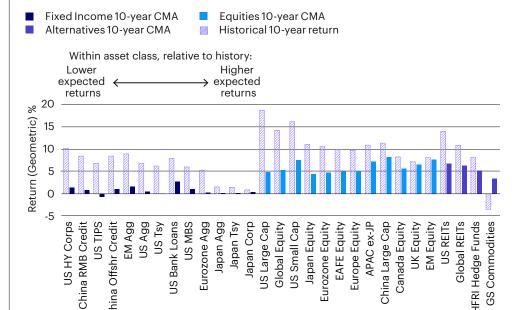
Executive Summary



Duy Nguyen CIO, Invesco Investment Solutions

- Strategic Perspective: In March of 2020, as COVID-19 shutdowns began to constrict economies globally, few could have anticipated that in a handful of quarters, the US large-cap equity market would double from its depths and be roughly a third higher than its peak from the previous cycle. While our Capital Market Assumptions (CMAs) anticipated a significant improvement in earnings from that low point, the pace of the recovery has been astounding. While COVID-19 has changed many aspects of our lives, our strategic perspective is that many of the themes we see in the investment landscape will continue. We anticipate the next ten years to be significantly different than the last as investment challenges remain in a low-rate and low-growth world facing rising inflation and duration risks (Figure 1).
- Tactical View: Leading economic indicators for the major regions around the world are peaking at the same time global risk appetite is stabilizing at cyclical highs. Our macro regime framework remains in an expansionary regime, but it is increasingly flagging the potential for an inflection point in the next few months. These transitions at the peak of the growth cycle are notoriously unstable, characterized by range-bound price action in asset prices and shifting themes, with overall positive performance for risky assets. While we believe the early-cycle reflation trade is not exhausted, it is approaching its last stages as evidenced by the recent pullback in the performance of value relative to growth, the performance of small-caps and midcaps relative to large-cap equities, and the meaningful rally in long-term bond yields.
- Global Market Outlook: Since the pandemic began, the global economy has been taken on a roller coaster ride. The last several months have seen the spread of Delta and other COVID-19 variants, raising the specter of renewed lockdowns in some places. The risk of even more contagious and dangerous mutations developing has continued thanks to a slow vaccine rollout in some countries and regions. In addition, some questions have recently arisen about how long COVID-19 vaccinations remain effective. Fears about higher inflation triggering a hastening of Fed tightening have abated somewhat, although that remains a distinct concern for some investors. In this environment, we continue to have conviction in our base case scenario, which anticipates that the reopening will continue, resulting in accelerating economic growth.

Figure 1: Expectations relative to historical average (JPY)



Source: Invesco, estimates as of June 30, 2021. Proxies listed in **Figure 13**. These estimates are forward-looking, are not guarantees, and they involve risks, uncertainties, and assumptions. Please see page 15 for information about our CMA methodology. These estimates reflect the views of Invesco Investment Solutions, the views of other investment teams at Invesco may differ from those presented here.

Executive Summary

Asset Allocation Insights

Global Market Outlook

2021 Capital Market Assumptions – Q3 Update

2

Asset Allocation Insights



Jacob Borbidge
Senior Portfolio Manager,
Head of Investment Research,
Invesco Investment Solutions

For further details on our process for defining scenarios and adjustments, please refer to our CMA Methodology paper.

Executive Summary

Asset Allocation Insights

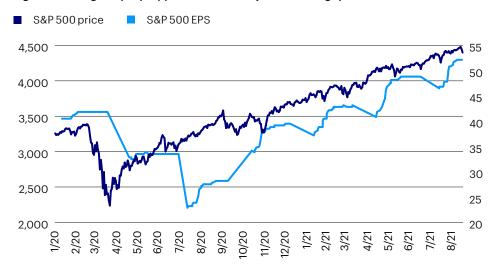
Global Market Outlook

2021 Capital Market Assumptions – Q3 Update

Strategic perspective

In March of 2020, as COVID-19 shutdowns began to constrict economies globally, few could have anticipated that in a handful of quarters, the US large-cap equity market would double from its depths¹ and be roughly a third higher than its peak² from the previous cycle. While our Capital Market Assumptions (CMAs) anticipated a significant improvement in earnings from that low point, the pace of the recovery has been astounding (Figure 2). As with any market recovery, this rapid rise in asset prices has led to common questions from our clients, which, when paraphrased, amount to "Are we close to the end of the cycle, and if so, what will cause it?".

Figure 2: US large-cap equity prices have led adjusted earnings per share



Source: Bloomberg L.P., S&P, as of Aug. 18, 2021.

In the following section of this report, our colleagues in Invesco's Global Market Strategy (GMS) office have highlighted two possible near-term risks to our base case outlook of a continued, healthy economic expansion, namely, renewed shutdowns returning us to the aforementioned COVID-19 depths and inflationary pressures that may cause policymakers to raise rates sooner than expected.

Within Solutions, we do not portend the moves of policymakers, forecast the latest medical advances, or try to explain the latest market narrative, and instead build diversified portfolios using a risk-aware investment process over the full market cycle and its regimes. This framework, combining strategic and tactical asset allocation, aims to identify trends in asset behaviors over various time horizons. While COVID-19 has changed many aspects of our lives, our **strategic perspective** is that many of the themes we see in the investment landscape will continue. We anticipate the next ten years to be significantly different than the last as investment challenges remain in a low-rate and low-growth world facing rising inflation and duration risks.

3Q21 CMA observations

Equities

- The second quarter of 2021 has been a standout for global equities, led by the US and specifically large growth firms. Not all regions have had similar experiences to the US due to a litany of reasons that stifled growth, such as the limited availability of effective vaccines, tighter restrictions on businesses and mobility, and more conservative policy measures. Our long-term CMAs of risk assets in emerging markets (EM) and developed markets (DM) outside of the US anticipate strength coming from lower relative valuations, higher yields, and higher earnings growth compared to the US.
- Despite our global equity CMAs being much higher than a year ago, our models have begun to discount future earnings growth; thus, the earnings building block of the equity CMAs has become a detractor relative to last quarter. This trend is due to a higher base effect, with lower levels of earnings in the quarter post-COVID-19 rolling off. Cyclical regions, like the UK, Canada, and EM, were those most affected by this trend in earnings data.
- Within the US, large-capitalization firms were up slightly over the quarter, and the size premium of small grew to be larger. Valuations are high globally, and the building block is estimated to be a detractor in all major regions, with the US being the most overvalued compared to DM ex-US and EM.
- Higher expected inflation has increased nominal returns, while real returns are down slightly. Over our 10-year horizon, we anticipate the dollar will be weaker in the future compared to DM and slightly stronger than EM currencies. Recent updates to our PPP³ model have shown strength in the US path of inflation and have improved the currency's prospects.

Fixed income

 The flattening of global yield curves this past quarter decreased expected fixed income returns broadly. Within credit assets, there was a pronounced decrease in high yield returns driven by compression in spreads. Our TIPS CMA is up significantly as inflation expectations have risen.

Alternatives

Real assets like commodities have seen increases in their CMAs over the past year
due to higher spot returns, collateral returns, and expected inflation. REIT CMAs are
lower than last quarter as valuations and smaller dividend yields have followed many
quarters of higher than average returns from the asset class. Our leveraged buyout
(LBO) CMA is down significantly as we anticipate slower growth within this part of the
market, notably debt has become more expensive because of higher carrying costs;
thus, less leverage is anticipated to be applied.

- 1. Source: Bloomberg L.P., US large-cap equities represented by the S&P 500 Index. Data as of Aug. 18, 2021.
- 2. Source: Bloomberg L.P., prior peak recorded at Feb. 19, 2020. Data as of Aug. 18, 2021.
- PPP stands for purchasing power parity. Further information on our currency model or any other information on how we develop our CMAs can be found in our annual methodology document.



Alessio de Longis Senior Portfolio Manager, Head of Tactical Asset Allocation, Invesco Investment Solutions

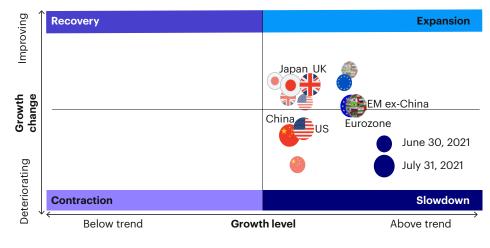
For further details on our macro regime framework, please refer to our CMA Methodology paper.

Tactical view

Leading economic indicators for the major regions around the world are peaking (Figures 3 and 4) at the same time global risk appetite is stabilizing at cyclical highs. Our macro regime framework remains in an expansionary regime, but it is increasingly flagging the potential for an inflection point in the next few months. These transitions at the peak of the growth cycle are notoriously unstable, characterized by range-bound price action in asset prices and shifting themes, with overall positive performance for risky assets. While we believe the early-cycle reflation trade is not exhausted, it is approaching its last stages as evidenced by the recent pullback in the performance of value relative to growth, the performance of small-caps and mid-caps relative to large-cap equities, and the meaningful rally in long-term bond yields.

 $Figure \ 3: While the global \ economy \ remains \ in \ expansion, some \ regions \ have \ shifted \ toward \ a \ slowdown \ cycle$

Current Leading Economic Indicators (LEIs) - July 31, 2021

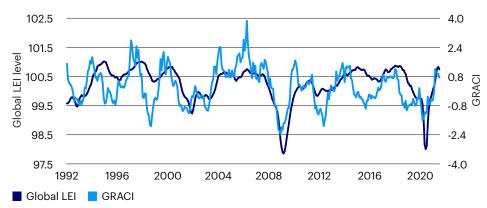


	LEIs		Global Risk Appetite							
Region	Current level of growth		Change in global growth expectations		Expected macro regimes					
Global	Above Trend				Expansion					
United States	Above Trend				Expansion					
Developed Markets ex-USA	Above Trend				Expansion					
Europe	Above Trend	&	Improving	_	Expansion					
United Kingdom	Above Trend	α	growth	_	Expansion					
Japan	Above Trend		expectations	Improving growth expectations Improving growth expectations Improving growth Impro	Expansion					
Emerging Markets	Above Trend				Expansion					
China	Above Trend				Expansion					
Emerging Markets ex-China	Above Trend				Expansion					

 $Sources: Bloomberg\,L.P., Macrobond.\,Invesco\,Investment\,Solutions\,research\,and\,calculations.\,Proprietary\,Leading\,Economic\,Indicators\,of\,Invesco\,Investment\,Solutions.\,Macro\,regime\,data\,as\,of\,July\,31,\,2021.\,The\,Leading\,Economic\,Indicators\,(LEIs)\,are\,proprietary,\,forward-looking\,measures\,of\,the\,level\,of\,economic\,growth.\,The\,Global\,Risk\,Appetite\,Cycle\,Indicator\,(GRACI)\,is\,a\,proprietary\,measure\,of\,the\,markets'\,risk\,sentiment.$

Figure 4: Invesco Investment Solutions leading indicators - GRACI and the global LEI

IIS: GRACI and the global business cycle



Sources: Bloomberg L.P., MSCI, FTSE, Barclays, JPMorgan, Invesco Investment Solutions research and calculations, from Jan. 1, 1992 to July 31, 2021. The Global Leading Economic Indicator (LEI) is a proprietary, forward-looking measure of the growth level in the economy. A reading above (below) 100 on the Global LEI signals growth above (below) a long-term average. The Global Risk Appetite Cycle Indicator (GRACI) is a proprietary measure of the markets' risk sentiment. A reading above (below) zero signals a positive (negative) compensation for risk-taking in global capital markets in the recent past. Past performance does not guarantee future results.

Emerging market (EM) equities have continued to underperform over the past month. Our overweight positioning to the asset class relative to developed market (DM) equities is certainly the most challenged active exposure in our portfolio, but one we continue to hold based on our macro framework. Several factors have contributed to the setback in EM equities after their strong outperformance between Q4 2020 and mid-February 2021.

- First, the rise in US bond yields in the first quarter of this year, coupled with a stronger US dollar, led to a tightening in EM financial conditions due to a higher dependance on external/US dollar funding relative to developed markets.
- Next, slower vaccination progress, coupled with a resurgence of the virus via the Delta variant, moderated the expectation that the broad-based global reflation trade would lift local EM equities.
- Finally, China's recent regulatory crackdown on the technology sector, among others, introduced additional uncertainty for foreign investors, causing additional underperformance in local equity markets.

This last development deserves more attention, given its potentially erratic nature, and the nexus between regulatory policy, macroeconomic policy, and investor confidence. Chinese authorities have shown a strong commitment to regulate market sectors that are growing rapidly with insufficient scrutiny over issues such as data security, consumer rights protection, fair competition, and oversight of overseas share listings. While the uncertainty of these steps can certainly shake investor confidence in the near term, the willingness to introduce a solid regulatory framework in fast-growing sectors should benefit investors in the long term.

Furthermore, despite their ongoing efforts to tighten rules on technology firms, Chinese leaders are also expected to intensify policy support in the second half of the year to support the economy. The Politburo meeting on July 31 signaled more targeted support for the local economy through a focus on medium and small businesses, boosted fiscal spending, and the potential reduction of the reserve requirement ratio for banks. Finally, the Politburo formally stated its aim of "enhancing independence of macroeconomic policy," which would also imply an increasingly independent People's Bank of China (PBOC) policy from the Federal Reserve (Fed). This would allow the Chinese monetary stance to be more accommodative to local growth needs at a time when the Fed is entering into a gradual policy normalization path.

Our overweight exposure to EM equities is driven by two key factors:

- Expectations that the global business cycle is in an expansionary regime, with rising
 risk appetite signaling the potential outperformance of riskier, more cyclical asset
 classes such as EM equities.
- Expectations for medium-term US dollar depreciation, supported by more favorable currency valuations outside the US, both in DM and EM; easing financial conditions; and capital inflows into EM assets.

The three broad developments that in our opinion have negatively affected the performance of EM equities have thus far slowed, but not derailed, market sentiment and global risk appetite, therefore leaving our investment framework tilted in favor of the asset class. While our investment process is not expected to anticipate idiosyncratic fundamental developments such as the recent regulatory clampdown by Chinese authorities, we expect our framework to react in the event such policy shock derails global market sentiment and global growth expectations, in which case we would adjust our positioning accordingly.

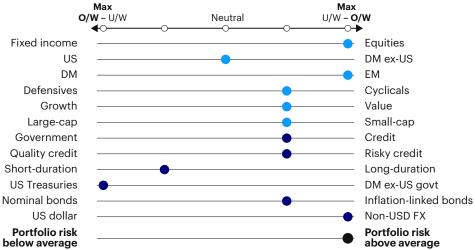
Investment positioning

We maintain a higher risk posture than our benchmark in the Global Tactical Asset Allocation model,⁴ with an overweight to equities and risky credit at the expense of government bonds and higher-quality credit assets (**Figure 5**).

- Within equities, we favor EM, driven by above-trend global growth, rising risk appetite, and medium-term US dollar depreciation to support the asset class. We have neutralized our exposure to DM outside the US, relative to US equities, as leading indicators point to a near-term softening of the cyclical upturn in Europe. However, we remain tilted in favor of (small) size and value across regions. In addition, we are tilted in favor of momentum which currently captures value and smaller-capitalization equities, therefore concentrating risk in cyclical factors and reducing portfolio diversification relative to the past few years.
- In **fixed income**, we are overweight credit risk⁵ and underweight duration versus the benchmark. We favor risky credit despite tight spreads, seeking income in a low-volatility environment. We are overweight high yield, bank loans, and EM debt at the expense of investment grade credit and government bonds. We favor US Treasuries over other developed government bond markets given the yield advantage.
- In currency markets, we maintain an overweight exposure to foreign currencies, positioning for long-term US dollar depreciation. We remain constructive on EM foreign exchange given attractive valuations, an improving cycle, and a favorable backdrop for capital inflows, favoring the Indian rupee, the Indonesian rupiah, the Russian ruble, and the Brazilian real. Within DM, we favor the euro, the yen, the Canadian dollar, the Singapore dollar, and the Norwegian kroner, while we underweight the British pound, the Swiss franc, and the Australian dollar.

Figure 5: Relative tactical asset allocation positioning

Global cycle remains in Expansion Regime



Source: Invesco Investment Solutions, August 2021. For illustrative purposes only.

^{4.} Global 60/40 benchmark (60% MSCI ACWI / 40% Bloomberg Barclays Global Agg USD hedged).

^{5.} Credit risk defined as DTS (duration times spread).

3

Global Market Outlook



Kristina Hooper Chief Global Market Strategist



Arnab DasGlobal Market Strategist - EMEA



Brian LevittGlobal Market Strategist North America

Executive Summary

Asset Allocation Insights

Global Market Outlook

2021 Capital Market Assumptions - Q3 Update

Mid-Year Outlook 2021

Review

The second quarter was a strong one for the global economy, which accelerated during this period as many countries benefited from the economic reopening underway. The US economy has made a powerful comeback from the deep hit created by the pandemic and continues to improve — helped by generous fiscal and monetary stimulus.

Risk assets benefited from this economic environment. Global equities had a strong quarter, led by US stocks. Within fixed income, credit assets outperformed sovereign debt. Commodities benefited from rising demand related to the reopening, as well as a falling US dollar.

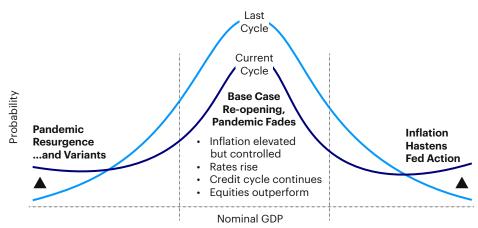
Outlook

Since the pandemic began, the global economy has been taken on a roller coaster ride. The last several months have seen the spread of Delta and other COVID-19 variants, raising the specter of renewed lockdowns in some places. The risk of even more contagious and dangerous mutations developing has continued thanks to a slow vaccine rollout in some countries and regions. In addition, some questions have recently arisen about how long COVID-19 vaccinations remain effective. Fears about higher inflation triggering a hastening of Fed tightening have abated somewhat, although that remains a distinct concern for some investors.

In this environment, we continue to have conviction in our base case scenario, which anticipates that the reopening will continue, resulting in accelerating economic growth. We continue to believe that any accompanying rise in inflation would be largely transitory. We expect greater effort by countries to accelerate vaccinations. We also expect policymakers, especially in the US, to remain very supportive in the face of any pandemic resurgence. As economies continue to reopen and spending increases, inflation should rise significantly, especially in the US as the Fed expects, but we still expect it will moderate to a rate faster than pre-crisis trends but not sufficient to induce action from central banks. Over the longer term, we expect demographics and innovation to place downward pressure on inflation.

Figure 6: We believe the pandemic continues to fade, and re-opening continues

Inflation to rise on the back of policy and pent-up demand, then moderate



Source: Invesco. For illustrative purposes only.

For more information on Invesco's market and economic positioning, please refer to our forthcoming 2021 Mid-Year Outlook.

We do recognize that two key tail risks remain — the pandemic resurgence and a hastening of Fed tightening caused by higher inflation — although we still believe they are both unlikely. While COVID-19 cases are on the rise, the data continues to indicate that vaccines are very effective. While countries now need to reach a higher level of vaccinations in order to achieve 'herd immunity' given the greater contagiousness of the Delta variant, the global economic reopening has continued with limited hiccups. In terms of the Fed hastening tightening, we believe this is also very unlikely. The Fed appears to have learned its lessons from 2013 and is moving gingerly in terms of normalizing monetary policy. It has greater flexibility to do that given its adoption of a flexible average inflation targeting (FAIT) policy last year.

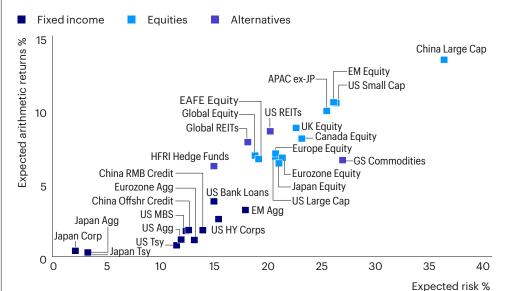
Asset Allocation Implications

In our base case scenario, we continue to take a 'risk on' approach, expecting equities to outperform fixed income as economies continue to accelerate for the next several quarters. We expect the 10-year US Treasury yield to finish at a higher level by year-end. We expect more cyclical regions, sectors, and styles to outperform in the near term, although at some point, we expect a pivot to narrow outperformance by growth and defensive stocks. If the pandemic resurgence tail-risk scenario were to come to fruition, we would, of course take a 'risk off' approach, expecting outperformance from sovereign debt, investment grade debt, gold, and cash. If the high inflation scenario were to come to fruition, we would expect commodities, real estate, Treasury inflation-protected bonds, and equities, especially financials, to perform well.

4

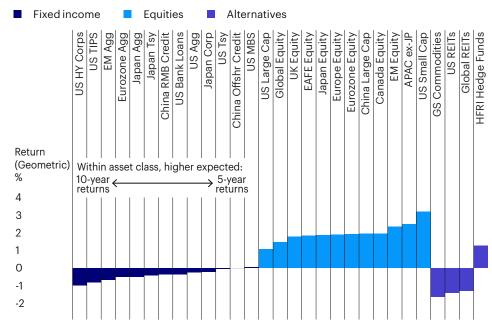
2021 Capital Market Assumptions -Q3 Update

Figure 7: 10-year asset class expectations (JPY)



Source: Invesco, estimates as of June 30, 2021. Proxies listed in **Figure 13**. These estimates are forward-looking, are not guarantees, and they involve risks, uncertainties, and assumptions. Please see page 15 for information about our CMA methodology. These estimates reflect the views of Invesco Investment Solutions, the views of other investment teams at Invesco may differ from those presented here. **Performance, whether actual or simulated, does not guarantee future results.**

Figure 8: CMA difference: 5-year minus 10-year assumptions (JPY)



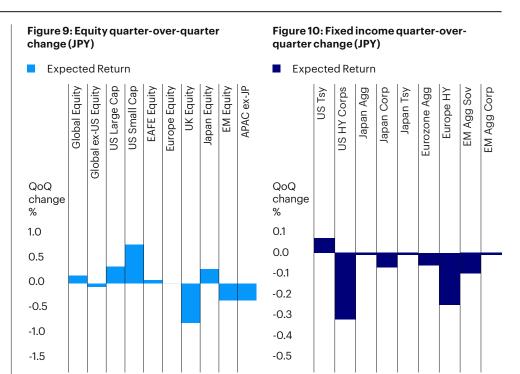
Source: Invesco, estimates as of June 30, 2021. Proxies listed in **Figure 13**. These estimates are forward-looking, are not guarantees, and they involve risks, uncertainties, and assumptions. Please see page 15 for information about our CMA methodology. These estimates reflect the views of Invesco Investment Solutions, the views of other investment teams at Invesco may differ from those presented here. **Performance, whether actual or simulated, does not guarantee future results.**

Executive Summary

Asset Allocation Insights

Global Market Outlook

2021 Capital Market Assumptions - Q3 Update



Source: Invesco, estimates as of June 30, 2021. Proxies listed in **Figure 13**. These estimates are forward-looking, are not guarantees, and they involve risks, uncertainties, and assumptions. Please see page 15 for information about our CMA methodology. These estimates reflect the views of Invesco Investment Solutions, the views of other investment teams at Invesco may differ from those presented here. **Performance, whether actual or simulated, does not guarantee future results.**

Figure 11: Equity quarter-over-quarter change attribution (JPY) (%)

	Global Equity	Global ex-US Equity	US Large Cap	US Small Cap	EAFE Equity	Europe Equity	UK Equity	Japan Equity	EM Equity	APAC ex-JP
Dividend Yield	-3.1	2.8	-6.2	-0.6	5.5	5.0	-2.6	4.3	2.1	-1.5
Buyback Yield	2.8	0.0	3.6	-0.4	0.0	0.0	0.0	0.0	0.0	0.0
LT Earnings Growth	-41.0	-52.8	-30.9	-28.0	-46.6	-45.2	-64.0	-41.9	-59.9	-58.5
Expected Inflation	15.2	24.0	7.5	5.4	27.9	31.7	10.9	19.6	16.1	14.4
Valuation Change	26.8	19.4	32.5	51.6	18.8	12.5	19.0	34.2	16.7	18.7
Currency Adj. (IRP)	11.3	1.0	19.3	13.9	-1.3	-5.5	3.5	0.0	5.1	6.9

Figure 12: Fixed income quarter-over-quarter change attribution (JPY) (%)

	US Tsy	US HY Corps	Japan Agg	Japan Corp	Japan Tsy	Eurozone Agg	Eurozone HY	00	EM Agg Corp
Average Yield	-15.8	-40.6	-74.5	-30.5	-70.9	0.4	-17.3	-36.8	-24.6
Roll Return	-28.2	-9.6	7.3	-35.8	18.8	-10.2	-4.7	1.9	-22.1
Valuation Change (Yield Curve)	10.7	12.0	17.0	8.7	10.4	32.7	-3.1	8.3	13.9
Valuation Change (OAS)	0.0	-14.4	1.2	-14.0	0.0	4.5	-25.5	-19.3	-3.9
Credit Loss	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.6	4.3
Currency Adj. (IRP)	45.4	23.4	0.0	0.0	0.0	-52.2	-49.3	33.1	31.1

Source: Invesco, estimates as of June 30, 2021. Proxies listed in **Figure 13**. These estimates are forward-looking, are not guarantees, and they involve risks, uncertainties, and assumptions. Please see page 15 for information about our CMA methodology. These estimates reflect the views of Invesco Investment Solutions, the views of other investment teams at Invesco may differ from those presented here. **Performance, whether actual or simulated, does not guarantee future results.**

Figure 13: 10-year asset class expected returns, risk, and return-to-risk (JPY)

	Asset class	Index	Expected geometric return %	Expected arithmetic return %	Expected risk %	Arithmetic return to risk ratio
	US Tsy Short	BBG BARC US Tsy Short	-0.6	0.1	12.0	0.01
	US Tsy IM	BBG BARC US Tsy IM	-0.1	0.5	11.3	0.05
	US Tsy Long	BBG BARC US Tsy Long	-0.5	0.5	14.0	0.03
	US TIPS	BBG BARC US TIPS	-0.7	0.1	12.2	0.01
	US Bank Loans	CSFB Leverage Loan	2.7	3.8	14.9	0.25
	US Agg	BBG BARC US Agg	0.5	1.2	11.9	0.10
	US IG Corp	BBG BARC US IG	0.3	1.0	12.6	0.08
	USMBS	BBG BARC US MBS	1.0	1.7	12.3	0.14
	US Preferred Stocks	BOA ML Fixed Rate Pref Securities	1.6	2.6	14.6	0.18
	US HY Corps	BBG BARC US HY	1.4	2.5	15.4	0.17
40	UK Linker	BofA ML UK Inflation-Linked Gilt	0.2	1.1	14.0	0.08
Ĕ	UK Gilts	BBG BARC Sterling Agg Gilts	0.4	1.1	11.9	0.09
8	UK Corp	BBG BARC Sterling Agg Non-Gilts Corp	0.4	1.8	16.9	0.11
₽	Global Agg	BBG BARC Global Agg	0.8	1.3	9.9	0.13
Fixedincome	Global Agg ex-US	BBG BARC Global Agg ex-US	1.0	1.4	9.4	0.15
Œ	Global Tsy	BBG BARC Global Tsy	0.8	1.1	8.2	0.13
	Global Sov	BBG BARC Global Sov	0.3	1.1	12.8	0.08
	Global Corp	BBG BARC Global Corp	0.7	1.5	13.4	0.11
	Global IG	BBG BARC Global Corp IG	0.5	1.5	14.5	0.10
	Eurozone Corp	BBG BARC Euro Agg Credit Corp	0.5	1.6	15.2	0.11
	Eurozone Tsy	BBG BARC Euro Agg Gov Tsy	0.5	1.3	12.7	0.11
	Asian Dollar IG	BOA ML ACIG	1.0	2.0	14.4	0.14
	EM Agg	BBG BARC EM Agg	1.7	3.2	17.9	0.18
	EM Agg Sov	BBG BARC EM Sov	1.7	3.0	16.6	0.18
	China Policy Bk & Tsy	BBG BARC China PB Tsy TR	0.5	1.4	13.2	0.10
	China RMB Credit	BBG BARC China Corporate	0.9	1.8	13.9	0.13
	Global Equity	MSCIACWI	5.3	6.9	18.8	0.37
	Global ex-US Equity	MSCI ACWI ex-US	5.8	7.6	19.4	0.39
	US Broad Market	Russell 3000	5.1	7.2	21.3	0.34
	US Large Cap	S&P 500	4.9	6.8	20.7	0.33
	US Mid Cap	Russell Midcap	5.8	8.2	23.2	0.35
	US Small Cap	Russell 2000	7.5	10.5	26.3	0.40
es	EAFE Equity	MSCIEAFE	5.0	6.6	19.1	0.35
Equities	Europe Equity	MSCI Europe	5.1	7.0	20.7	0.34
뮵	Eurozone Equity	MSCI Euro ex-UK	4.7	6.7	21.3	0.32
	UK Large Cap	FTSE 100	6.5	8.8	22.5	0.39
	UK Small Cap	FTSE Small Cap UK	7.4	10.7	27.7	0.39
	Canada Equity	S&P TSX	5.7	8.1	23.1	0.35
	Japan Equity	MSCI JP	4.3	6.4	21.0	0.30
	EM Equity	MSCIEM	7.6	10.5	26.1	0.40
	China Small Cap	CSI 500	8.6	14.6	38.8	0.38
	Pacific ex-JP Equity	MSCI Pacific ex-JP	5.7	8.8	26.7	0.33
	US REITs Global REITs	FTSE NAREIT Equity	6.7	8.5 7.8	20.2	0.42
Se		FTSE EPRA/NAREIT Developed HFRI HF	6.3 5.1		18.1	0.43
Ę	HFRI Hedge Funds GS Commodities			6.2	14.9	0.41
Alternatives	Agriculture	S&P GSCI	3.3 -1.2	6.6 1.5	26.9 24.2	0.24 0.06
te	_	S&P GSCI Agriculture S&P GSCI Energy	5.8	1.5	39.5	0.06
A	Energy Industrial Metals	S&P GSCI Energy S&P GSCI Industrial Metals	3.1	6.0	25.6	0.24
	Precious Metals	S&P GSCI Industrial Metals S&P GSCI Precious Metals	0.9	2.6	18.9	0.24
	i recious metais	our coorricolous metals	0.0	2.0	10.0	0.14

Source: Invesco, estimates as of June 30, 2021. These estimates are forward-looking, are not guarantees, and they involve risks, uncertainties, and assumptions. Please see page 15 for information about our CMA methodology. These estimates reflect the views of Invesco Investment Solutions, the views of other investment teams at Invesco may differ from those presented here. Agg = Aggregate, Infra = Infrastructure, Corp = Corporate, DJ = Dow Jones, HY = High Yield, Muni = Municipals, Tsy = Treasury, IM = Intermediate, ML = Merrill Lynch, Sov = Sovereign, EM = Emerging Markets, IG = Investment Grade, APAC = Asia Pacific, Gov = Government, MBS = Mortgage Backed Securities, TIPS = Treasury Inflation Protected Securities.

Figure 14: 10-year correlations (JPY)

		Fixed income																									
	Greater than 0.70									sks																Tsy	
	0.30 to 0.70					"				ğ						ex-US					0		۷۵.			<u>×</u>	Credit
	Less than 0.30	t		Б		ans				b	SC				_	ě			Q		orl	sk	<u></u>		>	Ϋ́В	ŏ
	Less than 0.50	sho	Σ	no.		ð		orp		erre)or	<u> </u>		0	√	√g6	Sy	300	Sor	Ð)e(JeT	0 9		So	olic	MB
		sys	syl	syl	IPS	anl	\gg	G C	/BS	ref	>	ij	Silts	Sorp	oal,	oal,	-lec	oal (oal (Jall	ZOZ	zor	n D	۱gg	۱gg	na P	la R
	Asset class	US Tsy Short	US Tsy IM	US Tsy Long	US TIPS	US Bank Loans	US Agg	US IG Corp	US MBS	US Preferred Stocks	US HY Corps	UK Linker	UK Gilts	UK Corp	Global Agg	Global Agg	GlobalTsy	Global Sov	Global Corp	GloballG	Eurozone Corp	Eurozone Tsy	Asian Dollar IG	EM Agg	EM Agg Sov	China Policy Bk & Tsy	China RMB
	US Tsy Short	1.00																									
	US Tsy IM	0.95	1.00																								
	US Tsy Long	0.38	0.58	1.00																							
	USTIPS	0.81		0.58																							
	US Bank Loans	0.83		0.16		1.00																					
	US Agg	0.93		0.63		0.79																					
	US IG Corp	0.79		0.54				1.00																			
	US MBS	0.97		0.53		0.78		0.84			ı																
	US Preferred Stocks		0.50 0.62					_	0.52		1.00																
	US HY Corps UK Linker			0.14			0.73 0.64					1.00															
me	UK Gilts	0.55				0.67			0.58 0.65		0.61	0.88	1.00														
8		0.56	0.52		0.66		0.62		0.57		0.75	0.84		1.00													
i E	•	0.80		0.48		0.77		0.89		0.62	0.78		0.82	0.80	1.00												
Fixed income		0.57				0.63			0.60			0.77	0.79	0.82	0.93	1.00											
-	Global Tsy	0.71		0.51		0.66		0.81		0.55		0.77	0.82	0.76		0.95	1.00										
	Global Sov	0.74		0.44		0.79	0.85					0.76	0.74	0.77	0.95	0.88	0.92	1.00									
	Global Corp	0.74	0.74	0.39	0.85	0.84	0.84	0.94	0.77	0.70	0.87	0.80	0.79	0.87	0.96	0.89	0.90	0.95	1.00								
	Global IG	0.74		0.40		0.84	0.85	0.95	0.77	0.70	0.87	0.79	0.79	0.86	0.96	0.89	0.91	0.95	1.00	1.00							
	· · · · · · · · · ·	0.52	0.50			-	0.58	-				0.71	0.71			0.97		0.85		0.87							
	,	0.53					0.61		0.56			0.68		0.71		0.97		0.84			0.95						
	Asian Dollar IG	0.86		0.51		0.86	_	0.94		0.60		0.70		0.71	0.91	0.73	0.83	0.91	0.91	0.91	0.68		1.00				
	55	0.69			0.80				0.72				0.63			0.75					0.73			1.00			
			0.63	0.33	0.77 0.76	0.80	0.75	0.86	0.69			0.68		0.71 0.59		0.74	0.75	0.91 0.69		0.87 0.71		0.66 0.57	0.85	0.99 0.67		1.00	ı
	China Policy Bk & Tsy China RMB Credit					 		_	0.88			0.54				0.62		0.69			0.57			0.67			1.00
					0.77							0.50		0.74			0.73							0.79		0.59	
					0.54				0.47			0.61			0.70		0.64			0.77						0.55	0.57
			0.49					0.68	0.56			0.57				0.66				0.75			0.65		0.74	0.61	0.62
	US Large Cap		_		0.60			!				0.57				0.66					0.68					0.62	
	US Mid Cap	0.56	0.45	0.00	0.58	0.78				0.67	0.86	0.58	0.53	0.69	0.67	0.65	0.59	0.71	0.76	0.75	0.68	0.56	0.64	0.77	0.75	0.58	0.60
	US Small Cap	0.53	0.42	-0.05	0.52	0.74	0.50	0.62	0.48	0.61	0.81	0.51	0.50	0.65	0.61	0.59	0.52	0.63	0.69	0.68	0.62	0.49	0.58	0.70	0.68	0.56	0.57
S	EAFE Equity	0.52			0.55				0.49				0.58	0.75	0.71	0.75	0.65	0.74	0.78	0.77	0.78	0.67	0.62	0.77	0.76	0.56	0.58
Equities	' ' '	0.50									0.80				0.70		0.65							0.75		0.53	0.55
뎚					0.51								0.56		0.69		0.65							0.74		0.51	
	UK Large Cap				0.54		0.51						0.63		0.70		0.63		0.77		0.76			0.75		0.57	
					0.48					0.58							0.55								0.69		
					0.53 0.51		0.44		0.41 0.48			0.57				0.66	0.55	0.66						0.74		0.47 0.56	0.49
	Japan Equity EM Equity	0.52			0.51	1	_	!	0.46			0.51	0.46			 	0.52				0.59			0.66			
	· · · · · · · · · · · · · · · · · · ·				0.42								0.39	-			0.30	-				-		-			0.43
					0.52					0.60			0.52	0.71	0.40	_	0.60							0.75			0.49
	· · ·				0.49												0.52										
					0.54	1		l .								1	0.60							0.74			
ves	HFRI Hedge Funds	0.82		0.14			0.78	_					0.65	0.76		0.72	0.72				0.72			0.83		0.79	0.81
Alternatives	GS Commodities	0.38	0.27	-0.17	0.43	0.60	0.33	0.43	0.32	0.38	0.61	0.47	0.39	0.54	0.48	0.53	0.42	0.52	0.55	0.54	0.58	0.47	0.45	0.55	0.54	0.37	0.42
ern	Agriculture				0.26		_	_			0.35							_			=			0.33			0.27
A											-			-			0.35				-	-		_			_
											0.57						0.46										
	Precious Metals	0.08	0.12	0.09	0.28	0.14	0.15	0.21	0.12	0.05	0.20	0.32	0.31	0.30	0.30	0.36	0.32	0.31	0.29	0.29	0.34	0.33	0.24	0.32	0.31	0.09	0.10

Source: Invesco, estimates as of June 30, 2021. Proxies listed in **Figure 13.** These estimates are forward-looking, are not guarantees, and they involve risks, uncertainties, and assumptions. Please see page 15 for information about our CMA methodology. These estimates reflect the views of Invesco Investment Solutions, the views of other investment teams at Invesco may differ from those presented here.

Figure 14: 10-year correlations (JPY)

									Equi	ties								Alternatives									
	Greater than 0.70		uity	<u>.</u>													ıity			sp	S			"	_		
	0.30 to 0.70	>	S Eq	arkei	۵		Q		τ	uity	Q	d	ity	_		Сар	Equ			Fun	ditie			etals	tals		
	Less than 0.30	3lobal Equity	Global ex-US Equity	US Broad Market	US Large Cap	US Mid Cap	US Small Cap	EAFE Equity	Europe Equity	Eurozone Equity	UK Large Cap	UK Small Cap	Canada Equity	Japan Equity	EM Equity	China Small Cap	Pacific ex-JP Equity	US REITs	Global REITs	HFRI Hedge Funds	GS Commodities	Agriculture	Energy	Industrial Metals	Precious Metals		
	Asset class	9	Ð	n	S)	n	S)	EA	En	En	Š	Š	ပိ	Ja	Ш	ਠ	Ра	S)	Ð	生	99	AG	En	Ĕ	Pr		
Fixed income	US Tsy Short US Tsy IM US Tsy Long US TIPS US Bank Loans US Agg US IG Corp US MBS US Preferred Stocks US HY Corps UK Linker UK Gilts UK Corp Global Agg Global Agg Global Tsy Global Sov Global Corp Global IG Eurozone Corp Eurozone Tsy Asian Dollar IG EM Agg EM Agg Sov China Policy Bk & Tsy China RMB Credit Global Equity	100																									
tives Equities	Global Equity Global ex-US Equity US Broad Market US Large Cap US Mid Cap US Small Cap EAFE Equity Europe Equity UK Large Cap UK Small Cap Canada Equity Japan Equity EM Equity China Small Cap Pacific ex-JP Equity US REITS Global REITS HFRI Hedge Funds	0.98 0.97 0.96 0.97 0.96 0.95 0.94 0.90 0.83 0.89 0.50 0.91 0.75 0.86 0.88 0.88	0.91 0.86 0.99 0.98 0.97 0.95 0.91 0.90 0.84 0.93 0.51 0.94 0.72 0.86 0.85	1.00 0.98 0.94 0.91 0.89 0.89 0.87 0.78 0.47 0.85 0.76 0.83 0.89 0.88 0.89 0.88 0.89 0.88 0.89 0.88 0.89 0.88 0.89 0.88 0.89 0.88 0.89 0.88 0.89 0.	0.97 0.92 0.92 0.91 0.92 0.93 0.89 0.89 0.89 0.88 0.78 0.78 0.75 0.82 0.75 0.82 0.88 0.	0.96 0.90 0.89 0.87 0.86 0.77 0.82 0.46 0.86 0.80 0.80 0.86 0.88 0.88 0.88 0.88 0.88 0.88	0.85 0.83 0.82 0.82 0.83 0.84 0.74 0.77 0.42 0.82 0.76 0.82 0.85 0.85	0.99 0.98 0.96 0.87 0.86 0.48 0.91 0.72 0.86 0.85 0.85	0.99 0.97 0.90 0.86 0.79 0.85 0.46 0.89 0.70 0.84 0.83 0.83 0.83	0.88 0.84 0.77 0.85 0.45 0.70 0.70 0.83 0.80 0.80	0.91 0.87 0.78 0.83 0.46 0.88 0.68 0.82 0.84	0.84 0.77 0.82 0.45 0.85 0.68 0.82 0.81	0.71 0.86 0.47 0.88 0.69 0.81	0.72 0.43 0.74 0.60 0.72 0.76	0.53 0.92 0.64 0.79 0.76	0.49 0.28 0.37 0.52	0.86 0.79	1.00 0.94 0.63	0.74		100						
Alternatives	GS Commodities Agriculture	-	0.41	0.59 0.36	0.36	0.36	0.35	0.40	0.39	0.38	0.40	0.38	0.41	0.29	$\overline{}$	0.15	0.43	0.29	0.37	0.65 0.38		1.00					
Alte	Energy			0.52						_		_		_	0.51	_		0.35				0.31					
	Industrial Metals			0.61		-	-	_	-	-	-	_			$\overline{}$	-					-	-			1.00-		
	Precious Metals	0.24	0.28	0.18	0.18	0.20	0.15	0.23	0.24	0.23	0.24	0.21	0.36	0.13	0.35	0.30	0.30	0.16	0.21	0.25	0.26	0.19	0.19	J.34	1.00		

Source: Invesco, estimates as of June 30, 2021. Proxies listed in **Figure 13**. These estimates are forward-looking, are not guarantees, and they involve risks, uncertainties, and assumptions. Please see page 15 for information about our CMA methodology. These estimates reflect the views of Invesco Investment Solutions, the views of other investment teams at Invesco may differ from those presented here.

About our capital market assumptions methodology

We employ a fundamentally based "building block" approach to estimating asset class returns. Estimates for income and capital gain components of returns for each asset class are informed by fundamental and historical data. Components are then combined to establish estimated returns (Figure 14). Here we provide a summary of key elements of the methodology used to produce our long-term (10-year) estimates. Five-year assumptions are also available upon request. Please see Invesco's capital market assumption methodology whitepaper for more detail.

For illustrative purposes only.

Fixed income returns are composed of:

- Average yield: The average of the starting (initial) yield and the expected yield for bonds.
- Valuation change (yield curve): Estimated changes in valuation given changes in the Treasury yield curve.
- Roll return: Reflects the impact on the price of bonds that are held over time. Given a positively sloped yield curve, a bond's price will be positively impacted as interest payments remain fixed but time to maturity decreases.
- Credit adjustment: Estimated potential impact on returns from credit rating downgrades and defaults.

Equity returns are composed of:

- **Dividend yield:** Dividend per share divided by price per share.
- **Buyback yield:** Percentage change in shares outstanding resulting from companies buying back or issuing shares.
- **Valuation change:** The expected change in value given the current Price/Earnings (P/E) ratio and the assumption of reversion to the long-term average P/E ratio.
- Long-term (LT) earnings growth: The estimated rate in the growth of earnings based on the long-term average real GDP per capita and inflation.

Currency adjustments are based on the theory of Interest Rate Parity (IRP) which suggests a strong relationship between interest rates and the spot and forward exchange rates between two given currencies. Interest rate parity theory assumes that no arbitrage opportunities exist in foreign exchange markets. It is based on the notion that, over the long term, investors will be indifferent between varying rate of returns on deposits in different currencies because any excess return on deposits will be offset by changes in the relative value of currencies.

Volatility estimates for the different asset classes, we use rolling historical quarterly returns of various market benchmarks. Given that benchmarks have differing histories within and across asset classes, we normalise the volatility estimates of shorter-lived benchmarks to ensure that all series are measured over similar time periods.

Correlation estimates are calculated using trailing 20 years of monthly returns. Given that recent asset class correlations could have a more meaningful effect on future observations, we place greater weight on more recent observations by applying a 10-year half-life to the time series in our calculation.

Arithmetic versus geometric returns. Our building block methodology produces estimates of geometric (compound) asset class returns. However, standard meanvariance portfolio optimisation requires return inputs to be provided in arithmetic rather than in geometric terms. This is because the arithmetic mean of a weighted sum (e.g., a portfolio) is the weighted sum of the arithmetic means (of portfolio constituents). This does not hold for geometric returns. Accordingly, we translate geometric estimates into arithmetic terms. We provide both arithmetic returns and geometric returns given that the former informs the optimisation process regarding expected outcomes, while the latter informs the investor about the rate at which asset classes might be expected to grow wealth over the long run.

Contributors

Investment Solutions

Duy Nguyen Jacob Borbidge Alessio de Longis

CFA, CAIA CFA, CAIA CIO, Invesco Investment Senior Portfolio Manager, Senior Portfolio Manager,

Solutions Head of Investment Research,

Head of Tactical Asset Invesco Investment Solutions Allocation, Invesco

Investment Solutions

Greg Chen Patrick Hamel Chang Hwan Sung PhD, CFA MS, MBA PhD, CFA, FRM Quantitative Research Analyst Senior Analyst Portfolio Manager,

Solutions Research, APAC

Debbie Li Diane Ellis Yu Li CFA PhD

Senior Analyst Macro Research Analyst Quantitative Research

Analyst

Global Market Strategy

Kristina Hooper Arnab Das **Brian Levitt**

Chief Global Market Global Market Strategist, Global Market Strategist,

Strategist **EMEA**

Investment Solutions Thought Leadership

Kenneth Blay Drew Thornton

Head of Research, **CFA**

Global Thought Leadership Head of Solutions Thought

Leadership

Invesco Investment Solutions

Invesco Investment Solutions is an experienced multi-asset team that seeks to deliver desired client outcomes using Invesco's global capabilities, scale and infrastructure. We partner with you to fully understand your goals and harness strategies across Invesco's global spectrum of active, passive, factor and alternative investments that address your unique needs. From robust research and analysis to bespoke investment solutions, our team brings insight and innovation to your portfolio construction process. Our approach starts with a complete understanding of your needs:

- We help support better investment outcomes by delivering insightful and thorough analytics.
- By putting analytics into practice, we develop investment approaches specific to vour needs.
- We work as an extension of your team to engage across functions and implement solutions.

The foundation of the team's process is the development of capital market assumptions — long-term forecasts for the behavior of different asset classes. Their expectations for returns, volatility, and correlation serve as guidelines for long-term, strategic asset allocation decisions.

Assisting clients in North America, Europe and Asia, Invesco's Investment Solutions team consists of over 75 professionals, with 20+ years of experience across the leadership team. The team benefits from Invesco's on-the-ground presence in 25 countries worldwide, with over 150 professionals to support investment selection and ongoing monitoring.

About the Invesco Global Market Strategist office

The GMS office is comprised of investment professionals based in different regions, with different areas of expertise. It provides data and commentary on global markets, offering insights into key trends and themes and their investment implications.

Investment risks

The value of investments and any income will fluctuate (this may partly be the result of exchange rate fluctuations) and investors may not get back the fullamount invested.

Invesco Investment Solutions develops CMAs that provide long-term estimates for the behavior of major asset classes globally. The team is dedicated to designing outcome-oriented, multi-asset portfolios that meet the specific goals of investors. The assumptions, which are based on 5- and 10-year investment time horizons, are intended to guide these strategic asset class allocations. For each selected asset class, we develop assumptions for estimated return, estimated standard deviation of return (volatility), and estimated correlation with other asset classes. This information is not intended as a recommendation to invest in a specific asset class or strategy, or as a promise of future performance. Estimated returns are subject to uncertainty and error, and can be conditional on economic scenarios. In the event a particular scenario comes to pass, actual returns could be significantly higher or lower than these estimates.

Important information

The document is intended only for Professional Clients in Continental Europe; for Professional Clients in Dubai, Ireland, the Isle of Man, Jersey and Guernsey, and the UK; for Institutional Investors in Australia; for wholesale investors (as defined in the Financial Markets Conduct Act) in New Zealand; for Professional Investors in Hong Kong; for Qualified Institutional Investors in Japan; for Qualified Institutional Investors and/or certain specific institutional investors in Thailand, for certain specific institutional investors in Indonesia and for qualified buyers in Philippines for informational purposes only; for Institutional Investors and/or Accredited Investors in Singapore; for certain specific Qualified Institutions/ Sophisticated Investors only in Taiwan and for Institutional Investors in the USA. The document is intended only for accredited investors as defined under National Instrument 45-106 in Canada. It is not intended for and should not be distributed to, or relied upon, by the public or retail investors.

For the distribution of this document, Continental Europe is defined as Austria, Belgium, Denmark, Finland, France, Germany, Greece, Italy, Liechtenstein, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden and Switzerland. This does not constitute a recommendation of any investment strategy or product for a particular investor. Investors should consult a financial professional before making any investment decisions.

By accepting this document, you consent to communicate with us in English, unless you inform us otherwise. This overview contains general information only and does not take into account individual objectives, taxation position or financial needs. Nor does this constitute a recommendation of the suitability of any investment strategy for a particular investor. It is not an offer to buy or sell or a solicitation of an offer to buy or sell any security or instrument or to participate in any trading strategy to any person in any jurisdiction in which such an offer or solicitation is not authorized or to any person to whom it would be unlawful to market such an offer or solicitation. It does not form part of any prospectus. All material presented is compiled from sources believed to be reliable and current, but accuracy cannot be guaranteed. As with all investments, there are associated inherent risks. Please obtain and review all financial material carefully before investing. Asset management services are provided by Invesco in accordance with appropriate local legislation and regulations. The opinions expressed are those of Invesco Investment Solutions team and may differ from the opinions of other Invesco investment professionals. Opinions are based upon current market conditions, and are subject to change without notice. Performance, whether actual, estimated, or backtested, is no guarantee of future results. Diversification and asset allocation do not guarantee a profit or eliminate the risk of loss.

Unless otherwise stated, all information is sourced from Invesco, in JPY and as of June 30, 2021.

Further information is available using the contact details shown overleaf.

This document is issued in:

- Australia by Invesco Australia Limited (ABN 48 001 693 232), Level 26, 333 Collins Street, Melbourne, Victoria, 3000, Australia, which holds an Australian Financial Services Licence number 239916.
- Austria and Germany by Invesco Asset Management Deutschland GmbH, An der Welle 5, 60322 Frankfurt am Main, Germany.
- Belgium, Denmark, Finland, France, Greece, Italy, Luxembourg, Norway, Portugal, Spain and Sweden by Invesco Management S.A., President Building, 37A Avenue JF Kennedy, L-1855 Luxembourg, regulated by the Commission de Surveillance du Secteur Financier, Luxembourg.
- Canada by Invesco Canada Ltd., 5140 Yonge Street, Suite 800, Toronto, Ontario, M2N 6X7, Canada.
- Dubai by Invesco Asset Management Limited, Po Box 506599, DIFC Precinct Building No 4, Level 3, Office 305, Dubai, United Arab Emirates. Regulated by the Dubai Financial Services Authority.
- **Hong Kong** by Invesco Hong Kong Limited 景順投資 管理有限公司, 41/F, Champion Tower, Three Garden Road, Central, Hong Kong.
- Japan by Invesco Asset Management (Japan) Limited, Roppongi Hills Mori Tower 14F, 6–10–1 Roppongi, Minato-ku, Tokyo 106–6114; Registration Number: The Director-General of Kanto Local Finance Bureau (Kinsho) 306; Member of the Investment Trusts Association, Japan and the Japan Investment Advisers Association.
- **New Zealand** by Invesco Australia Limited (ABN 48 001 693 232), Level 26, 333 Collins Street, Melbourne, Victoria, 3000, Australia, which holds an Australian Financial Services Licence number 239916.
- Singapore by Invesco Asset Management Singapore Ltd, 9 Raffles Place, #18-01 Republic Plaza, Singapore 048619.
- Switzerland, Liechtenstein by Invesco Asset Management (Schweiz) AG, Talacker 34, CH-8001 Zurich, Switzerland.
- Taiwan by Invesco Taiwan Limited, 22F, No.1, Songzhi Road, Taipei 11047, Taiwan (0800-045-066). Invesco Taiwan Limited is operated and managed independently.
- The Isle of Man, Guernsey, Ireland, Jersey and the UK by Invesco Asset
 Management Limited, Perpetual Park, Perpetual Park Drive, Henley-on-Thames,
 Oxfordshire RG9 1HH. Authorised and regulated by the Financial Conduct Authority.
- The United States of America by Invesco Advisers, Inc., Two Peachtree Pointe, 1555 Peachtree Street, N.W., Suite 1800, Atlanta, Georgia 30309, US.

Notes

Contact

Mark Humphreys Head of EMEA Client Solutions Development

+44 (0) 207 543 3537 mark_humphreys@ldn.invesco.com

Ella Gillett Client Solutions Associate

+44 (0)1491 416252 ella.gillett@invesco.com

Rebecca Dobson Client Solutions Associate

+44 (0)1491 417231 rebecca.dobson@invesco.com



マルチアセット運用戦略に関する投資リスク

- 当運用戦略は、国内外の株式、債券、ETF、REIT、債券、短期公社債、派生商品取引、および不動産、インフラ等の実物資産、 プライベート・エクイティ等に投資する現ファンドなどを主要投資対象としますので、組み入れた国内外の株式、ETF、REIT、債券、短期公社債、派生商品取引、不動産、インフラなどの実物資産、プライベート・エクイティ等の価格変動などの影響により、損失を被ることがあります。
- したがって、投資家の皆様の投資元本は保証されているものではなく、組入れ資産価格の下落により、損失を被り、投資元本を割り込むことがあります。
- 運用機関の指図に基づく行為により生じた利益および損失はすべて投資家に帰属します。

当運用における主な投資リスクとして以下が挙げられます。

① 株価の変動リスク(価格変動リスク・信用リスク)、② 公社債価格の変動リスク(価格変動リスク・信用リスク)、③ REITの価格変動リスク、④ ETFにかかる乖離するリスク、⑤ 有価証券先物取引および有価証券指数等先物取引等にかかるリスク、⑥ 商品先物取引等にかかるリスク、⑦ 派生商品取引(通貨先物取引、金利先物取引、オプション、スワップ)等にかかるリスク、⑧ 不動産投資に伴うリスク、⑨ ベンチャー・キャピタル・ファンド投資に関する一般的なリスク、⑩ バイアウト・ファンド投資に関する一般的なリスク、⑪ 流動性リスク、⑫ デフォルト・リスク、⑬ カントリー・リスク、⑭ カウンターパーティ・リスク、⑮ コール・ローン等の相手先に関する信用リスク、⑯ 解約資金手当によるリスク、⑰ 原ファンドの評価価格に関するリスク、⑱ ファンドの資産に対して遡及される請求、⑲ マネジメント会社に関連するリスク、⑳ 各国法制度の法規制の対象となる可能性、㉑ キャピタルコールに伴うタイミングリスク、② 投資家によるデフォルト、② 資産配分に係るリスク、㉑ 訴訟リスク、㉓ 解約に係るリスク、⑳ フィーダー・ビークル等に係るリスク、② 会計・監査報告書に関するリスク、⑳ 評価価格に関するリスク、㉑ けるリスク

マルチアセット運用戦略に関する費用と税金

直接投資の場合に ご負担いただく 報酬・費用

- 【投資一任契約に係る報酬】
 投資一任契約に係る報酬などの総計は、現時点で、当戦略の報酬料率を決定していないため、表示することができません。
- 【特定(金銭)信託の管理報酬】 当該信託口座の受託銀行である信託銀行に管理報酬をお支払いいただく必要があります。具体的料率 については信託銀行にご確認下さい
- 【組入有価証券の売買時に発生する売買委託手数料 等】 当該費用については、運用状況や取引量等により変動するものであり、事前に具体的な料率、金額、上限または計算方法等を示すことができません
- 【費用合計額】 上記の費用の合計額については、運用状況などによって変動するものであり、事前に料率、上限額などを表示することができません。



オルタナティブ・ソリューション運用戦略に関する投資リスク

- 当運用戦略は、国内外の株式、債券、ETF、REIT、債券、短期公社債、派生商品取引、および不動産、インフラ等の実物資産、 プライベート・エクイティ等に投資する現ファンドなどを主要投資対象としますので、組み入れた国内外の株式、ETF、REIT、債券、短期公社債、派生商品取引、不動産、インフラなどの実物資産、プライベート・エクイティ等の価格変動などの影響により、損失を被ることがあります。
- したがって、投資家の皆様の投資元本は保証されているものではなく、組入れ資産価格の下落により、損失を被り、投資元本を割り込むことがあります。
- 運用機関の指図に基づく行為により生じた利益および損失はすべて投資家に帰属します。

当運用における主な投資リスクとして以下が挙げられます。

① 株価の変動リスク(価格変動リスク・信用リスク)、② 公社債価格の変動リスク(価格変動リスク・信用リスク)、③ REITの価格変動リスク、④ ETFにかかる乖離するリスク、⑤ 有価証券先物取引および有価証券指数等先物取引等にかかるリスク、⑥ 商品先物取引等にかかるリスク、⑦ 派生商品取引(通貨先物取引、金利先物取引、オプション、スワップ)等にかかるリスク、⑧ 不動産投資に伴うリスク、⑨ ベンチャー・キャピタル・ファンド投資に関する一般的なリスク、⑩ バイアウト・ファンド投資に関する一般的なリスク、⑪ 流動性リスク、⑪ デフォルト・リスク、⑬ カントリー・リスク、⑭ カウンターパーティ・リスク、⑮ コール・ローン等の相手先に関する信用リスク、⑯ 解約資金手当によるリスク、⑰ 原ファンドの評価価格に関するリスク、⑱ ファンドの資産に対して遡及される請求、⑲ マネジメント会社に関連するリスク、⑩ 各国法制度の法規制の対象となる可能性、㉑ キャピタルコールに伴うタイミングリスク、⑫ 投資家によるデフォルト、② 資産配分に係るリスク、⑭ 訴訟リスク、㉕ 解約に係るリスク、⑳ フィーダー・ビークル等に係るリスク、② 会計・監査報告書に関するリスク、⑳ 評価価格に関するリスク

オルタナティブ・ソリューション運用戦略に関する費用と税金

直接投資の場合に ご負担いただく 報酬・費用

- 【投資一任契約に係る報酬】 投資一任契約に係る報酬などの総計は、現時点で、当戦略の報酬料率を決定していないため、表示することができません。
- 【特定(金銭)信託の管理報酬】 当該信託口座の受託銀行である信託銀行に管理報酬をお支払いいただく必要があります。具体的料率 については信託銀行にご確認下さい
- 【組入有価証券の売買時に発生する売買委託手数料 等】 当該費用については、運用状況や取引量等により変動するものであり、事前に具体的な料率、金額、上限または計算方法等を示すことができません
- 【費用合計額】 上記の費用の合計額については、運用状況などによって変動するものであり、事前に料率、上限額などを表示することができません。



当資料ご利用上のご注意

当資料は情報提供を目的として、インベスコ・アセット・マネジメント株式会社(以下、「当社」)のグループに属する運用プロフェッショナルが英文で作成したものであり、法令に基づく開示書類でも金融商品取引契約の締結等の勧誘資料でもありません。内容には正確を期していますが、必ずしも完全性を当社が保証するものではありません。また、当資料は信頼できる情報に基づいて作成されたものですが、その情報の確実性あるいは完結性を表明するものではありません。当資料に記載されている内容は既に変更されている場合があり、また、予告なく変更される場合があります。当資料には将来の市場の見通し等に関する記述が含まれている場合がありますが、それらは資料作成時における作成者の見解であり、将来の動向や成果を保証するものではありません。また、当資料に示す見解は、インベスコの他の運用チームの見解と異なる場合があります。過去のパフォーマンスや動向は将来の収益や成果を保証するものではありません。当社の事前の承認なく、当資料の一部または全部を使用、複製、転用、配布等することを禁じます。

また、本書では、弊社のグループ関連会社が行う投資について説明している箇所がありますが、そこは、投資一任契約を通じてインベスコ・アセット・マネジメント株式会社(以下、「当社」といいます。)がご提供する場合を想定したものです。また過去の運用実績は、将来の運用成果を保証するものではありません。本書はお客様ニーズを把握するためのサウンディング資料であり、特定のファンドや有価証券等についての言及は、あくまで参考情報として提供するものであり投資の推奨や勧誘する意図で提供するものではありません。本文で詳述した本書の分析は、一定の仮定に基づくものであり、その結果の確実性を表明するものではありません。分析の際の仮定は変更されることもあり、それに伴い当初の分析の結果と重要な差異が生じる可能性もあります。

本書はインベスコのグループ会社の行う投資手法ならびにプロセスを説明するために、過去の一時点における投資行動の具体例、または特定企業・銘柄に対する評価事例を掲示いたしますが、これをもって当該銘柄に対する投資を推薦、勧誘する意図はありません。ポートフォリオ特性値、組入れ銘柄などは、あくまで過去の一時点におけるデータに過ぎず、将来のポートフォリオが同様の傾向、組入れを継続する保証はございません。

リスク情報につき、有価証券先物取引等のデリバティブ取引に係る事項の説明は、国内特定(金銭)信託口座に組入れるファンドにおいて行われるデリバティブ取引にかかるものです。実際の投資は日本国外のファンドで行い、国内特定(金銭)信託口座から日本国外のファンドに投資することを前提とします。国内特定(金銭)信託口座において、デリバティブ取引を行うことはございません。

※投資一任契約の締結に際しましては、重要事項説明書ならびに契約締結前交付書面を必ずご確認下さい。

インベスコ・アセット・マネジメント株式会社

金融商品取引業者 関東財務局長(金商)第306号加入協会 一般社団法人投資信託協会

一般社団法人日本投資顧問業協会