

Macro Scenarios and Investment Outlook: Q1 2024

February 6, 2024

Joyce Huang, CFA

Vice President Senior Client Portfolio Manager **Jeremy Deering, CFA**

Director, Portfolio Construction Analytics

Macroeconomic Outlook:

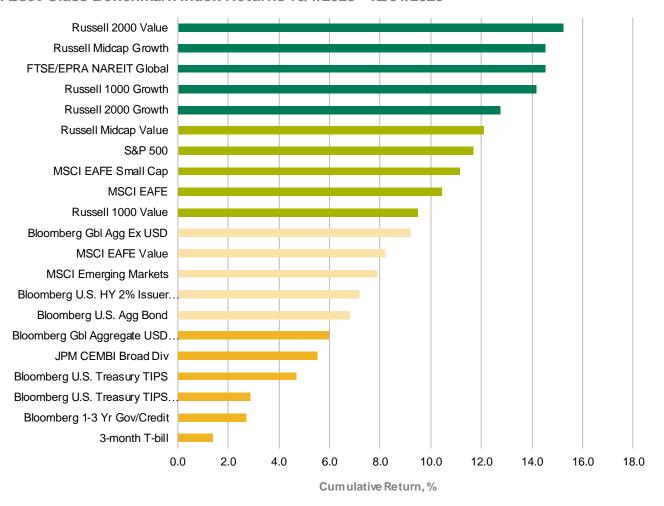
Resilient U.S. Consumer Pushed Out Timing for Slowdown and Federal Reserve (Fed) Pivot

	While inflation has slowed considerably from last year's multidecade highs, it remains above the Fed's target
Inflation	 Persistent wage pressures suggest services inflation may remain resilient
	Inflation has fallen more rapidly in the EU and UK
	 Monetary policy tightening effects yet to be fully felt
Monetary Policy	 Rates likely to remain higher for longer than market is currently pricing
monotary roncy	Developed market central banks have all peaked
	 We believe attractive yields plentiful across duration and credit spectrum today
Interest Rates	Intermediate rates likely to fall first due to recession risk followed by short rates once Fed cuts are imminent
	■ Goldilocks? Inconsistent with history or Fed's inflation goal
Global Economy	 U.S. consumer and corporate data beginning to weaken but job market remains surprisingly resilient
	 Global growth (Europe, China, Emerging Markets (EM)) is even more challenged.

Duration: Duration is an important indicator of potential price volatility and interest rate risk in fixed income investments. It measures the price sensitivity of a fixed income investment to changes in interest rates. The longer the duration, the more a fixed income investment's price will change when interest rates change. Duration also reflects the effect caused by receiving fixed income cash flows sooner instead of later. Fixed income investments structured to potentially pay more to investors earlier (such as high-yield, mortgage, and callable securities) typically have shorter durations than those that return most of their capital at maturity (such as zero-coupon or low-yielding noncallable Treasury securities), assuming that they have similar maturities.

Pivot Rally Arrives in Time for the Holidays

Asset Class Benchmark Index Returns 10/1/2023 - 12/31/2023



Data from 10/1/2023 to 12/31/2023.

Source: FactSet.

Past performance is no guarantee of future results.

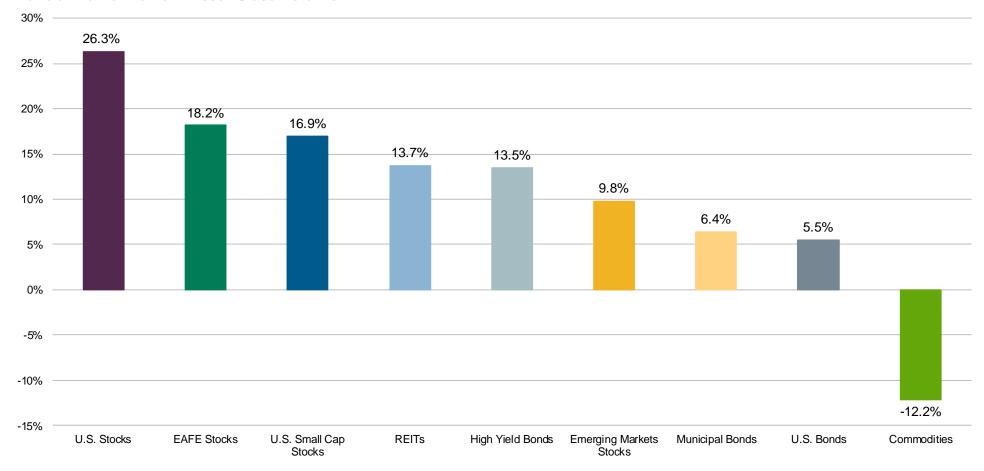
Please see slide 19 for glossary.

- Global asset prices rose in a worldwide pivot rally to close out 2023 on a high note.
- Most stock and bond indices ended the year with positive returns. Domestic and global equity markets finished the year strong, with the S&P 500 up 26.3% and the MSCI EAFE up 18.2%.
- Long-term yields fell in Q4 as investors priced in three rate cuts for the first half of 2024.
- The 10-Year U.S. Treasury yield peaked in October at 4.9% and has declined since, ending the year at 3.9%.



Most Asset Classes in the Black for 2023

Financial Market Review - Asset Class Returns



These charts are for illustrative purposes only and are not intended to represent any particular investment product.

Data from 1/1/2023 to 12/31/2023

Source: FactSet

Past performance is no guarantee of future results.

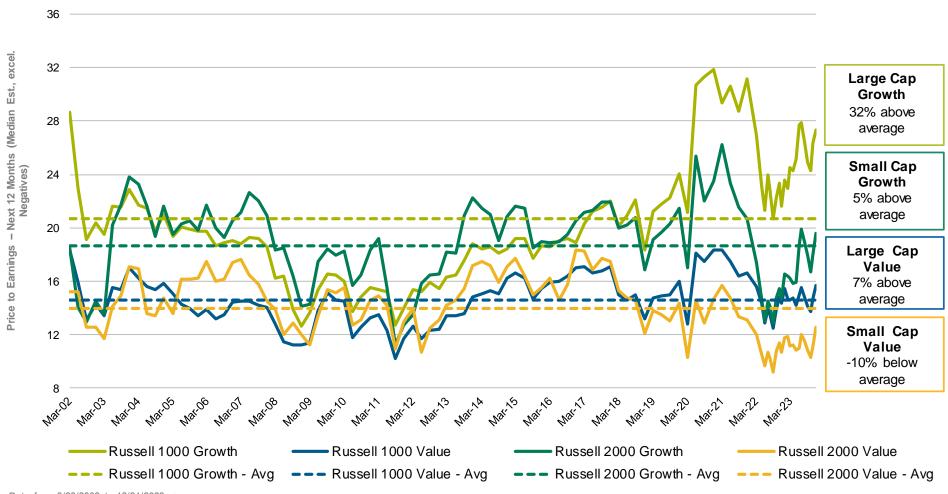
Asset classes consist of the following: Commodities represented by the S&P GSCI® (Goldman Sachs Commodities Index), MunicipalBonds represented by the Bloomberg Municipal Bond Index, High Yield Bonds represented by the ICE BofA US High Yield Constrained Index (Unhedged), U.S. Bonds represented by the Bloomberg US Aggregate Bond Index, U.S. Stocks represented by the S&P 500® Index, U.S. Small Cap Stocks represented by the Russell 2000® Index, EAFE Stocks represented by the MSCI EAFE (Europe, Australasia, Far East) Index, Emerging Markets Stocks represented by the MSCI Emerging Markets Index, and Real Estate represented by the MSCI U.S. REIT Index. Please see slide 19 for glossary.

American Century

Investments®

U.S. Equity Valuations

Next 12 Month Valuations as of 12/31/2023

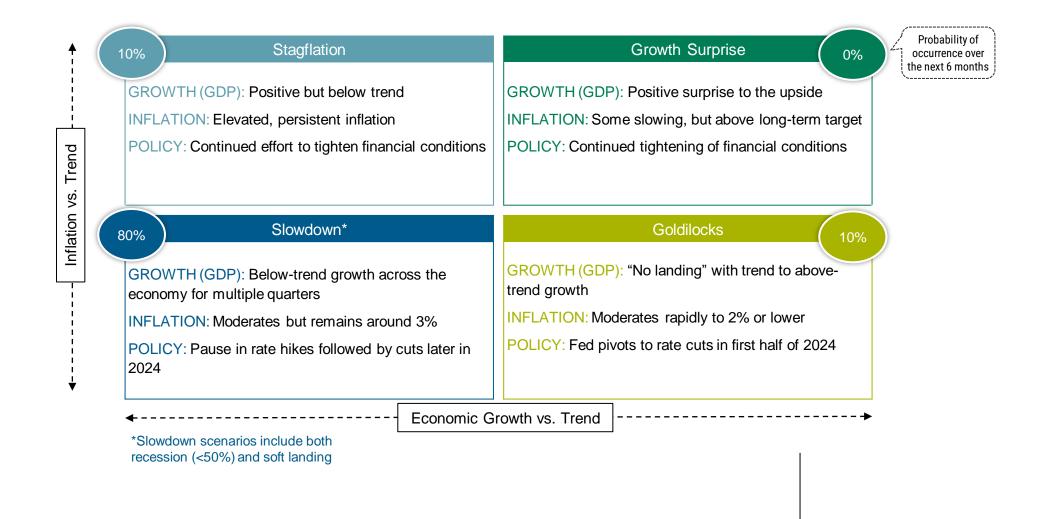


Data from 3/28/2002 to 12/31/2023.

Source: FactSet



American Century Investments 6-Month Macro Scenarios



Source: American Century Investments. Opinion as of 12/31/2023.

Opinions and estimates offered constitute our judgment and along with other portfolio data, are subject to change without notice.

The opinions expressed are those of American Century Investments (or the fund manager) and are no guarantee of the future performance of any American Century Investments fund.



There Have Been 12 Fed Tightening Cycles Since 1960: 8 Hard Landings, 4 Soft Landings





Data from 1/30/1959 to 12/29/2023

Source: Factset

Recession of 1957-1958: 8/31/1957-4/30/1958, Recession of 1960-1961: 4/30/1960 - 2/28/1961, Recession of 1969-70: 12/31/1969-11/31/1970, 1973-1975 Recession: 11/30/1973-3/31/1975. 1980 Recession: 1/31/1980-7/31/1980, 1981-1982 Recession: 7/31/1981-11/31/1982, Early 1990's Recession: 3/31/2001-11/30/2001, Great Recession: 12/31/2007-5/30/2009, Covid-19 Recession: 2/28/2020-4/31/2020



Consumer Spending Trend Positive But Falling

- Retailers started promotions early this season and consumers hunted for the best deals and promotions.
- While spending was up from last year, it was on practical items: gifts, food, clothing and shoes, and less on electronics. This figure is also not adjusted for inflation.
- Consumers spent more on apparel and food especially in restaurants, where spending was up by 7.8% over 2022 while sales of higher ticket electronics and jewelry were down year over year (YoY).
- Holiday Retail Sales was predicted to be +3.7% at the start of Q4 and 2022 was +7.8%.

U.S. Holiday I November 1 –		2023 vs. 2022
	Total Retail (ex. Auto)	+3.1%
	In-Store	+2.2%
	Online	+6.3%
00	Apparel	+2.4%
FOR	Electronics	-0.4%
	Grocery	+2.1%
	Jewelry	-2.0%
	Restaurants	+7.8%



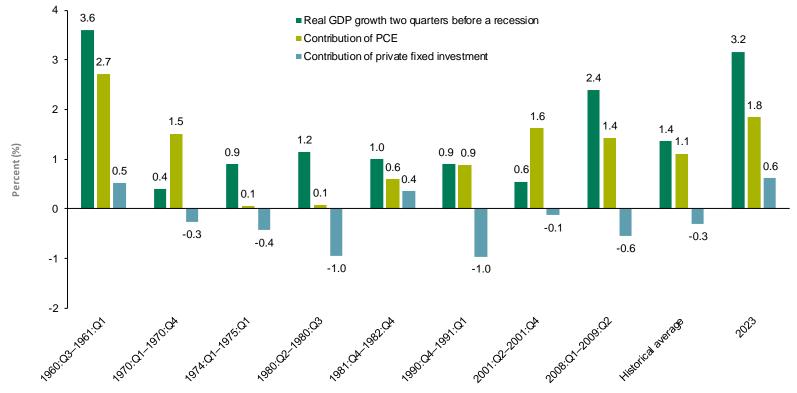


Growth in Consumer Spending Often Occurs Right Before Recession

- In every recessionary episode since the 1960s, consumption grew in the two quarters before a recession. Consumption was also the main driver of GDP growth during the two-quarter period.
- The economy expanded 1.4 % on average prior to a recession and 1.1% of that increase came from consumption.
- This cycle mirrors the historical average, only difference is private fixed investment is still positive. This is primarily driven by relative strength of residential investment (housing) this cycle compared to history where residential investment was the primary drag on GDP growth.

Investment Declined, Consumption Grew Before Previous Recessions

Percent change annualized, quarterly average

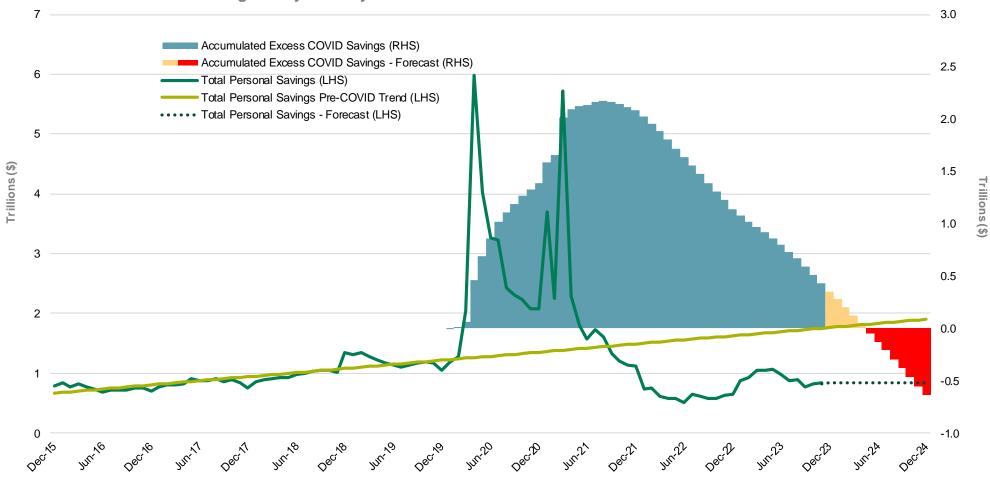


Data from 7/1/1960 to 12/31/2023.
Source: Federal Reserve Bank of Dallas



Consumers Are Facing Headwinds As Savings Run Out.....

Household Excess COVID Savings Likely Gone by End-2023



Data from: 12/31/2015 to 11/30/2023

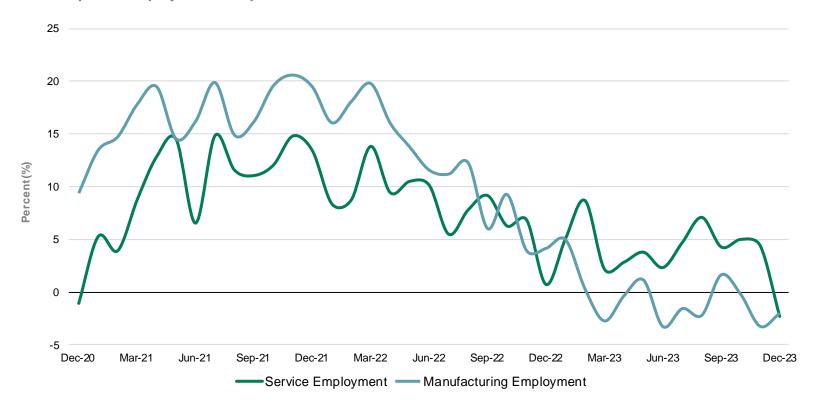
Source: Factset

Personal Savings Pre-COVID Trend: 12/31/2015 - 2/28/2020; Personal Savings Forecast: Personal Savings Trend from 11/30/2022 - 11/30/2023; Accumulated Excess COVID Savings - Forecast: Difference between Personal Savings Pre-COVID Trend and Personal Savings Forecast

....And Employment is Weakening

- The service employment composite dropped significantly in Dec (from 4.4 in Nov to -2.3 Dec), and the negative reading is the lowest level since Aug, 2020.
- On the other hand, manufacturing employment has been slightly below zero for a while and is at -2 of Dec.

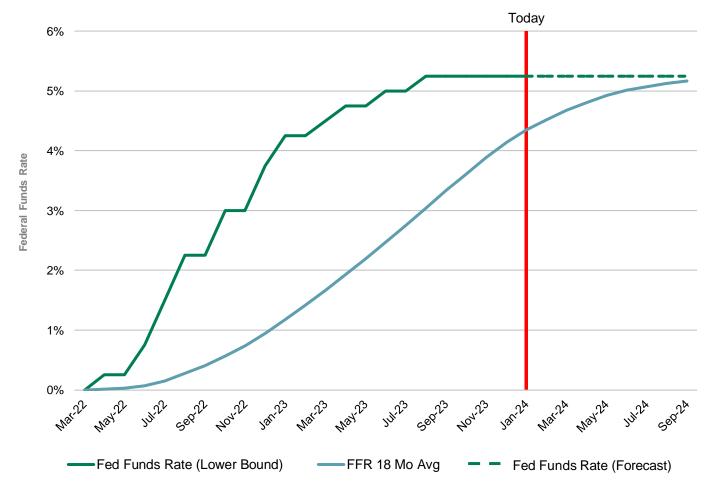
PMI Composite Employment Component



Data from 12/31/2020 to 12/31/2023. Source: Bloomberg



Full Effect of Fed Policy Yet to Be Felt...Cuts Not Expected in 1Q

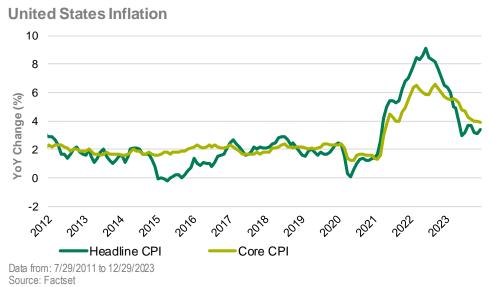


Data from 3/31/2022 and 12/31/2023 Source: FactSet, American Century Investments

- Can take up to 18 months for full effect of each rate hike to be felt.
- Final impact to be felt in the next 6 months, coinciding with our view of Slowdown.



Inflation Declining But Services Remains Sticky Due to Labor Markets

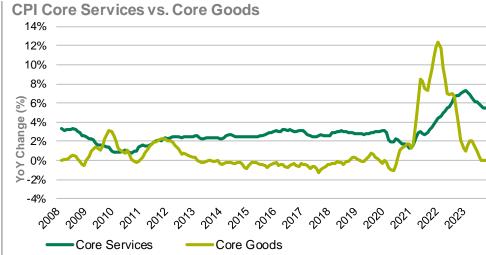


Wage Growth Still Robust With Strong Labor Markets



Data from: 12/31/2003 to 12/31/2023

Source: Factset

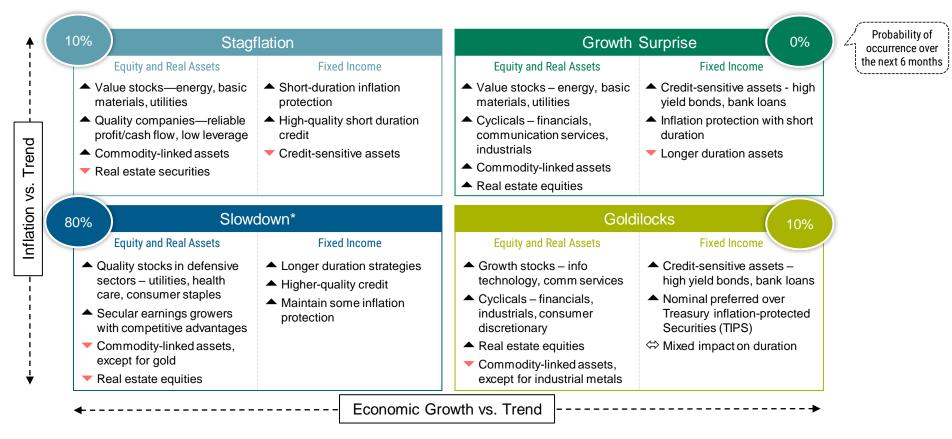


Data from: 3/31/2008 to 12/29/2023 Source: Factset



Data from: 10/31/2007 to 12/31/2023 Source: Factset

Portfolio Implications



Direction of arrows show what investment type has historically done in this environment.

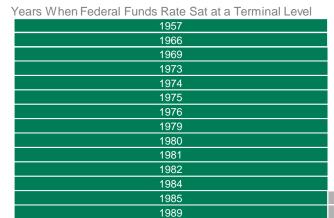
*Slowdown scenarios include both recession (<50%) and soft landing

Source: American Century Investments as of December 31, 2023. Opinions and estimates offered constitute our judgment and along with other portfolio data, are subject to change without notice. Forecasts are not a reliable indicator of future performance. The opinions expressed are those of American Century Investments (or the fund manager) and are no guarantee of the future performance of any American Century Investments fund. For each asset class, American Century develops a set of assumptions for return, risk, and correlation. Because asset class returns and relationships are ultimately grounded in economic fundamentals, we forecast over the equivalent of a complete economic and market cycle. We arrive at our return forecasts through various modeling techniques, such as a classic valuation approach, a risk-premium approach, and an historical risk and return analysis. In addition to this quantitative process, we employ a qualitative review, recognizing that there are elements that can't be easily captured by a quantitative process.



Reinvestment Risk is the Biggest Risk Your Clients May be Ignoring

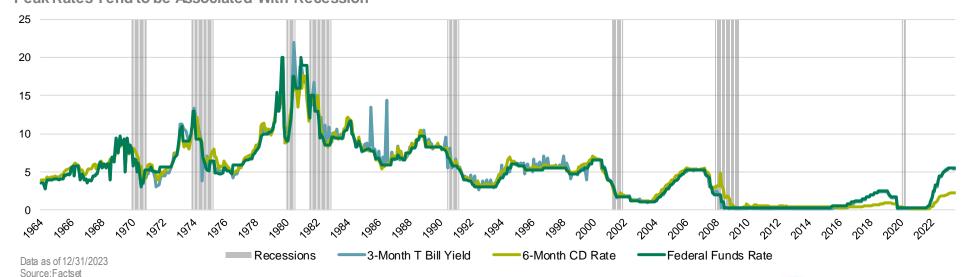
Peak Rates Have Been Short-Lived



- The Federal Funds Rate target remained at its peak level for an average of 4.2 months
- Six months after reaching its top rate, the Fed cut rates an average of 1.8%.

Peak Rates Tend to be Associated With Recession

1995 1-5 Months



6-10 Months



> 10 Months





Portfolio Construction Case Studies

- De-Risking Fixed Income Sleeve
- Extending Duration

SAMPLE ANALYSIS

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Case Study 1: De-Risking Fixed Income Sleeve

Advisor Discovery Call Notes / Model:

- Macro Views:
 - Advisor believes strongly that recession coming in 2024
 - Feels "something has to give", growing less positive about equities
- Primary Concern:
 - Fixed income sleeve is the part of model he is least comfortable with
 - Worried taking on too much risk here
 - Also concerned about overlap across these positions
- Goals/Research Agenda:
 - De-risking fixed income sleeve, doesn't want to be taking unnecessary risk
 - Interested in any consolidation opportunities, especially in terms of bond positions

	Asset Class	Category	Client Model
Fund 1	U.S. Equity	US Fund Large Value	10.00%
Fund 2	U.S. Equity	US Fund Large Value	10.00%
Fund 3	U.S. Equity	US Fund Large Growth	8.00%
Fund 4	U.S. Equity	US Fund Large Growth	8.00%
Fund 5	U.S. Equity	US Fund Mid-Cap Value	3.00%
Fund 6	U.S. Equity	US Fund Mid-Cap Growth	3.00%
Fund 7	U.S. Equity	US Fund Small Blend	6.00%
Fund 8	International Equity	US Fund Foreign Large Growth	4.50%
Fund 9	International Equity	US Fund Foreign Large Value	4.50%
Fund 10	International Equity	US Fund Diversified Emerging Mkts	3.00%
Fund 11	Taxable Bond	US Fund Intermediate Core-Plus Bond	10.00%
Fund 12	Taxable Bond	US Fund Intermediate Core-Plus Bond	10.00%
Fund 13	Taxable Bond	US Fund Multisector Bond	8.00%
Fund 14	Taxable Bond	US Fund Nontraditional Bond	6.00%
Fund 15	Taxable Bond	US Fund Short-Term Bond	4.00%
Fund 16	Money Market	US Fund Money Market - Taxable	2.00%
Fund 17	Taxable Bond	US Fund Intermediate Core Bond	

Category Source: Morningstar
Funds and current portfolio weights provided by client
Past performance is no guarantee of future results

Tail Risk Assessment

	Asset Class	Category	99% Conf CVaR (Tail Risk)
Fund 1	U.S. Equity	US Fund Large Value	-45.35%
Fund 2	U.S. Equity	US Fund Large Value	-40.36%
Fund 3	U.S. Equity	US Fund Large Growth	-32.71%
Fund 4	U.S. Equity	US Fund Large Growth	-31.99%
Fund 5	U.S. Equity	US Fund Mid-Cap Value	-57.34%
Fund 6	U.S. Equity	US Fund Mid-Cap Growth	-35.14%
Fund 7	U.S. Equity	US Fund Small Blend	-54.85%
Fund 8	International Equity	US Fund Foreign Large Growth	-30.35%
Fund 9	International Equity	US Fund Foreign Large Value	-54.32%
Fund 10	International Equity	US Fund Diversified Emerging Mkts	-30.57%
Fund 11	Taxable Bond	US Fund Intermediate Core-Plus Boi	-15.96%
Fund 12	Taxable Bond	US Fund Intermediate Core-Plus Boi	-15.51%
Fund 13	Taxable Bond	US Fund Multisector Bond	-20.51%
Fund 14	Taxable Bond	US Fund Nontraditional Bond	-24.08%
Fund 15	Taxable Bond	US Fund Short-Term Bond	-15.53%
Fund 16	Money Market	US Fund Money Market - Taxable	0.00%
Fund 17	Taxable Bond	US Fund Intermediate Core Bond	-10.61%

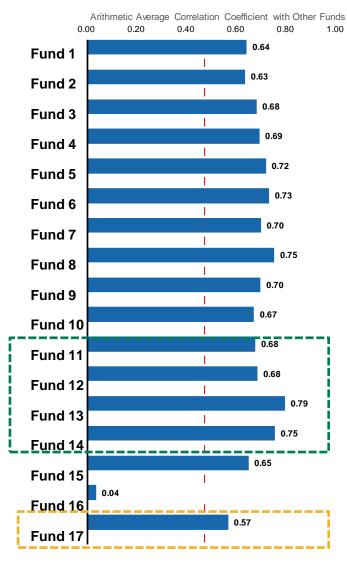
- Conditional Value at Risk (CVaR) measures the amount of tail risk an investment has
- Assesses likelihood or probability that an investment will incur extreme losses
- High quality core bond can have much lower tail risk than core plus, multisector and nontraditional bond strategies

Source: Morningstar Direct and Capital Market Assumption Methodology.

The Appendix describes our Capital Market Assumption methodology. The timeframe for these estimates is a full market cycle (*pically 7 to 10 years). The data are expected annual average values over this full market cycle. Data as of 12/31/2023

Average Correlations

Average Correlation Coefficient of Fund with All Other Client and ACI Portfolio Funds

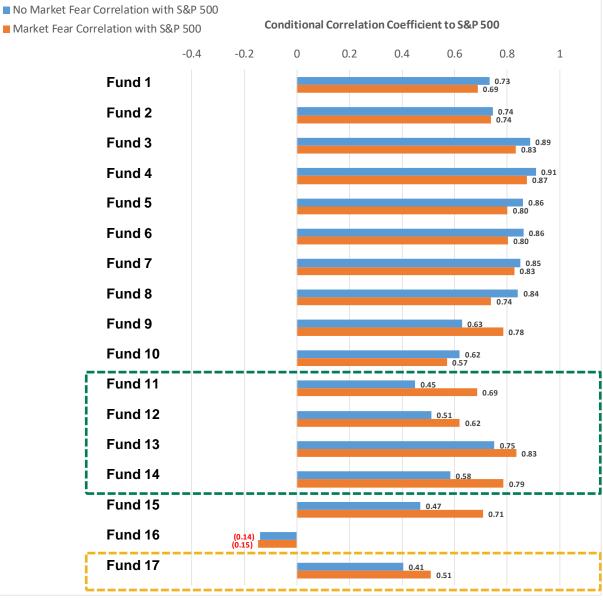


- Average correlation coefficient of each position with all others in model or being tested.
- Illustrates which positions offering most diversification benefit within model.
- High quality core bond can provide much stronger diversification than core plus, multisector and nontraditional bond strategies.

Source: Morningstar Direct and Capital Market Assumption Methodology,

The Appendix describes our Capital Market Assumption methodology. The timeframe for these estimates is a full market cycle (typically 7 to 10 years). The data are expected annual average values over this full market cycle. Data as of 12/31/2023.

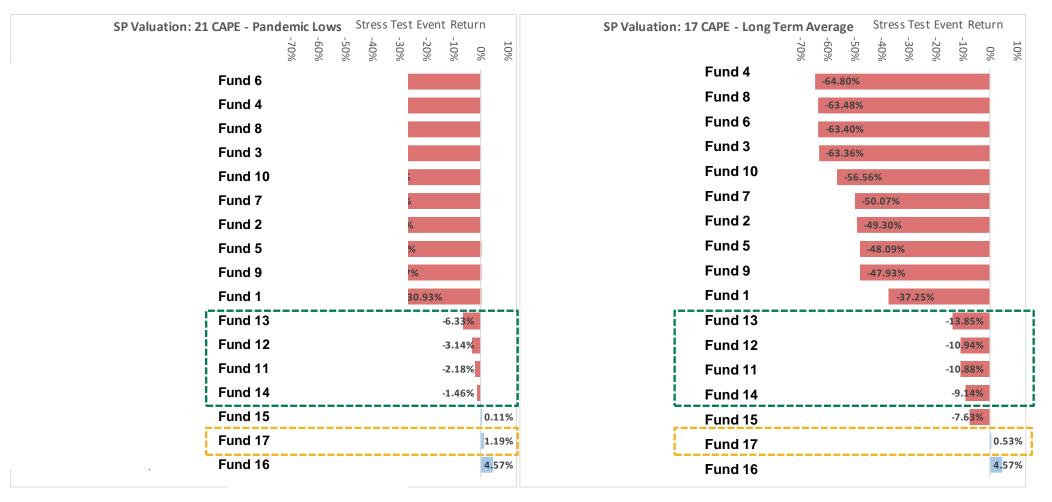
Conditional Correlations to the S&P 500



- Monthly return correlations of each position to S&P 500 under two market conditions:
 - Blue bar VIX indicating "no market fear"
 - Orange bar VIX indicating "market fear"
- Demonstrates how correlations might change in the event of a sudden increase in market volatility
- High quality core bond strategies tend to better retain their diversification benefit during times when models need it the most

VIX is known as the "Market Fear Gauge" and high positive VIX returns (i.e. >5% monthly) are associated with large jumps in equity market volatility and increased market risk aversion Source: Morningstar Direct and Capital Market Assumption Methodology Data as of 12/31/2023.

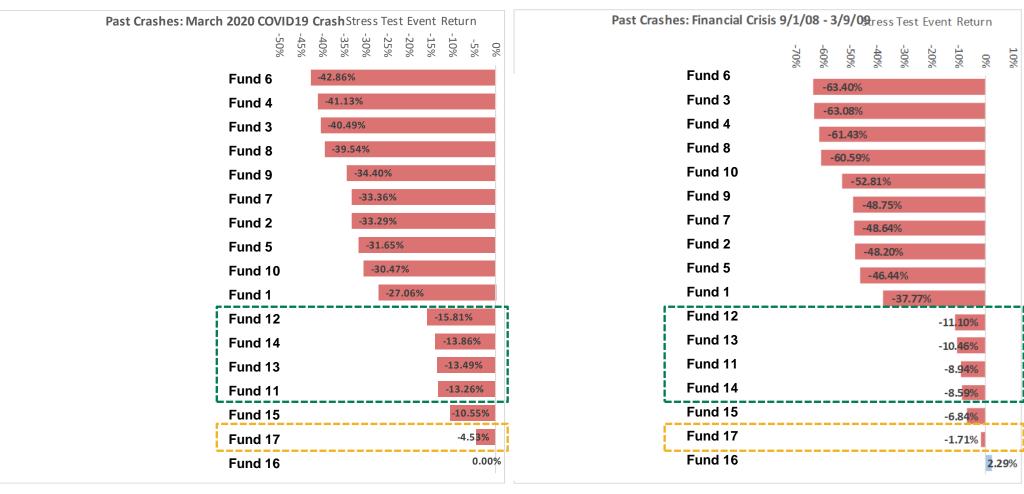
Stress Testing: Hypothetical Recessions



Source: HiddenLevers and Capital Market Assumption Methodology. Data as of 12/31/2023

See Index of Terms page for definitions of Monte Carlo Simulation and Simulated Estimates and HiddenLevers™ Portfolio Stress Testing methodology/disclaimers

Stress Testing: Historical Crashes



Source: HiddenLevers and Capital Market Assumption Methodology.

 $See \ Index \ of \ Terms \ page \ for \ definitions \ of \ Monte \ Carlo \ Simulation \ and \ Simulated \ Estimates \ and \ Hidden Levers^{TM} \ Portfolio \ Stress \ Testing \ methodology/disclaimers$

Optimization: Client Model plus ACI Ideas with Lower/Upper Constraints

	5 . 14	Asset Class	Category	Client Model	Lower Bound	Upper Bound
	Fund 1	U.S. Equity	US Fund Large Value	10.00%	8.00%	12.00%
	Fund 2	U.S. Equity	US Fund Large Value	10.00%	8.00%	12.00%
	Fund 3	U.S. Equity	US Fund Large Growth	8.00%	6.00%	10.00%
	Fund 4	U.S. Equity	US Fund Large Growth	8.00%	6.00%	10.00%
	Fund 5	U.S. Equity	US Fund Mid-Cap Value	3.00%	2.00%	4.00%
	Fund 6	U.S. Equity	US Fund Mid-Cap Growth	3.00%	2.00%	4.00%
	Fund 7	U.S. Equity	US Fund Small Blend	6.00%	4.00%	8.00%
	Fund 8	International Equity	US Fund Foreign Large Growth	4.50%	3.50%	5.50%
	Fund 9	International Equity	US Fund Foreign Large Value	4.50%	3.50%	5.50%
	Fund 10	International Equity	US Fund Diversified Emerging Mkts	3.00%	2.00%	4.00%
	Fund 11	Taxable Bond	US Fund Intermediate Core-Plus Bond	10.00%	0.00%	12.00%
	Fund 12	Taxable Bond	US Fund Intermediate Core-Plus Bond	10.00%	0.00%	12.00%
	Fund 13	Taxable Bond	US Fund Multisector Bond	8.00%	7.00%	10.00%
	Fund 14	Taxable Bond	US Fund Nontraditional Bond	6.00%	5.00%	8.00%
	Fund 15	Taxable Bond	US Fund Short-Term Bond	4.00%	3.00%	5.00%
	Fund 16	Money Market	_US Eund Money Market - Taxable	2.00%	2 00%	2.00%_
	Fund 17	Taxable Bond	US Fund Intermediate Core Bond		0.00%	20.00%
Bold/Italics Funds Have (0% Lower Weight (Constraint	Sum	100.0%		

Portfolio Weight Sum Warning

Outside funds for consideration are based solely on quantitative screening metrics within the diagnostic tool and are not recommendations based on your or your client's particular needs or situation. American Century Investments is not affiliated with the other listed investment companies. Portfolio weightings are determined by the optimization tool.

Category Source: Morningstar

Funds and current portfolio weights provided by client

Optimization: Changes in Weights at Position Level

		Client Portfolio	Equal Return & Lower Risk Portfolio with ACI Ideas		
	Morningstar Fund Category	Fund Weights	Fund Weight Change	New Fund Weights	
Fund 1	US Fund Large Value	10.0%	2.0%	12.0%	
Fund 2	US Fund Large Value	10.0%	-2.0%	8.0%	
Fund 3	US Fund Large Growth	8.0%	2.0%	10.0%	
Fund 4	US Fund Large Growth	8.0%	-2.0%	6.0%	
Fund 5	US Fund Mid-Cap Value	3.0%	1.0%	4.0%	
Fund 6	US Fund Mid-Cap Growth	3.0%	-1.0%	2.0%	
Fund 7	US Fund Small Blend	6.0%	-0.8%	5.2%	
Fund 8	US Fund Foreign Large Growth	4.5%	-1.0%	3.5%	
Fund 9	US Fund Foreign Large Value	4.5%	-1.0%	3.5%	
Fund 10	US Fund Diversified Emerging Mkts	3.0%	1.0%	4.0%	
Fund 11	US Fund Intermediate Core-Plus Bond	10.0%	-5.2%	4.8%	
Fund 12	US Fund Intermediate Core-Plus Bond	10.0%	-10.0%	0.0%	
Fund 13	US Fund Multisector Bond	8.0%	-1.0%	7.0%	
Fund 14	US Fund Nontraditional Bond	6.0%	-1.0%	5.0%	
Fund 15	US Fund Short-Term Bond	4.0%	-1.0%	3.0%	
Fund 16	US Fund Money Market - Taxable	2.0%	0.0%	2.0%	
Fund 17	US Fund Intermediate Core Bond	0.0%	20.0%	20.0%	
	TOTALS	100.0%	0.0%	100.0%	

Increase in Weight Decrease in Weight

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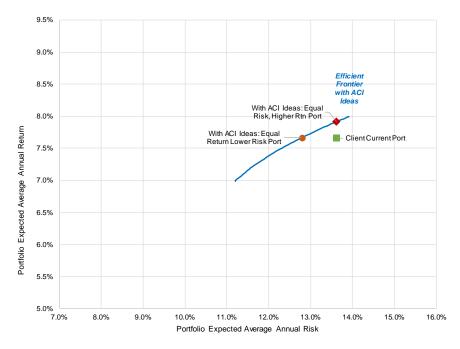
Source: Morningstar Direct and Capital Market Assumption Methodology

Color Key

The data are expected annual average values over this full market cycle. Data as of 12/31/2023

Optimization: Efficient Frontier and Model Impact

Efficient Frontier: Portfolio with ACI



	Current Portfolio	Equal Return Lower Risk Portfolio w ACI Ideas
Average Annual Expected Return	7.68%	7.68%
Average Annual Expected Risk	13.67%	12.80%
Portfolio Rtn Dist Skew	(0.521)	(0.509)
Portfolio Rtn Dist Kurtosis	4.029	3.921
Sharpe Ratio	0.397	0.424
Fixed Income Duration	5.589	5.616
12 Month Yield	3.08%	3.09%
Total Expense Ratio (TER)	0.54%	0.51%
Weighted Ave. Correlation	0.707	0.648
% Risk Reduction (St. Dev.)	-12.2%	-17.7%
Wtd. Ave Portfolio Return %ile Rank	53%	43%
Wtd. Ave. Portfolio Sharpe %ile Rank	56%	45%
Downside Capture (vs S&P 500)	87.5%	82.3%
Upside Capture (vs S&P 500)	86.2%	82.8%
Overall Capture Ratio (vs S&P 500)	98.6%	100.5%
% Invest Grade Credit Quality	79.8%	85.8%
99% CVaR	-31.66%	-29.24%

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Source: Morningstar Direct and Capital Market Assumption Methodology

The data are expected annual average values over this full market cycle. Data as of 12/31/2023

Case Study 2: Extending Duration

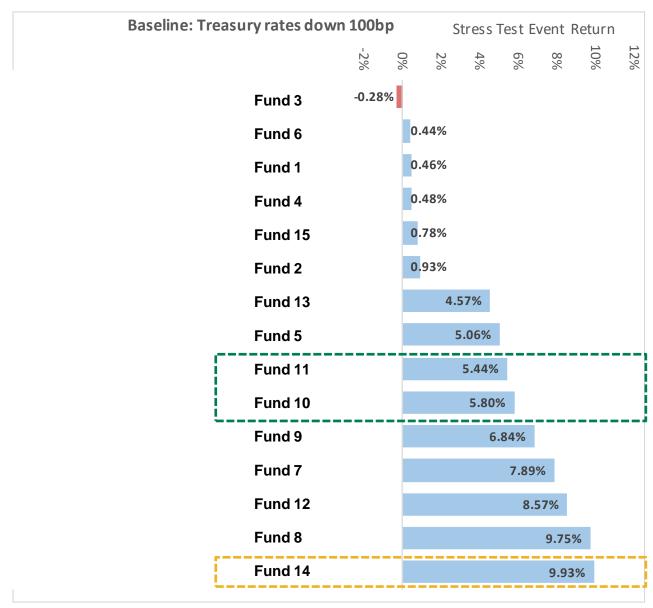
Advisor Discovery Call Notes / Model:

- Macro Views:
 - Advisor thinking slowdown/ankle-deep recession
 - Believes rate cuts coming by middle of 2024
- Primary Concern:
 - Duration is his main worry, as feels he is too short. Currently sitting at about 1.5
 - Been heavily tilted short duration for some time. While has worked out, thinking time to pull back
- Goals/Research Agenda:
 - Extending duration, but wants to move in "baby steps"
 - Looking to lower model's risk profile a bit
 - Considering replacing real estate with another sector, looking for ideas
 - Any new ideas need to be ETFs

	Asset Class	Category	Client Model
Fund 1	U.S. Equity	US Fund Large Blend	26.00%
Fund 2	U.S. Equity	US Fund Large Blend	10.00%
Fund 3	U.S. Equity	US Fund Large Growth	14.00%
Fund 4	U.S. Equity	US Fund Mid-Cap Blend	13.00%
Fund 5	Sector Equity	US Fund Real Estate	3.00%
Fund 6	Sector Equity	US Fund Communications	4.00%
Fund 7	Taxable Bond	US Fund Preferred Stock	3.00%
Fund 8	Municipal Bond	_US Fund Muni National Interm	3.00%
Fund 9	Taxable Bond	US Fund Short-Term Bond	5.00%
Fund 10	Taxable Bond	US Fund Ultrashort Bond	7.00%
Fund 11	Taxable Bond	US Fund Ultrashort Bond	8.00%
Fund 12	Taxable Bond	US Fund Bank Loan	2.00%
Fund 13	Money Market	US Fund Money Market - Taxable	2.00%
Fund 14	Taxable Bond	US Fund Corporate Bond	
Fund 15	Sector Equity	US Fund Health	

Category Source: Morningstar
Funds and current portfolio weights provided by client

Stress Testing: Treasury Rates Down 100



Source: HiddenLevers and Capital Market Assumption Methodology. Data as of 12/31/2023

 $See\ Index\ of\ Terms\ page\ for\ definitions\ of\ Monte\ Carlo\ Simulation\ and\ Simulated\ Estimates\ and\ HiddenLevers^{\texttt{TM}}\ Portfolio\ Stress\ Testing\ methodology/disclaimers$

Optimization: Changes in Weights at Position Level

			Client Portfolio	Equal Return & Lower Risk Portfolio with ACI Ideas	
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	Fund 1	US Fund Large Blend	26.0%	-2.0%	24.0%
	Fund 2	US Fund Large Blend	10.0%	2.0%	12.0%
	Fund 3	US Fund Large Growth	14.0%	-2.0%	12.0%
	Fund 4	US Fund Mid-Cap Blend	13.0%	-2.0%	11.0%
	Fund 5	US Fund Real Estate	3.0%	-3.0%	0.0%
	Fund 6	US Fund Communications	4.0%	-2.0%	2.0%
	Fund 7	US Fund Preferred Stock	3.0%	-1.0%	2.0%
	Fund 8	US Fund Muni National Interm	3.0%	1.0%	4.0%
	Fund 9	US Fund Short-Term Bond	5.0%	1.0%	6.0%
	Fund 10	US Fund Ultrashort Bond	7.0%	2.0%	9.0%
	Fund 11	US Fund Ultrashort Bond	8.0%	-6.0%	2.0%
	Fund 12	US Fund Bank Loan	2.0%	-2.0%	0.0%
	Fund 13	US Fund Money Market - Taxable	2.0%	0.0%	2.0%_
L.	Fund 14	US Fund Corporate Bond	0.0%	10.0%	10.0%
	Fund 15	US Fund Health	0.0%	4.0%	4.0%
Color Key		TOTALS	100.0%	0.0%	100.0%
rease in Weigh	nt				

Increase in Weight Decrease in Weight

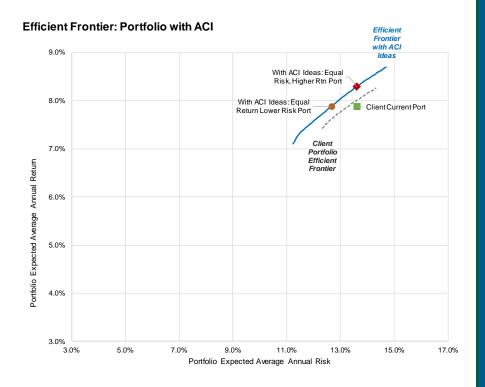
Outside funds for consideration are based solely on quantitative screening metrics within the diagnostic tool and are not recommendations based on your or your client's particular needs or situation. American Century Investments is not affiliated with the other listed investment companies. Portfolio weightings are determined by the optimization tool.

Source: Morningstar Direct and Capital Market Assumption Methodology

The data are expected annual average values over this full market cycle.

Data as of 12/31/2023

Optimization: Efficient Frontier and Model Impact



	Current Portfolio	Equal Return Lower Risk Portfolio w ACI Ideas
Average Annual Expected Return	7.90%	7.90%
Average Annual Expected Risk	13.68%	12.67%
Portfolio Rtn Dist Skew	(0.423)	(0.370)
Portfolio Rtn Dist Kurtosis	3.386	3.272
Sharpe Ratio	0.413	0.446
Fixed Income Duration	1.477	2.636
12 Month Yield	2.54%	2.53%
Total Expense Ratio (TER)	0.26%	0.25%
Weighted Ave. Correlation	0.592	0.640
% Risk Reduction (St. Dev.)	-6.3%	-13.2%
Wtd. Ave Portfolio Return %ile Rank	32%	26%
Wtd. Ave. Portfolio Sharpe %ile Rank	30%	24%
Downside Capture (vs S&P 500)	80.4%	74.9%
Upside Capture (vs S&P 500)	83.7%	79.3%
Overall Capture Ratio (vs S&P 500)	104.1%	105.9%
% Invest Grade Credit Quality	90.3%	97.5%
99% CVaR	-28.43%	-25.33%

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Source: Morningstar Direct and Capital Market Assumption Methodology The data are expected annual average values over this full market cycle.

Data as of 12/31/2023

American Century Investments

- Performance Focused for 60 Years
- Pure-Play Business Model
- Privately Controlled and Independent
- Prosper With Purpose®

Managing Money, Making an Impact

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Every day, people focus on making the world a better place for themselves, their families and their organizations. It is possible to live a more meaningful and impactful life and give back something that's more valuable than money.

When you invest with us, you can also invest in the future of others and have the potential to impact the lives of millions. That's possible because of the distinct relationship with the Stowers Institute for Medical Research, which owns more than 40% of American Century Investments. Our dividend payments provide ongoing financial support for the Institute's work of uncovering the causes, treatments and prevention of life-threatening diseases, like cancer.

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