
5 Must-Knows about In-Retirement Spending



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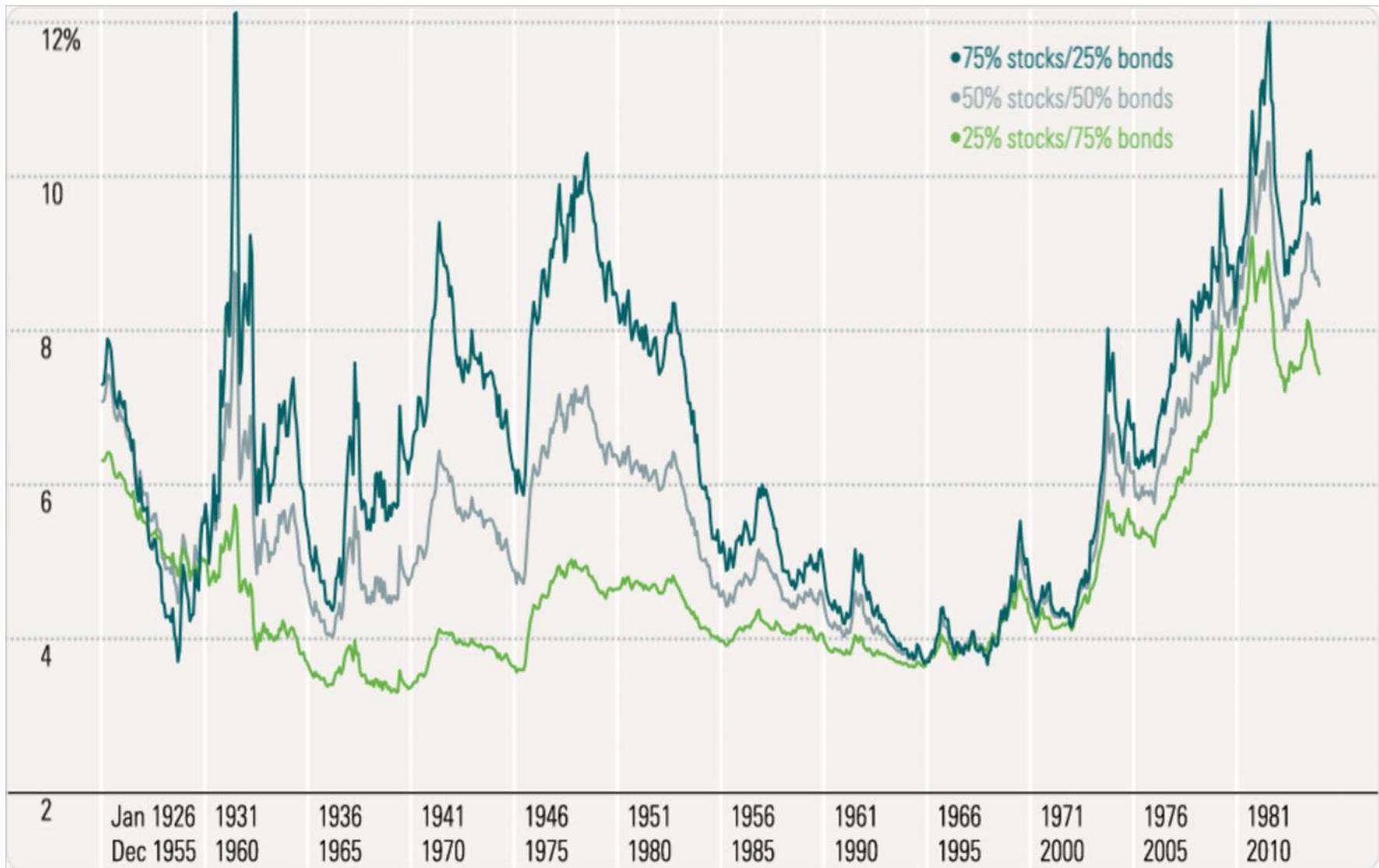
Quick Morningstar Overview

- We provide financial information, research, and products to:
 - Individuals
 - Financial advisors
 - Institutional investors
- Provide research on:
 - Mutual funds and ETFs, separate accounts, CITs
 - 529s, HSAs
 - Bonds/credit ratings
 - Private securities (venture capital, private equity) (PitchBook)
 - Sustainable/ESG investing
 - Portfolio construction and planning

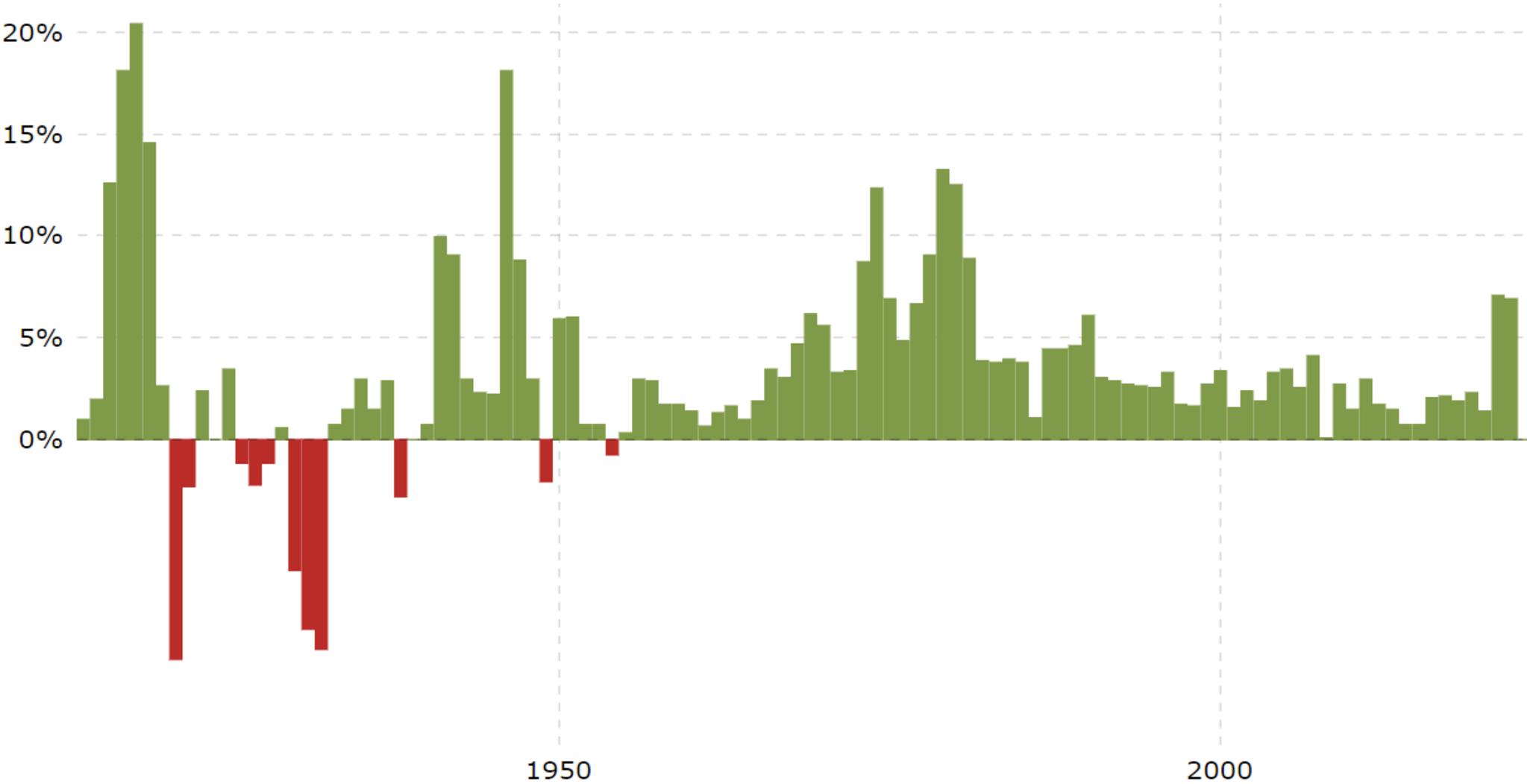
Presentation Roadmap

- Why the problem is such a hard one
- 5 key lessons from the research on withdrawal rates
 - Beginning market conditions matter a lot
 - Asset allocation is important
 - Inflation is a force to be reckoned with
 - Retirees' own spending is apt to be variable over the life cycle
 - Variable withdrawal approaches can enlarge starting and lifetime withdrawal rates

Market conditions are tough to predict

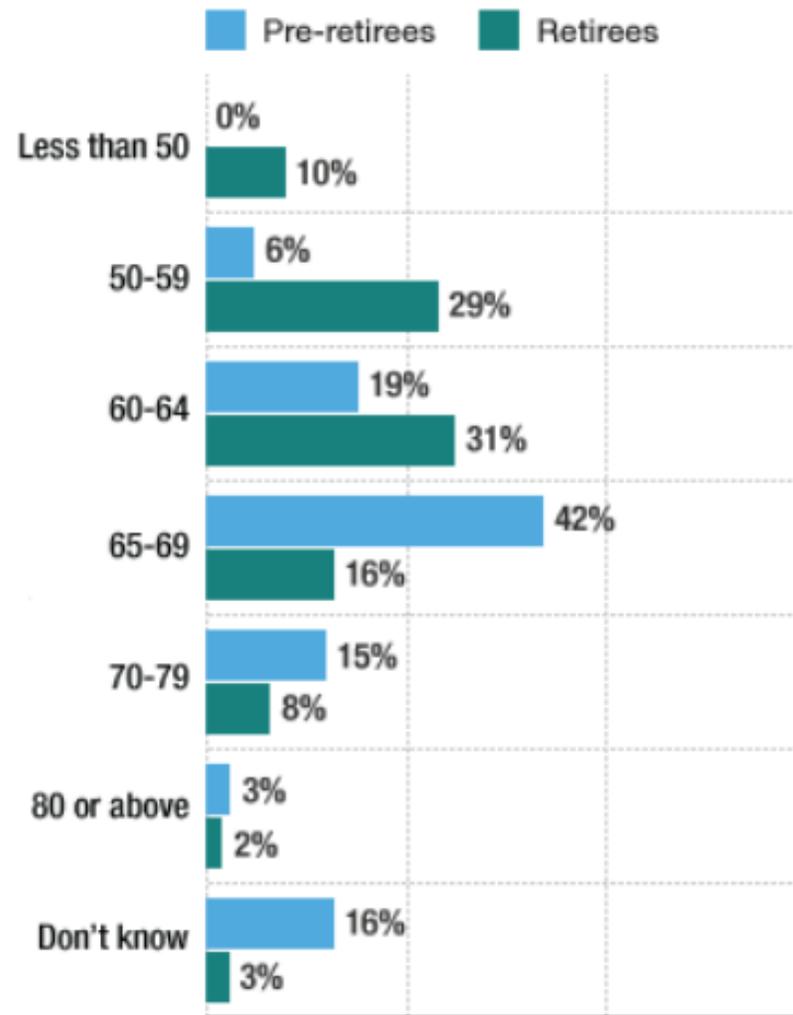


Inflation is also difficult to foresee



Source: Macrotrends.net
<https://www.macrotrends.net/2497/historical-inflation-rate-by-year>

Even setting a retirement date is hard!

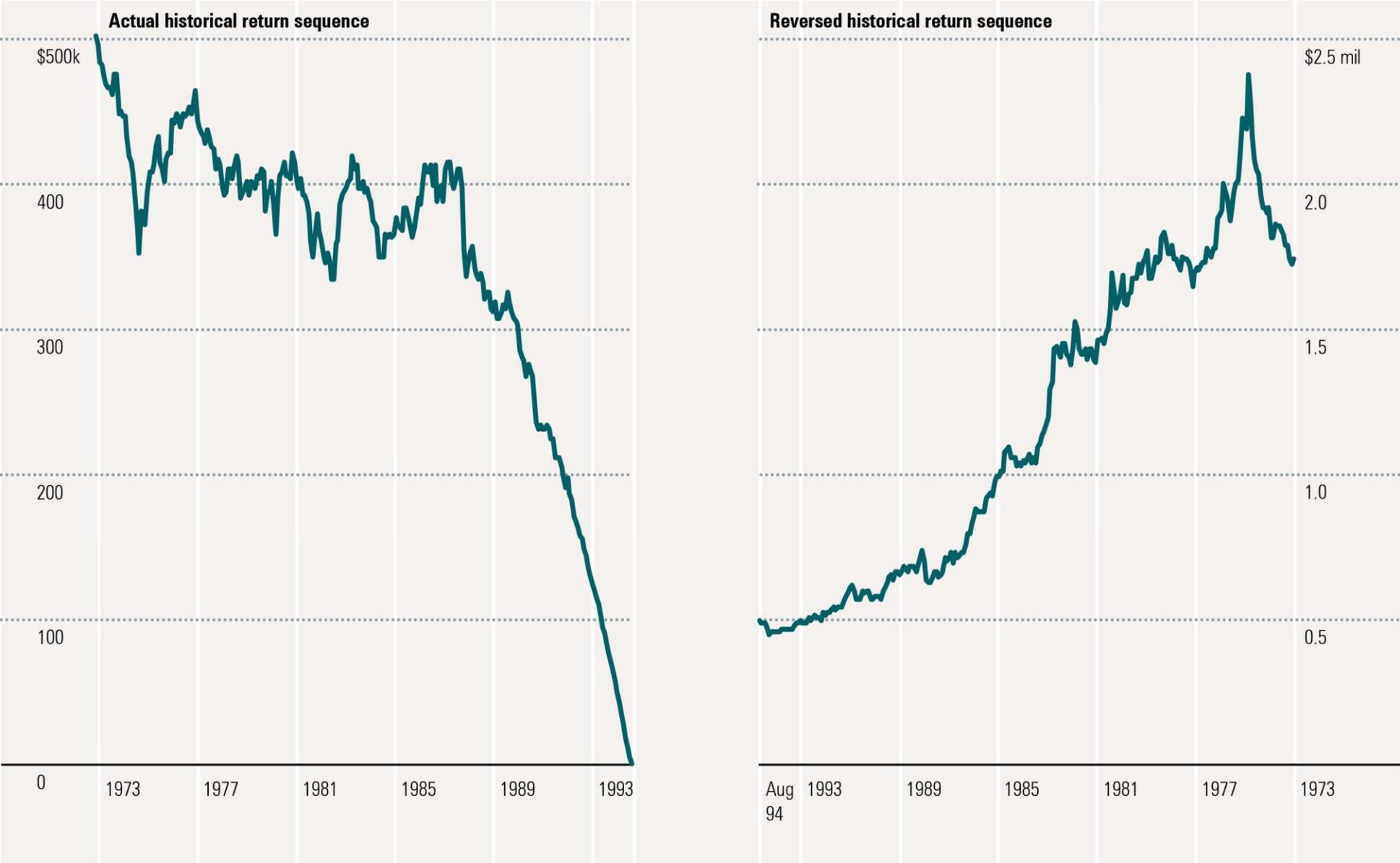


Survey: NPR, The Robert Wood Johnson Foundation, Harvard School of Public Health

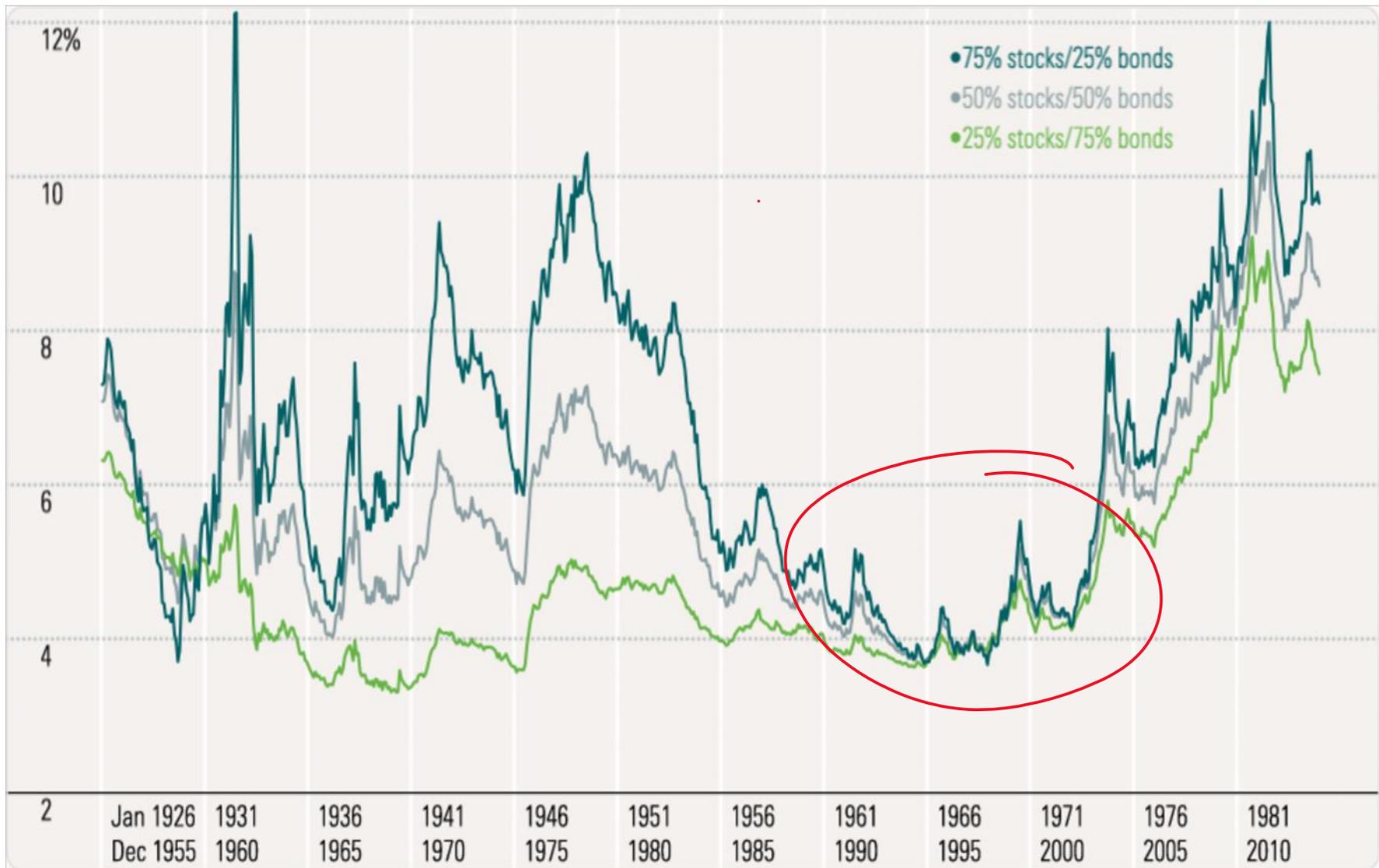
The wild cards are stacking up

- Stock and bond market returns
- Inflation
- The retirement date
- Retiree's own spending patterns (e.g., long-term care costs)
- LIFE EXPECTANCY

Lesson 1: Beginning conditions matter a lot



The "right" withdrawal rate? It depends



Gauging current conditions: A dashboard

Ideal conditions for starting withdrawals

- Low equity valuations (sell into appreciating market environment)
- Decent cash and bond yields (creates safe cash flows)
- Low inflation (helps preserve purchasing power on portfolio cash flows)

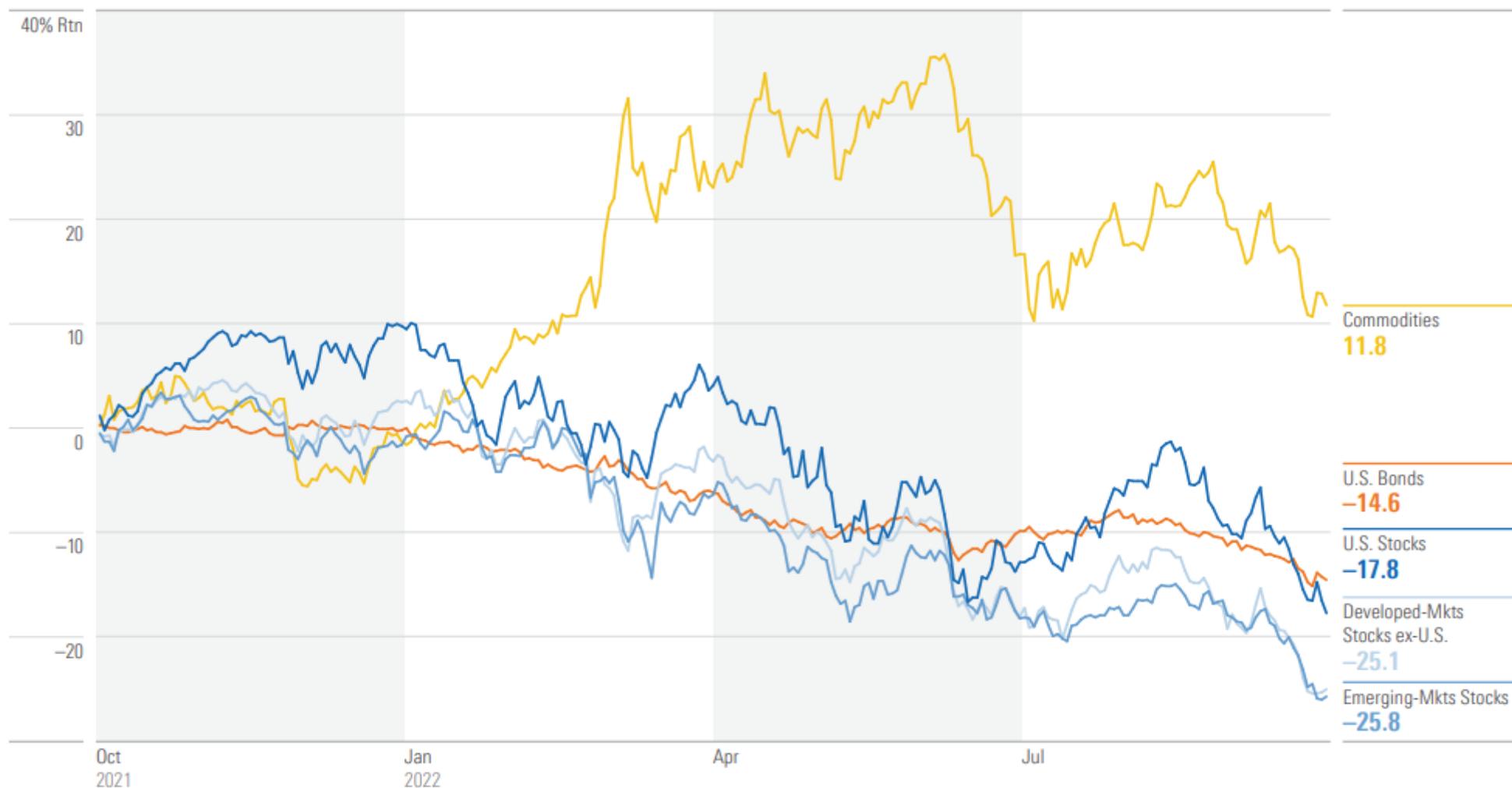
Poor conditions for starting withdrawals

- High equity valuations (sell into declining market environment)
- Low cash and bond yields (meager safe cash flows)
- High inflation (reduces purchasing power of portfolio cash flows)

Where are we today?



2022: A harbinger of better things?

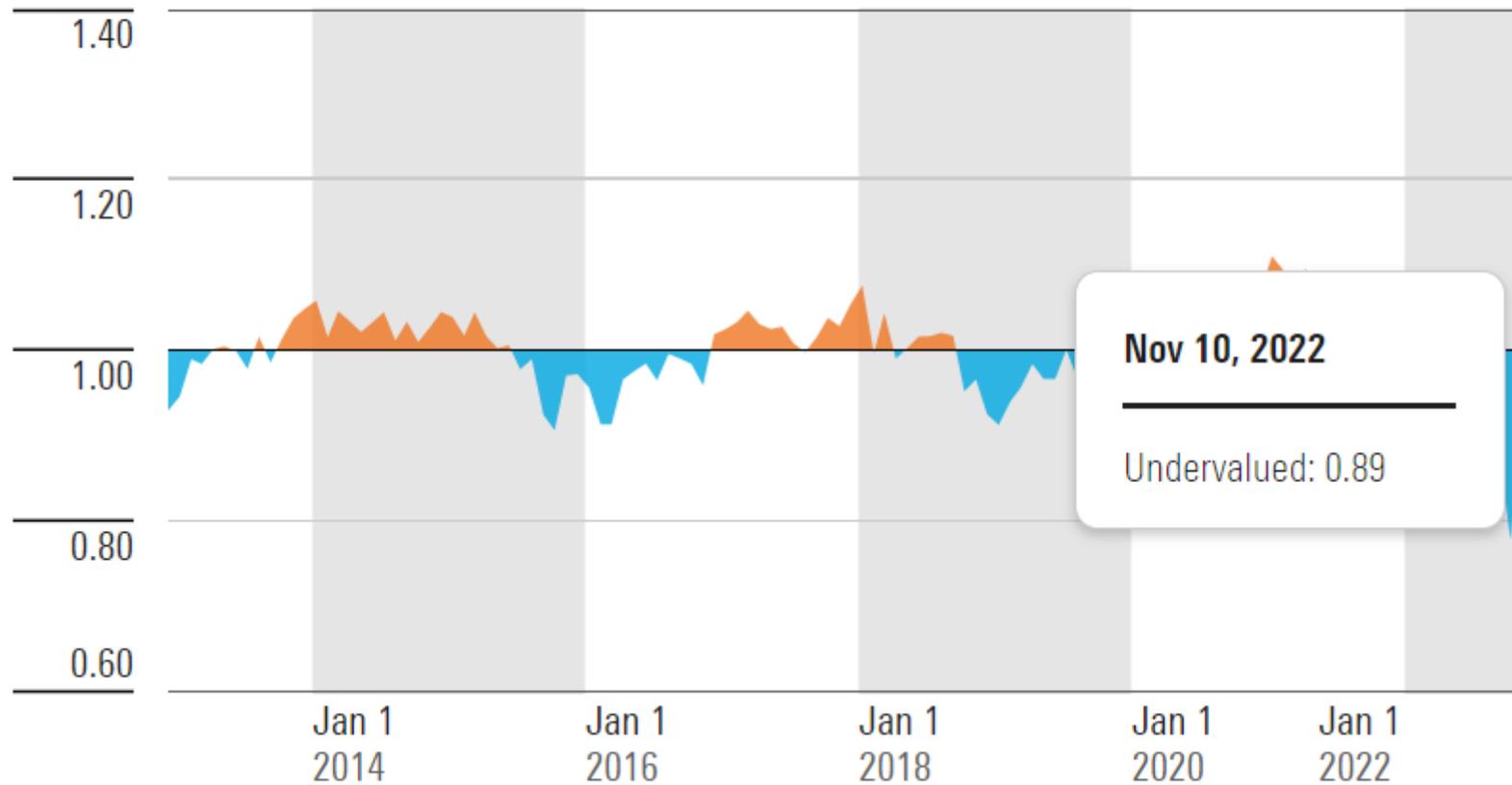


Equity valuations: Improving

U.S. Market Fair Value (10Y)



Overvalued Undervalued



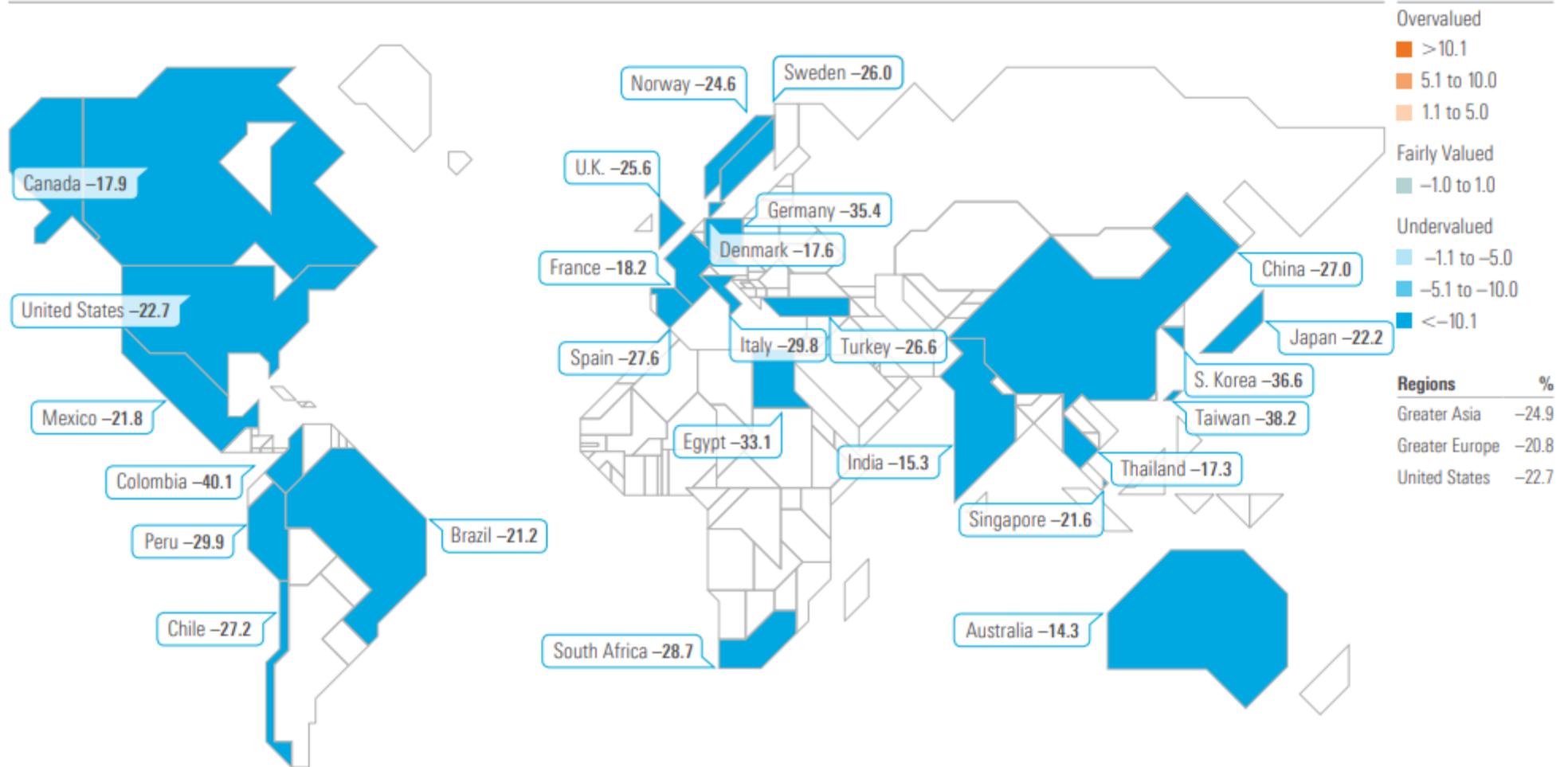
Undervaluation across the style box

U.S. Equity Style Boxes



And across the globe

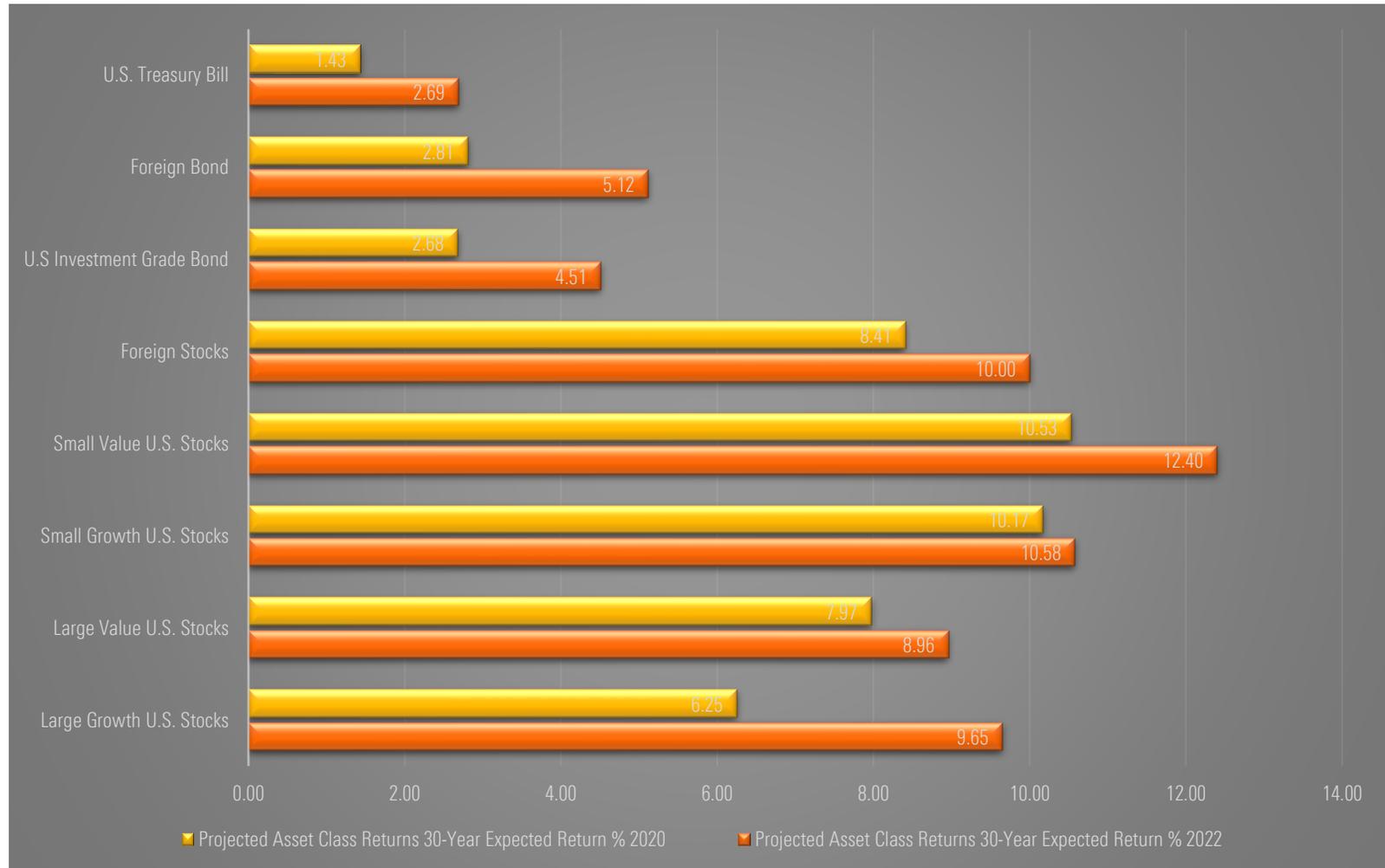
Market-Cap-Weighted Valuation



Bond yields are also looking MUCH better



Outlook for stocks, bonds has improved



Source: Morningstar Investment Management.

And don't just take our word for it

- ▶ **BlackRock Investments Institute (August 2022)**

- 7.8% nominal returns for U.S. equities over next 30 years
- 9.9% nominal returns for emerging markets large caps over next 10 years
- 8.6% nominal returns for European large caps over next 10 years
- 3.4% nominal returns for U.S. aggregate bonds

Better expected stock/bond returns lift starting safe withdrawal rates

- 3.3%: 2020 starting safe withdrawal amount
- 3.8%: 2022 starting safe withdrawal amount

Assumptions:

- Fixed real withdrawals
 - 3.8% of portfolio in year 1:
 - \$38,000 on \$1 mil. portfolio in year 1
 - \$39,140 in year 2
- Balanced stock/bond portfolio
- 90% success rate

Lesson 2: Asset allocation is important

Exhibit 3 Highest and Lowest Starting Safe Withdrawal Rates, by Asset Allocation
 (Rolling 30-Year Time Horizon, Starting From 1930 Through 1990, 90% Success Rate)



Source: Morningstar Direct. Data as of 12/31/2019.

Higher yields point toward value of balance

Stock Weighting	10 Years	15 Years	20 Years	25 Years	30 Years	35 Years	40 Years
100%	8.5	5.9	4.7	3.9	3.5	3.3	3.1
90%	8.7	6.1	4.9	4	3.6	3.3	3.1
80%	8.9	6.2	4.9	4.1	3.7	3.3	3.1
70%	9.1	6.3	5.1	4.2	3.7	3.4	3.2
60%	9.3	6.5	5.2	4.3	3.8	3.4	3.2
50%	9.5	6.6	5.2	4.3	3.8	3.4	3.2
40%	9.6	6.7	5.3	4.4	3.8	3.4	3.2
30%	9.7	6.7	5.3	4.3	3.8	3.4	3.1
20%	9.7	6.7	5.2	4.3	3.7	3.3	3
10%	9.7	6.6	5.1	4.1	3.5	3.1	2.8
0%	9.4	6.4	4.8	3.9	3.3	2.9	2.6

Assumptions: Fixed real withdrawal system, 90% success rate.

Stock returns are higher, but more variable

Projected Asset Class and Portfolio Returns			
		Expected Return % (Arithmetic)	Standard Deviation % (Annual)
Equities	Large Growth U.S. Stocks	9.65	19.06
	Large Value U.S. Stocks	8.96	15.81
	Small Growth U.S. Stocks	10.58	24.71
	Small Value U.S. Stocks	12.4	20.6
	Foreign Stocks	10	18.32
Bonds	U.S. Investment Grade Bond	4.51	5.39
	Foreign Bond	5.12	9.03
Cash	U.S. Treasury Bill	2.69	1.74

Bucket approach provides balance



Bucket 1

For: Years 1 and 2

Holds: Cash

Goal: Fund Near-Term Living Expenses



Bucket 2

For: Years 3-10

Holds: Bonds, Balanced Funds

Goal: Income production, stability, inflation protection



Bucket 3

For: Years 11 and beyond

Holds: Stock

Goal: Growth

Sample in-retirement bucket portfolio

Retirees Spending \$60,000/Year from Portfolio

Bucket 1: Liquidity Portfolio for Years 1 and 2: \$120,000

\$120,000 in CDs, money market accounts/funds, other cash

Bucket 2: Intermediate Portfolio for Years 3-10: \$480,000

\$100,000 in Vanguard Short-Term Bond ETF BSV

\$150,000 in Vanguard Short-Term Inflation-Protected Securities VTIP

\$230,000 in Vanguard Total Bond Market BND

Bucket 3: Growth Portfolio for Years 11 and Beyond: \$900,000

\$350,000 in Vanguard Dividend Appreciation VIG

\$225,000 in Vanguard Total Stock Market Index VTI

\$250,000 in Vanguard FTSE All-World ex-US VEU

\$75,000 in Vanguard High-Yield Corporate VWEHX

But buckets 1 & 2 carry a substantial opportunity cost

- Other “buffer” assets could reduce need to maintain ongoing stake in low-returning assets (Wade Pfau)
 - Standby reverse mortgage
 - Life insurance cash value
 - Annuities
- Alternatively, “bucketed” retiree could simply not fully replenish buckets 1 and 2 once depleted
- Retirees with tighter plans might shrink buckets 1 and 2 as a % of total portfolio (5 years v. 10?)

Lesson 3: Inflation is a force to be reckoned with

“If there’s a 10% inflation rate in the first year of retirement and then it gets back to normal afterward, every future year of spending has been impacted by that first-year inflation rate.” —Wade Pfau

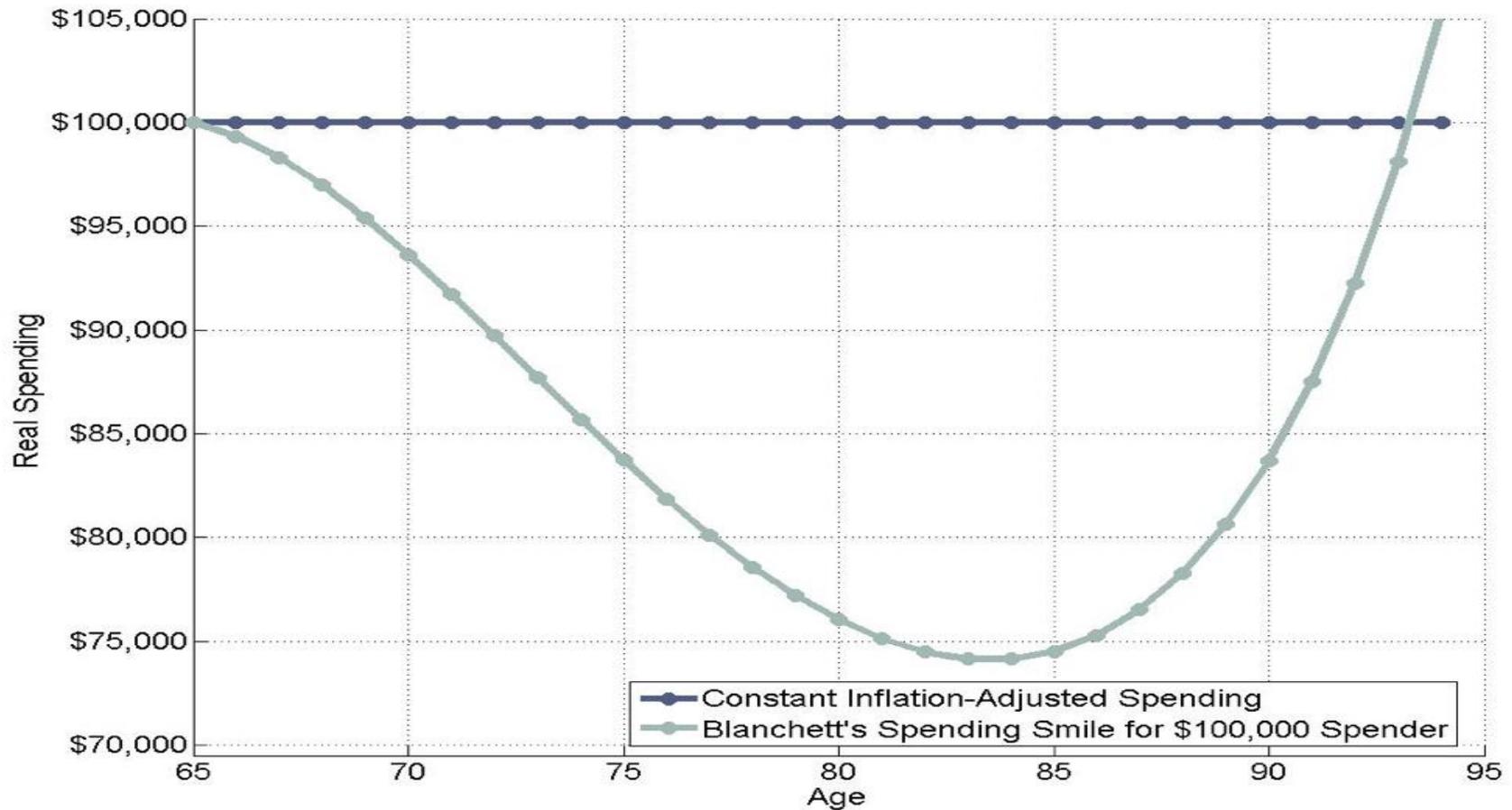
Why inflation can be a big deal in retirement

- Inflation is a factor for all of us, but it's especially negative for retirees because:
 - If high inflation occurs early in retirement, it builds upon itself
 - The categories that older adults tend to spend more on may be inflating more quickly than the general inflation rate
 - The portion of their portfolios that they're withdrawing is not automatically inflation-adjusted (in contrast with our paychecks and Social Security)
 - Inflation is the natural enemy of anything with a fixed payout:
 - Nominal (non-inflation-adjusted) bonds
 - Fixed annuities
 - More conservative portfolios have lower return potential, so inflation takes a bigger bite in percentage terms

Inflation *protection* a harder problem

- At the portfolio level:
 - Treasury Inflation-Protected Securities, I-Bonds
 - Stocks: Best long-run shot at beating inflation
- At the plan level:
 - Delaying Social Security: Enhanced return is also inflation-adjusted
 - Factoring inflation into portfolio-spending plan

Lesson 4: Retirees' own spending is apt to be variable over the life cycle



Source: Retirementresearcher.com.

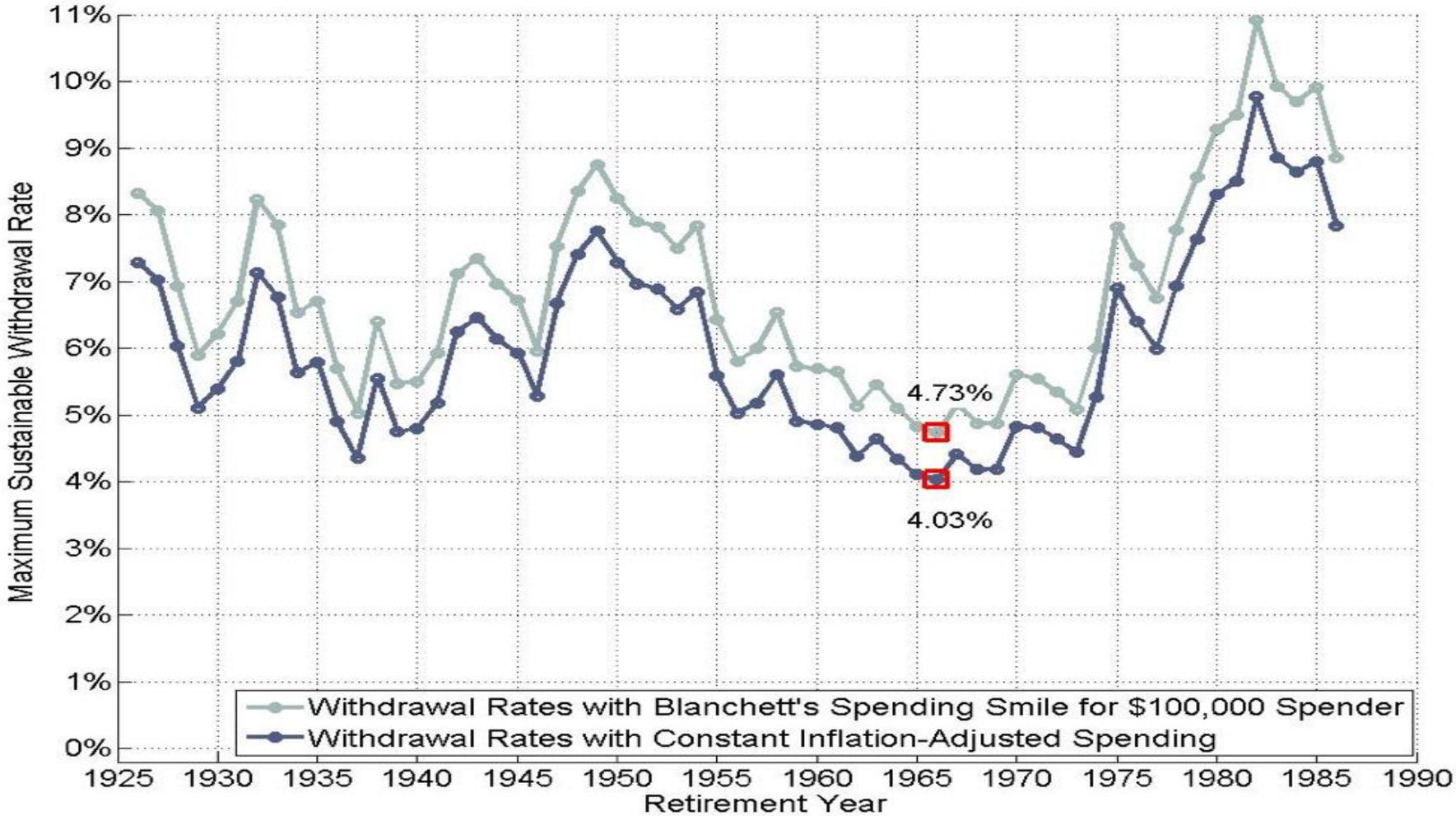
Pattern calls into question withdrawal rate conventions

- Much of the research assumes fixed real expenditures
 - 4% of a \$1 mil. portfolio in year 1: \$40,000
 - Year 2 withdrawal (assuming 3% inflation): \$41,200
- David Blanchett found that actual retiree spending tended to decline in the middle to later years of retirement, before trending up later in life

Takeaways for spending rates

- Retirees' starting withdrawal rates could be higher to factor in lower spending later on (even if they encounter higher spending later in life)
- Retirees' expenditures, on average, increase by 1 percentage point *less* than the inflation rate
- Factor in personal situation, especially status of long-term care coverage

Is 4% actually 4.7%?



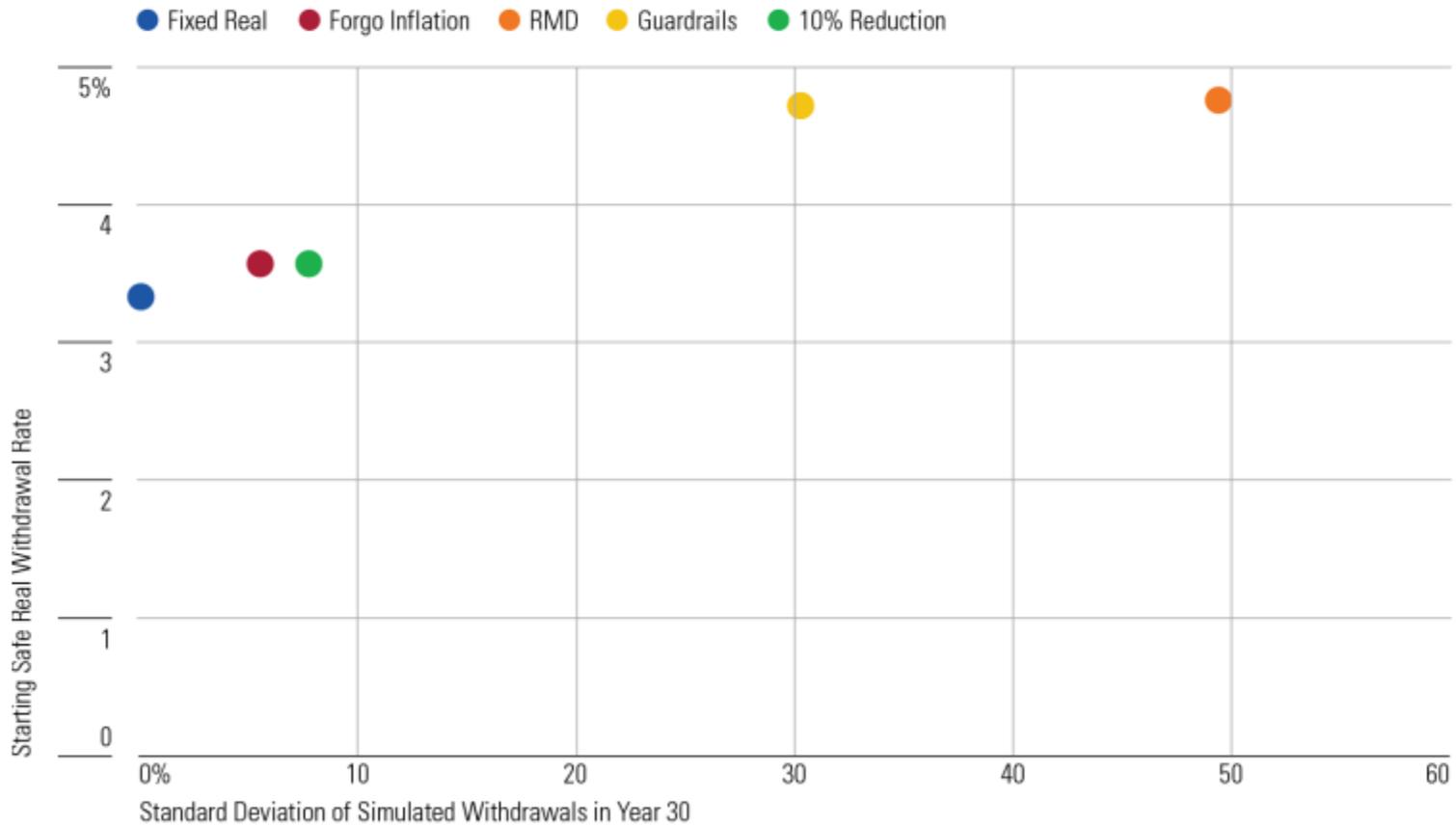
Source: Retirementresearcher.com.

Lesson 5: Variable withdrawal rates can help

- In contrast with fixed real spending systems, variable systems change up withdrawals based on how portfolio behaves
- Simple variable system: Fixed % each year...trade-off is huge cash-flow volatility
- Refinements:
 - RMD-type method
 - “Guardrails” (Jonathan Guyton and William Klinger)
 - Forgoing inflation adjustment following losing portfolio year

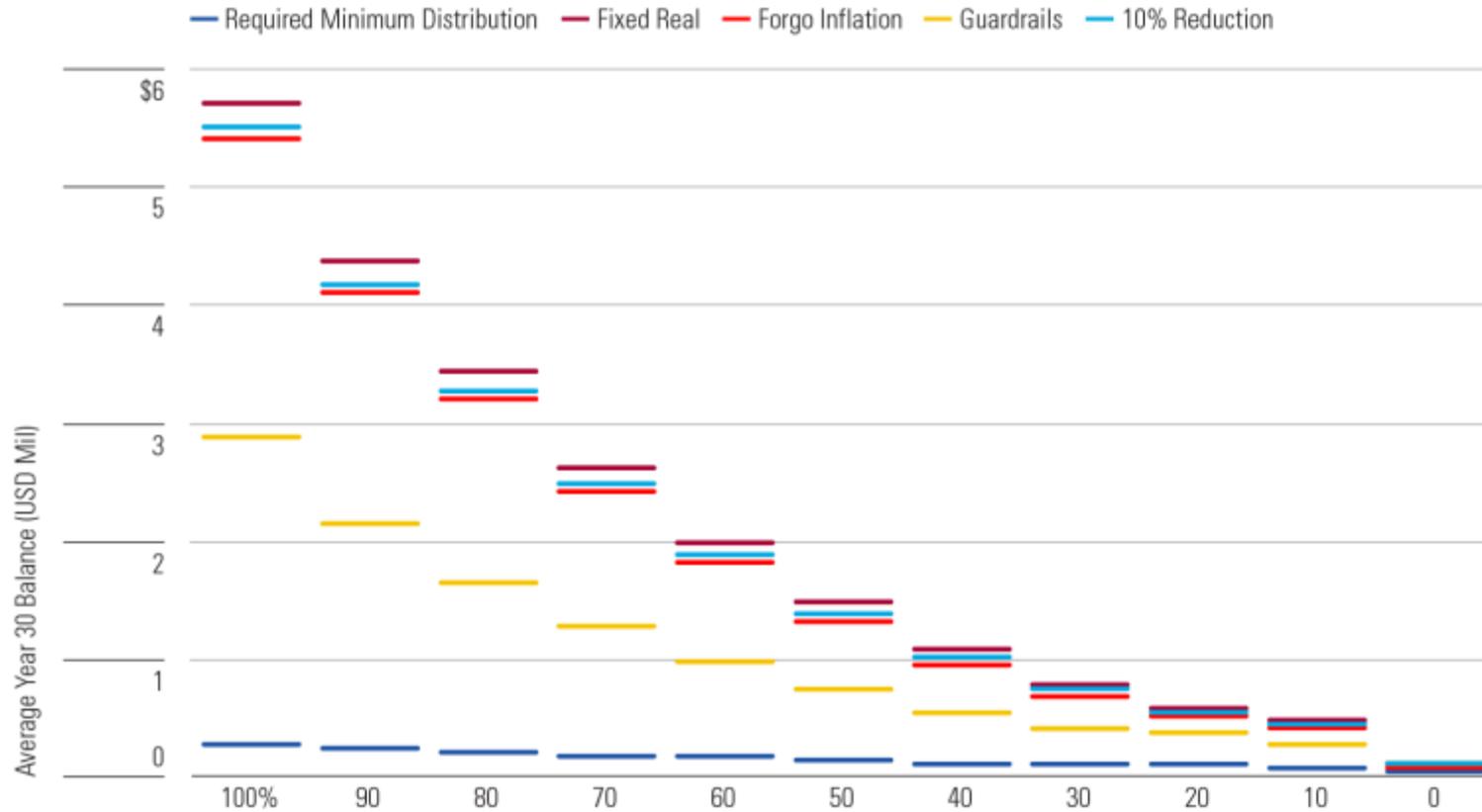
Variable methods entail trade-offs

Exhibit 1 Comparing Withdrawal Methods: Starting Safe Withdrawal Rate vs. Variability of Annual Withdrawal for a 50% Stock/50% Bond Allocation



Including lower ending balances

Exhibit 13 Average Ending Value at Year 30, by Withdrawal Method and Equity Allocation



Source: Morningstar Direct. Data as of 12/31/2020.

Questions/comments

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- LinkedIn: [christine-benz-b83b523/](https://www.linkedin.com/in/christine-benz-b83b523/)
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