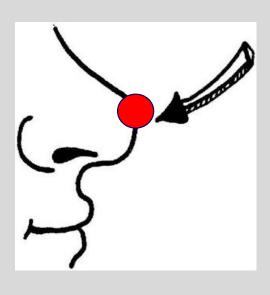
# **Investing for Successful Retirement**

<u>UD Osher – OLLI</u> Spring 2024

- □ Rajeev A. Vaidya
- □ Ron Materniak
- □ Jane Roe-Fox

# Disclaimer in plain language

### Disclaimer - in plain language:



Opinions are like noses, everyone has one!

You are going to see mine in this course!!

We are simply sharing our perspective.

This is not investment advice or recommendation.

Ron, Jane and I are not a financial advisors.

This course is for educational purposes only.

Form your own opinion, make your own investment decisions.

# **Your instructors**

Instructors this semester

- Rajeev Vaidya
- Ron Materniak
- Jane Roe-Fox

**Advisor** 

Guy Werner

# First Class - Feb. 7th

- Class Introduction
- Market update
- ☐ The Basics
  - What's different in investing in retirement?

# Fall 2023 - Class Feedback

OLLI - Investing for Successful F	Retiremo	ent - Fa	II 2023			
Course Evaluation Survey						
Stock Analysis Course	Strongly Agree	Agree	Neither agree or Disagree	Disagree	Strongly Disagree	Not applicable
	5	4	3	2	1	
Course is well organized	83%	17%				
Website materials are effective	75%	25%				
Instructor/s are knowledgeable	92%	8%				
Course objectives were clear	78%	23%				
Course objectives were achieved	67%	33%				
Course met my expectations	75%	23%	2%			
	Yes	No				
Did the learnings from the class have a positive impact on your						
investing?	100%	0%				

# **Class Composition**

- 56 people registered
- ☐ 6 look new to me (10%)

# **Course Content**

### ■ New content of current relevance to investor

- Bonds as an alternative to equities Portfolio Allocation.
- More on ETFs Basics and more.
- Portfolio Management Simplification.

More interaction

- Commodities relevant to green energy.
- ☐ Your input / suggestions are welcome Subjects we don't cover annuities, taxes

### The basics

- Market updates
- Protecting capital and producing income and returns
- Investing ideas that are currently relevant

Goal – Learnings from the class have a positive impact on your investing as a retiree.

# **Need more diversity**

- I am one investor with a view on markets
  - One investor does not make a market
- Looking to get more inputs
  - 2 external speakers confirmed
  - ☐ Jane will cover the topic on RMDs
  - □ Jump in we have many experienced investors in the class. Step up and speak to topics you can cover. Step up and speak to alternate views of the market.
- I will cover this class as long as I can
  - Are you interested in taking over in a few years?

# Class processes / plans

- □ UD OLLI mailed link to all class participants
- □ Link is for a repeating meeting
  - ☐ Same link works for 11 weeks
- Password mailed to you in the welcome note from UD OLLI
  - ☐ Password does not change .. Same for the whole semester
- UD has a restricted policy on recording and sharing
  - Only if all participants agree
  - Only to be shared on an exception basis as needed.

# Class processes / plans

- □ 11 week class.
  - ☐ Spring break March 27<sup>th</sup> No Class
- Draft Schedule posted on the class website.
  - □ Will change as we finalize external speakers and based on your input.
- □ Class website
  - □ <a href="http://udel.edu/~diyinvst">http://udel.edu/~diyinvst</a>
  - Class documents posted each week before class. Stay on the website till the end of the semester. No printed handouts in class.
     Do not share with people outside the class.
- Rajeev Vaidya diyinvst@udel.edu

# **Survey**

- 1. Opt out of getting class Emails from instructors
  - About 1 per week
- 2. Agree to class being recorded and shared on an exception basis with class members who miss a class

## Email survey

- All those saying No to #1, please send me an Email and I will take your name of the distribution list.
- If we have objections on #2, we will not be able to record and share on an exception basis.

# First Class - Feb. 7th

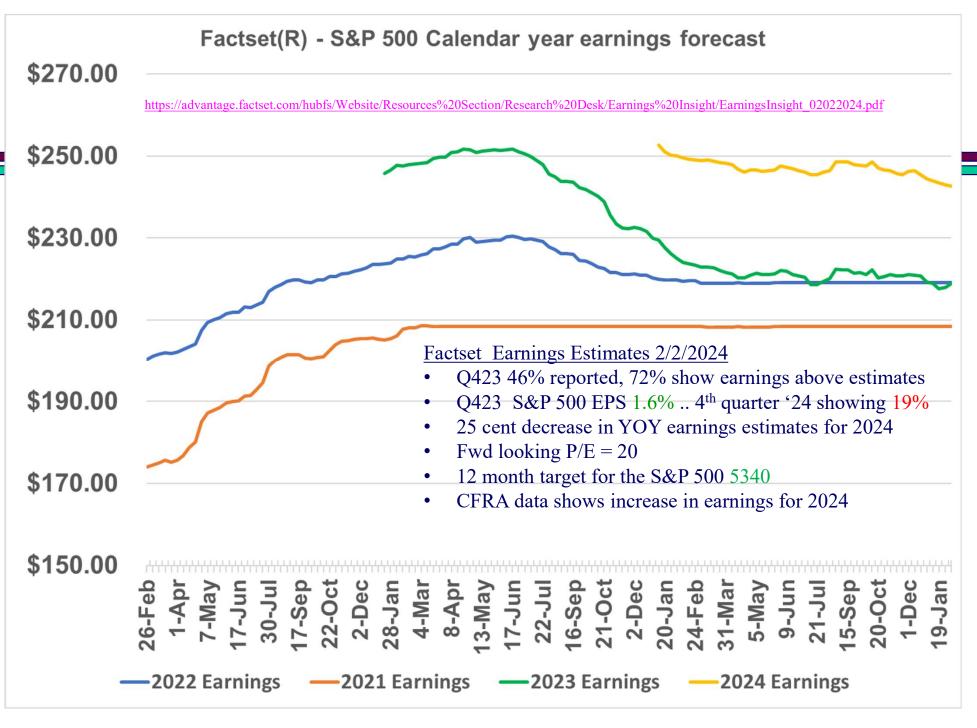
- Class Introduction
- Market update
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  - What's different in investing in retirement?

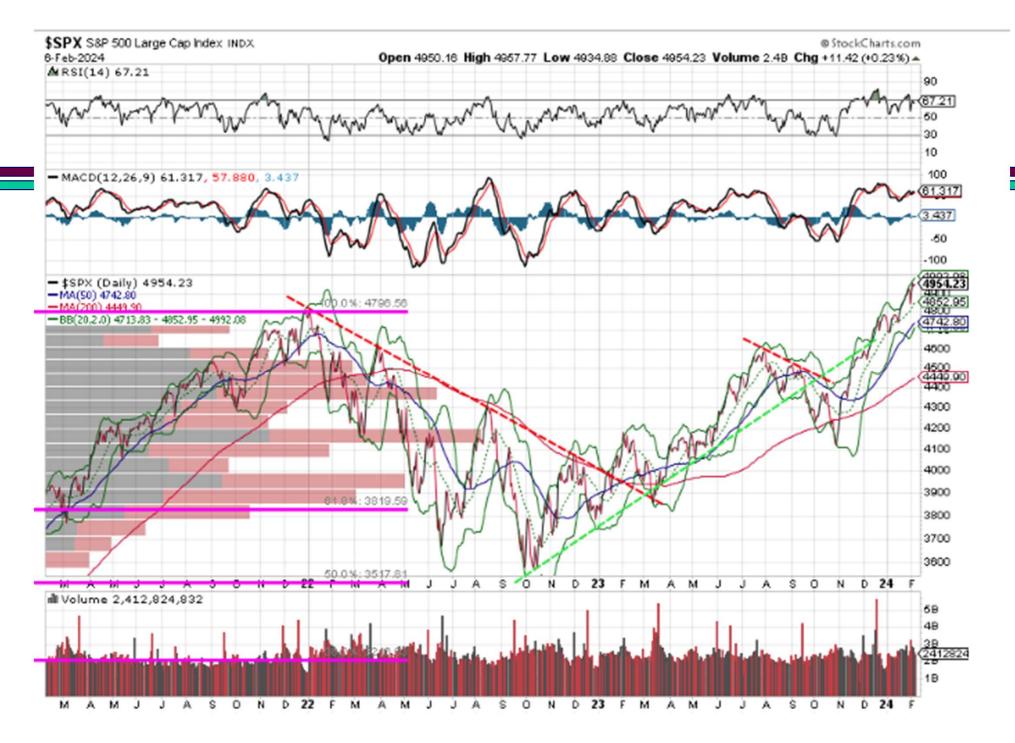
# Conference Board – Jan 22<sup>nd</sup> 2024

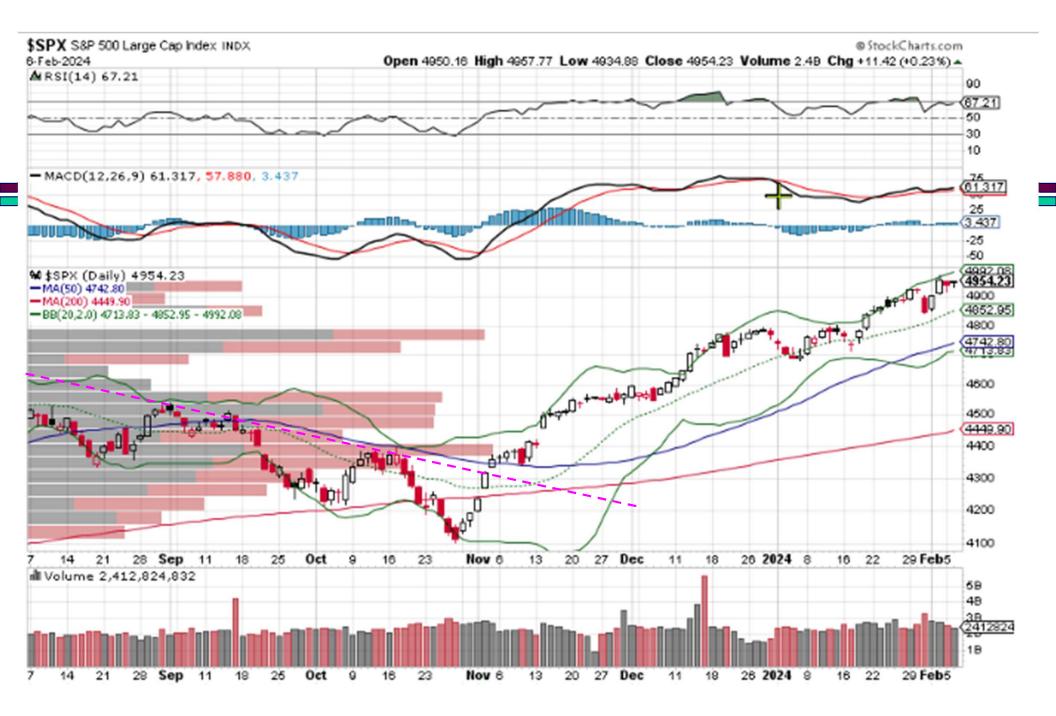


"The US LEI fell slightly in December, continuing to signal underlying weakness in the US
economy," said Justyna Zabinska-La Monica, Senior Manager, Business Cycle Indicators, at The
Conference Board. "Despite the overall decline, six out of ten leading indicators made positive
contributions to the LEI in December. Nonetheless, these improvements were more than offset by
weak conditions in manufacturing, the high interest-rate environment, and low consumer
confidence. As the magnitude of monthly declines has lessened, the LEI's six-month and twelvemonth growth rates have turned upward but remain negative, continuing to signal the risk of
recession ahead. Overall, we expect GDP growth to turn negative in Q2 and Q3 of 2024 but begin
to recover late in the year."

https://www.conference-board.org/topics/us-leading-indicators

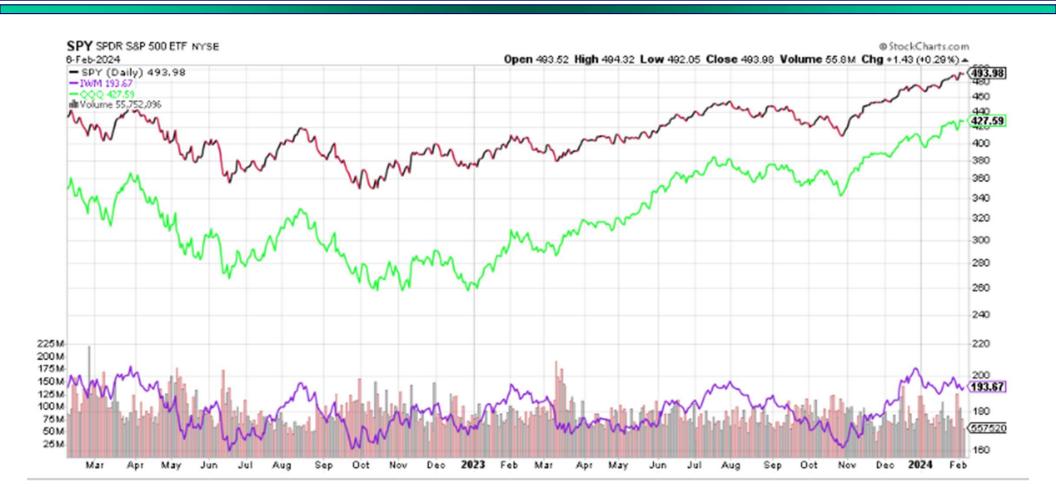








# **Market Breadth – another way**



### This is NOT investment advice

# Weekly market direction ....

# Prof. Guy Werner

Guy.werner@verizon.net

### COLUMNS CD&E ARE FROM IBD AND ARE PROVIDED BY DAVE (IN THE NORTH) SMITH

			ANIL PARIKH'S TRIPLE SCREEN (52 W DAILY HIGH SHOWN IN GREEN 52 W LOW SHOWN IN RED)														
			DISTRIBUTIO	ON DAYS			500 TRIPLE				NASDAQ TRIPLE SCREEN						
	DATE	MARKET PULSE (IBD)	\$&P 500	NASDAQ	8-20 EMA	MACD	RSI	CLOSING	Δ	%CHANGE	8-20 EMA	MACD	RSI	CLOSING	Δ	%CHANGE	
SAT	01/20/24	FOR THE WEEK							56	1.17%	S <sub>IM</sub>				338	2.26%	
SUN	01/21/24	YTD							70	1.47%	$\overline{}$				299	1.99%	
MON	01/22/24	CONFIRMED UP (80% -100%)	6	3	Р	0	P	4,850	11	0.23%	Р	Р	Р	15,360	50	0.33%	
TUE	01/23/24	CONFIRMED UP (80% -100%)	6	3	Р	0	P	4,864	14	0.29%	P	Р	Р	15,425	65	0.42%	
WED	01/24/24	CONFIRMED UP (80% -100%)	7	1	Р	Р	P	4868	4	0.08%	P	Р	Р	15,481	56	0.36%	
THUR	01/25/24	CONFIRMED UP (80% -100%)	7	1	Р	Р	P	4,894	26	0.53%	P	Р	P	15,510	29	0.19%	
FRI	01/26/24	CONFIRMED UP (80% -100%)	7	1	P	P	P	4,890	-4	-0.08%	P	Р	P	15,455	-55	-0.35%	
SAT	01/27/24	FOR THE WEEK							51	1.04%					145	0.94%	
SUN	01/28/24	YTD							121	2.54%					444	2.96%	
MON	01/29/24	CONFIRMED UP (80% -100%)	6	1	Р	Р	P	4,927	37	0.76%	P	Р	Р	15,628	173	1.12%	
TUE	01/30/24	CONFIRMED UP (80% -100%)	6	1	P	Р	P	4,924	-3	-0.06%	P	Р	P	15,509	-119	-0.76%	
WED	01/31/24	CONFIRMED UP (80% -100%)	7	2	P	Р	P	4,845	-79	-1.60%	P	0	Р	15,164	-345	-2.22%	
THUR	02/01/24	CONFIRMED UP (80% -100%)	7	2	P	Р	P	4,906	61	1.26%	P	Р	Р	15,361	197	1.30%	
FRI	02/02/24	CONFIRMED UP (80% -100%)	6	2	P	Р	Р	4,958	52	1.06%	P	Р	P	15,628	267	1.74%	
SAT	02/03/24	FOR THE WEEK							68	1.39%					173	1.12%	
SUN	02/04/24	FOR THE MONTH							113	2.33%					464	3.06%	
SUN	02/04/24	YTD							189	3.96%					617	4.11%	
-00	-02/42/2			-	-	-	-	- market but as	Manual II.	-	-	-	-	_	ARTIN .	<b>₹</b> @'	





# First Class - Feb. 7th

- Class Introduction
- Market update
- ☐ The Basics
  - What's different in investing in retirement?

# **Investing in Retirement**

- □ Prior to retirement Accumulation phase
- After retirement
  - Protect and grow the investment portfolio
  - ☐ Use the portfolio to produce income for current expenses
  - Draw down the principal as needed and in a way that does not exhaust it prematurely.
- ☐ 3 unknowns
  - ☐ How long will we live?
  - □ How much will we need to spend?
  - What return will your portfolio earn at the risk you are willing to take?

Producing income from portfolio is relevant Sequence of return risk is relevant

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### Probability of reaching ages 80 and 90 Retirement savings gap Persons aged 65, by gender, and combined couple Anticipated amount needed vs. actual savings, thousands 100% 100% \$130 90% Men Women Couple - at least one 80% \$127 80% \$126 lives to specified age 73% 64% 63% \$124 60% 60% 49% 40% \$121 \$120 \$120 40% 34% 20% \$118 23% 20% 0% \$115 55-64 65-74 >75 % of people who think Median value of retirement account they need by age of head >\$500,000 0% for 90 years 80 years retirement

Source: J.P. Morgan Asset Management; (Left) SSA 2016 Life Tables; (Right) 2017 Retirement Confidence Survey, Employee Benefit Research Institute and Greenwald & Associates; 2016 Survey of Consumer Finances, Federal Reserve.

EBRI survey was conducted from January 6, 2017 to January 13, 2017 through online interviews with 1,671 individuals (1,082 workers and 589 retirees) ages 25 and older in the United States.

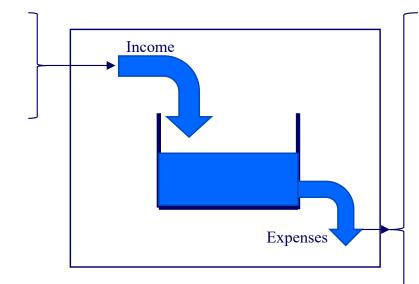
Guide to the Markets – U.S. Data are as of August 31, 2019.

J.P.Morgan
Asset Management

If you retire at 65 expect at least one spouse to need your nest egg for 25 to 30 years

# Does your income cover expenses?

- Pensions
- Social Sec.
- Salaries
- Income and capital gains from taxable accounts



# Yesterday & Today Near Future

### **Essential Fixed Expenses**

- Rent / Mortgage
- Medical Insurance
- Debt payments Auto etc.

### **Essential Variable Expenses**

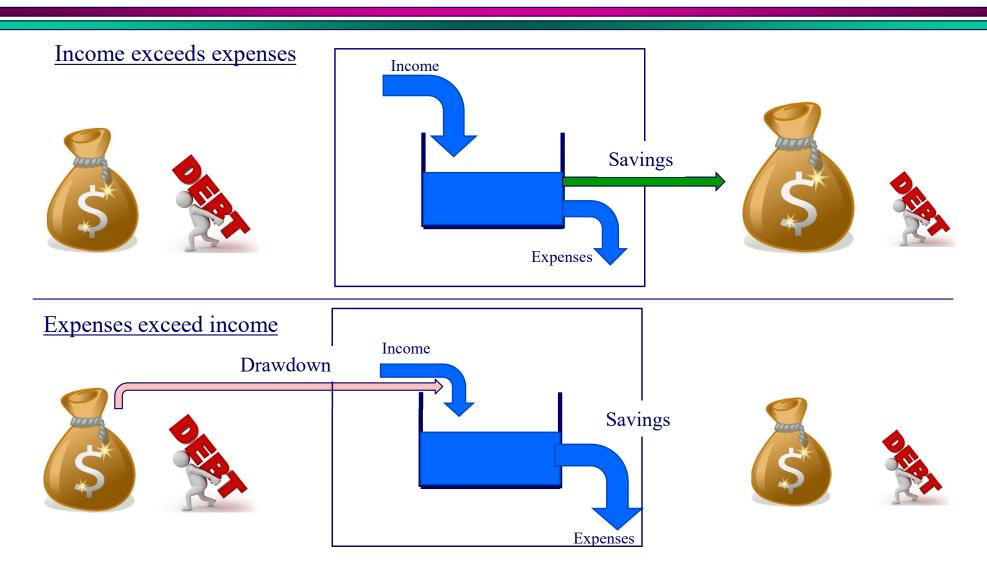
- Taxes
- Food
- Transportation
- Out of Pocket Medical Expenses
- Household needs
- Communications Phone, cable, web

### **Discretionary Expenses**

- Fun money
  - zero is not real / sustainable

### **Savings**

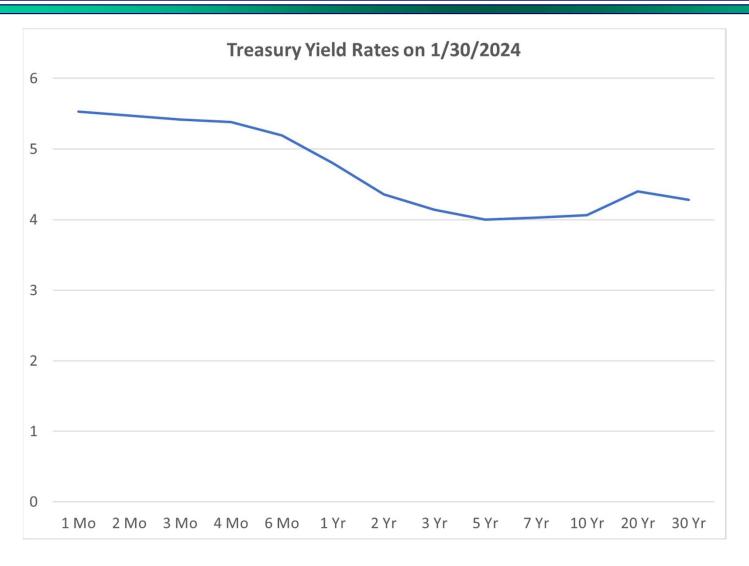
# Adding to or drawing from assets?



# Why is income relevant

- Typical Portfolio drawdown recommendations 4% per year.
  - Depends on your specific situation and the expected market returns
- If your portfolio produces income, you need to draw down less of the principal to meet your needs
  - Helps in a down market you are forced to sell less.
  - Helps in a up market you have more money growing.

# **Treasury Yield Rates**



# What, Me Worry?

GTM - u.s. | 19

Stock market since 1900

Mad Magazine S&P Composite Index Log scale, annual 13 years of going nowhere Tech boom (1997-2000) 1,000 COVID-19 Reagan era (2020)(1981-1989) Global financial End of crisis (2008) Stagflation Cold War (1973-1975) (1991)Black 100 Monday (1987)Post-War boom Vietnam War Last long boom (1969-1972) Oil shocks Roaring 20s prior to the New Deal (1973 & 1979) (1933-1940)Progressive era Korean War current one. (1890-1920) (1950 - 1953)10 World War II World War I (1939-1945) Great (1914-1918) Depression (1929-1939) Recessions 1900 1909 1918 1927 1936 1955 1964 1973 1982 1991 2000 1945 2010 2019

Source: FactSet, NBER, Robert Shiller, J.P. Morgan Asset Management.

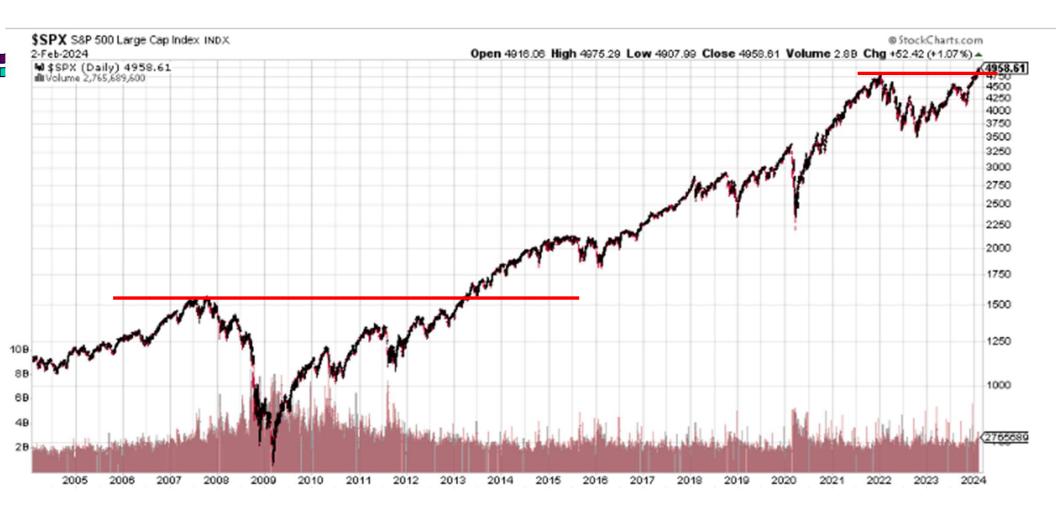
Data shown in log scale to best illustrate long-term index patterns. Past performance is not indicative of future returns. Chart is for illustrative purposes only.

Guide to the Markets – U.S. Data are as of August 31, 2021.

J.P.Morgan
Asset Management

Equities

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# Story of two couples







- Each couple retires at 65 with a life expectancy of one surviving to 90
- Each has an IRA with \$500,000 invested in the S&P 500
- Each couple withdraws \$20,000 (4%) per year to help with expenses
- Mr. & Mrs. Green retire in 1990
- Mr. & Mrs. Blue retire in 2000

# **Two Very Different Retirements**

### Mr. & Mrs. Green

Year	Return	\$500,000
1990	-3.1%	\$464,700
1991	30.2%	\$585,179
1992	7.5%	\$609,009
1993	10.0%	\$649,727
1994	1.3%	\$638,368
1995	37.2%	\$855,841
1996	22.7%	\$1,029,946
1997	33.1%	\$1,350,858
1998	28.3%	\$1,713,691
1999	20.9%	\$2,051,681

Mr. & Mrs. Blue

Year	Return	\$500,000
2000	-9.0%	\$434,850
2001	-11.9%	\$363,320
2002	-22.0%	\$263,499
2003	28.4%	\$318,227
2004	10.7%	\$332,405
2005	4.8%	\$328,460
2006	15.6%	\$359,732
2007	5.5%	\$359,446
2008	-36.6%	\$208,068
2009	25.9%	\$242,041

- Portfolio drops to half in the first 3 years
- Sequence of return
- Drawdown in down markets.

Both couples have 10-15 more years of retired life

# The bond market

https://fred.stlouisfed.org/series/DFF



### Federal Reserve policy direction

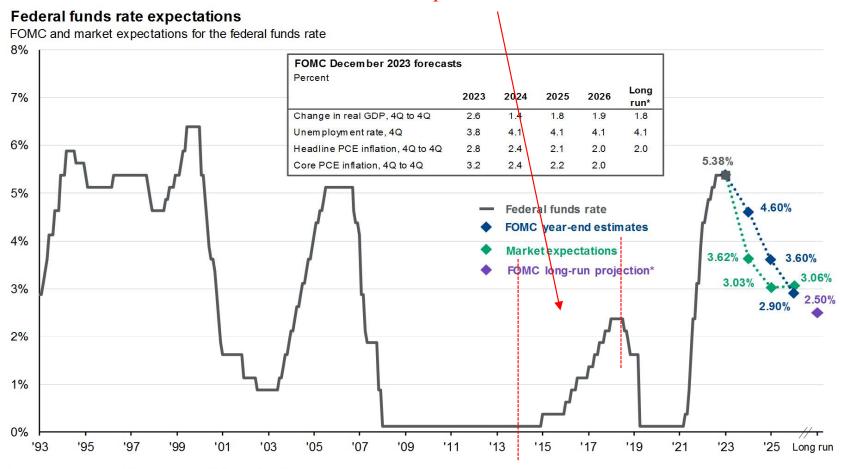
- Stop injecting liquidity (tapering)
- Raise rates



### The Fed and interest rates

Stocks do OK if economy stays strong and earnings rise.
Which bond funds did well in this period?

GTM U.S. 31



Source: Bloomberg, FactSet, Federal Reserve, J.P. Morgan Asset Management.

Market expectations are based off of USD Overnight Index Swaps. \*Long-run projections are the rates of growth, unemployment and inflation to which a policymaker expects the economy to converge over the next five to six years in absence of further shocks and under appropriate monetary policy. Forecasts are not a reliable indicator of future performance. Forecasts, projections and other forward-looking statements are based upon current beliefs and expectations. They are for illustrative purposes only and serve as an indication of what may occur. Given the inherent uncertainties and risks associated with forecasts, projections or other forward-looking statements, actual events, results or performance may differ materially from those reflected or contemplated. Guide to the Markets – U.S. Data are as of December 31,2023.

J.P.Morgan ASSET MANAGEMENT

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### Asset class returns

GTM U.S. 60

2009	-2023																
Ann.	Vol.	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Large	Sm all	Fixed	EM	REITs	REITs	RETs	Small	RETs	REITs	Sm all	EM .	Cash	Large	Sm all	R⊟Ts	Com dty.	Large
Cap 14.0%	Cap 21.9%	Income 5.2%	Equity 79.0%	27.9%	8.3%	19.7%	Cap 38.8%	28.0%	2.8%	Cap 21.3%	Equity 37.8%	1.8%	Cap 31.5%	Cap 20.0%	41.3%	16.1%	Cap 26.3%
Sm all	REITs	Cash	High	Sm all	Fixed	High	Large	Large	Large	High	DM	Fixe d	REITs	EM	Large	Cash	DM
Сар	A STATE OF THE STA	1.000000000	Yield	Сар	Income	Yield	Сар	Сар	Сар	Yield	Equity	Income	200.000	Equity	Сар	0.000.000.000	Equity
11.3%	21.2%	1.8%	59.4%	26.9%	7.8%	19.6%	32.4%	13.7%	1.4%	14.3%	25.6%	0.0%	28.7%	18.7%	28.7%	1.5%	18.9%
R⊟Ts	EM Equity	Asset Al®c.	DM Equity	EM Equity	High Yield	Equity	DM Equity	Fixe d Income	Fixed Income	Large Cap	Large Cap	RETs	Sm all Cap	Large Cap	Comdty.	High Yield	Sm all Cap
10.9%	20.3%	-25.4%	32.5%	19.2%	3.1%	18.6%	23.3%	6.0%	0.5%	12.0%	21.8%	-4.0%	25.5%	18.4%	27.1%	-12.7%	16.9%
High	DM	High	RETs	Com dty.	Large	DM	Asset	Asset	Cash	Com dty.	Small	High	DM	Asset	Small	Fixe d	Asset
Yield	Equity	Yield	Property Control	And the second	Сар	Equity	Allec.	Allec.	-21.50VABE.		Сар	Yield	Equity	Alfoc.	Сар	Income	Allec.
8.6%	18.4%	-26.9%	28.0%	16.8%	2.1%	17.9%	14.9%	5.2%	0.0%	11.8%	14.6%	-4.1%	22.7%	10.6%	14.8%	-13.0%	14.1%
Asset Alloc.	Com dty.	Small Cap	Sm all Cap	Large Cap	Cash	Small Cap	High Yield	Small \ Cap	DM Equity	EM Equity	Asset	Large Cap	Asset	DM Equity	Asset Allec.	Asset	High Yield
8.1%	16.6%	-33.8%	27.2%	15.1%	0.1%	16.3%	7.3%	4.9%	-0.4%	11.6%	14.6%	-4.4%	19.5%	8.3%	13.5%	-13.9%	14.0%
DM	Large	Comdty.	Large	High	Asset	Large /	REITs	Comb	Asset	RETs	High	Asset	EM	Fixe d	DM	DM	DELT-
Equity	Cap		Сар	Yie ld	Alfoc.	Cap		Cash	Alesc.		Yield	Alloc.	Equity	Income	Equity	Equity	REITs
7.4%	16.1%	-35.6%	26.5%	14.8%	-0.7%	16.0%	2.9%	0.0%	-2.0%	8.6%	10.4%	-5.8%	18.9%	7.5%	11.8%	-14.0%	11.4%
EM	High	Large	Asset	Asset	Sm all	Asset	Cash	High	High	Asset	R⊟Ts	Small	High	High	High	Large	EM .
Equity 6.9%	Yield 11.5%	Cap -37.0%	Allec. 25.0%	— <b>Al</b> 6c. 13.3%	Cap -4.2%	Alloc. 12.2%	0.0%	Yield 0.0%	Yie Id -2.7%	AÌ <b>™</b> c. 8.3%	8.7%	Cap -11.0%	Yie ld 12.6%	Yield 7.0%	Yield 1.0%	Cap -18.1%	Equity 10.3%
Fixe d	Asset			DM	DM	Fixed	Fixe d	EM	Sm all	Fixed	Fixed	10 (CONT.)	Fixe d			EM	Fixed
Incom e	Alloc.	REITs	Com dty.	Equity	Equity	Incom e	Income	Equity	Сар	Income	Incom e	Comdty.	Income	Cash	Cash	Equity	Incom e
2.7%	11.5%	-37.7%	18.9%	8.2%	-11.7%	4.2%	-2.0%	-1.8%	-4.4%	2.6%	3.5%	-11.2%	8.7%	0.5%	0.0%	-19.7%	5.5%
Cash	Fixed	DM	Fixe d	Fixe d	Com dty.	Cash	EM	DM	EM	DM	Comdty.	DM	Com dty.	Com dty.	Fixed	Sm all	Cash
0.8%	CONTRACTOR SEC		CONTRACTOR OF STREET	233534653	-13.3%	0.1%				1000,000000	1.7%	200000000000000000000000000000000000000	7.7%	-3.1%	ARTISCO CURRENTA		5.1%
	************	1000		8878		88%				22/8222/02		1000			EM.		
Com dty.	Cash	Equity	Cash	Cash	Equity	Comdty.	Comdty.	Com dty.	Com dty.	Cash	Cash	Equity	Cash	R⊟Ts	Equity	R⊟Ts	Com dty.
-0.2%	0.7%	-53.2%	0.1%	0.1%	-18.2%	-1.1%	-9.5%	-17.0%	-24.7%	0.3%	0.8%	-14.2%	2.2%	-5.1%	-2.2%	-24.9%	-7.9%
Cash 0.8% Com dty0.2%	Fixed Income 4.5% Cash 0.7%	DM Equity -43.1% EM Equity	Fixe d Income 5.9% Cas h 0.1%	Fixe d Income 6.5% Cash 0.1%	Com dty13.3%  EM Equity -18.2%	Cash 0.1% Comdty1.1%	EM Equity -2.3% Comdty. -9.5%	DM Equity -4.5% Com dty. -17.0%	EM Equity -14.6% Com dty. -24.7%	DM Equity 1.5% Cash	Comdty. 1.7% Cash	DM Equity -13.4% EM Equity	Com dty. 7.7% Cash	Com dty. -3.1% RETs	Fixed Income -1.5% EM Equity	Sm all Cap -20.4% RETs	Cash 5.1% Com dty

Source: Bloomberg, FactSet, MSCI, NAREIT, Russell, Standard & Poor's, J.P. Morgan Asset Management. Large cap: S&P 500, Small cap: Russell 2000, EM Equity: MSCI EME, DM Equity: MSCI EAFE, Comdty: Bloomberg Commodity Index, High Yield: Bloomberg Global HY Index, Fixed Income: Bloomberg US Aggregate, REITs: NAREIT Equity REIT Index, Cash: Bloomberg 1-3m Treasury. The "Asset Allocation" portfolio assumes the following weights: 25% in the S&P 500, 10% in the Russell 2000, 15% in the MSCI EAFE, 5% in the MSCI EME, 25% in the Bloomberg US Aggregate, 5% in the Bloomberg 1-3m Treasury, 5% in the Bloomberg Global High Yield Index, 5% in the Bloomberg Commodity Index and 5% in the NAREIT Equity REIT Index. Balanced portfolio assumes annual rebalancing. Annualized (Ann.) return and volatility (Vol.) represents period from 12/31/2007 to 12/31/2022. Please see disclosure page at end for index definitions. All data represents total return for stated period. The "Asset Allocation" portfolio is for illustrative purposes only. Past performance is not indicative of future returns.

Guide to the Markets - U.S. Data are as of December 31, 2023.



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# Second Class - Feb. 14th

- ☐ First External speaker.
  - □ Dr. Robert Fry − Robert Fry Economics LLC
- State of the US Economy
  - □ Recession, Recession whereforth are thou?

# **Thanks**!!

- □ Happy Investing !!
- My EMail
  - ☐ diyinvst@udel.edu
- □ Class website
  - □ http://udel.edu/~diyinvst