

# 2023 WICPA FINANCIAL INSTITUTIONS CONFERENCE

YOUR SOURCE FOR KEY UPDATES & INSIGHTS ON TIMELY ISSUES



based on real-world ethical violations, including attitudes of others and laws CPAs must follow and the consequences of not doing so

## CONFERENCE AT A GLANCE

WEDNESDAY, MAY 10 | WICPA OFFICE & WICPA CPE LIVESTREAM

7 - 8 a.m.

Registration & Networking

8 - 8:10 a.m.

Welcome & Opening Remarks Lower Level Conference Room

8:10 - 9:20 a.m.

GENERAL SESSION
Investing Through the Noise
Lower Level Conference Room

9:20 – 9:30 a.m. Networking Break Lower Level Foyer

**9:30 – 10:40 a.m.**GENERAL SESSION

Asset Liability Management in Volatile Times
Lower Level Conference Room

10:40 – 10:50 a.m. Networking Break Lower Level Foyer 10:50 - 11:50 a.m.

GENERAL SESSION

Accounting & Tax Legislation Update

Lower Level Conference Room

11:40 a.m. – 12:20 p.m. Networking Lunch Lower Level Conference Room

12:20 – 1:35 p.m.
GENERAL SESSION
Digital Transformation
Lower Level Conference Room

1:35 – 1:45 p.m. Networking Break Lower Level Foyer

1:45 – 2:35 p.m.
GENERAL SESSION
Regulatory Update
Lower Level Conference Room

2:35 – 2:45 p.m. Networking Break Lower Level Foyer 2:45 – 3:35 p.m.

**BREAKOUT SESSIONS** 

Solving the Talent Problem:
How Smart Benefit Programs
Are Leveling the Playing Field
for Small & Midsize Businesses
Lower Level Conference Room

FDICIA Readiness
WICPA Training Center

3:35 – 3:45 p.m. Networking Break Lower Level Foyer

3:45 – 4:55 p.m.

GENERAL SESSION

Current Issues in Business

Ethics

Lower Level Conference Room

4:55 p.m.
Closing Remarks & Prize
Drawings
Lower Level Conference Room





# 4 FREE CPE CREDITS

#### **Details**



Tues. June 13, 2023



8:15 am to 12:15 pm



# Brookfield Conference Center

325 S Moorland Road Brookfield, WI 53005

#### Speakers & Topics:

MANUEL ROSADO | President of Spectrum Investment Advisors

Retirement Plan Trends - Secure Act 2.0 to Financial Wellness

MIKE LYNCH | Managing Director of Applied Insights

8,000 Days: Envisioning Retirement in a New Way

EMILY ROLAND, CIMA | Co-Chief Investment Strategist

Economic & Financial Markets Review

CHARLIE PLUMB | Former Navy Fighter Pilot and Prisoner of War

Tough Choices in Challenging Times

## **Register Today**



RSVP online at https://bit.ly/RP-Seminar-2023-WICPA

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#### FREE CONTINUING EDUCATION CREDIT



4 CPE Credits



4 PDC Credits



4 HR (General) Credits

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For CPE credits, please call the CPE Department at 800-772-6939 or register thru the WICPA Website. / PD Credit program is valid for the SHRM-CPSM or SHRM-SCPSM / The use of the official HRCI seal confirms that this activity has met HR Certification Institute's® criteria for recertification credit pre-approval.



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8:10 - 9:20 a.m.

# Investing Through the Noise

**Jack Manley,** Vice President & Global Market Strategist, J.P. Morgan Asset Management



# Guide to the **Markets**®

U.S. | 2Q 2023 As of April 11, 2023



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#### **Global Market Insights Strategy team**

GTM U.S. 2 Americas Europe Asia Dr. David Kelly, CFA Karen Ward Hong Kong Chaoping Zhu, CFA Michael Bell, CFA Vincent Juvyns Marcella Chow David Lebovitz New York Gabriela Santos New York Luxembourg Hong Kong Shanghai Tilmann Galler, CFA lan Hui Hugh Gimber, CFA London Jack Manley New York Jordan Jackson Frankfurt 9 Maria Paola Toschi Shogo Maekawa Tokyo Meera Pandit, CFA Adrian Tong Stephanie Aliaga New York Max McKechnie London Hong Kong 9 Natasha May Mary Park Durham New York Nimish Vyas Elena Domecq Sahil Gauba London Kerry Craig, CFA Melbourne Zara Nokes Lucia Gutierrez Mellado Marina Valentini

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- S&P 500 valuation measures
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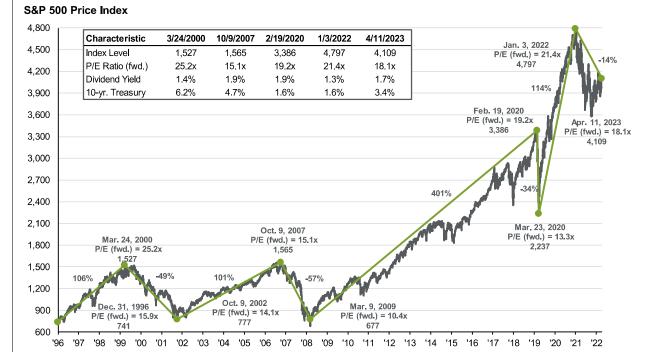
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#### S&P 500 Index at inflection points

GTM U.S.

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Source; Compustat, FactSet, Federal Reserve, Refinitiv Datastream, Standard & Poor's, J.P. Morgan and Management, Dividend is a calculated as consensus estimates of dividends for the next 12 months, divided by most recent price, as provided by Compustat. Forward price to earnings ratio is a bottom up calculation based on IEES estimates and FactSet estimates since January 2022. Returns are cumulative and based on SSP 500 index price movement only, and do not include the reinvestment of dividends, Past performance is not indicative of future returns. Guide to the Markets – U.S. Data are as of April 11, 2023.

U.S.



Source FactSet, FEB. Refinitiv Datastream, Robert Shiller, Standard & Poor's, Thomson Reuters, J.P. Morgan See Management, Foot to earnings is considered by consensus analyst estimates of earnings as where for the result 2 months as provided by FSB and by FactSets as January 2.22, Current results are seen to see the results and are deviations are calculated as 2.25 peas of history. Shiller's PTE Less trailing 10 peas of inflation-adjusted earnings as reported by companies, Dividend J. and is calculated as the results are seen to see the results of the seen to see the seen

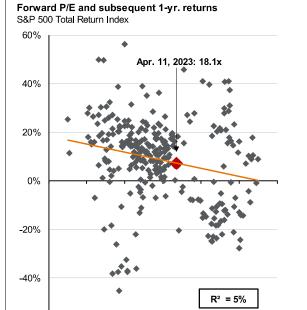
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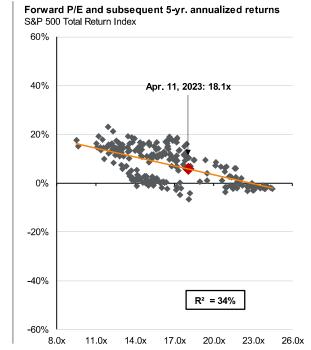
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#### P/E ratios and equity returns







Source: FactSet, Refinitiv Datastream, Standard & Poor's, Thomson Reuters, J.P. Morgan and Management.

Returns are 12-month and 60-month annualized to a returns, measured monthly, beginning 3/31/98. Represents the percent of total variation in total returns that can be explained by forward price to earnings and to the company and the company and the second second

26.0x

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-60%

8.0x

11.0x

14.0x

17.0x

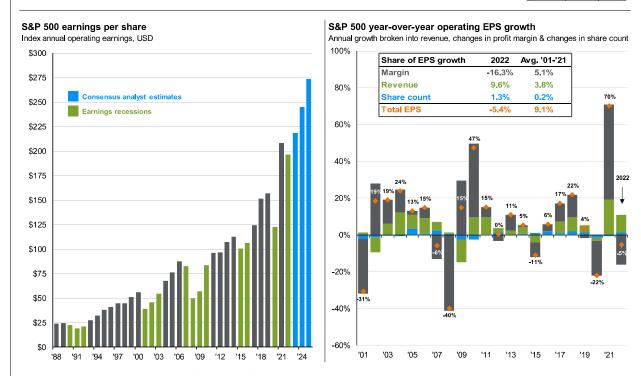
20.0x

23.0x



#### Corporate earnings and sources of earnings growth

GTM U.S. 7



Source: Compustat, FactSet, Standard & Poor's, J.P. Morgan Asset Management. Historical EPS levels are based on annual operating earnings per share. Earnings estimates are based on estimates from Standard & Poor's and FactSet Market Aggregates. Percentages may not sum due to rounding. Past performance is not indicative of future returns, Guide to the Markets—U.S. Data are as of April 11, 2023.

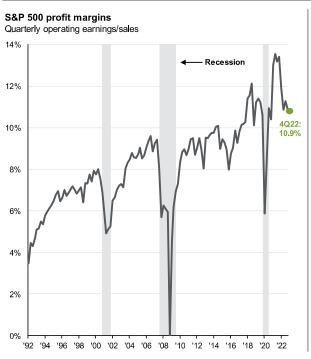
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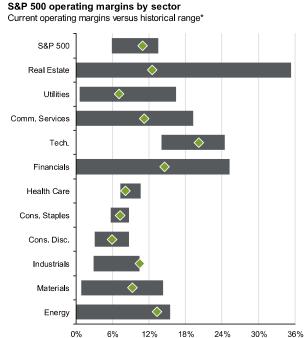
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#### **Profit margins**







Source: Compustat, FactSet, NFIB, Standard & Poor's, J.P. Morgan Asset Management. Past performance is not indicative of future returns. \*Quarters with negative operating margins are not shown, with zero set as the lower bound for troughs.

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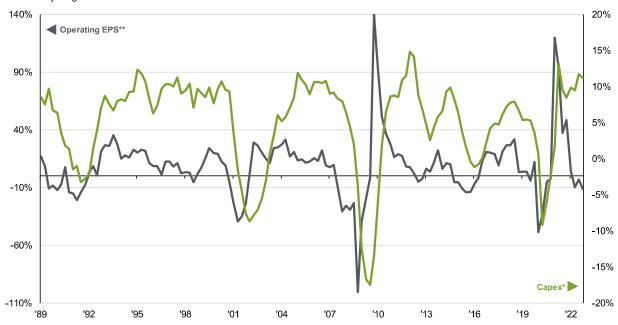


#### Corporate profits and fixed business investment

GTM U.S. 9



Year-over-year growth rates



Source: BEA, FactSet, Standard & Poor's, J.P. Morgan Asset Management. \*Capital expenditures are estimated using seasonally adjusted nominal gross private domestic fixed investment (nonresidential) data from the BEA. \*\*Historical operating EPS growth is adjusted to account for periods with outlier growth rates.

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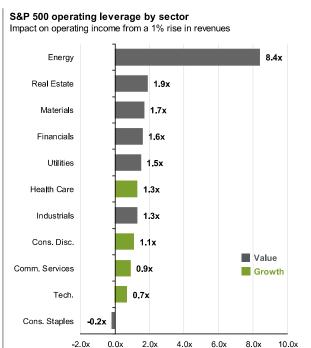
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#### Value vs. Growth

GTM U.S. 10

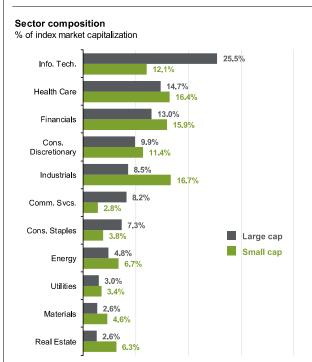






Source: FactSet, FISE Russell. NBER, J.P. Morgan and Management.

Growth is represented by the Russell TOO Growth idea and law is represented by the Russell TOO Island by the





Source; Compustat, FactSet, FISE Russell, NBER, J,P, Morgan Asset Management, The S&P 500 is used for large cap and the Russell 2000 is used for small cap, Guide to the Markets –  $U_i$ S, Data are as of April 11, 2023,

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### Returns and valuations by style

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Cur	rent P/E vs	. 20-year av	g. P/E
	Value	Blend	Growth
Large	14.5	18.1	23.9
Mid	13.9	16.3	23.0
Small	15.8	20.6	28.3
Cur	rent P/E as Value	% of 20-yea	ar avg. PE Growth
Large	105.5%	116.4%	127.8%
Mid	96.2%	99.3%	112.6%
Small	93.9%	96.2%	90.4%

Source: FactSet, Refinitiv Datastream, Russell Investment Group, Standard & Poor's, J.P. Morgan Asset Management. All calculations are cumulative total return, including dividends reinvested for the stated period. Since market peak represents period from 2/19/2020 to 3/31/2023. Since market low represents period from 3/23/020 to 3/31/2023. Returns are cumulative returns, not an utilized. For all time periods, total return is based on Russell style indices except for the large blend category, which is based on the S&P 500 Index. Past performance is not indicative of future returns. The price-to-earnings is a bottom-up calculation based on the most recent index price, divided by consensus estimates for earnings in the next 12 months (NTM) and is provided by FactSet Market Aggregates and J.P. Morgan Asset Management. Guide to the Markets – U.S. Data are as of April 11, 2023.

## >

#### Returns and valuations by sector

GTM U.S. 13

	Energy	Materials	Financials	Industrials	Cons. Disc.	Tech.	Comm. Services*	Real Estate	Health Care	Cons. Staples	Utilities	S&P 500 Index	
S&P weight	4.8%	2.6%	13.0%	8.5%	9.9%	25.5%	8.2%	2.6%	14.7%	7.3%	3.0%	100.0%	
Russell Growth weight	1.4%	1.3%	6.8%	8.1%	14.0%	41.1%	7.3%	1.5%	12.2%	6.1%	0.0%	100.0%	Weight
Russell Value weight	8.2%	4.4%	20.0%	10.6%	5.9%	7.7%	8.7%	4.5%	16.7%	7.7%	5.7%	100.0%	× ×
Russell 2000 weight	6.7%	4.6%	15.9%	16.7%	11.4%	12.1%	2.8%	6.3%	16.4%	3.8%	3.4%	100.0%	
QTD	4.6	-0.1	0.6	-1.9	<del>-</del> 2.5	-2.3	1.4	0.3	3.4	1.2	3.0	0.0	
YTD	-0.3	4.2	-5.0	1.5	13.2	19.0	22.2	1.4	-1.1	2.0	-0.4	7.5	%
Since market peak (February 2020)	86.1	42.6	11.5	25.0	11.1	47.6	3.6	<b>-</b> 7.8	35.9	29.9	10.2	27.7	Return %)
Since market low (March 2020)	322.3	123.2	95.4	114.3	62.8	114.4	45.1	48.6	88.5	70.9	71.2	92.9	
Beta to S&P 500	1.3	1.1	1.1	1.1	1.2	1.1	1.0*	0.8	0.8	0.6	0.5	1.0	ත
Correl. To Treas. Yields	0.0	-0.5	-0.3	-0.5	-0.6	-0.7	-0.8	-0.6	-0.4	-0.4	-0.4	-0.6	٥
Foreign % of sales	37.8	55.2	21.3	32.3	34.4	57.6	42.8	15.9	35.7	43.1	1.8	39.6	%
NTM earnings growth	-16.8%	-10.1%	2.6%	11.8%	21.0%	3.9%	14.1%	1.1%	-4.5%	5.7%	6.9%	3.9%	PS
20-yr. avg.	100.6%	15.8%	20.9%	14.0%	16.9%	13.3%	10.2%*	6.8%	8.2%	7.7%	4.3%	11.1%	ш
Forward P/E ratio	10.7x	16.8x	13.0x	18.2x	24.3x	24.2x	16.5x	16.9x	17.6x	20.4x	18.4x	18.1x	P/E
20-yr. avg.	13.7x	14 <b>.</b> 8x	12.4x	16 <b>.</b> 3x	19 <b>.</b> 3x	18 <b>.</b> 0x	18.7x*	16.8x	15.1x	17.4x	15.5x	15 <b>.</b> 5x	а.
Buyback yield	3.7%	2.5%	2.9%	2.5%	2.2%	2.6%	5.0%	-1.8%	1.9%	1.3%	-0.8%	2.5%	춫
20-yr. avg.	1.6%	0.9%	0.4%	2.2%	2.4%	3.0%	1.6%	-1.3%	2.0%	1.8%	-0.9%	1.8%	œ
Dividend yield <b>20-yr. avg.</b>	3.2% <b>2.8%</b>	2.1% <b>2.4%</b>	2.1% <b>2.3%</b>	1.9% <b>2.2%</b>	1.0% <b>1.4%</b>	1.0% 1 <b>.1%</b>	1.0% 1 <b>.2%</b>	3.9% <b>3.9%</b>	1.7% <b>1.9%</b>	2.6% <b>2.8%</b>	3.2% <b>3.9%</b>	1.7% <b>2.1%</b>	Ď
zu-yr. avg.	2.0%	2.4%	2.3%	2.2%	1.4%	1.1%	1.2%	3.9%	1.9%	2.8%	3.9%	2.1%	

Source; FactSet, Refinitiv Datastream, Russell Investment Group, Standard & Poor's, J.P. Morgan — Management, All calculations are cumulative training annualized, including dividends for the stated period. Since market period in 2/19/200 to 3/31/201, Since market low represents period in 3/23/200 to 3/31/201. Since market low represents period in 3/23/201 to 3/31/201, Correlation to Treasury; as a strailing 2-year monthly correlations between \$8.950 sector proceedings and 10-year Treasury; and movements. In all 2 months (NTM), and earnings growth is the percent change in next 12-months earnings provided by brokers. Forward P/Enric is a bottom-up calculation based on the most recent \$8.9500 may be, divided by consensus estimates for earnings in the next 12-months (NTM), and is provided by FactSet Market Aggregates and J.P. Morgan asset Management. Bulback years and the second second is calculated as the second sec

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#### Factor performance

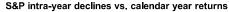
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																2008 -	2022
2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	YTD	Ann.	Vol.
Min. Vol.	Value	Small Cap	High Div.	Cyclical	Value	Value	Momen.	Small Cap	Momen.	Min. Vol.	Cyclical	Momen.	Value	Defens.	Cyclical	Min. Vol.	Small Cap
-25.7%	38.8%	26.9%	14.3%	20.1%	43.2%	17.7%	9.3%	21.3%	37.8%	1.5%	36.3%	29.6%	29.2%	5.3%	11.2%	9.5%	23.2%
Defens.	Cyclical	Multi- Factor	Min. Vol.	Value	Small Cap	Min. Vol.	Min. Vol.	High Div.	Cyclical	Momen.	Quality	Cyclical	Cyclical	High Div.	Quality	Momen.	Value
-26.7%	36.9%	18.3%	12.9%	16.8%	38.8%	16.5%	5.6%	16.3%	27.3%	-1.6%	34.4%	27.8%	27.6%	-3.8%	9.4%	9.2%	21.4%
High Div.	Multi- Factor	Momen.	Defens.	Small Cap	Multi- Factor	High Div.	Quality	Value	Quality	High Div.	Momen.	Small Cap	Quality	Min. Vol.	Multi- Factor	Quality	Cyclical
-27.6%	29.8%	18.2%	10.1%	16.3%	37.4%	14.9%	4.6%	15.9%	22.5%	-2.3%	28.1%	20.0%	27.2%	-9.2%	5.3%	9.2%	20.9%
Quality	Small Cap	Cyclical	Quality	Multi- Factor	Cyclical	Multi- Factor	Cyclical	Cyclical	Value	Defens.	Min. Vol.	Quality	Multi- Factor	Value	Value	High Div.	Momen.
-31.2%	27.2%	17.9%	7.5%	15.7%	35.0%	14.8%	2.6%	14.0%	22.2%	-2.9%	28.0%	17.1%	25.1%	-14.0%	3.4%	9_1%	19.0%
Small Cap	Quality	High Div.	Multi- Factor	Momen.	Momen.	Momen.	High Div.	Multi- Factor	Multi- Factor	Cyclical	Value	Multi- Factor	Defens.	Multi- Factor	Min. Vol.	Cyclical	Multi- Factor
-33.8%	24.9%	15.9%	7.3%	15.1%	34.8%	14.7%	0.7%	13.7%	21.5%	-5.3%	27.7%	11.4%	25.0%	-15.5%	2.6%	8_9%	18.5%
Value	High Div.	Min. Vol.	Momen.	Quality	Quality	Cyclical	Multi- Factor	Min. Vol.	High Div.	Quality	Multi- Factor	Min. Vol.	High Div.	Momen.	Small Cap	Multi- Factor	Quality
-36.9%	18.4%	14.7%	6.1%	12.8%	34.3%	13.6%	0.4%	10.7%	19.5%	-5.6%	26.6%	5.8%	21.9%	-17.4%	1.9%	8.5%	17.0%
Multi- Factor	Min. Vol.	Quality	Value	Min. Vol.	High Div.	Defens.	Defens.	Quality	Min. Vol.	Multi- Factor	Small Cap	Defens.	Min. Vol.	Quality	High Div.	Defens.	High Div.
-39.3%	18.4%	14.2%	-2.7%	11.2%	28.9%	13.0%	-0.9%	9.4%	19.2%	-9.7%	25.5%	5.2%	21.0%	-20.3%	-0.1%	8.3%	15.7%
Momen.	Momen.	Value	Cyclical	Defens.	Defens.	Quality	Small Cap	Defens.	Small Cap	Small Cap	High Div.	High Div.	Small Cap	Small Cap	Defens.	Value	Defens.
-40.9%	17.6%	12.7%	-3.4%	10.7%	28.9%	10.7%	-4.4%	7.7%	14.6%	-11.0%	22.5%	1.7%	14.8%	-20.4%	-0.2%	8.0%	14.5%
Cyclical	Defens.	Defens.	Small Cap	High Div.	Min. Vol.	Small Cap	Value	Momen.	Defens.	Value	Defens.	Value	Momen.	Cyclical	Momen.	Small Cap	Min. Vol.
-44.8%	16.5%	12.0%	-4.2%	10.6%	25.3%	4.9%	-6.4%		12.3%	-11.1%	21.4%	-0.2%		-27.2%	-1.4%	7.2%	13.9%

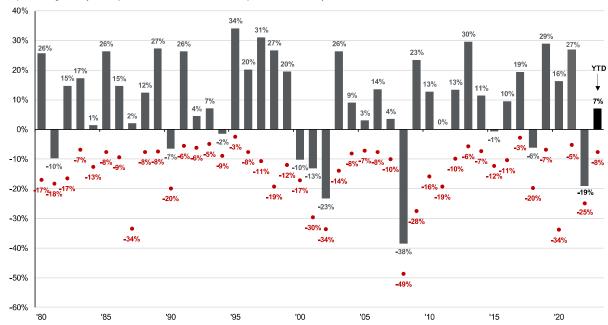


#### Annual returns and intra-year declines

GTM U.S. 15



Despite average intra-year drops of 14.3%, annual returns were positive in 32 of 43 years



Source: FactSet, Standard & Poor's, J.P. Morgan Asset Management.
Returns are based on price index only and do not include dividends. Intra-year drops refers to the largest market drops from a peak to a trough during the year. For illustrative purposes only. Returns shown are calendar year returns from 1980 to 2022, over which time period the average annual return was 8.7%.

Guide to the Markets –U.S. Data are as of April 11, 2023.

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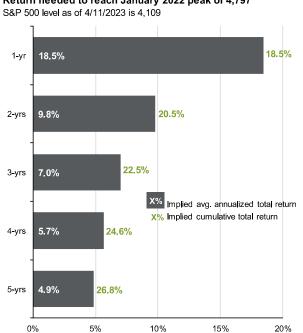
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#### Equity scenarios: Bull, bear and in-between

GTM U.S. 16







#### **Bull and bear markets**

ı	Bull markets	•	Bear markets						
Bull begin date	Bull return	Duration (months)	Market peak	Bear return*	Duration (months)*				
Jul 1926	152%	37	Sep 1929	-86%	32				
Mar 1935	129%	23	Mar 1937	-60%	61				
Apr 1942	158%	49	May 1946	-30%	36				
Jun 1949	267%	85	Aug 1956	-22%	14				
Oct 1960	39%	13	Dec 1961	-28%	6				
Oct 1962	76%	39	Feb 1966	-22%	7				
Oct 1966	48%	25	Nov 1968	-36%	17				
May 1970	74%	31	Jan 1973	-48%	20				
Mar 1978	62%	32	Nov 1980	-27%	20				
Aug 1982	229%	60	Aug 1987	-34%	3				
Oct 1990	417%	113	Mar 2000	-49%	30				
Oct 2002	101%	60	Oct 2007	-57%	17				
Mar 2009	401%	131	Feb 2020	-34%	1				
Mar 2020	114%	21	Jan. 2022**	-25%	9				
Averages	162%	51	-	-41%	20				

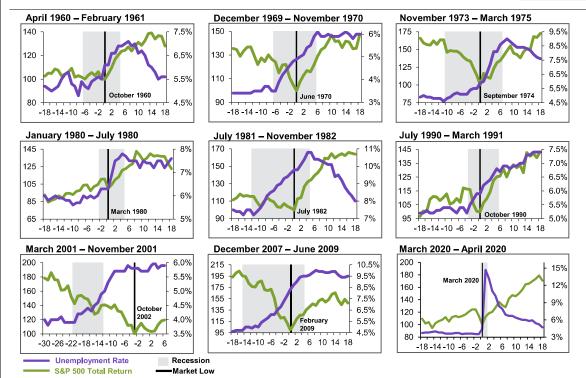
Source: FactSet, NBER, Robert Shiller, Standard & Poor's, J.P. Morgan Asset Management. (Left) The current peak of 4,797 was observed on 1/3/2022. (Right) \*A bear market is defined as a 20% or more decline from the previous market high. The related market return is the peak to trough return over the cycle. Bear and bull returns are price returns. \*\*The bear market beginning in January 2022 is currently ongoing, with the "bear return" and duration for this period calculated from the January 2022 market peak through the current trough in October 2022. Averages for the bear market return and duration do not include figures from the current cycle. Guide to the Markets – U.S. Data are as of April 11, 2023.





# Market inflection points, recessions and the unemployment rate

GTM U.S. 17



Source: BLS. Ibbotson, J.P. Morgan Asset Management. Time zero represents the numeric low of the S&P500 Total Return India: associated with the recessionary period defined by the shaded gray area; data shown in months, S&P500 India: is rebased to 100 at time zero, Guide to the Markets – U,S, Data are as of April 11, 2023,

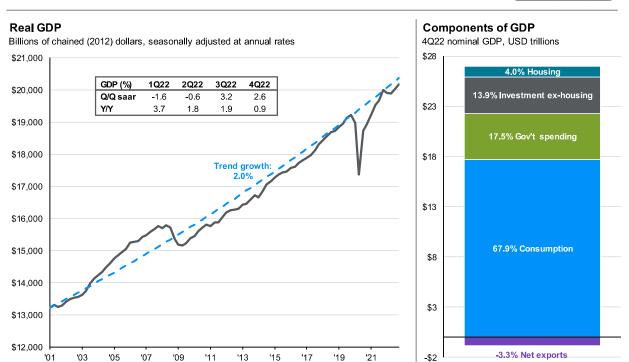
J.P.Morgan

17



#### Economic growth and the composition of GDP

GTM U.S. 18

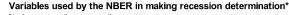


Source: EEA. FactSet, J.P. Morgan asset Management, Values may not sum to 100% due to rounding, Trend growth is measured as the average annual growth rate from business cross peak 4Q19, Guide to the Markets - U.S. Data are as of April 11, 2023,

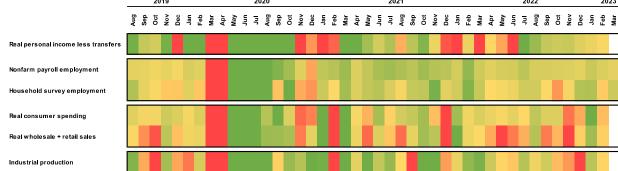


#### **Recession determinants**

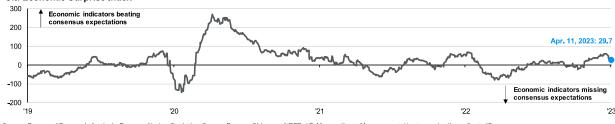
GTM U.S. 19







#### Citi Economic Surprise Index



Source; Bureau of Economic Analysis, Bureau of Labor Statistics, Census Bureau, Citigroup, NBER, JP, Morgan SM, Management, Heatmap shading reflects 10 sets of seconomic activity that is spread across the economy and as a seeline of 0% monthly growth. NBER's definition of a recession involves a significant decline in economic activity that is spread across the economy and as measured by the household survey, represented consumption expenditures, wholesale size adjusted for the changes an industrial production. There is no feet about which measures contribute to the processor that he weighted, but the committee notes that in recent decades, the two measures we have out the seconomic indicators relative to consensus. A positive reading means that he are releases a stronger is a 90-day weighted moving average of surprises in economic indicators relative to consensus. A positive reading means to the day releases a seconomic indicators relative to consensus. A positive reading means to the day releases a seconomic indicators relative to consensus. A positive reading means to the day releases and the day releases and the day releases and the day of the d

J.P.Morgan ASSET MANAGEMENT

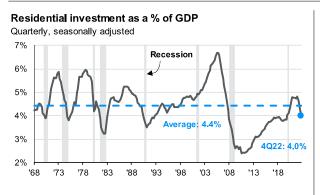
19



#### Cyclical sectors

GTM U.S. 20

'13



#### Quarterly, seasonally adjusted 15% 4Q22: 13.3% 14% 13% 12%

Business fixed investment as a % of GDP

#### Light vehicle sales

20

18

16

14

12

10

# Mil vehicles, seasonally adjusted ann. rate Average: 14.8m Mar. 2023

#### Total business inventory/sales ratio

'78 '83 '88

11%



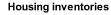
'16 Source: BEF. Census Bureau, FactSet, J.P., Morgan Esset Management, Data for light vehicle sales is quarterly apart from the latest monthly data

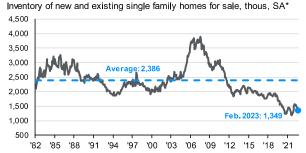
Guide to the Markets - U,S, Data are as of April 11, 2023,



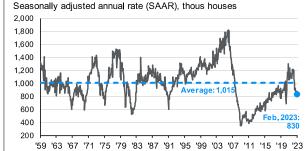
#### Residential real estate

GTM U.S. 21





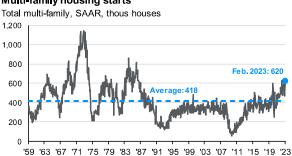
#### Single-family housing starts



#### Rental vacancy rate



#### Multi-family housing starts



Source; U.S., Census Bureau, U.S., National Association of Realtors, J.P., Morgan Asset Management, \*Inventory of new and existing single family homes for sale is seasonally adjusted by J.P. Morgan Asset Management, Guide to the Markets – U.S. Data are as of April 11, 2003,

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#### Federal finances

GTM U.S. 22

Forecast

2022

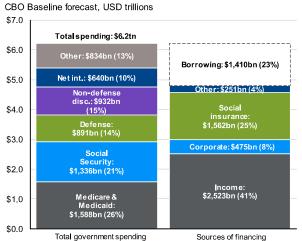
'30

-12.4

'20

-15.09

## The 2023 federal budget



#### '00

'05

Federal budget surplus/deficit

-18%

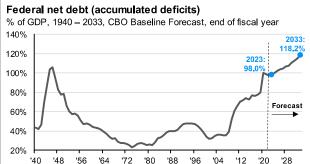
-10%

-6%

-2%

2%

% of GDP, 1990 - 2033, CBO Baseline Forecast



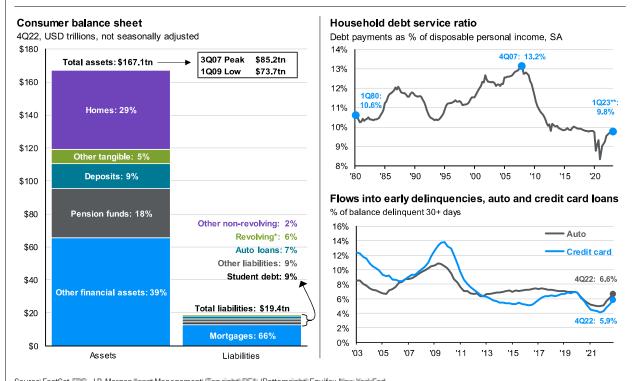
'10

'15

CBO's Baseline economic assumptions

	2023	'24-'25	'26-'27	'28-'33
Real GDP growth	0.3%	1.9%	2.4%	1.9%
10-year Treasury	3.8%	3.8%	3.8%	3.8%
Headline inflation (CPI)	5.7%	2.8%	2.1%	2.2%
Unemployment	4.3%	4.9%	4.5%	4.5%

Source CEO J.P. Morgan - Management Coast bottom - EE- Treasury Department Estimates are based on the Congressional Budget The LEO February 2021 Update to the Budget and Economic Outlook The spending includes, but is not limited to health insurance subsidies, income security and federal civilian and military retirement, which is shown are fixed passed and expectations. They reliable indicator of future performance, Forecasts, projections and other forward looking statements are based upon current beliefs and expectations. They are for illustrative purposes of the season indication of the season indication of the inherent uncertainties and season indication of the season



Source; FactSet, F.B., J.P. Morgan asset Management; Top inch. BEA; (Bottoming in Equifax, New York Fed, Data include households and nonprofit organizations, SA – seasonally adjusted, 'Revolving includes medical asset Values may not sum to 100% due to rounding, "1023 figures for deuts provide ratio are J.P., Morgan asset Management estimates, Guide to the Markets – U.S. Data are as of April 11, 2023,

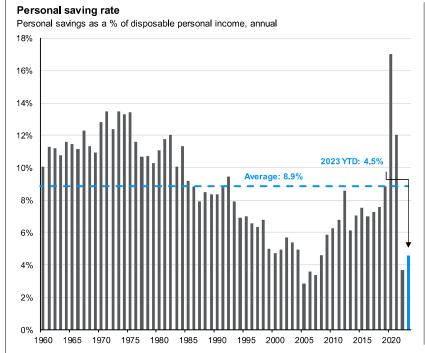
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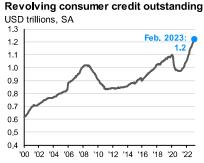
23

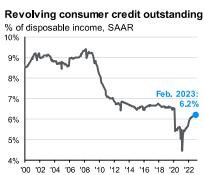


#### Consumer saving and borrowing







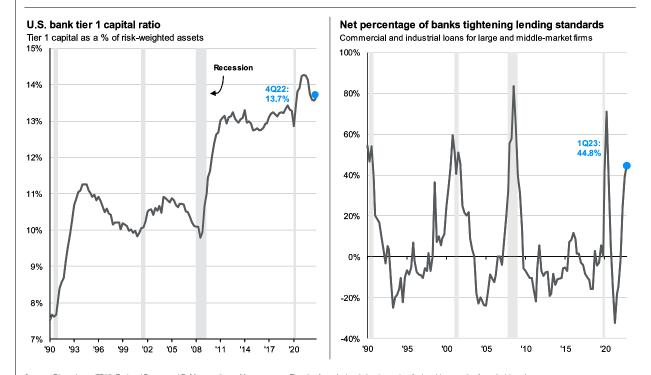


Source BEL Federal Reserve, J.P. Morgan See Management, Guide to the Markets - U,S, Data are as of April 11, 2023



#### Bank capitalization and lending sentiment

( GTM | U.S. | 25



Source; Bloomberg, FDIC. Federal Reserve, J.P. Morgan Asset Management, The tier 1 capital ratio is the ratio of a bank's core tier 1 capital (equity capital and disclosed reserves) to its total risk-weighted assets, It is a key measure of a bank's financial strength that has been adopted as part of the East III Accordantary regulation,

Guide to the Markets - U,S, Data are as of April 11, 2023,

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#### Consumer confidence and the stock market

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#### Consumer Sentiment Index and subsequent 12-month S&P 500 returns

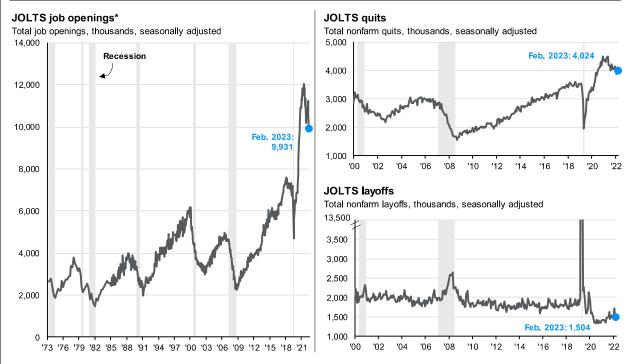


Source: FactSet, Standard & Poor's, University of Michigan, J.P. Morgan Asset Management.

Peak is defined as the highest index value before a series of lower lows, while a trough is defined as the lowest index value before a series of higher highs. Subsequent 12-month S&P 500 returns are price returns only, which excludes dividends. Past performance is not a reliable indicator of current and future results.

of current and future results.

Guide to the Markets - U.S. Data are as of April 11, 2023.



Source; U.S. Department of Labor, J.P. Morgan asset Management, \*JOLTS job openings from February 1974 to November 2000 are J.P. Morgan

Asset Management estimates, Guide to the Markets – U.S. Data are as of April 11, 2023,

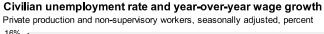
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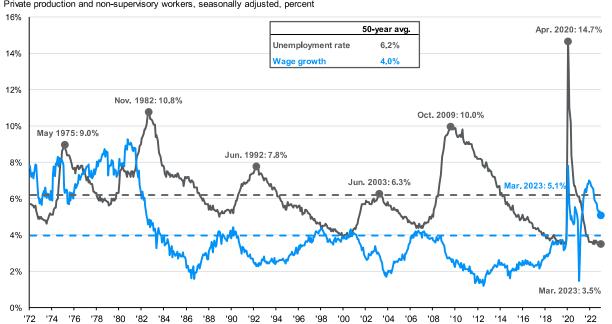
27



### Unemployment and wages

GTM U.S. 28



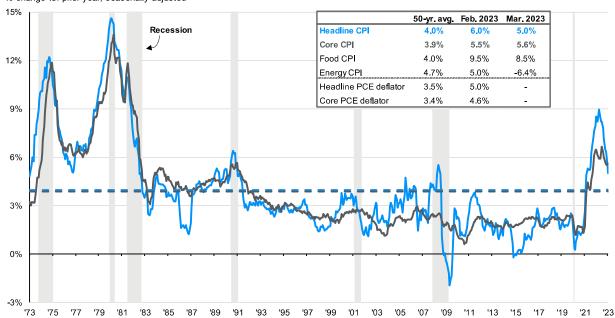


Source: BLS. FactSet, J.P. Morgan Asset Management, Private production and non-supervisory workers represent 70% of the nonfarm workforce, Guide to the Markets – U,S, Data are as of April 11, 2023,

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#### **CPI and core CPI**

% change vs. prior year, seasonally adjusted



Source: BLS. FactSet. J.P. Morgan asset Management.
CPI used is CPI-U and values shown are % change vs. one year ago, Core CPI is defined as CPI excluding food and energy prices, The Personal Consumption Expenditure FCE deflator employs an evolving chain-weighted basket of consumer expenditures instead of the Fined-weight basket used in CPI calculations, Guide to the Markets – U,S, Data are as of April 11, 2023,

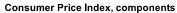
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## Inflation heatmap

GTM U.S. 30



m/m % change, seasonally adjusted

						20	)21										20	022						20	023
	Weight	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Headline CPI, y/y	100.0	2.6%	4.1%	4.9%	5.3%	5.2%	5.2%	5.4%	6.2%	6.9%	7.2%	7.6%	8.0%	8.5%	8.2%	8.5%	8.9%	8.4%	8.2%	8.2%	7.8%	7.1%	6.4%	6.3%	6.0%
Core CPI, y/y	79.5	1.7%	3.0%	3.8%	4.4%	4.2%	3.9%	4.0%	4.6%	5.0%	5.5%	6.1%	6.4%	6.5%	6.1%	6.0%	5.9%	5.9%	6.3%	6.6%	6.3%	6.0%	5.7%	5.5%	5.5%
Core svcs. ex-housing PCE, y/y*	-	2.9%	4.3%	4.3%	4.2%	4.4%	4.4%	4.3%	4.4%	5.0%	5.0%	4.9%	4.8%	4.7%	4.5%	4.5%	4.6%	4.0%	4.2%	4.5%	4.7%	4.4%	4.3%	4.7%	4.7%
Headline CPI, m/m	100.0	0.5%	0.7%	0.7%	0.8%	0.4%	0.4%	0.4%	0.9%	0.8%	0.8%	0.6%	0.7%	1.0%	0.4%	0.9%	1.2%	0.0%	0.2%	0.4%	0.5%	0.2%	0.1%	0.5%	0.4%
Core CPI, m/m	79.5	0.3%	0.8%	0.7%	0.7%	0.3%	0.2%	0.3%	0.7%	0.6%	0.7%	0.6%	0.5%	0.3%	0.5%	0.6%	0.6%	0.3%	0.6%	0.6%	0.3%	0.3%	0.4%	0.4%	0.5%
Core svcs. ex-housing PCE, m/m*	-	0.6%	0.5%	0.4%	0.4%	0.5%	0.3%	0.2%	0.2%	0.6%	0.5%	0.2%	0.3%	0.5%	0.3%	0.3%	0.6%	-0.1%	0.5%	0.5%	0.4%	0.3%	0.4%	0.5%	0.3%
Energy	6.9	3.5%	0.2%	0.3%	1.5%	1.7%	2.8%	1.5%	3.6%	2.6%	2.4%	0.8%	2.7%	8.2%	-1.0%	3.4%	6.9%	-4.7%	-3.9%	-1.7%	1.7%	-1.4%	-3.1%	2.0%	-0.6%
Gasoline	3.2	6.3%	-0.6%	-0.1%	2.5%	2.5%	4.5%	1.5%	4.1%	4.2%	3.8%	-0.3%	4.7%	13.2%	-3.1%	3.2%	10.3%	-8.1%	-8.4%	-4.2%	3.4%	-2.3%	-7.0%	2.4%	1.0%
Electricity	2.5	-0.1%	0.9%	0.4%	0.0%	0.2%	0.7%	1.0%	1.6%	0.7%	0.9%	2.7%	-0.3%	1.7%	0.9%	1.3%	1.5%	1.5%	1.2%	0.8%	0.5%	0.5%	1.3%	0.5%	0.5%
Utility Gas	0.9	2.4%	1.6%	1.1%	1.2%	2.0%	1.6%	2.2%	6.7%	0.5%	0.1%	0.5%	2.0%	0.6%	2.5%	7.2%	7.5%	-3.8%	3.5%	2.2%	-3.7%	-3.4%	3.5%	6.7%	-8.0%
Food	13.5	0.1%	0.3%	0.4%	0.7%	0.6%	0.4%	0.9%	0.9%	0.8%	0.6%	0.8%	1.0%	0.9%	0.8%	1.1%	1.0%	1.1%	0.8%	0.8%	0.7%	0.6%	0.4%	0.5%	0.4%
Food at home	8.7	0.1%	0.3%	0.3%	0.8%	0.5%	0.4%	1.2%	1.0%	1.0%	0.6%	0.9%	1.3%	1.3%	0.9%	1.3%	1.0%	1.3%	0.8%	0.7%	0.5%	0.6%	0.5%	0.4%	0.3%
Food away from home	4.8	0.1%	0.3%	0.6%	0.7%	0.8%	0.4%	0.5%	0.8%	0.6%	0.6%	0.7%	0.4%	0.3%	0.6%	0.7%	0.9%	0.7%	0.9%	0.9%	0.9%	0.5%	0.4%	0.6%	0.6%
Core goods	21.4	0.1%	1.9%	1.7%	1.9%	0.3%	0.3%	0.3%	1.3%	1.1%	1.4%	0.9%	0.3%	-0.4%	0.1%	0.6%	0.6%	0.1%	0.4%	0.0%	-0.1%	-0.2%	-0.1%	0.1%	0.0%
Apparel	2.5	0.1%	1.0%	0.8%	0.6%	0.0%	0.3%	-0.5%	1.0%	0.7%	0.9%	0.7%	0.6%	0.3%	-0.1%	0.4%	0.7%	-0.1%	0.3%	0.0%	-0.2%	0.1%	0.2%	0.8%	0.8%
New vehicles	4.3	0.0%	-0.1%	1.1%	1.6%	1.4%	1.2%	1.3%	1.5%	1.6%	1.8%	0.3%	0.1%	0.1%	0.4%	0.6%	0.5%	0.5%	0.8%	0.7%	0.6%	0.5%	0.6%	0.2%	0.2%
Used cars	2.7	0.6%	9.6%	7.7%	9.1%	-0.4%	-1.3%	-0.5%	3.1%	3.2%	3.9%	1.4%	-0.6%	-3.6%	-0.7%	1.9%	0.5%	-0.8%	-0.2%	-1.1%	-1.7%	-2.0%	-2.0%	-1.9%	-2.8%
Medical care commod	1.5	0.1%	0.6%	0.0%	-0.4%	0.2%	-0.2%	0.3%	0.6%	0.1%	0.0%	0.9%	0.3%	0.2%	0.1%	0.3%	0.4%	0.6%	0.2%	-0.1%	0.0%	0.2%	0.1%	1.1%	0.1%
Core services	58.2	0.3%	0.4%	0.4%	0.3%	0.3%	0.1%	0.2%	0.4%	0.4%	0.4%	0.4%	0.5%	0.6%	0.6%	0.6%	0.6%	0.4%	0.6%	0.8%	0.5%	0.5%	0.6%	0.5%	0.6%
Shelter	34.4	0.3%	0.4%	0.3%	0.4%	0.5%	0.2%	0.4%	0.4%	0.5%	0.4%	0.3%	0.6%	0.5%	0.5%	0.6%	0.6%	0.6%	0.7%	0.7%	0.7%	0.6%	0.8%	0.7%	0.8%
Rent of primary res.	7.5	0.2%	0.2%	0.2%	0.2%	0.2%	0.3%	0.4%	0.4%	0.4%	0.4%	0.5%	0.6%	0.4%	0.6%	0.6%	0.8%	0.7%	0.7%	0.8%	0.7%	0.8%	0.8%	0.7%	0.8%
OER	25.4	0.2%	0.2%	0.3%	0.3%	0.3%	0.3%	0.4%	0.4%	0.4%	0.4%	0.5%	0.5%	0.5%	0.5%	0.6%	0.7%	0.6%	0.7%	0.8%	0.6%	0.7%	0.8%	0.7%	0.7%
Medical care services	6.7	0.1%	0.0%	-0.1%	-0.1%	0.1%	0.2%	0.0%	0.6%	0.5%	0.5%	0.5%	0.1%	0.6%	0.5%	0.4%	0.7%	0.4%	0.7%	0.8%	-0.4%	-0.5%	0.3%	-0.7%	-0.7%
Transportation services	5.8	1.1%	1.3%	1.9%	0.9%	-0.8%	-0.7%	-0.9%	0.0%	1.2%	0.5%	0.7%	1.1%	2.1%	2.2%	1.6%	1.8%	-0.4%	1.0%	1.9%	0.6%	0.3%	0.6%	0.9%	1.1%

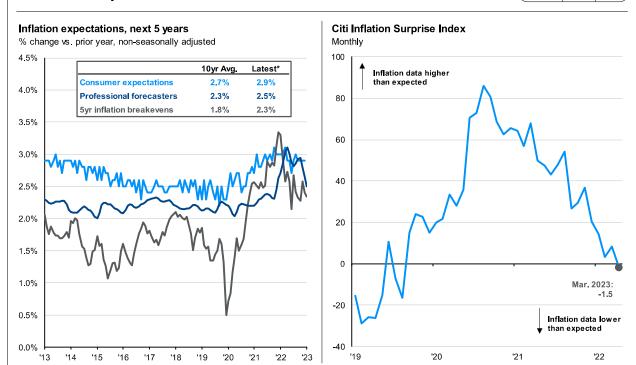
Source; BLS, FactSet, J,P, Morgan asset Management, Heatmap shading is relative to the two-year period shown, Component weights may not add to 100, DER refers to owner's equivalent rent, "Does services exchousing is an approximation by J,P, Morgan asset Management, It reflects the custom PCE index of services excluding energy and housing referenced in the U.S. Federal Reserve's Monetary and provided by the BEA and is distinct from the CPI data provided by the BLS, "Housing" is a PCE component that is measured separately from the CPI "shelter" component.

Guide to the Markets – U,S, Data are as of April 11, 2003,



#### Inflation expectations

GTM U.S. 31



Source: Bureau of Labor Statistics, Cm. FactSet, Federal Reserve Barrior of Philadelphia, University of Michigan, J.P. Morgan Asset Management, \*Reflects the lates daily 5 yr /5 yr breakevens, preliminary or final Consumer Sentiment survey, and the quarterly Survey of Professional Forecasters interpolated to a monthly series. The Survey of Professional Forecasters reflects the median estimate by professional forecasters of average CPI inflation over the new 5 persons. The series has been adjusted by J.P. Morgan Asset Management to exclude realized inflation readings within the forecast window, Citi Inflation Surprise and A reading above 0 means that data are on average coming in above consensus expectations, Guide to the Markets – U,S, Demane as of April 11, 2003,

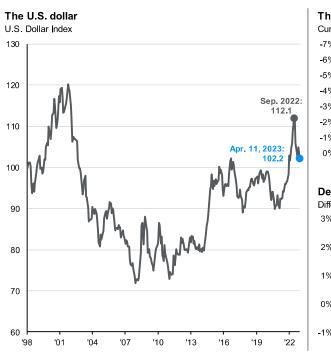
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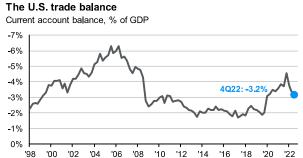
31



#### **Dollar drivers**

GTM U.S. 32





#### Developed markets interest rate differentials

Difference between U.S. and international 10-year yields\*

3%

2%

1%

Apr. 11, 2023: 1.4%

18

'98 '00 '02 '04 '06 '08 '10 '12 '14 '16 '18 '20 '22

Source, J.P. Morgan Asset Management, Left, FactSet, ICE, Tonnint, Bureau of Economic Analysis, FactSet, (Bottom right) and Currencies in the Divince are, British pound, Canadian dollar, even Japaneseyen, Swedish krona and Soussian, Interest are differential is the difference between the 10-year U.S. Treasury, and and a basket of the 10-year year of sech major trading partner (Australia, Canada, Europe, Japan, Sweden, Switzerland and UK). Weights in the basket are calculated using the 10-year average of total government bonds outstanding in each region. Europe is defined as the 19 countries in the surperse.

Guide to the Markets – U.S. Desare as of April 11, 2023,

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#### Oil markets

GTM U.S. 33

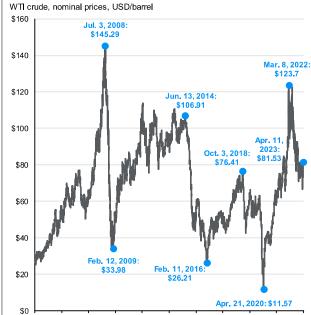
#### Change in production and consumption of liquid fuels

Production, consumption and inventories, millions of barrels per day

Production	2019	2020	2021	2022	2023*	Growth since '19
U.S.	19.5	18.6	19.0	20.2	21.1	7.9%
OPEC	34.6	30.7	31.7	34.2	34.1	-1.6%
Russia	11.5	10.5	10.8	10.9	10.3	-10.3%
Global	100.3	93.9	95.7	99.9	101.5	1.2%
Consumption						
U.S.	20.5	18.2	19.9	20.3	20.5	-0.4%
China	14.0	14.4	15.3	15.2	15.9	13.2%
Global	100.9	91.6	97.1	99.4	100.9	0.0%
Inventory Change	-0.6	2.3	-1.4	0.4	0.6	

#### U.S. crude oil inventories and rig count\*\*





'09

111

113

'07

Price of oil

'03 '05

Source; J.P. Morgan asset Management; Top and bottom left; EIA; (Right) FactSet; (Bottom left) Baker Hughes,
\*Forecasts are from the March 2023 EIA Short-Tarm Energy Outlook and start in 2023, "U.S. crude oil inventories include the Strategic Petroleum Reserve SPP, Liquid rues include crude oil, natural gas, biodiesel and fuel ethanol, Active rig count includes both natural gas and oil rigs, WTI crude prices are continuous contract Intelligence in USD, Guide to the Markets – U.S. Detaare as of April 11, 2023,

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'19 '21

'23

'17

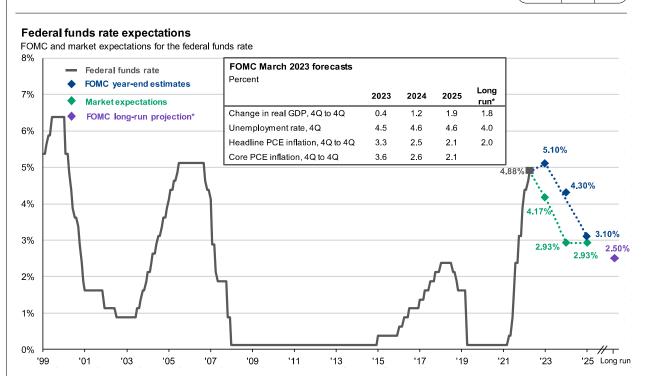
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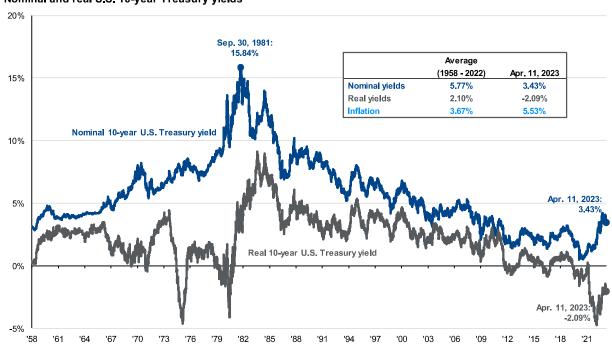


#### The Fed and interest rates

GTM U.S. 34



Source; Bloomberg, FactSet, Federal Reserve, J.P. Morgan — Management, Market expectations are based off of the respective Federal Funds Futures contracts for December = 0.7, \*Long-run projections are the respective Federal Funds Futures contracts for December = 0.7, \*Long-run projections are the respective Federal Funds Futures contracts for December = 0.7, \*Long-run projections are the respective for growth, unemployment and inflation to which a policymaker expects the economyto converge of the reset for six less in absence of further shocks and under appropriate monetary projections. For ecasts, projections are for illustrative purposes only and see as an indication of the respective forms of the inherent uncertainties and risks associated in forecasts, projections or one forward-looking statements, actual events, results or performance may be materially to the Markets – U,S, December = 0.1, 20.3



Source: BLS. FactSet, Federal Reserve, J.P., Morgan asset Management, Real 10. year Treasury; edits are calculated as the daily Treasury; edit less year over-year core CPI inflation for that month, For the current month, we use the prior month's core CPI figures until the latest data is available, Guide to the Markets – U.S. Data are as of April 11, 2023,

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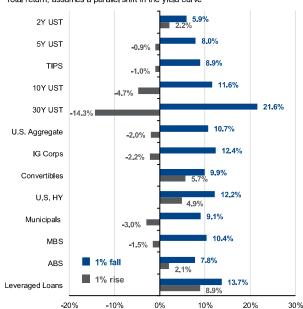


#### Fixed income market dynamics

GTM U.S. 36

	Yi	e <b>l</b> d	Return			
U.S. Treasuries	4/11/2023	12/31/2022	2023 YTD	Avg. Maturity		Correlation to S&P 500
2-Year	4.03%	4.41%	1.58%	2 years	0.74	-0.15
5-Year	3.54%	3.99%	2.71%	5	0.93	-0.13
TIPS	1.14%	1.58%	3.83%	10	0.61	0.37
10-Year	3.43%	3.88%	4.31%	10	1.00	-0.14
30-Year	3.62%	3.97%	6.92%	30	0.93	-0.17
Sector						
U.S. Aggregate	4.35%	4.68%	3.43%	8.6	0.86	0.22
IG Corps	5.12%	5.42%	4.04%	11.1	0.54	0.47
Convertibles	7.42%	7.58%	3.90%	-	-0.14	0.87
U.S. HY	8.52%	8.96%	3.90%	5.3	-0.10	0.74
Municipals	3.09%	3.55%	3.82%	13.1	0.53	0.22
MBS	4.45%	4.71%	3.00%	7.5	0.78	0.15
ABS	5.59%	5.89%	2.07%	3.5	0.21	-0.01
Leveraged Loans	11.28%	11.41%	3.67%	2.4	-0.34	0.59

#### Impact of a 1% rise or fall in interest rates Total return, assumes a parallel shift in the yield curve



Source; Bloomberg, FactSet, Standard & Poor's, U.S. Treasury, J.P. Morgan See Management, Sectors shown above are provided by Bloomberg unless otherwise noted and are represented by -U.S. Aggregate; U.S. U.S. Aggregate Securitized - U.S. J.P. Morgan See Securitized - U.S. Description of Bloomberg U.S. Corporates; U.S. Corporates; Municipals; U.S. Convertibles Corposite, Convertibles us as soft of secret month - and is based on U.S. portion of Bloomberg Global Convertibles us are return information based on believe there for Treasury securities, Sector - S

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Source; FactSet, Federal Reserve, J, P, Morgan Asset Management, Guide to the Markets – U, S, Data are as of April 11, 2023,

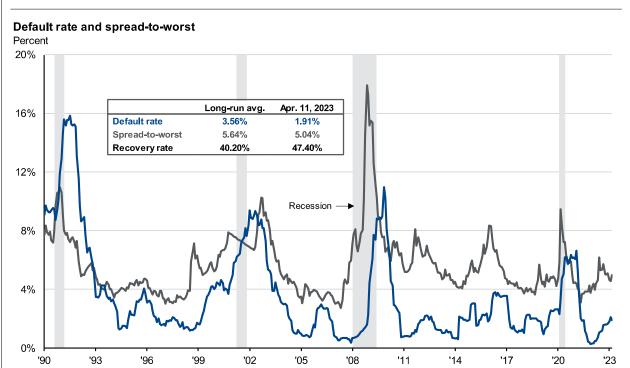
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### High yield bonds

GTM U.S. 38



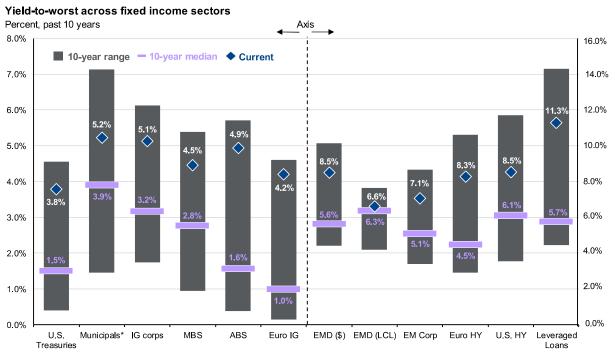
Sourcet J.P. Morgan Global Economic Research, J.P. Morgan See Management, Long-run average is based on monthly historical data beginning in January 1990, Defaultrates are defined as the partial experiments and include any Chapter 11 in prepackaged from or missed interest payments. The default rate is an L.T. If given last 12 months) and tracks the % of defaults over the period. Recovery also are based on the property of the default data of the period. Recovery also are based on the property of the default data of the period. Recovery also are based on the property of the default data of the default data. Default and recovery also are as of most recent month-end, Spread-to-see indicated are the difference between the yield to morst of a bond and yield to morst of a U<sub>i</sub>S<sub>i</sub> Treasury security with a similar duration, High yield is represented by the J<sub>i</sub>P<sub>i</sub> Morgan Domestic High Yield Index, Guide to the Markets – U<sub>i</sub>S<sub>i</sub> Data are as of April 11, 2023,

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#### Fixed income valuations

GTM U.S. 39



Source, Bloomberg, FactSet, J.P., Morgan Credit Research, J.P., Morgan See Management, Indices used are Bloomberg except for emerging market declared leveraged Loss; J.P., Morgan EMIGLOBAL Diversified in the Loss of Loss o

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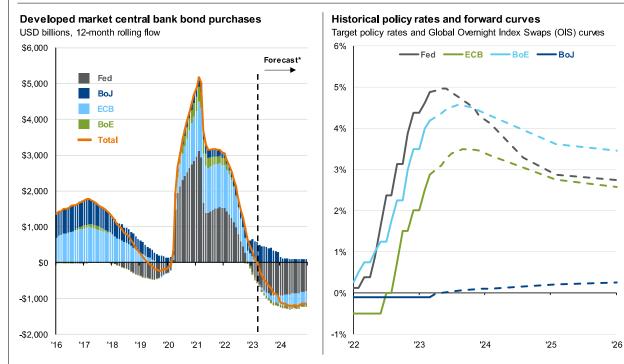
Guide to the Markets - U,S, Data are as of April 11, 2023,

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#### Developed market monetary policy

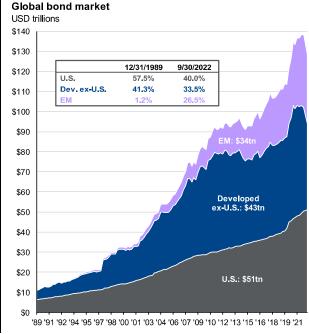
GTM U.S. 40





Source, B.S. Bloomberg, FactSet, J.P. Morgan S. Management: E. B. of England (Bob). B. of Japan S. European Central B. (ECB), Federal Reserve System J.P. Morgan Global Economic Research T. D. purchase forecasts are internal assumptions based on government D. purchases as outlined in the recent monetary policy announcements I. D. B. B. E. B. Federal Reserve through December J. Forecasts, projections or forward-looking statements are based or current beliefs or expectations, are for illustrative purposes of a reliable indicator of future performance, be inherent uncertainties and as associated of forecasts, projections or forward-looking statements, actual events, results or performance materially and the statements of the s

	Yi	e ld	2023 F	Return		
Aggregates	4/11/2023	12/31/2022	Local	USD	Duration	Correlation to 10yr
u.s.	4.35%	4.68%	3.43%	3.43%	6.4 years	0.91
Gbl. ex-U.S.	2.99%	3.13%	-	3.18%	7.20	0.60
Japan	0.62%	0.75%	1.93%	0.72%	9.40	0.60
Germany	3.07%	3.22%	1.79%	4.08%	6.30	0.51
UK	4.13%	4.29%	2.02%	5.45%	8.60	0.51
Italy	3.84%	4.10%	3.39%	5.72%	6.20	0.38
China	2.93%	2.94%	0.97%	1.94%	5.90	0.57
Sector						
Euro Corp.	4.19%	4.32%	2.06%	4.35%	4.5 years	0.43
Euro HY	8.27%	8.32%	3.07%	5.39%	3.10	0.04
EMD (USD)	8.49%	8.55%	-	2.19%	6.00	0.35
EMD (LCL)	6.61%	6.86%	2.96%	5.12%	4.90	0.24
EM Corp.	7.06%	7.28%	-	2.89%	5.00	0.26



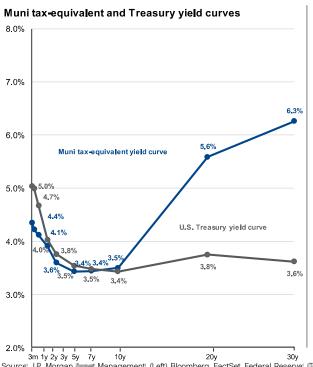
Source J.P. Morgan See Management; Let Bloomberg, FactSet; (Right) BIS, Source, J.P., Morgan as a Management | E. Bloomberg, Factset, (Right) B.S., Expressed by the global aggregate for each country except where noted. But sectors are represented by the J.P. Morgan EMBIG Diversified | E. C. B. Broad Diversified | E. C. Bro Guide to the Markets - U,S, Data are as of April 11, 2023,

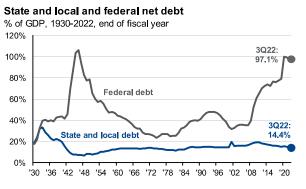
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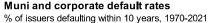
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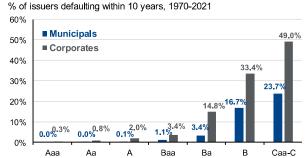
#### Municipal finance









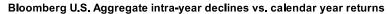


Source: J.P., Morgan — see Management. (Left) Bloomberg, FactSet, Federal Reserve. To not Census Bureau, Congressional Budget Dec (CBO). (Bottomrat, Moody's U.S., Public Finance, U.S., municipal bond defaults and recoveries, 150 to 2021, See and local desarrate of a source of the consus Bureau shannual Survey of See and Local Government Finances, Municipal and corporate default are a sessional Budget Dec (CBO). Municipal and corporate default are are effected by Moody's.

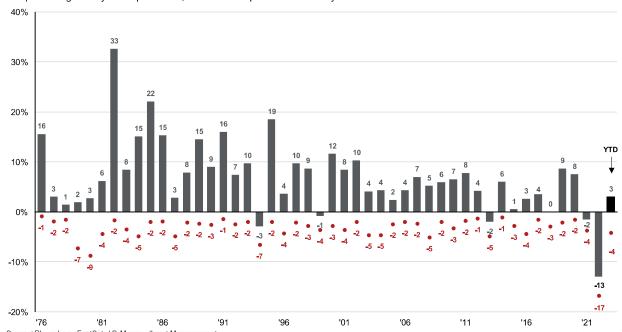
Guide to the Markets - U,S, Data are as of April 11, 2023,



GTM U.S. 43



Despite average intra-year drops of 3.3%, annual returns positive in 42 of 47 years



Source; Bloomberg, FactSet, J.P., Morgan lesset Management,
Returns are based on total return, Intra-year drops refers to the largest market drops from a peak to a trough during the year, For illustrative purposes only, Returns shown are calendar year returns from 1976 to 2022, over which time period the average annual return was 6,6%, Returns from 1976 to 1989 are calculated on a monthly basis! daily data are used afterwards, Guide to the Markets - U,S, Data are as of April 11, 2023,

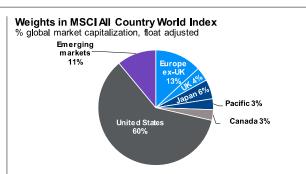
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#### Global equity markets

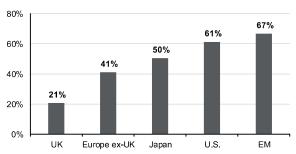
GTM U.S. 44

Returns	20	23	20	22	15-y	ears
	Local	USD	Local	USD	Ann.	Beta
Regions						
U.S. (S&P 500)	-	7.5	-	-18.1	8.8	0.9
AC World ex-U.S.	7.2	8.0	-9.2	-15.6	2.0	1.0
EAFE	8.4	9.6	-6.5	-14.0	2.3	1.0
Europe ex-UK	11.2	13.4	-12.2	-17.3	2.4	1.2
Emerging markets	4.8	4.7	-15.2	-19.7	1.0	1.1
Selected Countries						
Japan	6.7	5.4	-4.1	-16.3	2.5	0.7
United Kingdom	5.6	9.1	7.2	-4.8	1.4	1.0
France	13.8	16.3	-6.9	-12.7	2.8	1.2
Canada	6.3	6.8	-5.8	-12.2	3.0	0.7
Germany	12.8	15.4	-16.5	-21.6	0.9	1.3
China	4.4	4.0	-20.6	-21.8	0.6	1.0
India	-5.2	-4.5	3.0	-7.5	2.4	1.2
Korea	16.6	11.6	-24.4	-28.9	1.6	1.3
Brazil	-3.0	2.3	8.6	14.6	-2.1	1.4



#### Revenue exposure vs. country of listing

% of total revenue from home countries



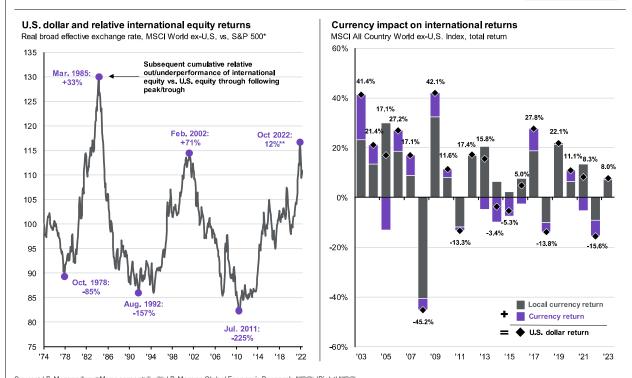
Source: FactSet, Federal Reserve, MSCI, Standard & Poor's, J.P., Morgan Asset Management, All return values are USCI Gross Index data, 15-year history based on USCI returns, 15-year return and beta figures are calculated for the time period 12/31/2007 to 12/31/2002. Beta is for monthly returns relative to the USCI ACT and index. Annualized volatility is calculated as the standard deviation of quarterly returns multiplied by the squaremost of 4, Death is for illustrative purposes only. Please see disclosure page for index definitions, Past performance is not a reliable indicator of current and future results. Revenue exposure vs. country of listing is as of 3/31/2022, Guide to the Markets – U,S, Deta are as of Acrif 11, 2023,





## Currency and international equity returns

GTM U.S. 45



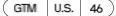
Source; J.P., Morgan Ssat Management; Left J.P., Morgan Global Economic Research, LISCI; (Right) LISCI;
"U.S. on a is the J.P. Morgan Global Economic Research real broad effective exchange rate CP indexed to 100 in 1974. Relative international equity returns are cumulative, that returns in U.S. dollars and are calculated as LISCI Lond ex. U.S., minus \$8.9500 for each period of U.S. on a peak/trough, \*\*Datas are cumulative, that returns in U.S. dollars and are calculated as LISCI Lond ex. U.S., minus \$8.9500 for each period of U.S. on a peak/trough, \*\*Datas are cumulative, that returns in U.S. Datas are as of Lond 11, 2023, and the Markets - U.S. Datas are as of Lond 11, 2023, and the Lond 12, 2023, and the Lond

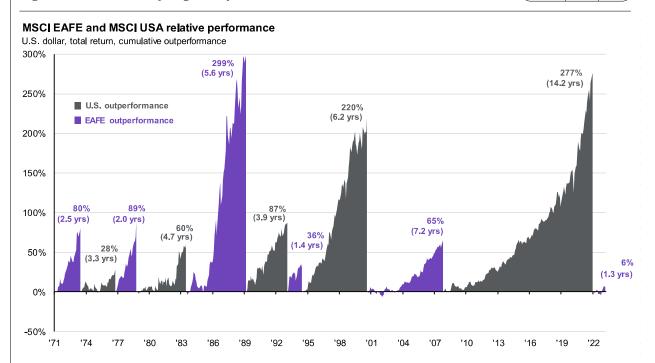
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### Cycles of U.S. equity outperformance





Source; FactSet, ISOL J.P. Morgan asset Management,
Regime change determined then cumulative outperformance peaks and is not reached again in the subsequent 12-month period,
Guide to the Markets - U,S, Data are as of April 11, 2023,

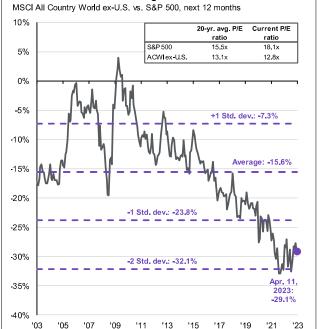




#### International valuations and dividend yields

GTM U.S. 47

International: Price-to-earnings discount vs. U.S.



International: Difference in dividend yields vs. U.S.



Source, FactSet, IISO. Standard & Poor's, J.P. Morgan Asset Management, Guide to the Markets – U,S, Data are as of April 11, 2023,

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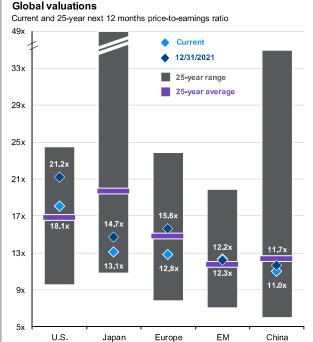
47

## >

#### International equity earnings and valuations







Source; FactSet, IISOL Standard & Poor's, Thomson Reuters, J.P. Morgan Asset Management,
Next 12 months consensus estimates are based on pro-forma earnings and are in U.S. dollars, IISOL Europe includes the eurozone as well as
countries not in the currency bloc, such as Norway, Sweden, Switzerland and the UK (which collectively make up 44% of the overall index), Past
performance is not a reliable indicator of current and future results,
Guide to the Markets – U.S. Detaare as of April 11, 2023,

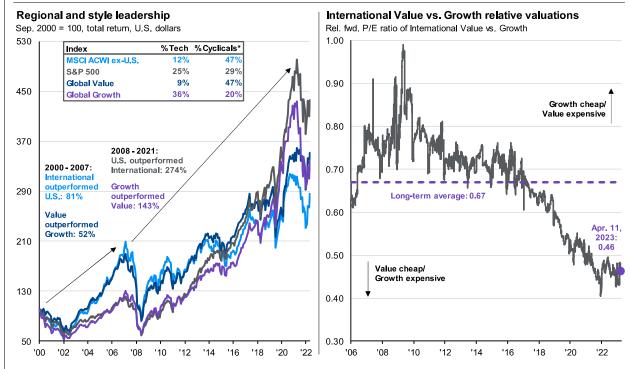
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International



#### International markets: Value vs. Growth

GTM U.S. 49



Source; Bloomberg, FactSet, USO. J.P. Morgan Isset Management,
""Cyclicals" are defined as Energy, Financials, Industrials and Materials, Global Growth and Global Issue are represented by the corresponding
USO ACT and indices, International Growth is represented by the USO ACT and Indices, International Value is represented by the MSCI ACWI ex-U.S. Value In

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#### Global economic activity momentum

GTM U.S. 50



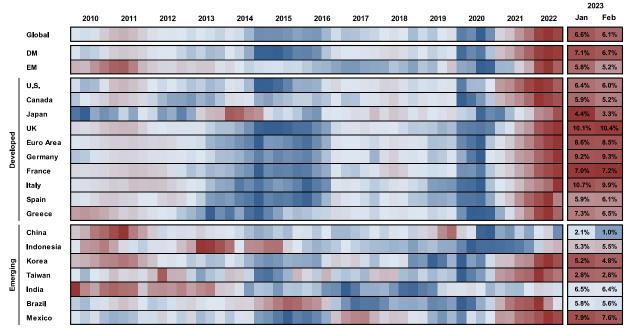
Source: Standard & Poor's, J.P. Morgan Asset Management.

The Composite PM includes both manufacturing and services sub-indices, Heatmap colors are based on PM relative to the 50 level, which indicates acceleration or deceleration of the sector, for the time period shown, Heatmap is based on quarterly averages, except for the two most recent figures, which are single month readings, Data for the U,S, are back-tested and Filed in for 2009, DM and EM represent developed markets and emerging markets, respectively.

Guide to the Markets - U.S. Data are as of April 11, 2023,



Year-over-year headline inflation by country and region, quarterly



Source Barrior Mexico, DGBAS, Eurostat, FactSet, Federal Reserve, Backing Ministry of Statistics & Programme Implementation, Japan Ministry of Internal Affairs & Communications, Korean National Statistical Office, Melbourne Institute, National Bureau of Statistics China, Statistics Canada, Statistics Indonesia, UK Office for National Statistics (ONS), J.P., Morgan See Management, Heatmap is based on quarterly averages, which are single month readings, Colors determined by percentiles of inflation values over the period shown. Deep blue = lowest labeling in median, deep red = highest labeling. DM and EM represent developed markets and emerging markets, respectively, Guide to the Markets – U.S. Data are as of April 11, 2023.

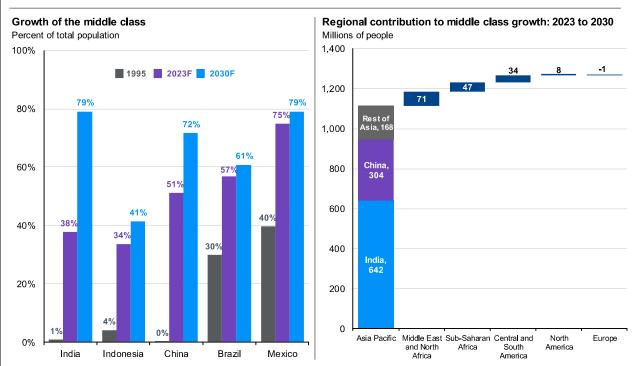
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#### The emergence of the EM middle class





Source; Brookings Institution, J.P., Morgan Asset Management, Estimates for regional contribution are from Kharas, Homi, The Unprecedented Expansion of the Global Middle Class, An Update, Brookings Institution, 2011, Middle class is defined as households in the capita incomes between USD 11and USD 110 per person per day in 2011PPP terms, Forecasts, projections and other forward-looking statements are based upon current beliefs and expectations, The area for illustrative purposes only and sense as an indication of the management, Given the inherent uncertainties and risks associated in forecasts, projections or other forward-looking statements, actual events, results or performancement and areas and risks associated in forecasts, guide to the Markets – U.S. Data are as of for 11, 2023,

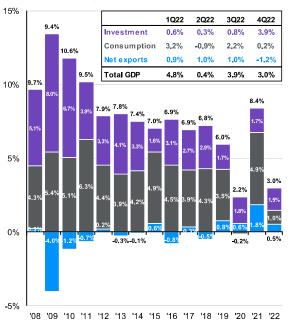


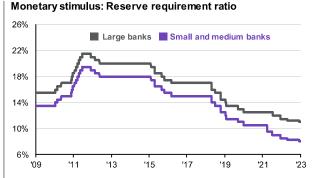
#### China: Economic growth

GTM U.S. 53

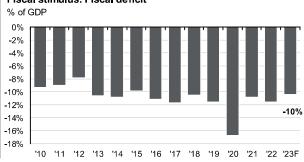


Year-over-year % change for GDP, contribution to GDP for components





Fiscal stimulus: Fiscal deficit\*



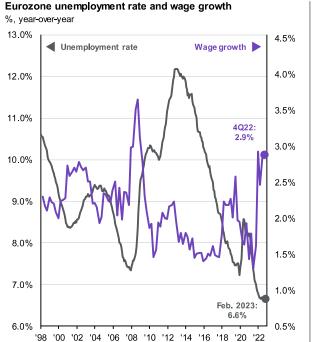
Source FactSet. JP. Morgan — Management | FactSet. JP. Morgan Global Economic Research estimated to a upmented — deficit is a JP. Morgan Global Economic Research estimated to a upmented — deficit it measures — aggregate resources controlled by a government — deficit in a JP. Morgan Global Economic Research estimated to a upmented — deficit it measures — aggregate resources controlled by agovernment — deventment — deve

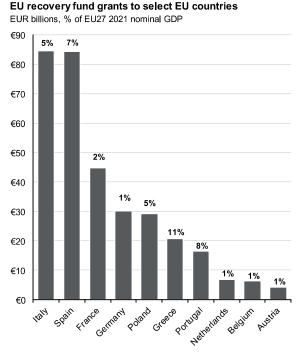
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#### Eurozone economy







Source: FactSet, J.P. Morgan Asset Management; (Left) ECB. Wage growth is based on negotiated wages. (Right) European Commission,

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International



## Correlations and volatility

GTM U.S. 55

	U.S. Large Cap	EAFE	EME	Bonds	Corp. HY	Munis	Currcy.	EMD	Cmdty.	REITs	Hedge funds	Private equity	Gold	Ann. Volatility
U.S. Large Cap	1.00	0.88	0.78	0.26	0.87	0.36	-0.42	0.70	0.41	0.77	0.85	0.80	0.10	0.15
EAFE		1.00	0.89	0.28	0.85	0.43	-0.61	0.76	0.44	0.62	0.81	0.83	0.23	0.15
EME			1.00	0.31	0.82	0.44	-0.69	0.80	0.48	0.53	0.75	0.77	0.40	0.18
Bonds				1.00	0.38	0.85	-0.35	0.67	-0.22	0.41	-0.02	0.13	0.58	0.04
Corp. HY					1.00	0.46	-0.48	0.86	0.49	0.69	0.79	0.74	0.28	0.08
Munis						1.00	-0.39	0.76	-0.15	0.54	0.12	0.27	0.51	0.04
Currencies							1.00	-0.59	-0.41	-0.21	-0.29	-0.59	-0.56	0.06
EMD								1.00	0.26	0.62	0.54	0.60	0.51	0.08
Commodities									1.00	0.33	0.62	0.58	0.27	0.17
REITs										1.00	0.61	0.61	0.18	0.16
Hedge funds											1.00	0.80	0.01	0.05
Private equity												1.00	0.10	0.08
Gold													1.00	0.15

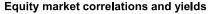
Source; Bloomberg, Burgiss, Credit Suisse/Tremont, FactSet, Federal Reserve, ISC. Standard & Poor's, J.P. Morgan - See Management, Indices - Sed - Large Cap; S.P. 500 Index; Currencies; Federal Reserve Trade-Weighted Dollar; E.F.; ISC. E.F.; E.F.; ISC. E.F.; E.F.; ISC. Emerging Markets; Bonds; Bloomberg Aggregate; Com Hr); Bloomberg Corporate Fig. 19(1); Bloomberg Emerging Market; Cmdty.; Bloomberg Commodity - REITs; NAREIT All Equity Index; Hedge funds; CS/Tremont Hedge Find Index; Private equity. Time weighted returns To Burgiss; God: Gold continuous contract (\$/02), Private equity data are reported on a one- to two quarter lag, All correlation coefficients and annualized volatility are calculated based on quarterly oral return data for period from 3/31/203 to 3/31/203, except for Private equity, which is based on the period from 9/30/2012 to 9/30/202. This chart is for illustrative purposes only, Guide to the Markets - U.S. Data are as of April 11, 2023.

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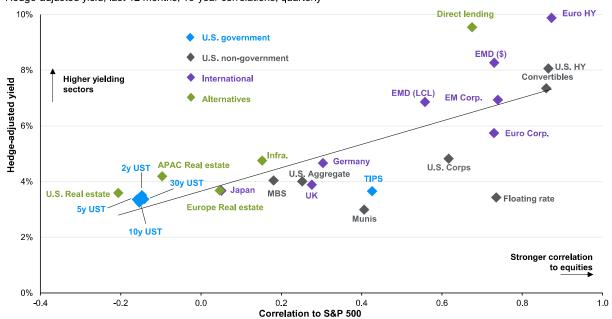
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#### Equity market correlations and yields

GTM U.S. 56



Hedge-adjusted yield, last 12 months, 10-year correlations, quarterly



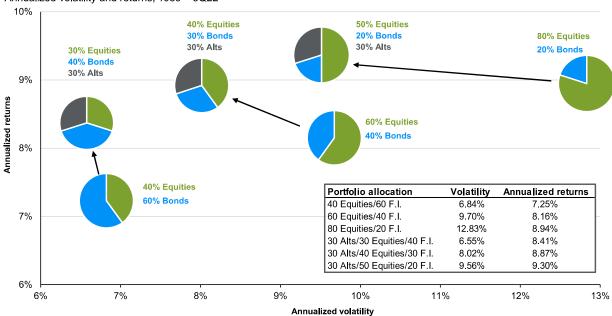


#### Portfolio diversification

GTM U.S. 57

#### Alternatives and portfolio risk/return

Annualized volatility and returns, 1989 - 3Q22



Source, Bloomberg, Burgiss, FactSet, FFF, NCREIF, Standard & Poor's, J.P. Morgan Asset Management, Alts include hedge funds, real estate and private equity, with each receiving an equal weight, Portfolios are rebalanced at the start of the year, This slide comes from our Guide to

Alternatives, Guide to the Markets – U,S, Data are as of April 11, 2023,

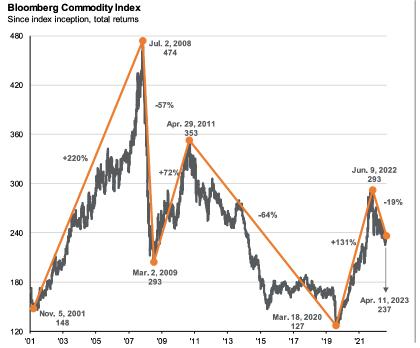
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#### Global commodities

GTM U.S. 58



#### Commodity prices

Bloomberg Commodity Index constituents

Bloomberg Commodity Index									
Constituents	Current price level	Change since 12/31/2021	Change since 6/9/2022*						
Sub-indices									
Energy	\$34.69	12.3%	-44.0%						
WTI crude oil	\$81.53	8.2%	-32.9%						
Natural gas	\$0.09	-43.5%	-77.1%						
Brent crude	\$487.82	39.1%	-19.6%						
Low sulphur gas oil	\$276.99	59.3%	-27.4%						
RBOB gasoline	\$509.29	57.0%	-16.8%						
ULS diesel	\$4.11	13.6%	-25.9%						
Grains	\$46.32	10.1%	-17.7%						
Corn	\$13.15	16.0%	-11.2%						
Soybeans	\$70.03	8.5%	-27.1%						
Soybean meal	\$924.96	28.9%	19.4%						
Wheat	\$33.22	-18.5%	-39.7%						
Soybean oil	\$82.13	9.4%	-26.4%						
HRW w heat	\$118.74	-2.0%	-29.0%						
Industrial metals	\$154.70	-10.5%	-16.0%						
Copper	\$359.20	-10.9%	-9.0%						
Aluminum	\$31.41	-21.1%	-19.2%						
Zinc	\$90.19	-18.3%	-23.6%						
Nickel	\$219.23	11.1%	-18.3%						
Precious metals	\$583.92	10.0%	10.5%						
Gold	\$212.64	5.6%	5.0%						
Silver	\$221.00	4.4%	12.3%						
Softs	\$53.16	10.8%	-0.2%						
Sugar	\$134.20	42.9%	36.2%						
Coffee	\$11.99	-12.8%	-15.9%						
Cotton	\$30.05	-10.0%	-32.4%						
Livestock	\$22.15	-1.2%	0.1%						
Live cattle	\$60.60	7.6%	11.1%						
Lean hogs	\$3.34	-15.6%	-18.5%						

Source: Bloomberg, FactSet, J.P. Morgan Asset Management. All the Bloomberg subsectors and constituents are represented by the respective Bloomberg subindex except ULS Diesel, which is represented by the EIA composite for U.S. ULS diesel prices. \*The Bloomberg Commodity Index peaked on June 9, 2022.

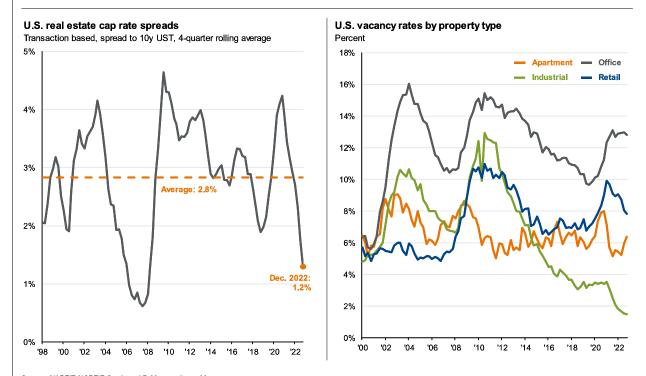
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## U.S. real estate dynamics

GTM U.S. 59



Source; NAREIT, NCREIF, Statista, J.P. Morgan lesset Management, The caprace, which is computed as the net operating income over selecting is the rate of return on a real estate investment property. Vacancy rate data is as of 12/31/2022, This side comes from our <u>Guide to Alternatives</u>, Guide to the Markets – U.S. Desarre as of April 11, 2023,

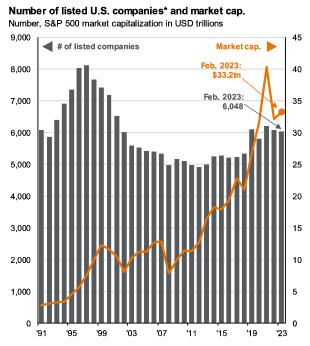
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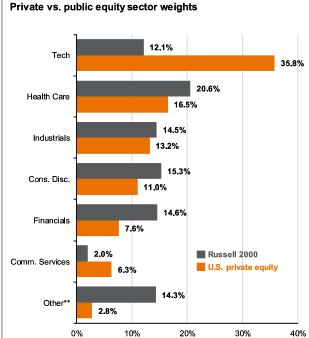
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## U.S. public vs. private equity







Sources; Cambridge Associates, Russell, India Federation of Exchanges, J.P. Morgan asset Management, 
\*Number of Isset U.S. companies is represented by the sum of number of companies is the on the India and the NASDAC, \*\*Other includes real estate, utilities and energy, Percentages may not sum due to rounding, Sector weights are as of 6/30/2021, This side comes from our Guide to Alternatives.

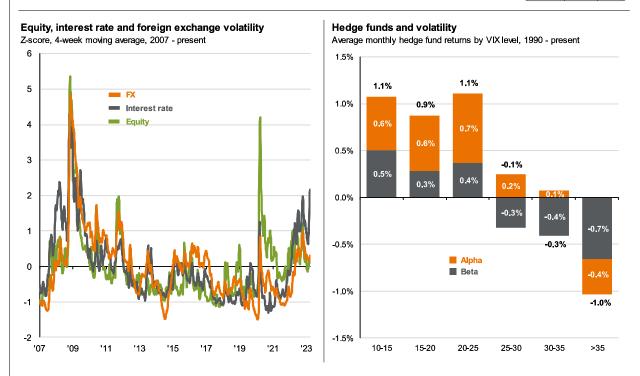
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## Market volatility and hedge funds

GTM U.S. 61



Source: CBOE, FactSet, HFF LICE Boff, J.P., Morgan Index Research, LSO, J.P., Morgan Lsost Management, Left, Equity volatility is represented by the VIX Index interest are volatility is represented by the J.P., Morgan Global FX Volatility Index (Right) Historical beautiful based on regression analysis, where the HFF list he dependent variable and the LSO ACTION INDEX. independent variable, Monthly VIX reading is an average, Numbers may not sum to 100% due to rounding, This slide comes from our <u>Guide to</u> Alternatives,
Guide to the Markets – U<sub>i</sub>S, Data are as of April 11, 2023,

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#### Asset class returns

GTM U.S. 62

																2008	- 2022
2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	YTD	Ann.	Vol.
Fixed Income	EM Equity	REITs			Sm all Cap			Small Cap	EM Equity	Cash	Large Cap	Sm all Cap		Com dty.	DM Equity	Large Cap	
5.2%	79.0%	27.9%	8.3%	19.7%	38.8%	28.0%	2.8%	21.3%	37.8%	1.8%	31.5%	20.0%	41.3%	16.1%	9.6%	8.8%	23.4%
Cash	High Yield	Small Cap	Fixed Income	High Yield	Large Cap	Large Cap	Large Cap	High Yie ld	DM Equity	Fixed Income	REITs	EM Equity	Large Cap	Cash	Large Cap	Sm all Cap	Small Cap
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%	7.5%	7.2%	23.2%
Asset Alloc.	DM Equity	EM Equity	High Yield	EM Equity	DM Equity	Fixed Income	Fixed Income	Large Cap	Large Cap	REITs	Small Cap	Large Cap	Com dty.	High Yield	Asset Alloc.	REITs	EM Equity
-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%	4.7%	6.6%	23.0%
Hig\1 Yie ld	RETTS	Comdty.	Large Cap	DM Equity	Asset Allec.	Asset	Cash	Comdty.	Small Cap	High Yield	DM Equity	Asset	Small Cap	Fixed Income	EM Equity	Asset Alloc.	Comdty.
-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%	4.7%	6.1%	20.2%
Small	Small	Large	Cash	Small	High	Small	DM		Asset	Large	Asset	DM	Asset	Asset	Fixed	High	DM
Cap	Cap	Cap	0.40/	Cap	Yield	Cap	Equity	Equity	A/100 14.6%	Cap	Arloc.	Equity	Alloc 13.5%	Alloc.	Income	Yie ld	Equity
-33.8%	27.2%	15.1%	0.1%	16.3%	7.3%	4.9%	-0.4%	11.6%	/	-4.4%	19.5%	8.3%		-13.9%	3.4%	5.4%	20.0%
Comdty.	Large Cap	High Yield	Asset All∎c.	Large Cap	REITs	Cash	Alsset Allec	REITs	High Yield	Asset Alloc	EM Equity	Fixed Income	DM Equity	DM Equity	High Yield	Fixed Income	Large Cap
-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%	3.3%	2.7%	17.7%
Large	Asset	Asset/	Small	Asset		High	High	Asset		Small	High	High	High	Large		DM	High
Cap	Al oc.	Alløc.	Сар	Angc.	Cash	Yield	Yield	Altoc.	REITS	Сар	Yield	Yield	Yield	Cap	REITS	Equity	Yield
-37.0%	25.0%	13.3%	-4.2%	12.2%	0.0%	0.0%	-2.7%	8.3%	8.7%	-11.0%	12.6%	7.0%	1.0%	-18.1%	1.9%	2.3%	13.0%
R⊟Ts	Comdtv.	DM	DM	Fixed	Fixed	EM	Small	Fixed	Fixed	Comdty.	Fixed	Cash	Cash	EM	Small	EM	Asset
NEI 15	· 1	Equity	Equity	Income	Income		Cap	Income	Income		Income				Сар	Equity	Alloc.
-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%	1.9%	1.0%	12.4%
DM	Fixed	Fixed	Com dty.	Cash	EM	DM		DM	Comdty.	DM	Comdty.	Com dty.	Fixed	Small	Cash	Cash	Fixed
Equity	Income 5.9%	Income 6.5%			Equity -2.3%	Equity	Equity	Equity		Equity		, i	Income	Cap -20.4%	1.2%	0.6%	Income 4.2%
-43.1%	5.9%	6.5%	-13.3%	0.1%	<i>-2</i> .3%	-4.5%	-14.6%	1.5%	1.7%	-13.4%	7.7%	-3.1%	-1.5%	-20.4%	1.2%	0.6%	4.2%
EM Equity	Cash	Cash	EM Equity	Com dty.	Com dty.	Comdty.	Comdty.	Cash	Cash	EM Equity	Cash		EM Equity	REITs	Com dty.	Comdty.	Cash
-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%	-3.8%	-2.6%	0.4%

returns. Guide to the Markets – U.S. Data are as of April 11, 2023.

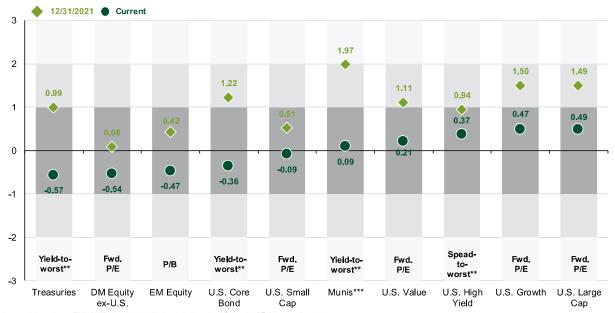


#### Valuations monitor

GTM U.S. 63

#### Asset class valuations

Z-scores based on 25-year average valuation measures\*



Source; Bloomberg, E.S. C. E. FactSet, S. Russell, Standard & Poor's, J.P. Morgan and Management, U.S. Large Capi Sa P50, U.S. Sa Capi Russell Cool, Elli Equity, I.S. C. E. E. U.S. Sa Elli Russell Cool Russell Cool Elli Equity, I.S. C. E. E. U.S. Sa Elli Russell Cool Russell Russell Russell Cool Russell Russell Russell Russell Cool Russell Russell Russell Russell Cool Russell Rus

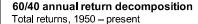
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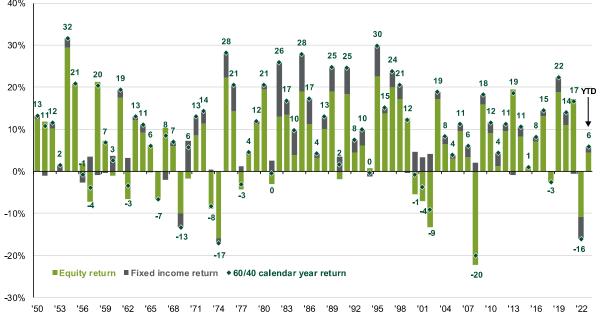


#### 60/40 annual returns

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40% 32 30%

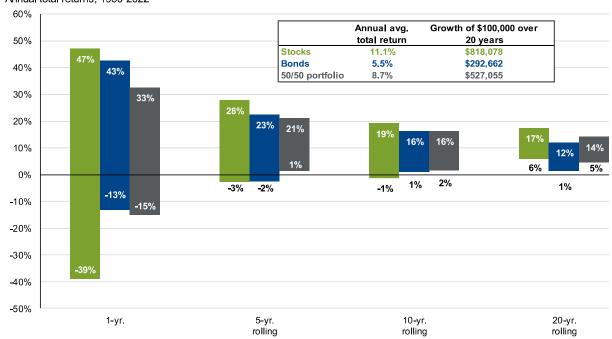


Source: Bloomberg, FactSet, Ibbotson/Strategas, Robert Shiller, Standard & Poor's, Yale University, J.P., Morgan Asset Management, The 60/40 portfolio is 60% invested in S&P 500 Total Return Index and 40% invested in Bloomberg U.S., Aggregate Total Return Index, S&P 500 returns from 1950 to 1970 are estimated using the Shiller S&P Composite, U.S. Fixed income total returns from 1950 to 1975 are estimated using data from Strategas/Ibbotson, The portfolio is rebalanced annually, Guide to the Markets – U.S. Data are as of April 11, 2023,

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#### Range of stock, bond and blended total returns

Annual total returns, 1950-2022



Source: Bloomberg, FactSet, Federal Reserve, Robert Shiller, Strategas/Ibbotson, J.P. Morgan Asset Management.
Returns shown are based on calendar year returns from 1950 to 2021. Stocks represent the S&P 500 Shiller Composite and Bonds represent
Strategas/Ibbotson for periods from 1950 to 2010 and Bloomberg Aggregate thereafter. Growth of \$100,000 is based on annual average total returns from 1950 to 2022.

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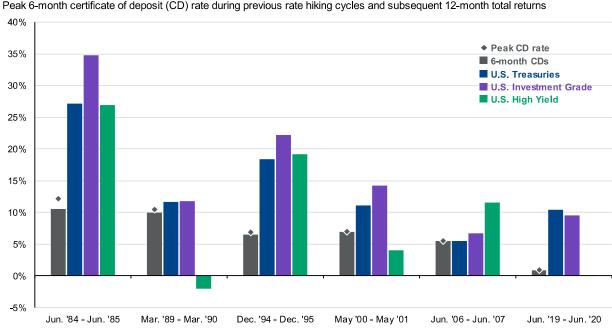
# 65

## CD rates and fixed income opportunities

GTM U.S. 66

#### Fixed income opportunities outside of CDs

Peak 6-month certificate of deposit (CD) rate during previous rate hiking cycles and subsequent 12-month total returns



Source: Bankrate, Bloomberg, FactSet, Federal Reserve, J.P. Morgan Asset Management.
U.S. Treasuries: Bloomberg US Treasury Index, U.S. Investment Grade: Bloomberg US Corporate Bond Index, U.S. High Yield: Bloomberg US Corporate High Yield Bond Index. The analysis references the month in which the 6-month average CD rate peaked during previous rate hiking cycles. CD rate data prior to 2013 are sourced from the Federal Reserve whereas data from 2013 to 2023 are sourced from Bankrate. CD subsequent 12-month return calculation assumes reinvestment at the prevailing 6-month rate when the initial CD matures. Guide to the Markets -U.S. Data are as of April 11, 2023.

1994

2000

2006

1989

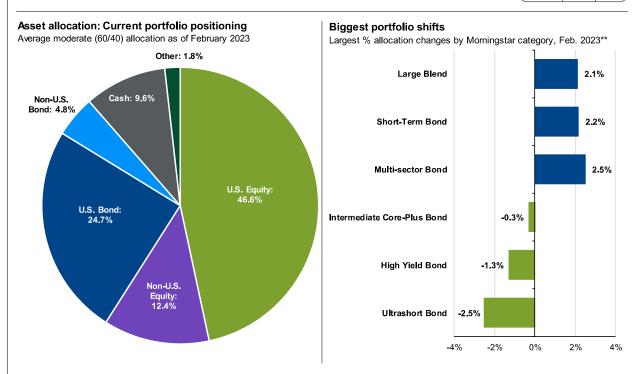
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2019



#### Individual investor asset allocation

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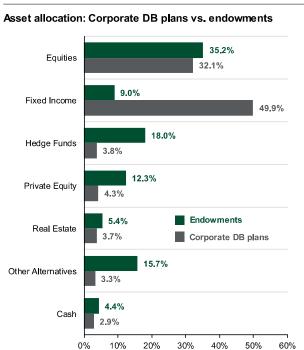


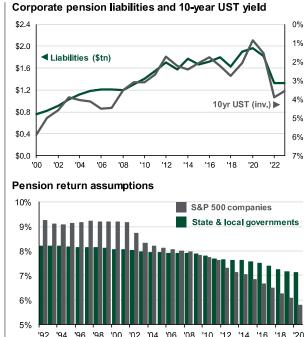
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#### Institutional investor behavior

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Source; J.P. Morgan asset Management; Left, NACUBO (National Association of College and University Business Officers), Towers Watson; Too might Milliman Pension Funding in the property (Bottoming in Census for Governments, Compustat, FactSet, S.P. 500 corporate 10. Ks. Endowment asset allocation is as of 2019. Corporate DB plants are greater as and 12013, Endowments represents and a weighted average of a of 749 colleges and universities, Corporate DB plants represents aggregate asset as of 12/31/2010 for Fortune 100 pension plants. Pension return assumptions based on all available and reported data from S.P. 500 index companies and are as of 12/31/2019, See and local pension return assumptions are weighted by plants as pension assets, liabilities and funded status based on Milliman 100 companies reporting pension data as of December 2021, All information is shown for illustrative purposes only, Guide to the Markets – U,S, Desage as of April 11, 2023,

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## J.P. Morgan Asset Management - Index definitions

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All indexes are unmanaged and an individual cannot invest directly in an index, Index returns do not

The **Dow Jones Industrial Average** is a price-weighted average of 30 actively traded blue-chip U.S. stocks.

The MSCI ACWI (All Country World Index) is a free float-adjusted market capitalization weighted index that is designed to measure the equity market performance of developed and emerging markets.

The MSCI EAFE Index(Europe, Australasia, Far East) is a free float-adjusted market capitalization index that is designed to measure the equity market performance of developed markets, excluding the US & Canada.

The MSCI Emerging Markets Index is a free float-adjusted market capitalization index that is designed to measure equity market performance in the global emerging markets.

The MSCI Europe Index is a free float-adjusted market capitalization index that is designed to measure developed market equity performance in Europe.

The MSCI Pacific Index is a free float-adjusted market capitalization index that is designed to measure equity market performance in the Pacific region.

The Russell 1000 Index® measures the performance of the 1,000 largest companies in the Russell 3000.

The Russell 1000 Growth Index® measures the performance of those Russell 1000 companies with higher price-to-book ratios and higher forecasted growth values.

The Russell 1000 Value Index® measures the performance of those Russell 1000 companies with lower price-to-book ratios and lower forecasted growth values.

The Russell 2000 Index® measures the performance of the 2,000 smallest companies in the Russell 3000

The Russell 2000 Growth Index® measures the performance of those Russell 2000 companies with higher price-to-book ratios and higher forecasted growth values.

The Russell 2000 Value Index® measures the performance of those Russell 2000 companies with lower price to-book ratios and lower forecasted growth values.

The Russell 3000 Index® measures the performance of the 3,000 largest U.S. companies based on total market capitalization.

The Russell Midcap Index® measures the performance of the 800 smallest companies in the Russell 1000

The Russell Midcap Growth Index @ measures the performance of those Russell Midcap companies with higher price-to-book ratios and higher forecasted growth values. The stocks are also members of the Russell 1000 Growth index.

The Russell Midcap Value Index ® measures the performance of those Russell Midcap companies with lower price-to-book ratios and lower forecasted growth values. The stocks are also members of the Russell 1000 Value

The S&P 500 Index is widely regarded as the best single gauge of the U.S. equities market. The index includes a representative sample of 500 leading companies in leading industries of the U.S. economy. The S&P 500 Index focuses on the large-cap segment of the market; however, since it includes a significant portion of the total value of the market, it also represents the market.

The Bloomberg 1-3 Month U.S. Treasury Bill Index includes all publicly issued zero-coupon US Treasury Bills that have a remaining maturity of less than 3 months and more than 1 month, are rated investment grade, and have \$250 million or more of outstanding face value. In addition, the securities must be denominated in U.S. dollars and must be fixed rate and non convertible.

The Bloomberg Global High Yield Index is a multi-currency flagship measure of the global high yield debt market. The index represents the union of the US High Yield, the Pan-European High Yield, and Emerging Markets (EM) Hard Currency High Yield Indices. The high yield and emerging markets sub-components are mutually exclusive. Until January 1, 2011, the index also included CMBS high yield securities.

The **Bloomberg Municipal Index**: consists of a broad selection of investment-grade general obligation and revenue bonds of maturities ranging from one year to 30 years. It is an unmanaged index representative of the tax-exempt bond market.

The Bloomberg US Dollar Floating Rate Note (FRN) Index provides a measure of the U.S. dollar denominated

The Bloomberg US Corporate Investment Grade Index is an unmanaged index consisting of publicly issued US Corporate and specified foreign debentures and secured notes that are rated investment grade (Baa3/BBB or higher) by at least two ratings agencies, have at least one year to final maturity and have at least \$250 million par amount outstanding. To quality, bonds must be SEC-registered.

The Bloomberg US High Yield Index covers the universe of fixed rate, non-investment grade debt. Eurobonds and debt issues from countries designated as emerging markets (sovereign rating of Baa1/BBB+/BBB+ and below using the middle of Moody's, S&P, and Fitch) are excluded, but Canadian and global bonds (SEC registered) of issuers in non-EMG countries are included.

The Bloomberg US Mortgage Backed Securities Index is an unmanaged index that measures the performance of investment grade fixed-rate mortgage backed pass-through securities of GNMA, FNMA and FHLMC.

The Bloomberg US TIPS Index consists of Inflation-Protection securities issued by the U.S. Treasury

The J.P. Morgan Emerging Market Bond Global Index(EMBI)includes U.S. dollar denominated Brady bonds Eurobonds, traded loans and local market debt instruments issued by sovereign and quasi-sovereign entities.

The J.P. Morgan Domestic High Yield Index is designed to mirror the investable universe of the U.S. dollar domestic high yield corporate debt market.

The J.P. Morgan Corporate Emerging Markets Bond Index Broad Diversified (CEMBI Broad Diversified) is an expansion of the J.P. Morgan Corporate Emerging Markets Bond Index (CEMBI). The CEMBI is a market capitalization weighted index consisting of U.S. dollar denominated emerging market corporate bonds.

The J.P. Morgan Emerging Markets Bond Index Global Diversified (EMBI Global Diversified) tracks total returns for U.S. dollar-denominated debt instruments issued by emerging market sovereign and quasi-sovereign entities: Brady bonds, Ioans, Eurobonds. The index limits the exposure of some of the larger countries.

The J.P. Morgan GBI EM Global Diversified tracks the performance of local currency debt issued by emerging market governments, whose debt is accessible by most of the international investor base.

The U.S. Treasury Index is a component of the U.S. Government index.

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## J.P. Morgan Asset Management - Definitions

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Other asset classes:

The Alerian MLP Index is a composite of the 50 most prominent energy Master Limited Partnerships (MLPs) that provides investors with an unbiased, comprehensive benchmark for the asset class.

The Bloomberg Commodity Index and related sub-indices are composed of futures contracts on physical commodities and represents twenty two separate commodities traded on U.S. exchanges, with the exception of aluminum, nickel, and zing

The Cambridge Associates U.S. Global Buyout and Growth Index® is based on data compiled from 1,768 global (U.S. & ex –U.S.) buyout and growth equity funds, including fully liquidated partnerships, formed between 1986 and 2013.

-u.s.) aujout and growin equity funds, including fully iquidated partnerships, formed between 1966 and 2013.
The CS/Temont Hedge Fund Index is compiled by Credit Suisse Tremont Index, LLC. It is an asset-weighted hedge fund index and includes only funds, as opposed to separate accounts. The Index uses the Credit Suisse/Tremont database, which tracks over 4500 funds, and consists only of funds with a minimum of USS50 million under management, a 12-month track record, and audied financial statements. It is calculated and rebalanced on a monthly basis, and shown net of all performance fees and expenses. It is the exclusive property of Credit Suisse Tremont Index, LLC.

The HFRI Monthly Indices (HFRI) are equally weighted performance indexes, utilized by numerous hedge fund managers a benchmark for their own hedge funds. The HFRI are broken down into 4 main strategies, each with multiple sub strategies, 8 single-manager HFRI Index constituents are included in the HFRI Fund Weighted Composite, which accounts for over 2200 funds listed on the internal HFR Database.

The NAREIT EQUITY REIT Index is designed to provide the most comprehensive assessment of overall industry performance and includes all tax-qualified real estate investment trusts (REITs) that are listed on the NYSE, the American Stock Exchange or the NASDA VAtional Market Live

The NFI-ODCE, short for NCREIF Fund Index -Open End Diversified Core Equity, is an index of investment returns reporting on both a historical and current basis the results of 33 open-end commingled funds pursuing a core investment results reporting of which have performance histories dating back to the 1970s. The NFL-ODCE Index is capitalization-weighted and is reported gross of fees. Measurement is time-weighted.

Threating in alternative assets involves higher risks than traditional investments and is suitable only for sophisticated investors. Alternative investments involve greater risks than traditional investments and should not be deemed a complete investment program. They are not tax efficient and an investor should consult with higher tax advisor prior to investing. Alternative investments have higher fees than traditional investments and they may also be highly leveraged and engage in speculative investment, because the managing the potential for investment loss or gain. The value of the investment may fall as well as rise and investors may get back less than they invested.

Bonds are subject to interest rate risks. Bond prices generally fall when interest rates rise.

Investments in commodities may have greater volatility than investments in traditional securities, particularly if the instruments Involve leverage. The value of commodity-linked derivative interests may be affected by changes in overall market movements, commodity-linked derivative instruments may be affected by changes in overall market movements, commodity-index volatility, changes in interest rates, or factors affecting a particular industry or commodity-linked movements, commodity-linked, so the commodity-linked derivatives creates an opportunity for increased return but, at the same time, creates the possibility for greater loss.

Derivatives may be riskler than other types of investments because they may be more sensitive to changes in economic or market conditions than other types of investments and could result in losses that significantly exceed the original investment. The use of derivatives may not be successful, resulting in investment losses, and the cost of such strategies may reduce

Distressed Restructuring Strategies employ an investment process focused on corporate fixed income instruments, primarily on corporate credit instruments of companies trading at significant discounts to their value at issuance or obliged (par value) at maturily as a result of either formal bankruptcy proceedings or financial market perception of near term proceedings.

Investments in emerging markets can be more volatile. The normal risks of investing in foreign countries are heightened when investing in emerging markets. In addition, the small size of securities markets and the low trading volume may lead to a lack of liquidity, which leads to increased volatility. Also, emerging markets may not provide adequate legal protection for private or foreign investment or private property.

The price of equity securities may rise, or fall because of changes in the broad market or changes in a company's financial condition, sometimes rapidly or unpredictably. These price movements may result from factors affecting individual companies, sectors or industries, or the securities market as a whole, such as changes in economic or political conditions. Equity securities are subject to "stock market risk" meaning that stock prices in general may decline over short or extended periods of time.

Equity market neutral strategies employ sophisticated quantitative techniques of analyzing price data to ascertain information about future price movement and relationships between securities, select securities for purchase and sale. Equity Market Neutral Strategies typically maintain characteristic net equity market exposure no greater than 10% long or short.

Global macro strategies trade a broad range of strategies in which the investment process is predicated on movements in underlying economic variables and the impact these have on equity, fixed income, hard currency and commodity markets.

International investing involves a greater degree of risk and increased volatility. Changes in currency exchange rates and differences in accounting and taxation policies outside the U.S. can raise or lower returns. Some overseas markets may not be as politically and economically stable as the United States and other nations.

There is no guarantee that the use of **long and short positions** will succeed in limiting an investor's exposure to domestic stock market movements, capitalization, sector swings or other risk factors. Using long and short selling systems any have higher portfolio turrower rates. Short selling involves certain risks, including additional costs associated with covering short positions and a possibility of unlimited loss on certain short sale positions.

Merger arbitrage strategies which employ an investment process primarily focused on opportunities in equity and equity related instruments of companies which are currently engaged in a corporate transaction.

Mid-capitalization investing typically carries more risk than investing in well-established "blue-chip" companies. Historically, mid-cap companies stock has experienced a greater degree of market volatility than the average stock. Price to forward earnings is a measure of the price-oberantings ratio (PIC) using forecasted earnings, Price to book value compares a stock's market value to its book value. Price to cash flow is a measure of the market's expectations of a firm's future financial health, Price to dividend si the ratio of the price of a share on a stock exchange to the dividends per share paid in the previous year, used as a measure of a company's potential as an investment.

Real estate investments may be subject to a higher degree of market risk because of concentration in a specific industry, sector or geographical sector. Real estate investments may be subject to risks including, but not limited to, declines in the value of real estate, risks related to general and economic conditions, changes in the value of the underlying property owned by the trust and defaults by borrower.

Relative Value Strategies maintain positions in which the investment thesis is predicated on realization of a valuation discrepancy in the relationship between multiple securities.

Small-capitalization investing typically carries more risk than investing in well-established "blue-chip" companies since smaller companies generally have a higher risk of failure. Historically, smaller companies' stock has experienced a greater degree of marrier totalithy than the average stock.





## J.P. Morgan Asset Management - Risks & disclosures

GTM U.S. 71

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Unless otherwise stated, all data are as of April 11, 2023 or most recently available.

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J.P.Morgan ASSET MANAGEMENT 9:30 - 10:40 a.m.

# Asset Liability Management in Volatile Times

Marc Gall, Vice President, BOK Financial Institutions Group



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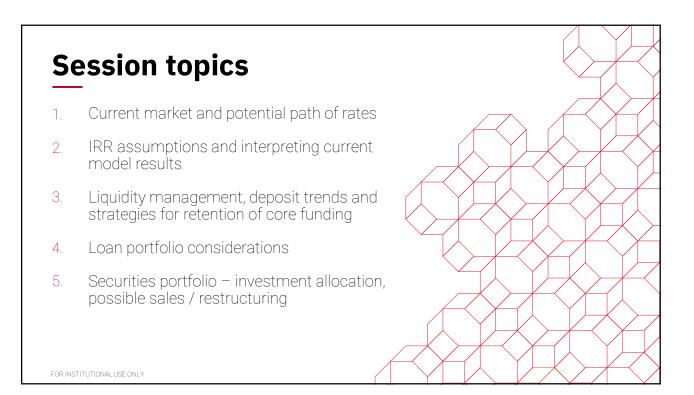
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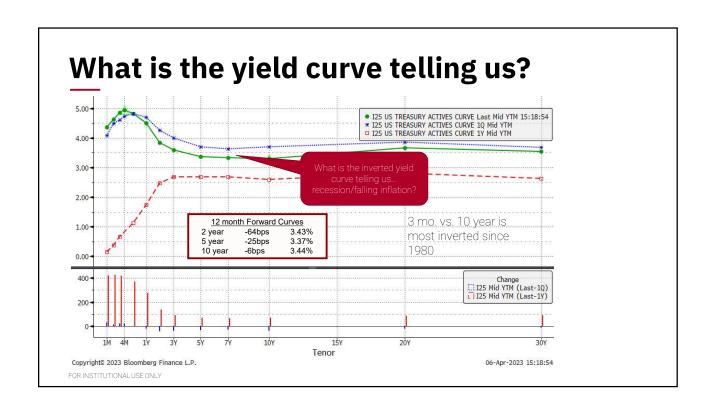
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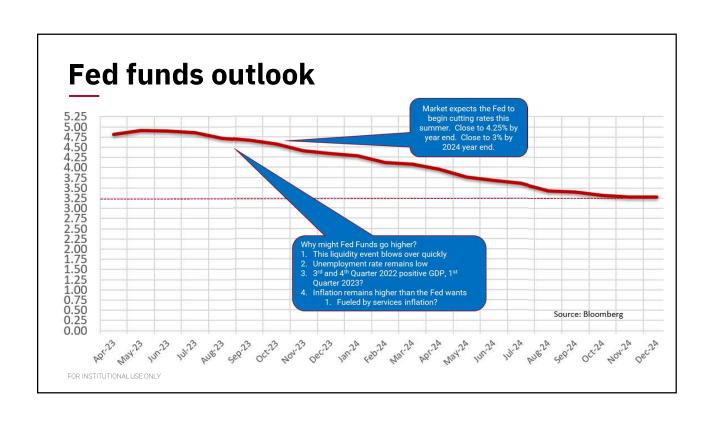
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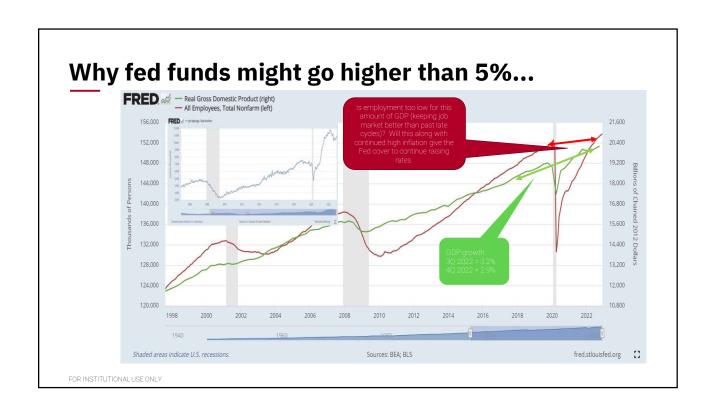
- Interest Rate Risk Management
- · Independent Model Validations
- Deposit/Decay Studies
- · Investment Portfolio Management
- · Asset / Liability Management (ALCO) Consulting

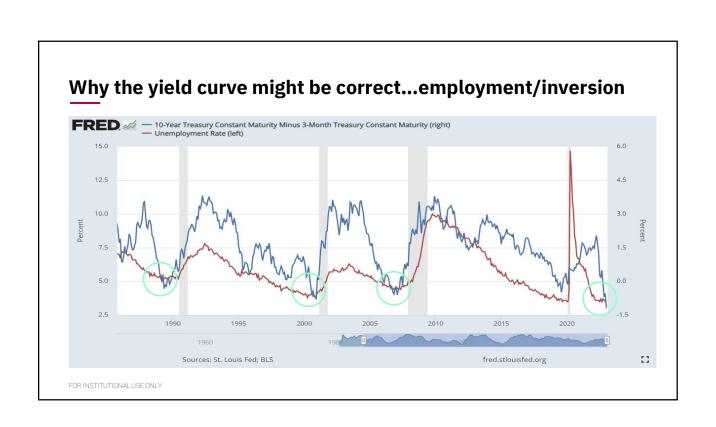
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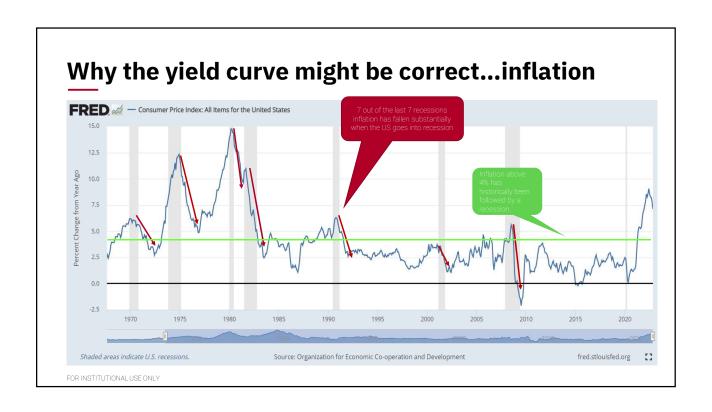










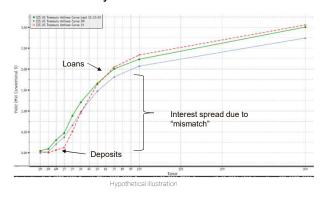


# **Current balance sheet issues**

- Inverted yield curve
  - · Margin pressure increasing
- Liquidity
  - Deposit retention/ growth
  - Insurance coverage / deposit safety concerns
- · Loan portfolio
  - Credit quality, terms, and types of loans filling balance sheet
- Investment portfolio
  - Unrealized losses, need for funds

## **Interest rate risk**

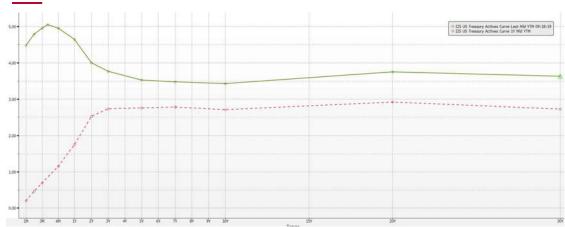
How and why does this occur on balance sheets?



- > Bank deposits are maturing or non-maturing
  - → Retail depositors typically looking for 3 mo − 2 year maturities
  - Non-maturing deposit accounts can be withdrawn at any time
- > Loans and Investments are generally termed out
  - Most demand in 3-5 year sector for fixed rate loans

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# Inverted curve eliminates mismatch spread



- 1 year ago, spread between 3 mo UST and 5 year UST was +2.07%
- As of 4/10/23, spread sits at -1.30%
  - Year over year spread change of -3.37%

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Source: Bloomberg

# **Interest rate risk - assumption review**

#### Deposit beta calculation, supporting data



Example summary of results:

Jan 2016 - Jun 2019 (Rising Beta)	Beta
NOW Accounts	-0.01
HSA Checking	0.01
Money Market Accounts	0.43
Savings Accounts	0.07

Jul 2019 - Mar 2021 (Falling Beta)	Beta		
NOW Accounts	0.02		
HSA Checking	0.07		
Money Market Accounts	0.52		
Savings Accounts	0.14		

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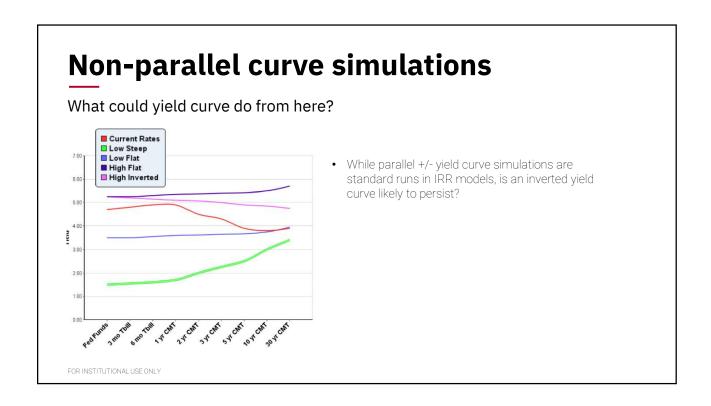
Source: FDIC

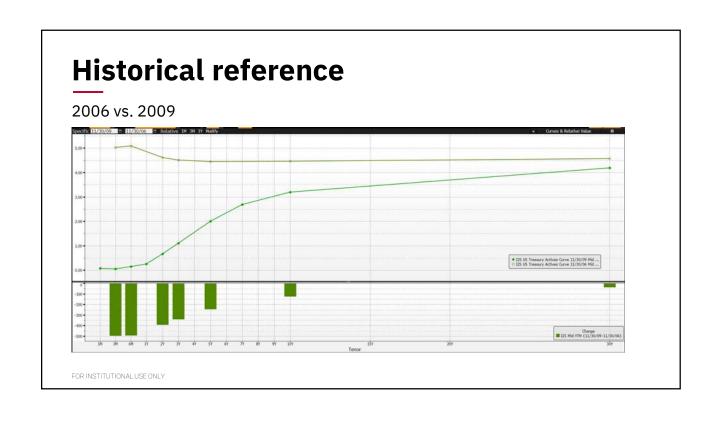
# **Deposit betas**

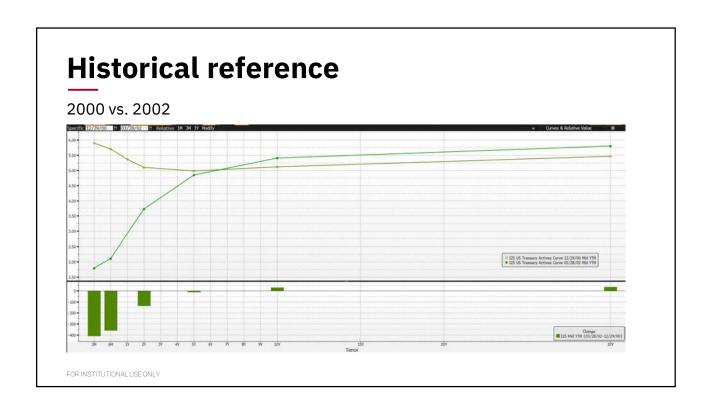
#### Other factors to consider?

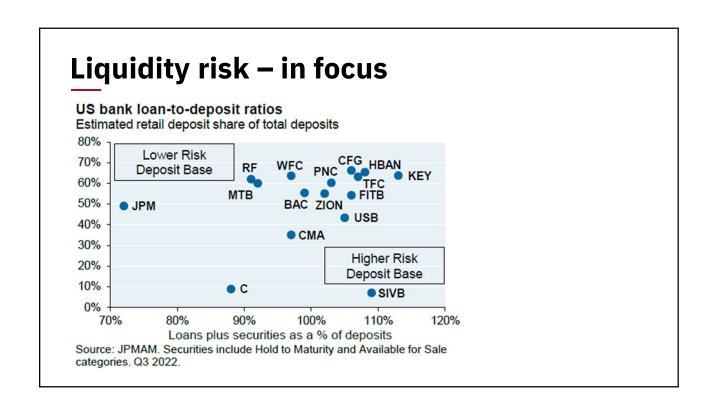
- · Review of deposit betas may not tell whole story
- · Consider how to document/incorporate migration from low cost to higher cost accounts
- Did the institution experience runoff that was replaced with higher cost wholesale funding?
- Cost of funds review vs. FF could provide more context to deposit stability and rate sensitivity
- Consider updated bank specific decay analysis or review of overall duration of deposits

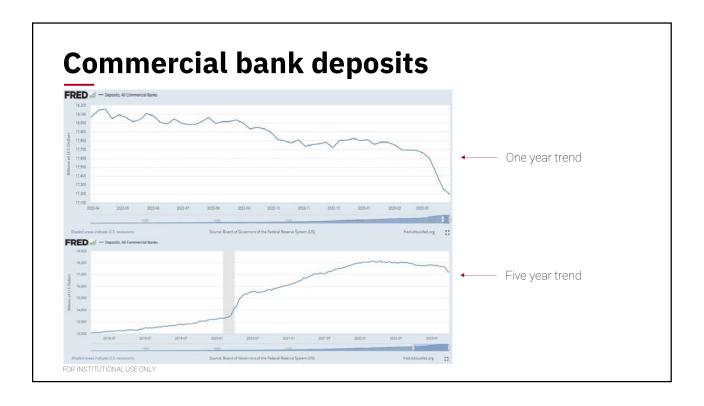
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# **Liquidity management**

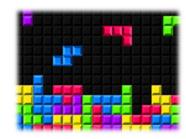
#### Action steps to consider in the current environment

- Communication with depositors consider pros/cons of being proactive vs. reactive
- · Evaluate backup liquidity/borrowing lines
  - Are loans pledged to Fed or FHLB for borrowing?
  - Securities could be used for Federal Reserve Bank Term Funding Program
    - Collateral value at par vs. market value
    - https://www.federalreserve.gov/newsevents/pressreleases/monetary20230312a.htm
  - If currently borrowing from FHLB/Fed/Fed funds, consider benefit to diversifying by using brokered CD market to leave other borrowing lines open
  - Consider adding additional backup sources, ex. Fed Discount Window
- Some institutions have used IntraFi / ICS network to manage large depositors looking for insurance

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# Maximizing collateral value

- Brokered / internet deposits does not require collateral
- Municipal, large deposits may require collateral, but some are not specific as to what type of collateral
  - Consider municipal securities for pledging, unless they can be used elsewhere
  - FHLB letter of credit for municipal deposits
- FHLB, Fed Discount Window may accept many types of loans as collateral (may take time to set up)
- Bank Term Funding Program (BTFP) accepts Fed eligible collateral and valued at 100% of par, without haircuts
  - <u>Bank Term Funding Program Frequently Asked Questions</u> (federalreserve.gov)



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# **Liquidity management**

#### Action steps to consider in the current environment

- With yield curve falling, increasing credit spreads or tightening lending standards to balance need for earnings vs. need for liquidity
- Investment sales could be an option to raise cash
- Review loan offerings, particularly residential ARM products
  - · Can any balance sheet loans be refinanced into secondary market?
  - · Review pricing for possible increase in rate
    - Are these loans sticky or just "renting" space on your balance sheet?
- · Complete liquidity stress testing more frequently or update a stale run given recent events

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# **Deposit environment**

#### What are we hearing from clients?

- Edward Jones / competition from brokers for CD balances
- Higher rate savings/ money market options from online banks/ money market mutual funds
- Some migration from DDA to IB accounts (more limited, so far)
- Migration from savings/money market into CDs
- · Higher rate CD specials are less effective at gaining new balances vs. last year
- · Customers paying penalty to refinance CDs

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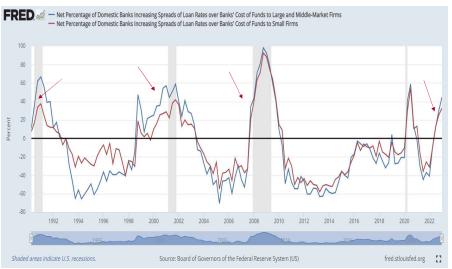
# **Discussion on deposit products**

- 1. Review your deposit account lineup
- 2. Examine how customers use your accounts (what is the purpose/utility for each?)
- 3. Differentiate rate on account based on #2
- 4. Consider your cost to offer "free accounts"
- 5. Before raising rates on non-maturity account types, ask what are you trying to achieve?
  - If retention of balances, will the rate increase matter to a rate sensitive customer?
- 6. Will your institution selectively match rates (individually by customer?)
- 7. Begin to prepare strategies for falling rate environment

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# Net percentage of banks increasing credit spreads

 Fed's senior loan officer survey suggests banks are increasing credit spreads



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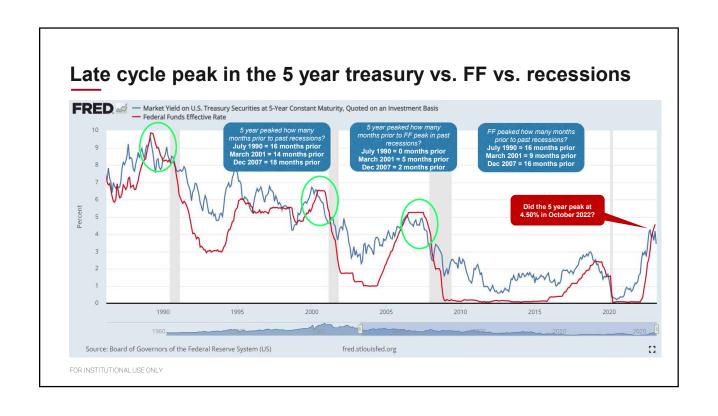
Source: Board of Governors of the Federal Reserve System (US)

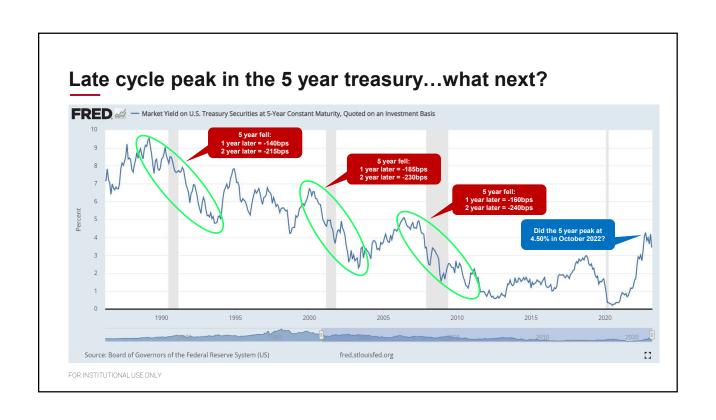
## Net percentage of banks tightening credit standards

- Fed's senior loan officer survey suggests banks are increasing credit standards for C&I, CRE, and Multi-family
- Historically, tightening credit standards has had an impact on economic growth

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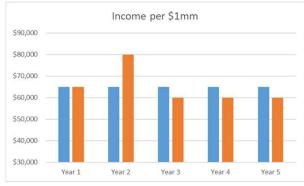
Source: Board of Governors of the Federal Reserve System (US)g





# **Prepayment penalty in practice**

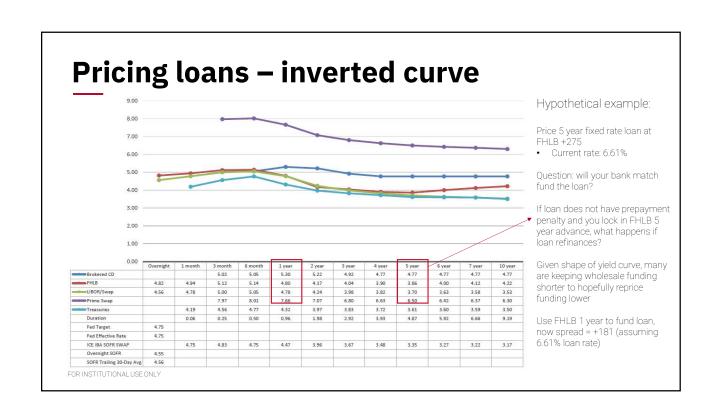
- Does your institution enforce a prepayment penalty if refinanced at your institution?
- If your penalty is 2%, how much of an impediment to refinance is that?

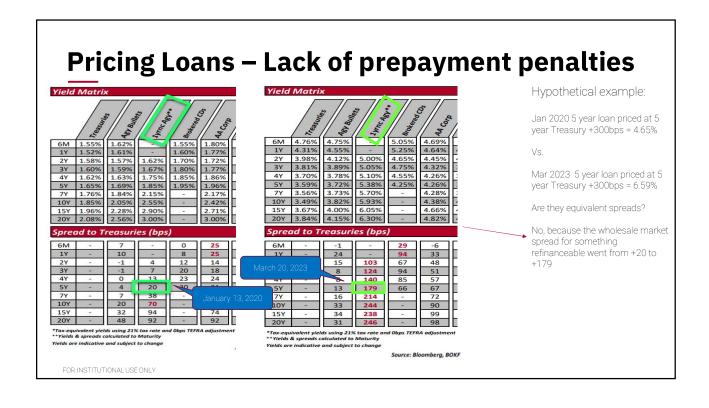


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Hypothetical Example:

- Make a loan at 6.50%
- Solving for breakeven with a 2% penalty, after year 1...
- 2% penalty / 4 remaining years = 50 bps per year of savings to breakeven. (3%/4 years = 75 bps lower rate to breakeven)
- If customer can refinance at 6.00% or lower and the bank actually charges the 2% penalty (\$20,000), the customer would be in the money to refinance





## Value of positive convexity in this rate environment...

What type of assets have banks booked now that rates are higher?

- Residential ARM loans that are very easily refinanced
  - If rates fall many will be refinanced into the secondary market and the community bank will be left to invest cash at lower rates
- · Commercial Real Estate loans with typically weak prepayment penalties
  - If rates fall they can relatively easily be refinanced at lower rates or at a different institution
    - · Leaving the institution with cash to invest in a lower rate environment or a lower yielding loan

What types of assets should you consider booking in this higher rate environment?

- Loans with make whole prepayment penalties or very strong prepayment penalties
  - Not typical for community banks
- Investments with more neutral to positive convexity
- Treasuries, Agency Bullets, CMBS, Some SBAs, Munis, Some Discounted MBS

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# Role of the investment portfolio

- · Liquidity source
  - · Place to earn on excess liquidity while waiting for loan demand to materialize
  - · On balance sheet store of liquidity
    - · Unlike borrowing sources, bank's ability to use portfolio for funding is not contingent on the bank's credit position
  - · When viewing portfolio within liquidity context, understand:
    - · Cash flows
    - · Extension/contraction risk
- · Earning asset
  - · Lower yield than loan portfolio, but higher liquidity and lower risk
  - View earnings/yield relative to holding cash vs. comparing to loan alternatives
- · Other Benefits
  - · Collateral for deposits or borrowing
  - · Portfolio is a tool for managing interest rate risk

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#### Add structure in portfolio – hypothetical example 80,000 Callable agency securities have very 60,000 wide spreads and high 50.000 40,000 relative yields... Why? 30,000 20.000 At the money 10,000 mortgages offer higher yields and spreads as ■ Current well... Why? 50,000 If interest rates fall from 45,000 40,000 here, limiting optionality 35,000 in bond purchases will 30.000 25,000 25,000 15,000 help lock in these higher yields 10.000 When do you want to receive cash back? ■Current = +100 = +200 = +300 FOR INSTITUTIONAL USE ONLY

## Now what?

#### Hypothetical investment sale for funding

#### **Analysis of current holdings**

Bank owns \$5 million of Treasury maturing Oct 2025 Current book yield = 1.44%

Book price = \$103.98

Sell in the current market at \$98.15 Sale yield/market yield/give up yield = 3.75% Loss on sale: \$291,500

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#### **Review of alternatives**

2.5 year funding cost at FHLB (Chicago) = 4.07%

2.5 year brokered CD cost = 5.00%

Over next 2.5 years, the interest cost on new funding is more than expense of selling investment (loss + foregone income)

However, taking loss could be unappealing for budget reasons.

Year 1: Loss on sale \$291,500

Year 1 interest cost on new CD: \$250,000

## Now what?

## Hypothetical loan funding example

#### Sale option

Bank owns \$5 million of Treasury maturing Oct 2025 Current book yield = 1.44%

Book price = \$103.98

Sell in the current market at \$98.15 Sale yield/market yield/give up yield = 3.75%

Loss on sale: \$291,500

#### **Reinvestment option**

#### 5 year loan = 7.00% reinvestment yield

Time to "recapture loss":

\$291,500 (loss on sale)

7.00% (reinvestment yield) – 1.44% (book yield) \* par value

= 1.04 years to recapture loss

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# **Income management - 2023**

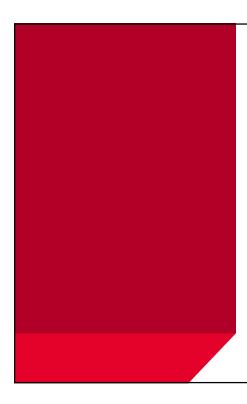
- · Liquidity / deposits are at a premium in current environment
- Discuss with management team how to manage through higher rates, but prepare for falling rates
  - What is risk to asset income change vs. potential expense savings?
- Are you reaching for income in 2023 by adding assets with optionality but may regret that if rates fall and assets reprice lower?

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## Interest rate risk checklist

- 1. Interest rate risk reporting with comparison to policy limits
  - Include 1 year and 2 year rate shock of income, EVE
  - Is a non-parallel now most likely? Are our assumptions reasonable?
- 2. Listing of key assumptions used in the model and supporting documentation
  - Pricing assumptions, deposit decay rates, prepayment assumptions
  - With the recent sharp rise in rates confirm and update assumptions
  - Need to be reviewed/approved by the board
- 3. Stress testing of key assumptions
  - How sensitive are model results to the assumptions used (input different assumptions and compare results)
- 4. Liquidity stress testing
  - Include sufficiently severe scenarios restricting use of brokered deposits, FF lines
  - Review contingency funding plan, including any early warning indicators
- 5. Independent Model Validation
  - Completed by a party independent of the ALCO meeting
  - Report with findings provided to the board

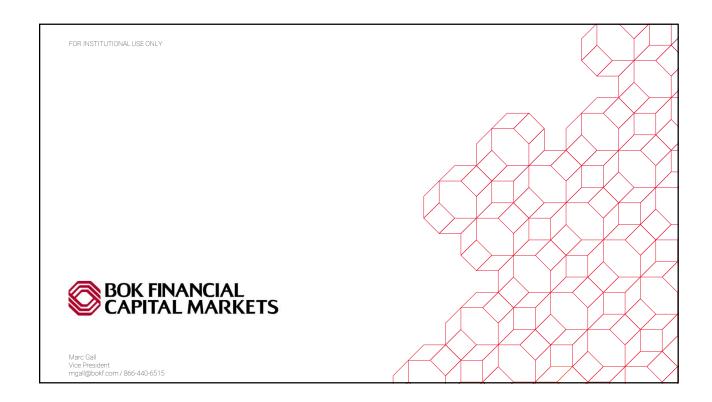
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# **Key takeaways**

- Review opportunities to lock in yield on assets while rates are high
- Be strategic with what "fills up" your balance sheet
- Monitor and discuss deposit trends regularly
- Examine deposit strategy for retention and cost of funds management
- Consider taking losses in the portfolio as a funding option or to reposition for higher income in 2023 and beyond
- Ensure completion and documentation of expected interest rate risk and liquidity management process

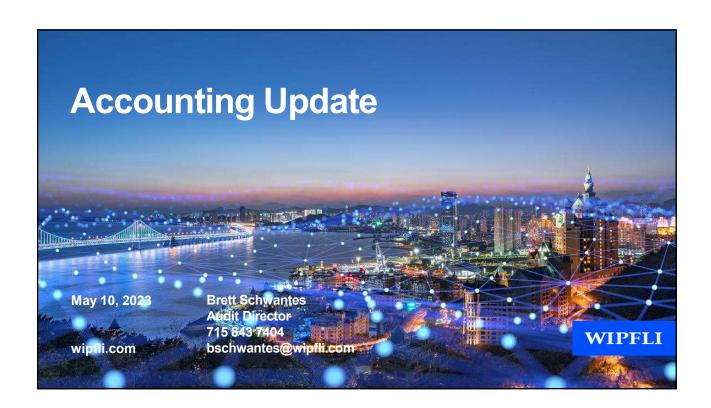
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10:50 - 11:50 a.m.

# Accounting & Tax Legislation Update

Brett Schwantes, CPA, Senior Manager, Wipfli LLP
Jessica Schwantes, CPA, Partner, Wipfli LLP



Overview

**CECL** Adoption Considerations

Troubled Loan Modifications

Other Accounting Standards Updates

Update on FASB Projects



## CECL Overview

What is in scope for CECL?

#### What is in scope?

Financial assets measured at amortized cost basis

- Loans held for investment
- Debt securities held to maturity
- Receivables related to repurchase agreements and securities lending transactions in scope of Topic 860
- Certain lessor receivables
- Off-balance sheet exposures / unfunded commitments

## What is not in scope?

Financial assets measured at fair value

- Loans held for sale
- Equity securities
- Debt securities available for sale
  - ASU 2016-13 modifies the OTTI model prescribed in legacy GAAP
- Other financial assets measured at fair value

# **CECL Adoption**

#### Adoption Date Journal Entries

#### Non-PCD assets

- Adoption is <u>as of</u> the beginning of your institution's fiscal year (e.g., 1/1/2023)
- Dr Beginning retained earnings
- Dr Deferred taxes (if applicable)
- Cr Allowance for credit losses

#### Off balance sheet commitments

- Reserve on unfunded commitments is an other liability
- Dr Beginning retained earnings
- Dr Deferred taxes (if applicable)
- Cr Reserve for unfunded commitments

# **CECL Adoption**

#### Adoption Date Journal Entries

#### **PCD** assets

- Accounted for on prospective basis through an adjustment for the addition of the allowance for credit losses on PCD loans upon adoption
- "Gross up" method that adds allowance for credit losses to purchase price to set a new amortized cost; no initial income statement impact
- Dr Loans (for acquired loan credit discount)
- Cr Allowance for credit losses

### CECL Disclosures

What does not change with disclosure requirements under CECL?

#### The following disclosures do not significantly change:

- Loans by type
- Allowance rollforward by type
- Past due loans by type
- Nonaccrual loans by type
  - One small change required to disclose nonaccruals with no recorded ALL
- Non-PBEs/SEC only credit quality disclosures
  - More detailed disclosures are required for PBEs/SEC

## CECL Disclosures

What changes with disclosure requirements under CECL?

#### Qualitative information about the CECL methodology(ies)

- Description of how expected loss estimates are developed and any changes
- Discussion of the reversion method applied

#### Impaired loans disclosures

- No longer disclosed because concept is removed under CECL
- Nonaccruals with no recorded ACL require disclosure

#### Collateral dependent loans

- Include description of type of collateral
- Qualitative description of the extent of the collateral
- Significant changes in collateral coverage

Certain accounting policies & elections re: accrued interest

## CECL Disclosures

What changes with disclosure requirements under CECL?

#### PBEs/SEC only - credit quality disclosures

- Still include loans by risk rating (Pass, Special Mention, Watch, Substandard, Doubtful) and by loan type (commercial, consumer, etc)
- Now further disaggregates by loan origination year
- Credit quality disclosures do NOT change for non-PBEs/SEC

#### PBEs/SEC only – gross charge-offs (ASU 2022-02)

- Must disclose gross charge-offs YTD by loan type and loan origination year
- Effective for PBEs/SEC entities in reporting periods beginning after 12/15/22

#### PCD asset disclosures

- Previous PCI disclosures no longer applicable
- Reconciliation between purchase price and par value now required



#### ASU 2022-02

Troubled Debt Restructurings and Vintage Disclosures

#### Issued in March 2022

#### Eliminates TDR accounting model

- Effective for reporting periods beginning after 12/15/22
- All loan modifications now accounted for under general loan modifications guidance, including modifications made to borrowers experiencing financial difficult

#### New disclosure requirements for loan modifications

 Required only for modifications in the form of an interest-rate concession, principal forgiveness, other-than-insignificant payment delay, or term extension to borrowers experiencing financial difficulty

# Transition Methods for Adoption of ASU 2022-02

# **Prospective Transition Method**

For TDRs existing at the date of adoption:

- Continue to account for under legacy TDR accounting model
- ACL is determined using discounted cash flow approach

#### Modified Retrospective Transition Method

For TDRs existing at the date of adoption:

- Apply CECL model to determine ACL
- Difference, if any, between the legacy ALL and the CECL ACL is recorded as a cumulative effective adjustment to beginning retained earnings

ASU 2022-02

By class, types of modifications used, amortized cost basis, and  $\%\colon$ 

**Example Disclosures** 

	 Interest Rate	Reduction		
	 ed Cost Basis 2/31/20X1	% of Total Class of Financing Receivable		
Loan Type				
Real Estate—Commercial	\$ 40,000	2.0%		
Real Estate—Residential	_	0.0		
Consumer	 10,000	0.2		
Total	\$ 50,000			

ASU 2022-02

May have different combinations of modifications disclosed separately:

Combination—Term Extension and Interest

**Example Disclosures** 

	Rate Reduction						
		Cost Basis at 31/20X1	% of Total Class of Financing Receivable				
Loan Type	8						
Real Estate—Commercial	\$	21	0.0%				
Real Estate—Residential		5,000	0.8				
Consumer	94	-	0.0				
Total	\$	5,000					

### ASU 2022-02

### By class, the financial effect by type of modification:

### **Example Disclosures**

Interest	Rate	Reduction
----------	------	-----------

Loan Type	Financial Effect		
Real Estate—Commercial	Reduced weighted-average contractual interest rate from 6% to 3%.		
Real Estate—Residential	Reduced weighted-average contractual interest rate from 8% to 5%.		
Consumer	Reduced weighted-average contractual interest rate from 4% to 1.5%.		

### ASU 2022-02

By class, receivable performance in 12 months after modification date:

**Example Disclosures** 

	Payment Status (Amortized Cost Basis)					
	Current		30–89 Days Past Due		90+ Days Past Due	
Loan Type						
Real Estate—Commercial	\$	55,000	\$	3,500	\$	1,500
Real Estate—Residential		6,000		4,000		-
Consumer		29,000		1,500		1,500
Total	\$	90,000	\$	9,000	\$	3,000

#### ASU 2022-02

### Other disclosure requirements:

Other Disclosures

- Loan modifications made to debtors experiencing financial difficulty:
  - By portfolio segment, qualitative information about how those modifications and the debtors' subsequent performance are factored into determining the allowance for credit losses
- Loan modifications with a payment default in the last 12 months:
  - By class, the type of contractual change that the modification provided
  - By class, the amount defaulted
  - By portfolio segment, qualitative information about how those defaults are factored into determining the allowance for credit losses



### ASU 2023-02

PBEs: Years beginning after December 15, 2023

Non-PBEs: Years beginning after December 15, 2024

Early adoption is permitted

### **Accounting for Investments in Tax Credit Structures**

- Permit entities to account for tax equity investments, regardless of the tax credit program, using the proportional amortization method if certain conditions are met
  - Would include traditional New Markets Tax Credit investments
  - May include other tax equity investments if they meet the criteria

### **Effective Dates**

Standard	SEC filers	PBEs	Non PBEs
ASU 2016-13 Measurement of Credit Losses on Financial Instruments		Years beginning after December 15, 2022	Years beginning after December 15, 2022
ASU 2017-04 Simplifying the Test for Goodwill Impairment		Years beginning after December 15, 2022	Years beginning after December 15, 2022
ASU 2020-04 Reference rate reform (and ASU 2022-06)	Contract changes from March 12, 2020 through 2024	Contract changes from March 12, 2020 through 2024	Contract changes from March 12, 2020 through 2024
ASU 2020-06 Accounting for Convertible Instruments and Contracts in an Entity's Own Equity		Years beginning after December 15, 2023	Years beginning after December 15, 2023
ASU 2022-01 Fair Value Hedging—Portfolio Value Method	Years beginning after December 15, 2022	Years beginning after December 15, 2022	Years beginning after December 15, 2023

### **Effective Dates**

Standard	SEC filers	PBEs	Non PBEs
ASU 2022-02 Troubled Debt Restructurings and Vintage Disclosures	Years beginning after December 15, 2022	Years beginning after December 15, 2022	Years beginning after December 15, 2022
ASU 2023-02 Investments in Tax Credit Structures	Years beginning after December 15, 2023	Years beginning after December 15, 2023	Years beginning after December 15, 2024



### **FASB Project**

### **Existing GAAP**

#### Acquired Loans

- · Acquired loans (non-PCD) are measured at fair value
  - Fair value measurement includes a discount for credit losses
- After acquisition, must recognize allowance for credit losses
  - Charge to earnings (provision for loan losses)
- Drawbacks to this accounting method:
  - "Double counting" of credit losses
  - · Skewed effective interest yields

### **FASB Project**

### **Tentative Changes**

### Acquired Loans

- · Acquired loans are measured at fair value
  - Fair value component related to discount for credit losses would be recognized as an allowance for credit losses
  - No charge to earnings would be necessary upon acquisition
- Drawbacks to this accounting method:
  - No recognition of credit losses in the income statement
  - Potentially skewed loan loss ratios
- Tentatively would only apply to "seasoned" loans
  - Would consider the acquirer's involvement with the loans
  - Bright-line period of 90 days
  - All loans that are part of a business combination

### **FASB Project**

### **Existing GAAP**

**Digital Assets** 

- Most digital assets are considered intangible assets
  - Some digital assets may be considered financial assets (e.g., certain stablecoins)
- Accounting for intangible assets is at cost with recognition of impairment when a triggering event occurs
  - Results in a lower of cost or market treatment without any subsequent write ups if the market recovers

### **FASB Project**

### **Tentative Changes**

Digital Assets

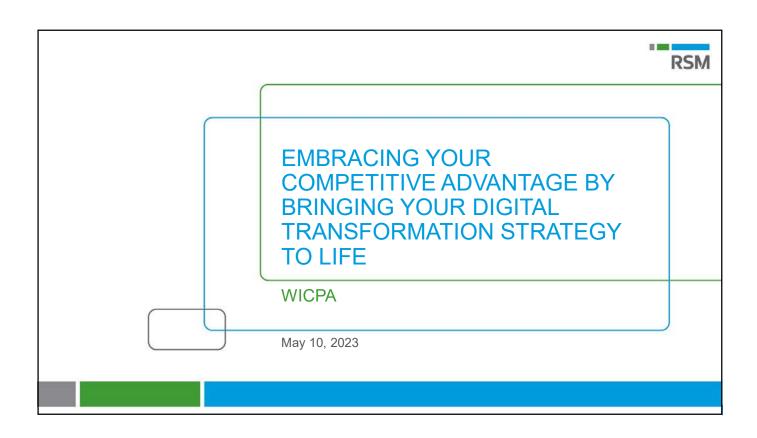
- Crypto assets that meet the following criteria would be recognized at fair value with changes in fair value recognized in AOCI
  - · Meet the definition of an intangible asset
  - Do not provide rights to underlying goods or services
  - · Created or reside on a distributed ledger or "blockchain"
  - Secured through crypotography
  - Fungible

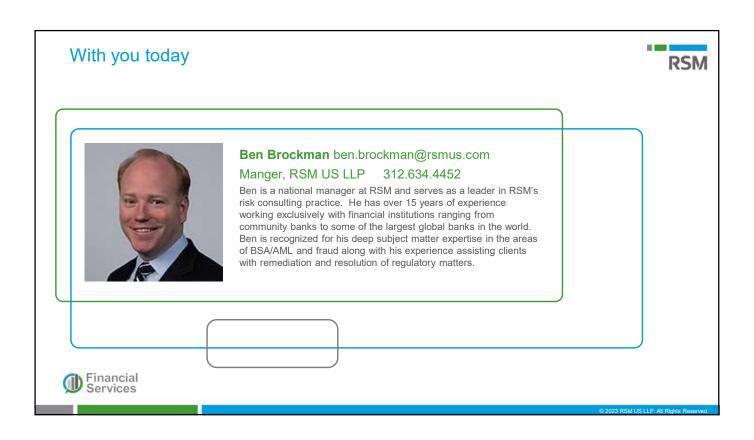


12:20 - 1:35 p.m.

## **Digital Transformation**

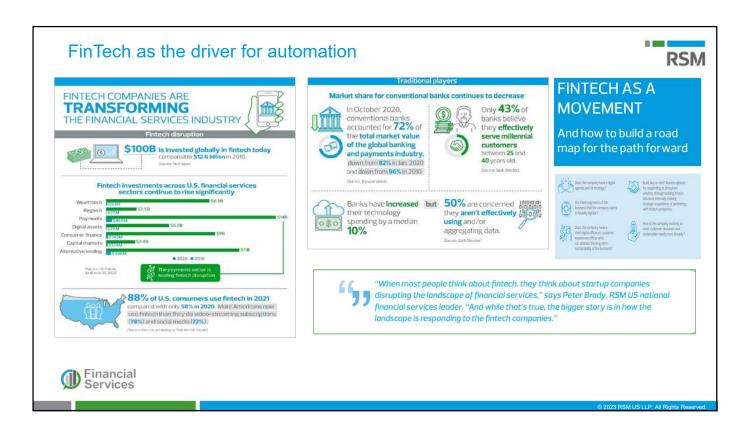
Ben Brockman, CAMS, Risk Consulting Manager, RSM US LLP

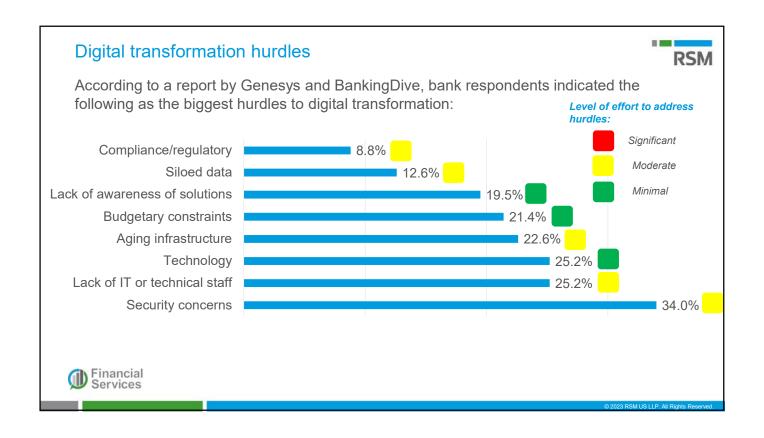


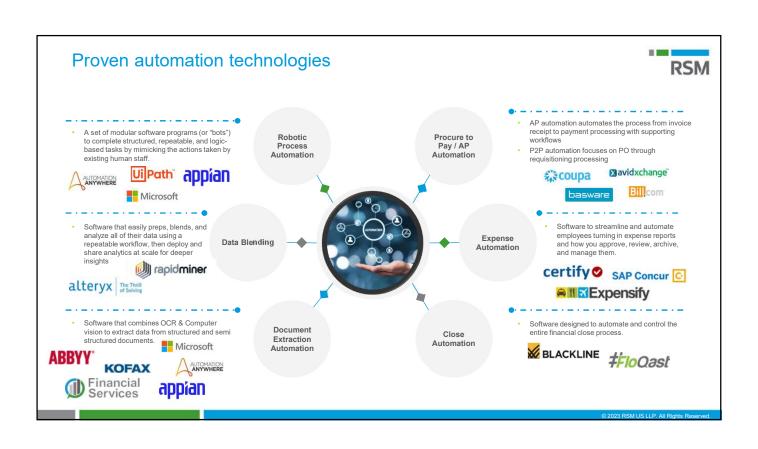




## FINTECH AS A MOVEMENT









## THE DIGITAL TRANSFORMATION JOURNEY

### Considerations for effective automation and digital transformation



- · What are we trying to accomplish?
  - Does automation reduce friction resulting in improved customer/user experience?
  - What is the associated market opportunity or efficiency gain we capture?
  - Are we automating a bad process?
- · What is the ROI?
  - New business or increased profitability
  - Improved efficiencies and risk mitigation
  - Higher level of customer/user satisfaction
- How viable is the proposed project/change?
  - Will our customers engage?
  - Will our employees adopt? Is it too much change at once?
  - How does this fit into our current process/workflow/culture?
  - Can we manage the growth?



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### Where to begin your digital transformation journey





Financial





Many institutions struggle with digital transformation due to the lack of an effective strategy. A common struggle is due to a lack of governance over the transformation process. A solution to this common challenge is to establish a digital transformation strategy that governs the institution's process for evaluating, prioritizing and executing digital transformation projects.

The use of a model transformation framework, as outlined below, provides an excellent starting point for identifying and evaluating digital transformation opportunities, wholistically, across the enterprise.

Customer Experience	Financial Reporting	Compliance	Credit and Loan Ops	Retail
Self-service     Account     updates     Mobile banking     Call center     Fraud     prevention	Reconciliations     Journal entries     Regulatory     reporting     Payables     Expense     reimbursement	BSA/AML     Lending     compliance     Deposit     compliance     Fair lending     CRA	Loan approval     Application     status     Servicing     Underwriting     Loan     monitoring	Online account opening     Wealth management and trust     Digital assets     Business banking

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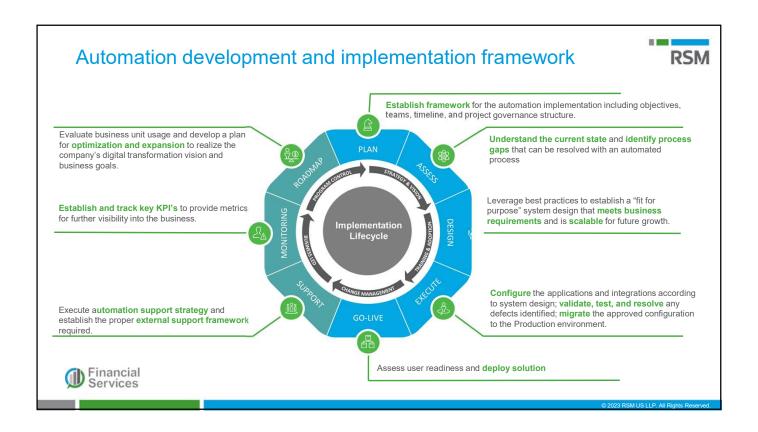
### Key questions to consider when evaluating process automation



- Does the process require a high volume of manual tasks or multiple parties to execute the tasks?
- · Require use of spreadsheets or documents?
- · How does task hand-off occur between parties?
- Is the current process prone to errors?
- Does the process require a complete and accurate audit trail for record keeping and compliance?
- Are tasks associated with the process time-sensitive or have an impact on other processes/systems?
- Does the process lack standardization and transparency?



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1:45 - 2:35 p.m.

### Regulatory Update

Patrick Murphy, J.D., Shareholder, Godfrey & Kahn, S.C.

## WICPA Regulatory Update

Patrick Murphy - Godfrey & Kahn, SC

GODFREY#KAHNsc

MILWAUKEE | MADISON | GREEN BAY | APPLETON | EAU CLAIRE | WASHINGTON, D.C.

## Post Mortem of the Recent Bank Failures

- ► Silicon Valley Bank (Santa Clara, CA) 3/10
  - ▷ 2<sup>nd</sup> Largest Bank Failure since 2008 (\$209B assets and \$175B deposits 94% uninsured)

  - Deposit Concentration Start-ups and PE
  - ⊳ ALCO "Strategy"



## Post Mortem of the Recent Bank Failures

- ► Signature Bank (New York, NY) 3/12

  - > Acquired by Flagstar Bank, NA

  - > Concentration in the wrong types of customers:
    - ► Crypto (FTX collapse)
    - ► Taxi Cab Medallions (Ride-sharing competition)



## Post-Mortem of Recent Bank Failures

- ► Credit Suisse Group AG (Switzerland)
  - Second largest bank in Switzerland (1.4 trillion assets)

  - > Saudi National Bank largest shareholder
  - > Acquired by UBS



### Regulatory Response

- Guaranteed 100% of deposits of both SVB and Signature Bank
- ▶ Bank Term Funding Program
  - > \$76.7B of total \$164B program funded since inception (through 4/13)
  - > Banks are largely sticking with what they know
  - > Wider collateral available for discount window
  - Primary discount window has lower rates



## What Other Changes May Be In Store?

- ▶ Unlimited FDIC insurance for all?
- ► Tougher capital and liquidity regulations on sub-\$250B institutions?
- ▶ Deposit concentration limits?
- ► Caps on insured deposits?



## Potential Impact on Bank Mergers & Acquisitions

- ► New focus of Due Diligence on deposit concetration?
- ► Impact on Deposit Premiums in branch and M&A deals?
- ▶ Impact of AOCI adjustments?
- Impact of any Bank Term Funding Program borrowings



## Credit Union Acquisitions of Wisconsin State-Chartered Banks

- ▶ Wings Financial CU acquisition of Settlers Bank would be 7<sup>th</sup> such deal, 4 of which were by outof-state credit unions (tied for 3<sup>rd</sup> in US)
- ► WBA challenging the permissibility of such transactions under Wisconsin law
  - No express authority in Chapter 221 (although there is in Chapter 214 − State Savings Banks)
  - ▷ Legislative history provides clear evidence of intended separation of bank and CU acquisition schemes.



## Credit Union Acquisitions of Wisconsin State-Chartered Banks

- ► Impact on Acquisition multiples
- ▶ Wisconsin banks losing out on opportunities to grow through acquisition
- ▶ Unlevel playing field
- ▶ Banking industry in Wisconsin is "at risk"
- ► Legislative fixes always being considered to even the playing field as well



## Impact of Rising Interest Rate Environment on the Industry

- ► AOCI Adjustments
- ▶ Reduced loan demand
- Competition for deposits (putting pressure on NIM)
- ► Capital stack
  - > Sub debt market has dried up



### Other Regulatory Hot Buttons

- ▶ CFPB rulemaking on Junk Fees
  - > Credit card late charges
  - ►NSF fees
- ► Beneficial Ownership reporting

  - ⊳ Implication on Bank responsibilities under BSA



### Other Regulatory Hot Buttons

- ► Proposed total Ban on Non-Compete Agreements
- Current state of Data Security Breach notification requirements
- ► Third party risk management (FinTech focus)
- ► CRA compliance
- ▶ Dodd-Frank Act Section 1071



### Other Regulatory Hot Buttons

- ► Libor Update
- ► Change in Bank Control Act scrutiny
- ▶ Big Data
- ▶ Others?



### Questions??

- ► Patrick Murphy
- ► Godfrey & Kahn, S.C.
- ► pmurphy@gklaw.com
  - **▶** 414-287-9222



2:45 - 3:35 p.m.

## Solving the Talent Problem: How Smart Benefit Programs Are Leveling the Playing Field for Small & Midsize Businesses

Ben Zang, Employee Benefits Consultant, Transition Health Benefits

# HEALTH BENEFITS FOR SMALL BUSINESS

Solving the Talent Problem: How smart benefit programs are leveling the playing field for small and mid-size businesses.





The Great Resignation continues, as 44% of workers look for a new job

In a Glassdoor survey, around 60% of respondents reported that they strongly consider perks and benefits offered before accepting a job offer. In addition, 80% of employees prefer additional benefits over a pay increase.

### **Interesting Fact alert!**

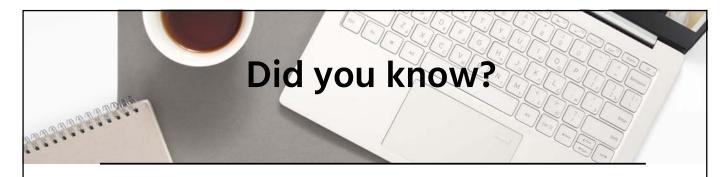
- MIDDLE-AGED WORKERS ARE THE MOST LIKELY GROUP OF PEOPLE TO MAKE A MAJOR CAREER CHANGE.
- THE AVERAGE AGE THAT MOST EMPLOYEES MAKE A MAJOR CAREER CHANGE IS 39 YEARS OLD. EXPERTS POINT TO LESS FINANCIAL RISKS AND PERSONAL STRESSES AS THE MAIN REASONS 39-YEAR-OLD WORKERS SEEK SUCH SIGNIFICANT CAREER SHIFTS.
- IN ADDITION TO THE AVERAGE AGE OF JOB HOPPERS, IT'S ALSO IMPORTANT TO NOTE THAT MOST PEOPLE LOOKING TO SWITCH CAREERS ARE NOT IN IT FOR THE MONEY. IN FACT, 58% OF PEOPLE SURVEYED BY INDEED SAID THAT THEY WOULD BE WILLING TO TAKE A PAY CUT TO MAKE A MAJOR CAREER CHANGE.

### The Opportunity

- As Employees search for meaning, small businesses give them the meaning they are looking for along with a power full sense of belonging
- O The next question employees are asking is, will this move hurt my family's future. Can they see a doctor, get braces, get anibiotics.







Under the ACA, employers with 50 or more full-time employees (or the equivalent in part-time employees) must provide health insurance to 95% of their full-time employees or pay a penalty to the IRS. This penalty is quite hefty—\$3,860 per employee per year (in 2020).

For small employers, benefit plans tend to be offered on a voluntary basis: there is no legal requirement that small employers provide health or welfare benefits to their employees.

Small
Business
options for
taking
care of
thier
Employers

- Do Nothing
- Partnering your people with an Expert in the market place
- Fully Insured Plans
- Level Funded Plans
- ICHRA's
- DPC and Med Share plans



## One of the simplest things you can do is hire an expert for individual Insurances

Experts can educate your employees like

- Deductible
- Premium
- Max out of Pockets
- HSA,s
- HDHP
- How do Drugs figure in .
- Plan Design



### Small Market ACA Rates

- Age Banded Rate
- Little Risk
- NO Discrimination against Preexisting conditions
- Fully Guaranteed Rates
- Mandated Plan designs
- 1 plan design for everyone in the group



### Level Funding

- Created for small Businesses
- Allows the Insurance company more data to help hone the risk/premium
- Employees fill out a questionaire









Small Busines Opportunity

- Under the Affordable Care Act, health insurance companies can't refuse to cover you
  or charge you more just because you have a "pre-existing condition" that is, a
  health problem you had before the date that new health coverage starts. They also
  can't charge women more than men.
- The ICHRA was originally created in 2019 to help control costs and address ACA compliance for applicable large employers, but in January 2020 it became available for businesses of all sizes.
- Subsidy eligibility has been greatly albeit temporarily expanded as a result of the American Rescue Plan.



### Why ????

- Completely Customizable
- Can be broken down into 11 catagories
- Allows for a fixed budget amount
- Gives the ability to use the Marketplace subsidies to an owners advantage
- Can actually create a Large business program on small business dollars
- Individual support for each of your employees

Using ICHRA's has the ability to free up budget dollars for benefits like:

- 401 Ks
- Simple IRA
  - Dental
  - Vision
- · LIfe Insurance
  - Disability
- Key-person Insurance



### Family Glitch

On October 11, 2022, the Internal Revenue Service (IRS) and the Department of the Treasury issued a final rule to revise a 2013 interpretation on premium tax credit eligibility for families. This change fixes the so-called "family glitch" by newly extending eligibility for marketplace subsidies to many dependents of low-wage workers who were previously ineligible.



Down the Rabbit Hole

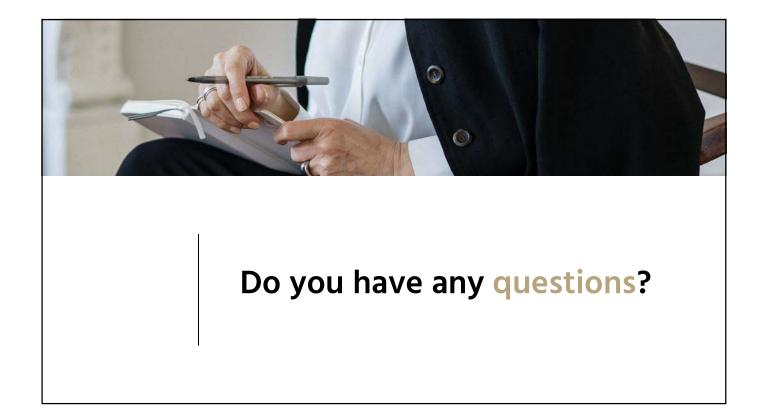
Direct Primary
Care and Cost
Sharing Plans



The Sum of all Parts





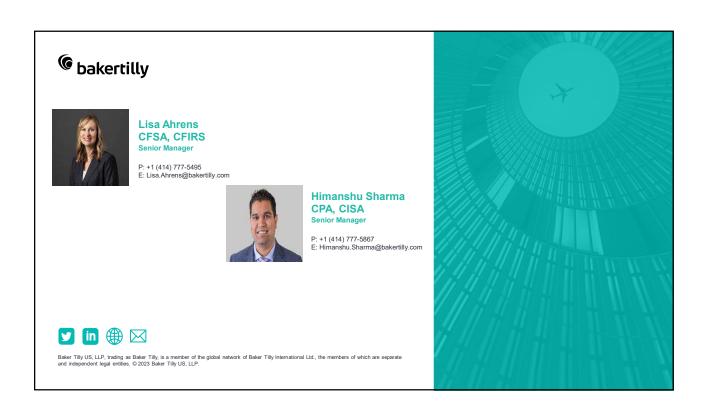


2:45 – 3:35 p.m.

### **FDICIA** Readiness

Lisa Ahrens, CFIRS, CFSA, Senior Manager, Baker Tilly
Himanshu Sharma, CPA, CISA, Senior Manager, Baker Tilly





## Agenda Overall Learning Objectives FDICIA Background Industry Trends Preparation for FDICIA Conducting FDICIA Readiness Considerations for Year 1 of FDICIA Common Challenges Critical Success Factors

## Gain an understanding of the requirements for FDICIA Gain an understanding of the thresholds requirements and FDICIA preparation Gain an understanding over scoping for FDICIA, including IT Evaluate how a FDICIA readiness exercise will benefit your institution in adapting to your new expectations Gain an understanding of what to expect when required to be FDICIA compliant

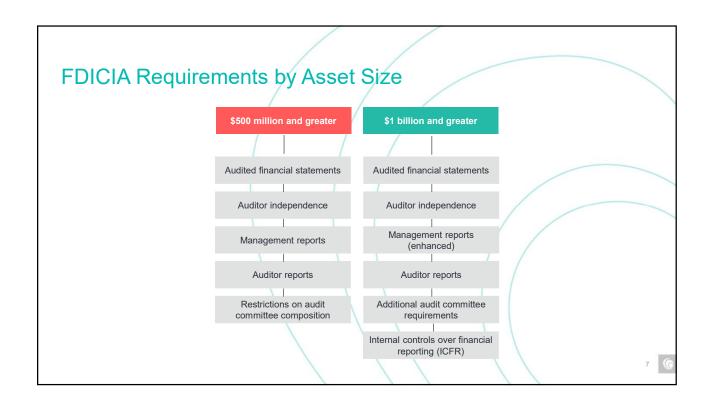
## FDICIA Background © bakertilly

### FDICIA Background

- Federal Deposit Insurance Corporation Improvement Act (FDICIA) of 1991
- Two levels of requirements, based on asset size
  - Banks \$500 million or more, but less than \$1 billion
  - · Banks \$1 billion or more
- Measurement
  - FDICIA applies to individually chartered institutions two separate banks, each with \$499 million in assets, are not subject to FDICIA – but one combined bank with \$500 million in assets is
  - The measurement date is the beginning of the fiscal year

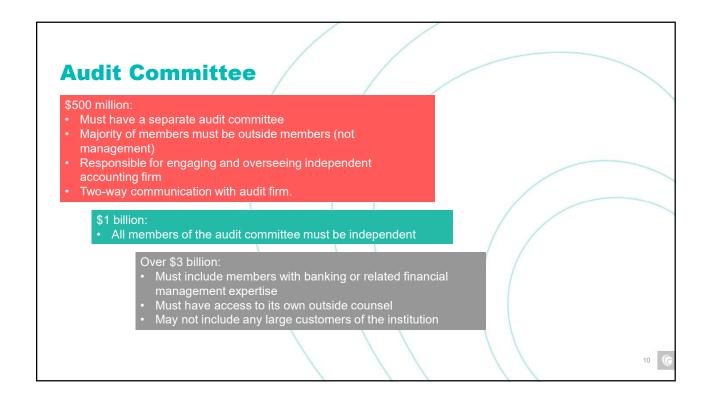
- Must assert that an internal control methodology is in place to assure the integrity of the annual audited financial statements
- Must evaluate the design, implementation and operating effectiveness of those internal controls over financial reporting
  - Design & Implementation: Are the controls designed and implemented at a point in time?
  - Operating Effectiveness: Were the controls operating, as designed, over a period of time?
- Requires independent public accountant to examine and attest to management's assessments

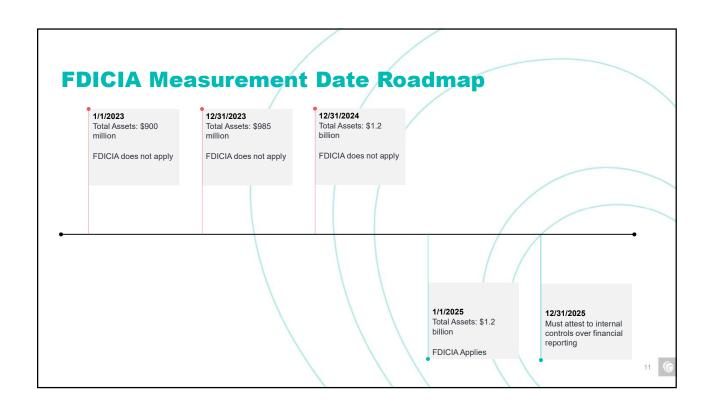






## S500 million: Must submit a statement of management's responsibilities, and an assessment of these responsibilities, for: Preparing the institution's annual financial statements Establishing and maintaining adequate procedures and an internal control structure for financial reporting Complying with laws and regulations relating to safety and soundness that are designed by the FDIC and the appropriate federal banking agency Must provide an assessment of the effectiveness of your bank's internal control structure and procedures, which include: A statement identifying the internal control framework used by management to evaluate the effectiveness of your institution's ICFR A statement that the assessment included controls over the preparation of regulatory financial statements in accordance with regulatory reporting instructions, including identification of regulatory reporting instructions A statement expressing management's conclusion as to whether your bank's ICFR are effective as of the end of its fiscal year. Your management must disclose all material weaknesses in your ICFR, if any, that have not been remediated prior to fiscal year-end Management is required to issue an attestation, and your financial statement auditors are required to issue an opinion on the effectiveness of your bank's ICFR, which is also provided to the appropriate federal banking agency.

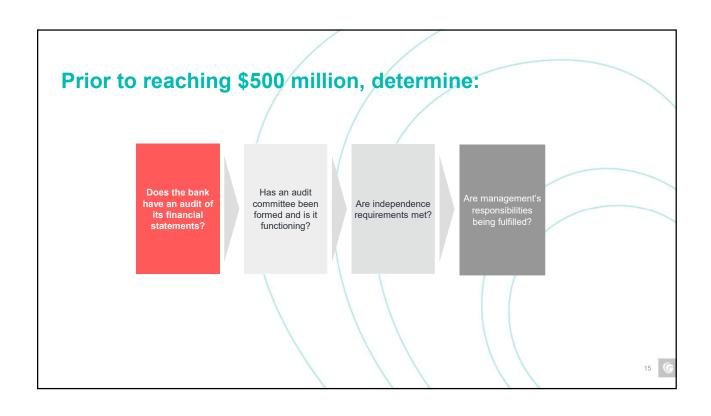


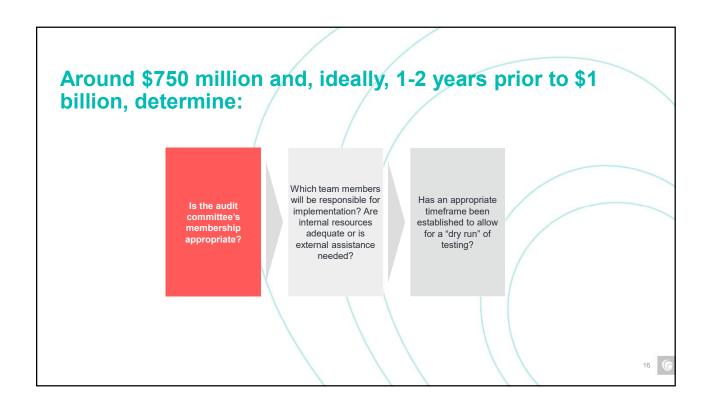




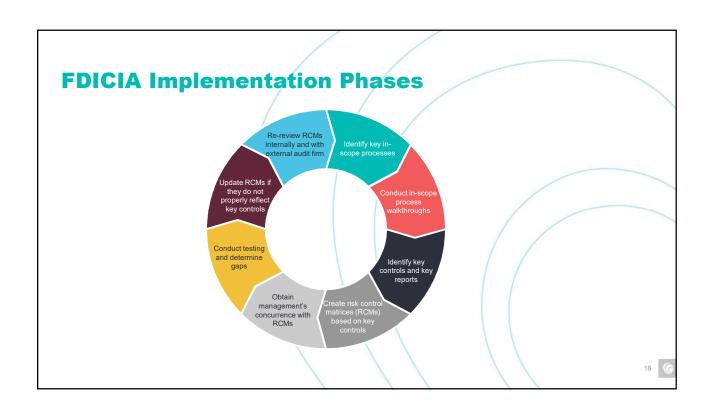
## Industry Trends Significant industry consolidation Consolidation trends increase the average asset size Some banks are not prepared for the reality of life after reaching \$500 million or \$1 billion in assets Increased scrutiny over internal controls over financial reporting from external audits and regulators



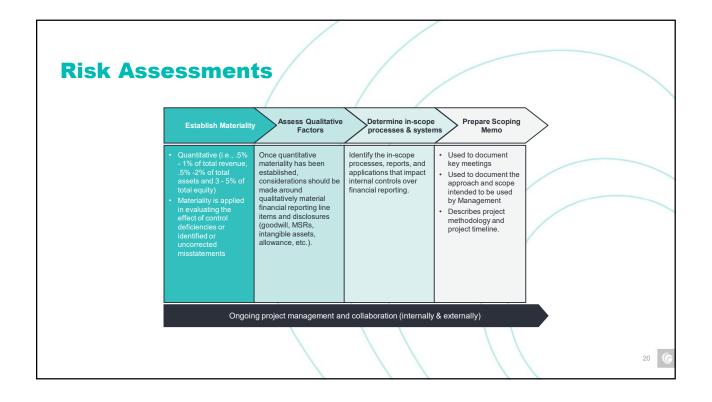




# Conducting FDICIA Readiness



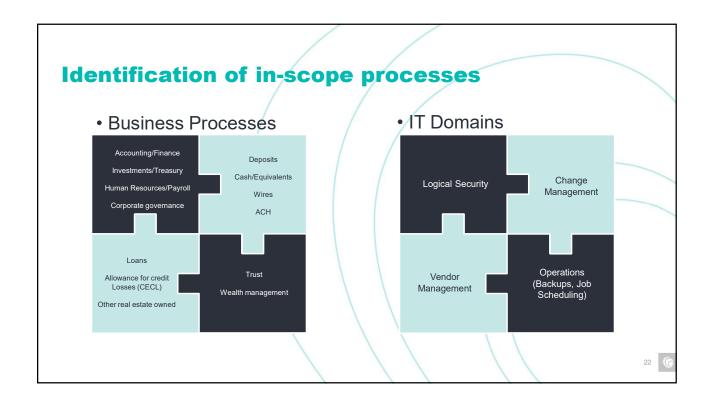




### **Identification of Key Risks**

- · Risk Factors:
  - Account size and composition
  - Volume and complexity of transactions
  - · Use of judgment and estimates
  - Non-routine vs. homogenous transactions
  - Susceptibility to misstatement due to fraud, errors or deficiencies
  - Lack of automation (manual vs. automated transactions)
  - Changes in people, process, technologies
- Determine risks related to systems and reports





### **IT Scoping**

- Determine key systems and applications that impact financial reporting:
  - What systems are used to initiate, authorize, process and record transactions impacting financial reporting?
    - Initiated: In which application(s) is financial data initially entered?
    - Authorized: In which application(s) are financial data entries approved and validated for completeness and accuracy?
    - · Processed: In which application(s) are financial transactions processed and validated for completeness and accuracy?
    - · Recorded: In which application(s) are financial transactions posted and produced for external financial reporting?
  - What are the key reports used by management as part of financial reporting?
    - · How did management validate that those reports are complete and accurate?





### IT DOMAINS

### **Logical Security**

- Access provisioning, deprovisioning, modifications:
  - · Centralized vs. decentralized process
  - · How is access added, modified, removed over the key systems?
- - Does the entity have the ability to control password parameters for in-scope applications?
  - · Do passwords align with policies?
- · Privileged Access:
  - · How many users with privileged access and what privileges do they have?
  - · Is segregation of duties implemented?
  - · Is privileged access segregated from standard access?
- User Access Reviews:
  - Who is performing the review (application owner, supervisor, IT, etc.)
  - · Reviews include privileges vs. active/inactive users
  - · Segregation of duties is being considered
  - · User listings are complete and accurate



IT DOMAINS

### **Change Management**

- Database changes, application changes, operating system updates, configuration changes
  - Does the Bank have a process for ensuring that all changes made to systems are appropriate and authorized?
- Are systems developed in-house or purchased?
- Are systems hosted internally or vendor-hosted?
- Are there monitoring controls implemented?

5



IT DOMAINS

### **Operations**

- · Backups:
  - Applies to application backups and server/network backups
  - Are backups controlled by the entity or vendor?
  - Is there monitoring of backups?
  - · How are failed backups being alerted and remediated?
- Job Scheduling
  - Are there automated jobs, related to ICFR, that need to be considered?
  - Are alerts configured to notify the appropriate administrators upon errors with the job or interface and administrators track remediation activities until resolution?



IT DOMAINS

### **Vendor Management**

- Is vendor due diligence being performed over key vendors / systems?
  - Review of SSAE / SOC reports
  - Security questionnaires
  - Is management performing the necessary steps to be able to rely on the inscope systems?
    - Performing a review over complementary user entity controls within SOC reports

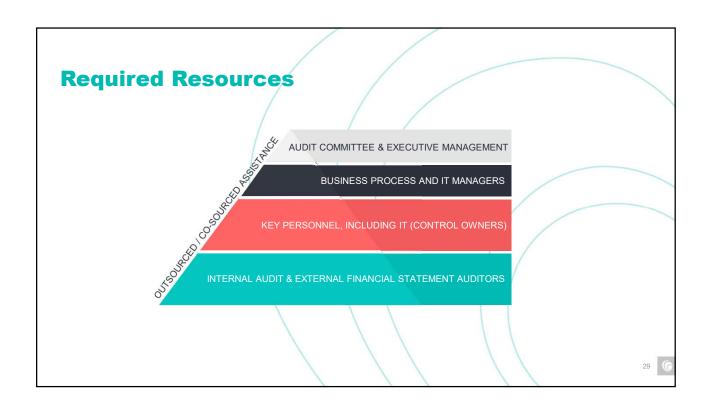
27



EXAMPLE TIMELINE FOR BEING FDICIA COMPLIANT AS OF 01/01/2026

### Phase 2

- Q1 2024 Activities
  - Determine resource needs
  - Conduct in-scope process walkthroughs
  - Identify key controls and key reports
  - Create risk control matrices based on key controls identified
  - Assess identified design and implementation gaps / weaknesses



### **Design and Implementation Validation**

- Evaluate entire life cycle of the key processes / all steps of the process
- Interviews of key personnel
- · Identification of key controls & reports
- Identification of potential weaknesses / gaps
- Identification of control duplication / inefficiencies
- Basis for buildout of risk control matrix (RCM)

### **Identification of Key Controls**

- Common characteristics:
  - Required to provide reasonable assurance that material errors will be prevented or timely detected and corrected
  - · Covers the risk of material misstatement
  - Covers more than one risk or supports a process execution
  - If it fails, it is highly improbable that other controls could detect the control absence

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### **Identification of Key Reports**

- Identified as part of the process walkthroughs
- Understand the source of the reports / data
- Understand how the reports are complete and accurate
- Responsibility of both the auditor and Bank personnel

2 (

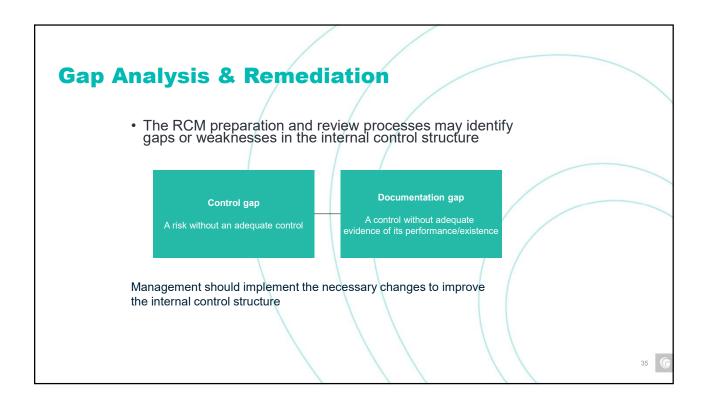
### **Risk Control Matrix**

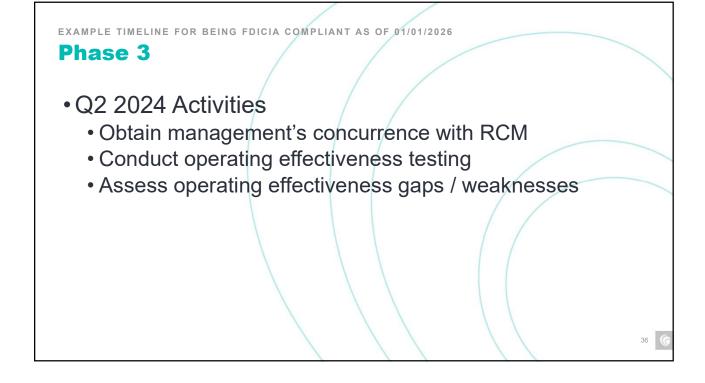
- A summary of key risks, controls & corresponding details, control owners, etc.
- Used to group objectives, risks and controls for each process / IT domain
- Active participation of control owners creates effective RCMs
- Serves as basis for FDICIA process



### Risk Control Matrix - Example Content

- Key risk
- Control objective
- Control activity/description
- Control owner
- Control frequency
- Financial statement assertion





### **Operating Effectiveness Validation**

- Evaluate whether populations are complete and accurate
- Perform sample-based testing over each identified key control to determine whether the control was consistently operating effectively over a period of time
- Evaluate whether documentation is being adequately retained to support the operation of the control activity
- Determination of whether the operation of the control aligns with the design of the control and adequately addresses the mapped risks

EXAMPLE TIMELINE FOR BEING FDICIA COMPLIANT AS OF 01/01/2026

### Phase 4

- Q3 2024 Activities
  - Perform remediation activities for design, implementation and operating effectiveness gaps / weaknesses / deficiencies identified

EXAMPLE TIMELINE FOR BEING FDICIA COMPLIANT AS OF 01/01/2026

### Phase 5

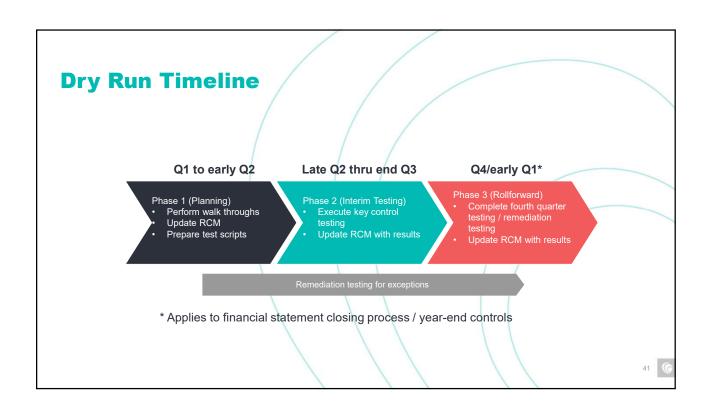
- Q4 2024 Activities
  - Update RCM to ensure proper alignment with controls and processes
  - Review & finalize the RCM with management and with Audit Committee
  - Obtain feedback from external auditors

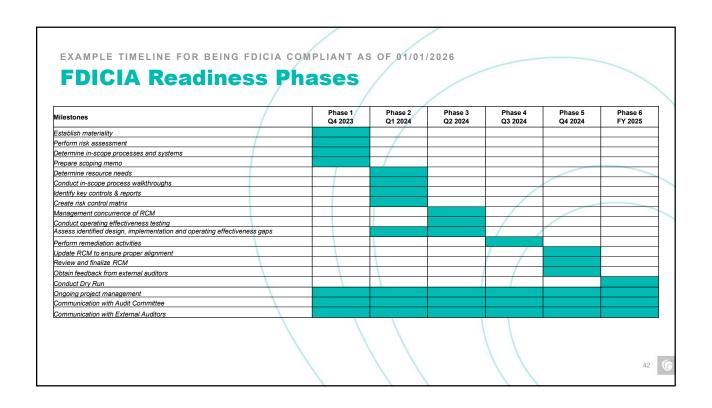


EXAMPLE TIMELINE FOR BEING FDICIA COMPLIANT AS OF 01/01/2026

### Phase 6

- Fiscal Year 2025 Dry Run
  - Establish documentation expectations with external auditors
  - Conduct FDICIA dry run
  - Confirm adequacy of in-scope processes, controls, systems, and reports with external auditors based on results of the dry run





## Considerations for Year 1 of FDICIA

### **Expectations during FDICIA**

- Establish expectations with external auditors
  - Scope
  - Timeline
  - Extent of testing (sample size, documentation expectations)
- Ensure resource needs are able to be fulfilled
- Ensure alignment between control owners, management and Audit Committee
- For deficiencies identified, evaluate the severity

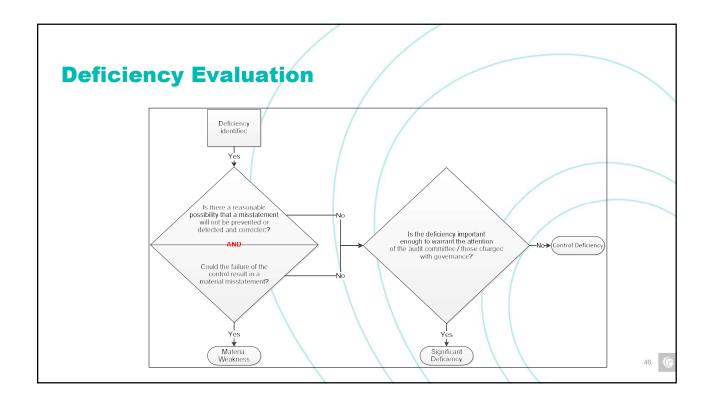
### **Deficiency Evaluation**

• If a control deficiency is identified, the deficiency should be discussed with all parties involved in order to validate it is a true deficiency.

### What should be discussed?

- · Review the deficiency identified
- Validate the deficiency truly is a key control failure
- Determine root cause of the deficiency
- Determine whether a mitigating control exists and should be tested
- Processes for remediating the deficiency
- Determine if there is sufficient time available to remediate the deficiency
- If concluded that this is a true deficiency, determine the severity of the deficiency



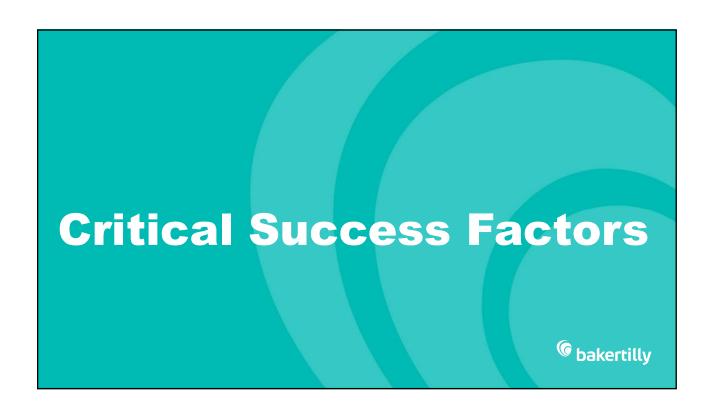


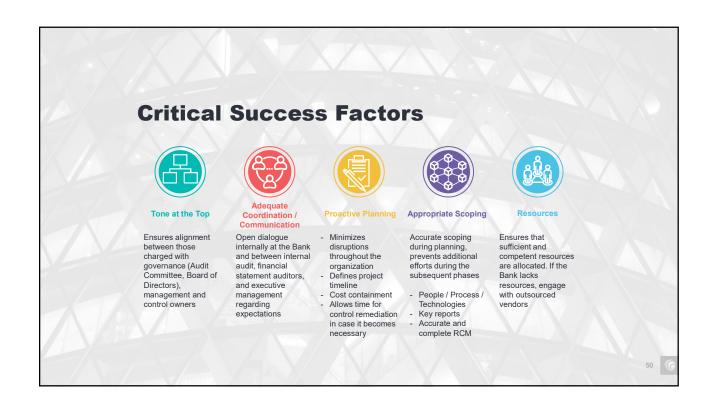
# Common Challenges © bakertilly

### **Common Challenges**

- Lack of proactive planning
  - No opportunity to remediate deficiencies
  - No opportunities to correct RCMs
- Lack of communication
  - Misalignment between auditors, internal audit, management, executives
- Errors in scoping
  - Key controls not identified accurately and completely
  - Full audit period not covered in FDICIA procedures
- Inadequate documentation
  - Testing documentation not deemed sufficient by external auditors
  - Inconsistent methodology
  - · Lack of documented processes
- · Completeness & accuracy of data
  - Key reports have not been validated for completeness and accuracy
  - · Complete and accurate populations are unable to be generated





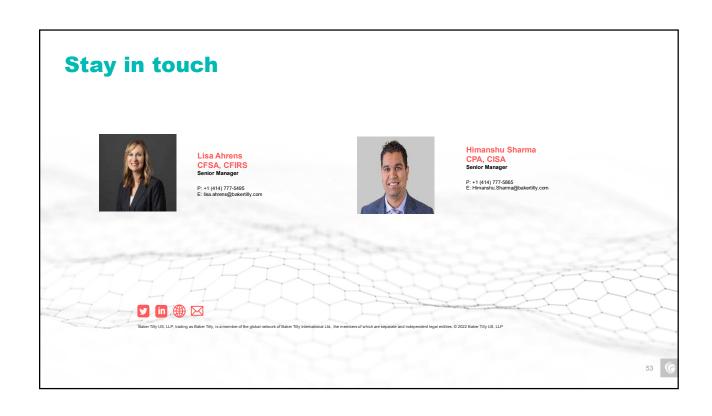


### **FDICIA Readiness Best Practices**

- Validate that processes, systems and reports are appropriately scoped
- Plan to include a "dry run year"
  - Allows to confirm and/or update controls
  - Gives an indication of any control issues
  - · Eases into additional testing
- Ideally performed over a 2-year timeframe
- Ensure clear expectations are established with external auditors







3:45 - 4:55 p.m.

## Current Issues in Business Ethics

**Boz Bostrom, CPA, MBT,** Associate Professor of Accounting & Finance, College of Saint Benedict Saint John's University

## Current Issues in Business Ethics – 2023

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May 10, 2023

### **Learning Objectives**

- Understand the attitudes of other related to ethics
- Understand laws, rules and regulations which apply to CPAs and finance professionals
- Understand consequences of violating the laws, rules and regulations
- Understand and learn from current ethical violations
- Understand principles of ethical leadership

### **Understand attitudes toward ethics**

## Which profession does the public vote as the most honest/ethical? Gallup poll taken every December

- Nurses were added to the rankings in 1999 and rated the highest every year except one
- Which year was the exception?
   Which profession won?





### **Above Average**

### **Below Average**

- Nurses
- · Medical doctors
- Telemarketers
- Pharmacists
- · Members of Congress
  - · Car salespeople
- · High school teachers
- · Business executives
- · Advertising practitioners
  - · Police officers
    - Lawyers
    - Journalists
  - · Labor union leaders
  - Real estate agents
    - Accountants
      - Bankers
      - Judges
      - Clergy

## Gallup Poll (Dec 2022) – rate honesty and ethical standards "high" or "very high"

Nurses	79%	Bankers	26%
<b>Medical doctors</b>	62%	Labor union leaders 24%	
Pharmacists	58%	Real estate agents 24%	
High school teachers	53%	Journalists 23%	
Police officers	50%	Lawyers 21%	
Accountants	41%	Advertising practitioners 15%	
Judges	39%	Business executives 14%	
Clergy	34%	Car salespeople 10%	
		Members of Congress	9%
		Telemarketers	6%

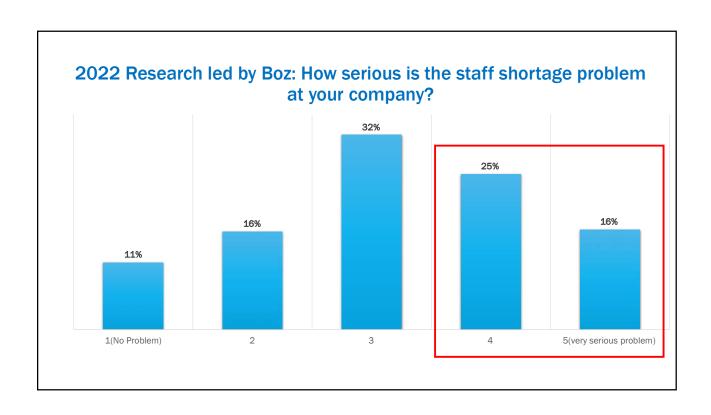
## Local Research

## **2021** Research led by Boz Work-from-home considerations - Teamwork

- Nearly 1/3 of people feel that working from home has negatively impacted their relationships with coworkers
- About 18% find it difficult to receive guidance from team members
- 62% are communicating with coworkers less (10% are communicating more)

### **Work-from-home considerations - Loyalty**

- When asked what increases loyalty to their current job/employer
- Compensation was #1 58%
- Good bosses/mentors and good colleagues were both just under 51%
- Well above: challenge, engagement, belief in the company's mission, location, and advancement opportunities
- "Working from home has completely killed our company culture. Everything fun and exciting about my job has been taken away."



### **5 (Serious Staff Shortage) Answers-By Industry**

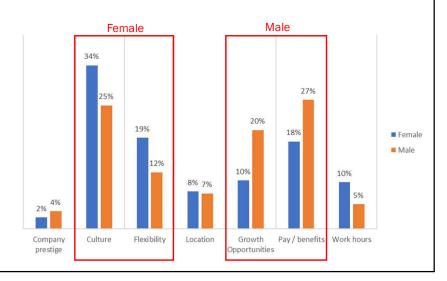
CPA Firms	Industry	Percent
	Large CPA Firm	26%
	Big 4 CPA Firm	26%
	Small-mid size CPA firm	25%
	Government, non-profit, or	
	education	17%
	Private corporation	12%
	Consulting, advisory, or self-	
	employed CPA	8%
	Public corporation	7%

## Which factor has the most influence on what company an employee chooses to work for?

### OPTIONS:

- · Company Prestige
- Culture
- Flexibility
- Growth Opportunities
- Location
- Pay / benefits
- · Work hours





### **Research Takeaways**

- There are serious staff shortages, particularly in public accounting
- Culture and flexibility are highly valued, particularly by women
- Potential culture issues:
  - · Relationships with co-workers and bosses increase loyalty, but...
  - Communication with co-workers has decreased
- Overall, there are fewer people to do the work and many feel culture has been negatively impacted
- What ethical issues could this raise?

### **Embezzlement**

### **Discussion**

- As part of doing business, a company needs to purchase goods/services
- What sort of risks does this create?
- What types of controls can a company put in place to manage these risks?

### **Shelbee Szeto**

- Executive Assistant, then Finance Planning Manager at Hewlett Packard from 2017 – 2021
- Was issued corporate credit cards to facilitate purchases for the company
  - Company policy prohibited using these cards for personal expenses
- Shelbee setup fake accounts PayPal, Stripe, and Square and paid fake invoices received from these vendors
- Embezzled \$4.8M in total
  - · Spent it predominantly on luxury items

## What do you think - Which was not a luxury item Shelbee had to surrender to the authorities?

- A. Automobile
- B. Bags/purses
- C. Hotel stays
- D. Jewelry
- E. Teddy bear

## Items surrendered:

- Tesla sedan
- Porsche SUV
- Dozens of designer bags and purses
- Over a dozen Rolex watches
- Dozens of jewelry items
- Louis Vuitton teddy bear



Louis VUITTON Pre-owned Louis VUITTON Doudou ...

Brown cotton Louis Vuitton Doudou 2005 teddy bear from Louis Vuitto Pre-Owned featuring a monogram pattern and a hanging leather tag. Please be mindful that this piece has led ...

Bear

\$17,957.00

+\$0.00 est. tax

The Luxy Shop

#### **Documentation**

- HP required documentation
  - Uploaded falsified invoices to HP's internal system and falsely represented to HP that the payments were made to legitimate vendors
- Square asked for documentation.
  - She produced a false credit card authorization form
- Bank asked for documentation.
  - Claimed she earned \$3.6M through work as a consultant over a 12 month period and this was business income

#### **Fallout**

- March 2022. Pled guilty to:
  - Two counts of wire fraud, in violation of 18 U.S.C. § 1343. Up to 20 years per count.
  - two counts of money laundering, in violation of 18 U.S.C. § 1957. Up to 10 years per count
  - and one count of failing a false tax return, in violation of 26 U.S.C. § 7206(1). Up to 3 years
- Szeto's attorney: "Ms Szeto is accepting responsibility and doing her best to make amends.
- Sentenced to three years in prison

## 26 U.S. Code § 7206 - Fraud and false statements

- Any person who...Willfully makes and subscribes any return, statement, or other document, which contains or is verified by a written declaration that it is made under the penalties of perjury, and which he does not believe to be true and correct as to every material matter...
  - shall be guilty of a felony and, upon conviction thereof, shall be fined not more than \$100,000 (\$500,000 in the case of a corporation), or imprisoned not more than 3 years, or both, together with the costs of prosecution.

Ethical Leadership	

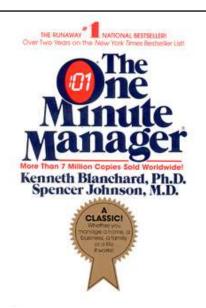
## **Discussion**

• What traits come to your mind when you think of an ethical leader?

#### **Ken Blanchard**

- · Author, consultant, speaker
- The One Minute Manager has sold over 15M copies

 https://www.youtube.com/w atch?v=ctZHSa4Qhd4



## **Servant leadership**

- Serve first, lead second
- Most effective leaders are good human beings who care about people
- Listen more than talk

#### Tips to success

- Self assess at the end of each day Praise and redirect yourself
- Focus on significance instead of success
  - Significance is tied to generosity, success is tied to money
- Enter your day slowly, and with intent
  - Be intentional. Don't get caught in the rat race

#### Three key aspects of being a leader

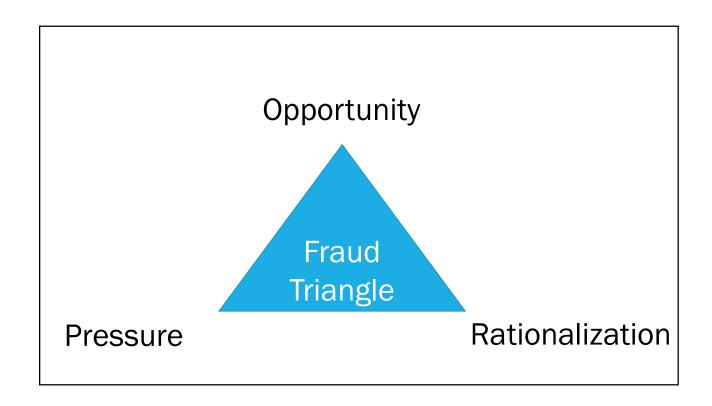
- · Set clear goals
  - People need to know what they must try to accomplish
- Praise others
- Redirect
  - Point out the issue, ask for their opinion, ask how you can help them get back on track
- Which one could you most improve on?

# Reducing the risk of fraud **Discussion**

• Why do people commit fraud?

#### **Common Frauds**

- Embezzlement
  - Rita Crundwell
- Insider Trading
  - Scott London
- Foreign Bribery
  - Wal-Mart Mexico
- Bribery of Government Officials
  - Ray Nagin
- Falsified Financials Statements
  - Autonomy



#### **Case Study**

- Your spouse serves as the President for a small non-profit organization in your local community
- The Treasurer abruptly resigned and community members have encouraged you to take on that role given your financial savvy
- The non-profit does not have an active board of directors
- You indicated you would not be comfortable taking on the role and they asked you what would need to change so that you could do so?

## Conflicts of Interest - Three steps as prescribed by the AICPA's Code of Conduct:

- · Identify a conflict of interest
- Evaluate a conflict of interest
  - Significance of threat/safeguards. If not at acceptable level, must apply more safeguards
    - Restructuring or segregating certain responsibilities and duties
    - Obtaining appropriate oversight
    - Withdrawing from the decision making process related to the matter giving rise to the conflict of interest
    - Consulting with third parties, such as a professional body, legal counsel, or another professional accountant
  - If can't get to acceptable level, decline services or withdraw from the relationship
- Disclose a conflict of interest (if at acceptable level)

#### **Embezzlement - The Sharpers**

- Anthony Sharper, CPA and his wife Deana Sharper were involved with a Charlotte area high school booster club
  - Anthony was interim President and Treasurer
  - Deana ran the concession stand and school store
- Embezzled over \$200,000 from a Charlotte high school booster club from 2017-2020
  - · Writing checks to themselves
  - Wiring funds to themselves
  - Using club debit/credit cards to pay for personal expenses

#### **Embezzlement - The Sharpers**

- Did not pay tax on embezzled income = two counts of tax fraud!
- How did they cover the theft?
- A fake PPP loan of \$230,000
- Some reimbursed the booster club, some was used personally

#### **Charges**

- · Wire fraud
  - Maximum penalty of 20 years in prison and a \$250,000 fine.
- Two counts of making false statements to a financial institution
  - Maximum prison term of 30 years and a \$1 million fine per count
- · Making a false statement to SBA
  - Maximum statutory penalty is 30 years in prison and a \$1 million fine
- Two counts of engaging in monetary transactions in criminally derived property
  - Maximum prison term of 10 years and a \$500,000 fine per count
- · Two counts of filing a false tax return
  - Maximum penalty of three years in prison and a \$250,000 fine per count.
- Their attorney, "They are very nice people and as the legal process runs its course, everybody will find out more."

# What do you think? Embezzlement is more common at?

- A. Large companies
- B. Small companies
- HISCOX, a specialty insurance company, found in a 2016 study that 80 percent of embezzlement occurred at small businesses (defined as those with less than 150 employees).

#### Jasiel F. Correia - a rising star

- In 2012, at the age of 19, Jasiel designed at app to connected local businesses with consumers
- Decided to run for office. "I'm a product of Fall River. I'm young, I'm ambitious and I'm a hard worker. I want to see myself and Fall River succeed."
- Became Mayor of Fall River, Massachusetts, a city with population about 100,000, at the age of 23

#### Jasiel F. Correia - a fallen angel

- Raised \$360,000 from investors and used 2/3 to fund personal lifestyle and to fund his political campaign
- Refused to provide financials to investors, gave false positive updates
- Became Mayor in 2016 (Age of 23), accepted bribes in exchange to non-opposition letters to marijuana vendors
  - Letters required under state law to operate a marijuana business
  - · Solely responsible for approving non-opposition letters

#### Jasiel F. Correia - the fallout

- In 2021, convicted of 21 total counts of wire fraud, four counts of filing false tax returns, four counts of extortion conspiracy and four counts of extortion.
- "Eventually, the real truth will come out," Mr. Correia said. "I will be vindicated, and my future will be very long and great."
- Sentenced to 6 years in prison and 3 years supervised release
- April 2022: Reported to prison

# 18 U.S. Code § 201 - Bribery of public officials and witnesses (selected language)

- Whoever directly or indirectly, corruptly gives, offers or promises anything of value to any public official with intent to influence any official act...
- Whoever being a public official directly or indirectly, corruptly demands, seeks, receives, accepts, or agrees to receive or accept anything of value personally or for any other person or entity, in return for being influenced in the performance of any official act...
- <u>Shall be fined</u> under this title or not more than three times the monetary equivalent of the thing of value, whichever is greater, <u>or</u> imprisoned for not more than fifteen years, or both

#### **Comments from government authorities**

- "Jasiel Correia was a corrupt and deceitful politician who could only be stopped by federal prosecution. Now he is a felon and will be a federal inmate."
- "Jasiel Correia's conscious decision to fleece investors, extort hundreds of thousands of dollars in bribes, and cheat on his taxes has now cost him his freedom. He has proven to be a pervasive liar who has shown absolutely no remorse or empathy for his victims, and today he has been held accountable. Sadly, his actions have further eroded the public's trust in government, and deeply hurt the citizens of Fall River."

#### How could these have been avoided?

- Oversight, approvals, segregation of duties
- Avoid Pressures
- Avoid Opportunities

### **Key Takeaways**

- Understand the relevant rules and perspectives of others
- Discuss your decision with others who don't have a stake in the outcome
  - Assume your decision will be discovered
  - Focus on the long-term
- Document your decision and support for your position
- "Ethics is knowing the difference between what you have the right to do and what is right to do." – Potter Stewart, former Associate Justice of the U.S. Supreme Court