

VIRTUAL EVENT

# Fixed Income Analysts Society & Bloomberg Intelligence Credit Research March 29, 2023

# Bloomberg Intelligence

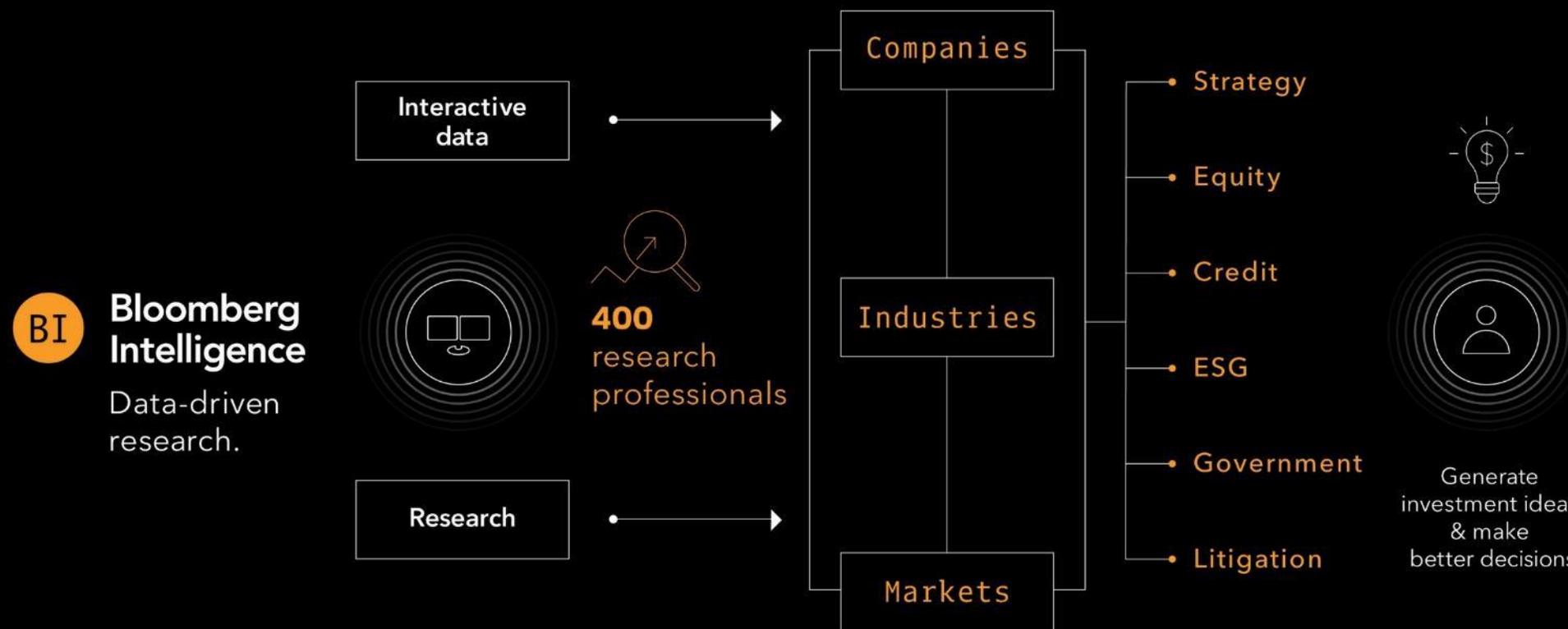
**500+**  
data contributors

**135+**  
industries

**2,000+**  
companies

**15yrs**  
avg. analyst experience

Bloomberg Intelligence (BI) research delivers an independent perspective providing interactive data and investment research on companies, industries and global markets. Our team of 400 research professionals help our clients make informed decisions in the rapidly moving investment landscape.



# Agenda

- **Introduction to BI Credit Research**

- **Team Member Presentations:**

1. **Banking Turmoil and Ripple Effects Across Financials**

2. **Health and Outlook of the Global Consumer with the impact on Consumer & Industrial Sectors**

3. **Energy Discussion and important capital allocation decisions that need to be made**

4. **Relative value update on the TMT sector, including how to optimize Bloomberg functionality and data**

- **Q&A**

# Banking Turmoil and Ripple Effects Across Financials



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**Arnold Kakuda**

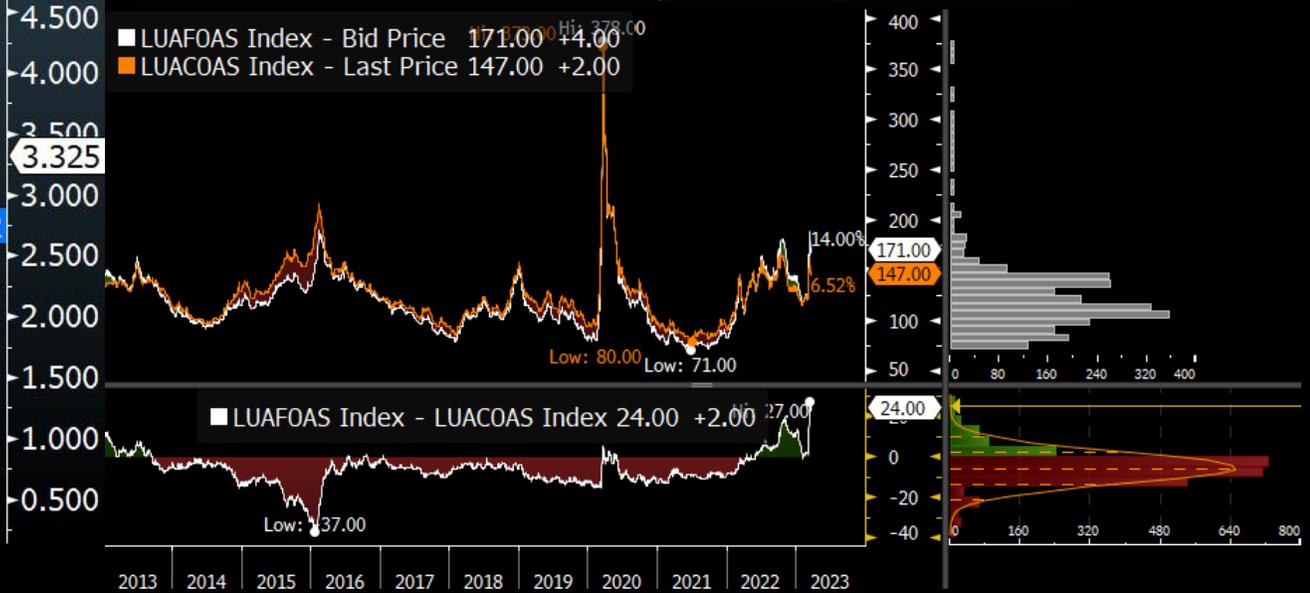
US Banks Credit Analyst  
Bloomberg Intelligence

# Financial Bonds (Excluding AT1/Preferreds) Over 20 Bps Wide Vs. Overall IG Index

Bank Stocks, Bond Spreads, S&P 500, 10Y UST



Fins Spreads Used to Be Tight to Corporate Index



Source: Bloomberg

# March Total Returns Positive While Excess Returns Negative

Big U.S. Banks March 23: Total & Excess Returns

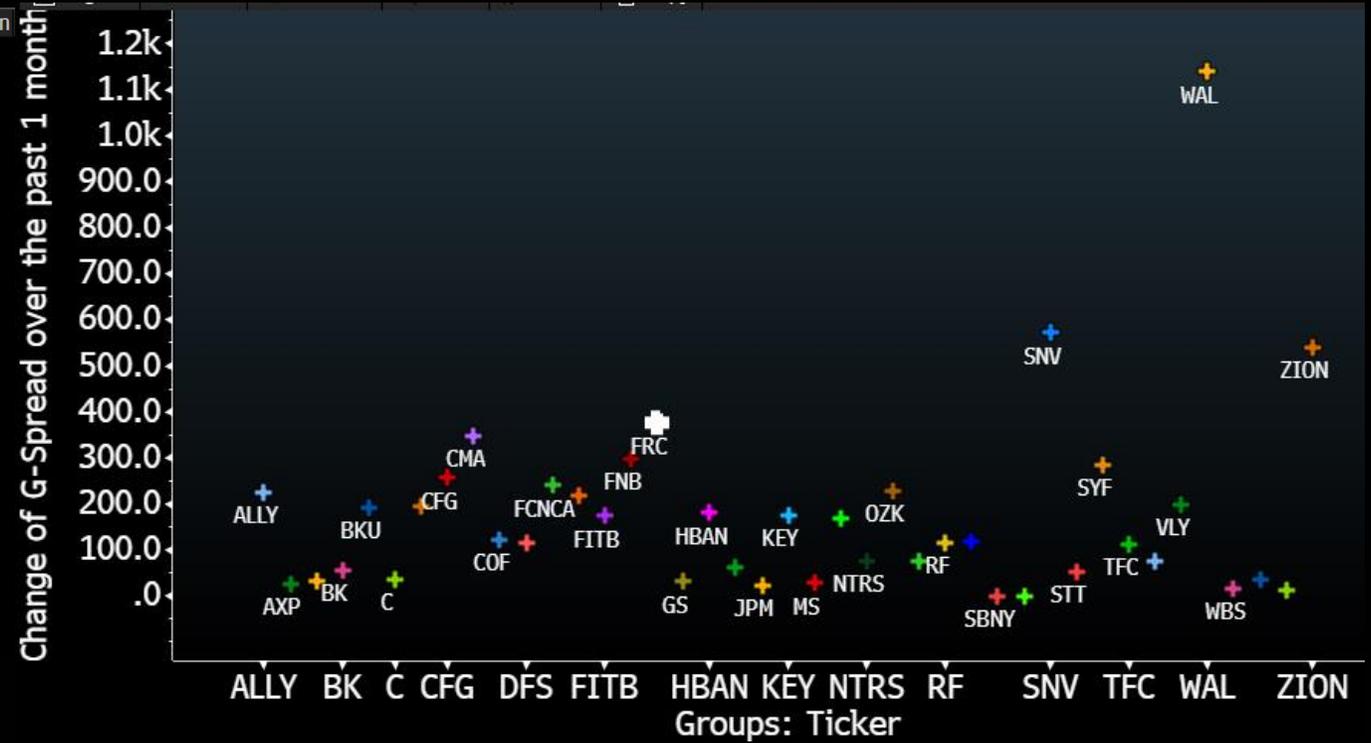
(LUACTRUU) Bloomberg		vs	Default (None)	by	L1-4\Ticker	in	USD
Version	Port	Unit	Basis Points	Model	Excess Return	Curve	Sovereign
Name					Avg % Wgt	Tot Rtn	Excess Rtn
<b>(LUACTRUU) Bloomberg US...</b>							
▼ Holdings					100.00	261.6523	-116.15
▼ Corporate					100.00	261.6523	-116.15
▶ Industrial					57.93	323.8612	-71.00
▼ Financial Institutions					33.67	148.7681	-191.71
▼ Banking					23.79	136.6667	-187.74
▼ Banking					23.79	136.6667	-187.74
▶ BAC					2.72	234.7008	-117.31
▶ JPM					2.47	268.4807	-79.05
▶ MS					1.83	235.4105	-102.42
▶ C					1.67	216.0805	-128.30
▶ GS					1.64	260.2105	-85.67
▶ WFC					1.55	216.6805	-143.25

# Biggest US Banks Provide a Shelter From Regional Worries

## Bank Index: 1 Month Stock Change

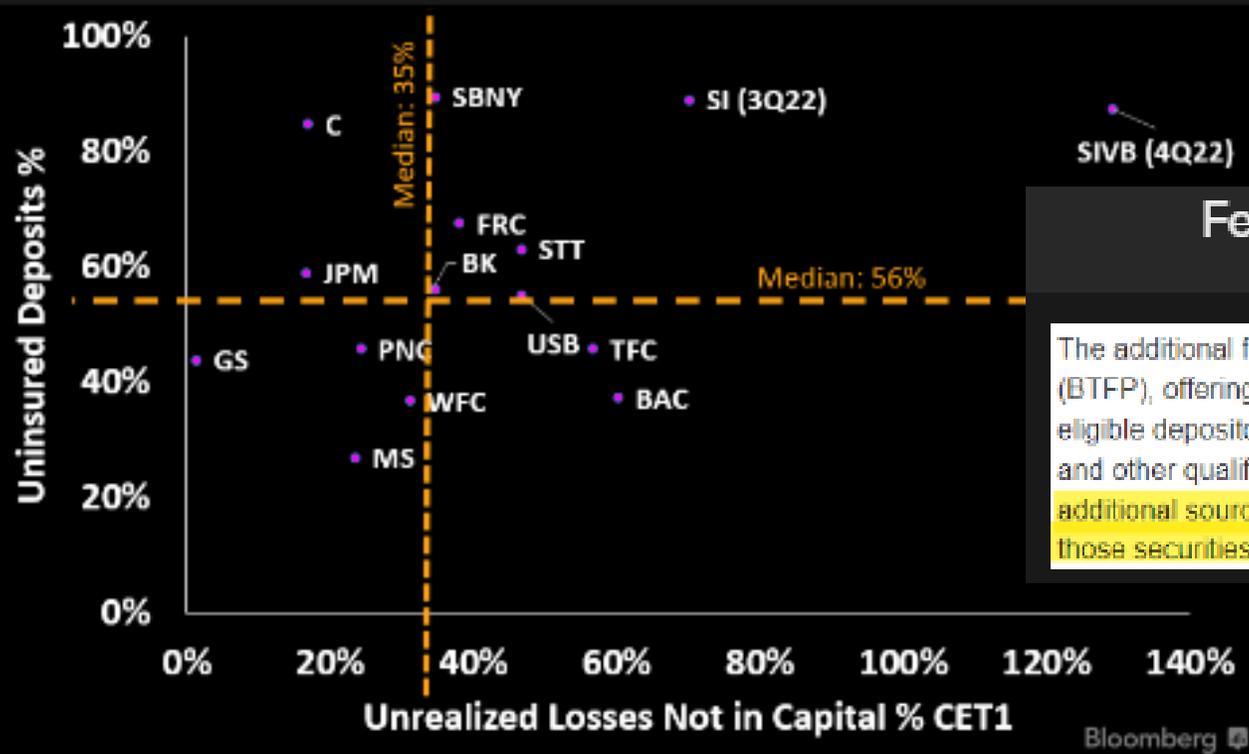
Negative Price Return	Members (22)	Return
	<b>KBW BANK INDEX</b>	<b>-29.95%</b>
	<b>Best Performing</b>	
1)	JPMORGAN CHASE & CO	-11.94%
2)	NORTHERN TRUST CORP	-13.38%
3)	CITIGROUP INC	-16.00%
4)	BANK OF NEW YORK MELLON CORP	-17.36%
5)	STATE STREET CORP	-19.79%
6)	CAPITAL ONE FINANCIAL CORP	-20.16%
7)	BANK OF AMERICA CORP	-22.62%
8)	WELLS FARGO & CO	-23.21%
9)	PNC FINANCIAL SERVICES GROUP	-23.91%
10)	REGIONS FINANCIAL CORP	-24.69%
	<b>Worst Performing</b>	
11)	M & T BANK CORP	-28.75%
12)	EAST WEST BANCORP INC	-30.30%
13)	HUNTINGTON BANCSHARES INC	-30.48%
14)	FIFTH THIRD BANCORP	-31.70%
15)	TRUIST FINANCIAL CORP	-32.09%
16)	KEYCORP	-40.58%
17)	COMERICA INC	-44.20%
18)	ZIONS BANCORP NA	-47.24%
19)	WESTERN ALLIANCE BANCORP	-58.55%
20)	FIRST REPUBLIC BANK/CA	-90.09%

## USD Bank Bonds: 1 Month G-Spread Change



# Select Regional Banks Faced Uninsured Deposit Outflow on Unrealized Loss Concerns; BTFP a One Year Band Aid

Unrealized Losses vs. Uninsured Deposits (% Total)



## Federal Reserve Additional Funding Program

The additional funding will be made available through the creation of a new Bank Term Funding Program (BTFP), offering loans of up to one year in length to banks, savings associations, credit unions, and other eligible depository institutions pledging U.S. Treasuries, agency debt and mortgage-backed securities, and other qualifying assets as collateral. These assets will be valued at par. The BTFP will be an additional source of liquidity against high-quality securities, eliminating an institution's need to quickly sell those securities in times of stress.

Source: Bloomberg Intelligence, Company Filings, Federal Reserve

# Potential Cure for Regional Bank Jitters May Be More Deposit Guarantees, Regulation (TLAC, AOCI), Lower Rates

## Fed's 2019 Tailoring Rules for US Banks

	Category I U.S. GSIBs	Category II ≥ \$700b Total Assets or ≥ \$75b in Cross-Jurisdictional Activity	Category III ≥ \$250b Total Assets or
Capital	TLAC/Long-term debt		
	<b>Stress Testing</b> <ul style="list-style-type: none"> <li>Annual company-run stress testing</li> <li>Annual supervisory stress testing</li> <li>Annual capital plan submission</li> </ul>	<b>Stress Testing</b> <ul style="list-style-type: none"> <li>Annual company-run stress testing</li> <li>Annual supervisory stress testing</li> <li>Annual capital plan submission</li> </ul>	
	<b>Risk-Based Capital</b> <ul style="list-style-type: none"> <li>GSIB surcharge</li> <li>Advanced approaches</li> <li>Countercyclical Buffer</li> <li>No opt-out of AOCI capital impact</li> </ul>	<b>Risk-Based Capital</b> <ul style="list-style-type: none"> <li>Advanced approaches</li> <li>Countercyclical Buffer</li> <li>No opt-out of AOCI capital impact</li> </ul>	<b>Risk-Based Capital</b> <ul style="list-style-type: none"> <li>Countercyclical Buffer</li> <li>Allow opt-out of AOCI capital impact</li> </ul>
	<b>Leverage capital</b> <ul style="list-style-type: none"> <li>Enhanced supplementary leverage ratio</li> </ul>	<b>Leverage capital</b> <ul style="list-style-type: none"> <li>Supplementary leverage Ratio</li> </ul>	<b>Leverage capital</b> <ul style="list-style-type: none"> <li>Supplementary leverage ratio</li> </ul>

## 2008 Temporary Liquidity Guarantee Program

### Temporary Liquidity Guarantee Program

On October 14, 2008, as part of a coordinated response by the U.S. government to the disruption in the financial system and the collapse of credit markets, the FDIC implemented the Temporary Liquidity Guarantee Program (TLGP). By calming market fears and encouraging lending, the TLGP helped bring stability to financial markets and the banking industry during the crisis period. The TLGP consisted of two components: (1) the Transaction Account Guarantee Program (TAGP), an FDIC guarantee in full of noninterest-bearing transaction accounts; and (2) the Debt Guarantee Program (DGP), an FDIC guarantee of certain newly issued senior unsecured debt.

Source: FDIC

# Biggest US Banks Have Healthy Excess CET1, Which Include Unrealized Losses From AFS Securities, Unlike Regionals

## G-SIB Capital Requirements

	JPMorgan	Citigroup	Bank of America	Morgan Stanley	Goldman Sachs	Wells Fargo
Base CET1 Requirement	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%
Prior: Capital Conservation Buffer	2.5%	2.5%	2.5%	2.5%	2.5%	2.5%
Fed's G-SIB Buffer: 1Q23	4.0%	3.5%	2.5%	3.0%	3.0%	1.5%
1Q23 Advanced CET1 Hurdle	11.0%	10.5%	9.5%	10.0%	10.0%	8.5%
4Q21 CET1 Requirement	11.2%	10.5%	9.5%	13.2%	13.4%	9.1%
Base CET1 Requirement	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%
Stress Capital Buffer: 4Q22	4.0%	4.0%	3.4%	5.8%	6.3%	3.2%
Fed's G-SIB Buffer: 1Q23	4.0%	3.5%	2.5%	3.0%	3.0%	1.5%
1Q23: Fed's CET1 Requirement	12.5%	12.0%	10.4%	13.3%	13.8%	9.2%
CET1 Req. Increase / Decrease	1.3%	1.5%	0.9%	0.1%	0.4%	0.1%
3Q22 CET1	12.5%	12.3%	11.0%	14.8%	14.3%	10.3%
4Q22 CET1	13.2%	13.0%	11.2%	15.3%	15.1%	10.6%
Surplus/Deficit From Potential CET1 Hurdle	0.7%	1.0%	0.8%	2.0%	1.3%	1.4%

Source: Bloomberg Intelligence

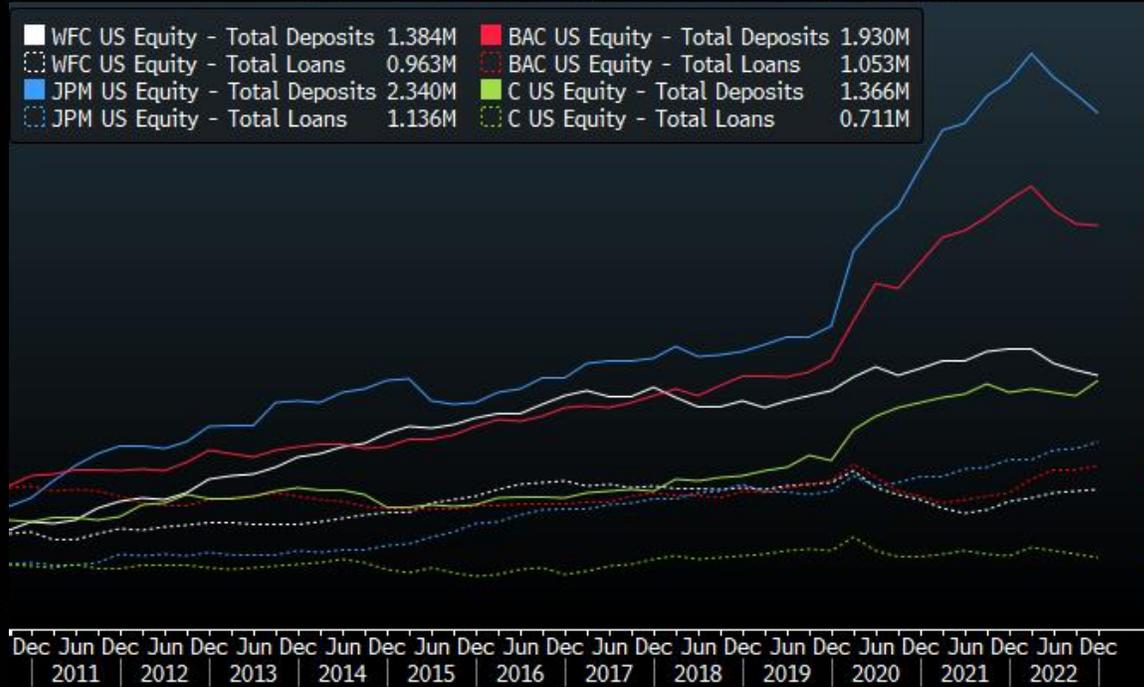
## Capital and Leverage Ratio Model: QoQ Difference

	4Q22: ProForma		3Q22: ProForma		Difference	
	Excess CET1	CET1	Excess CET1	CET1	Excess CET1	CET1
Bank of America	13	11.2%	9	11.0%	4	0.2%
Wells Fargo	18	10.6%	14	10.3%	3	0.3%
JPMorgan	12	13.2%	0	12.5%	12	0.7%
Morgan Stanley	9	15.3%	7	14.8%	2	0.5%
Citigroup	12	13.0%	3	12.3%	8	0.7%
Goldman Sachs	8	15.0%	4	14.3%	4	0.7%
BNY Mellon	4	11.2%	2	10.0%	2	1.2%
State Street	6	13.6%	6	13.2%	0	0.4%
<b>Total</b>	<b>82</b>		<b>46</b>		<b>36</b>	

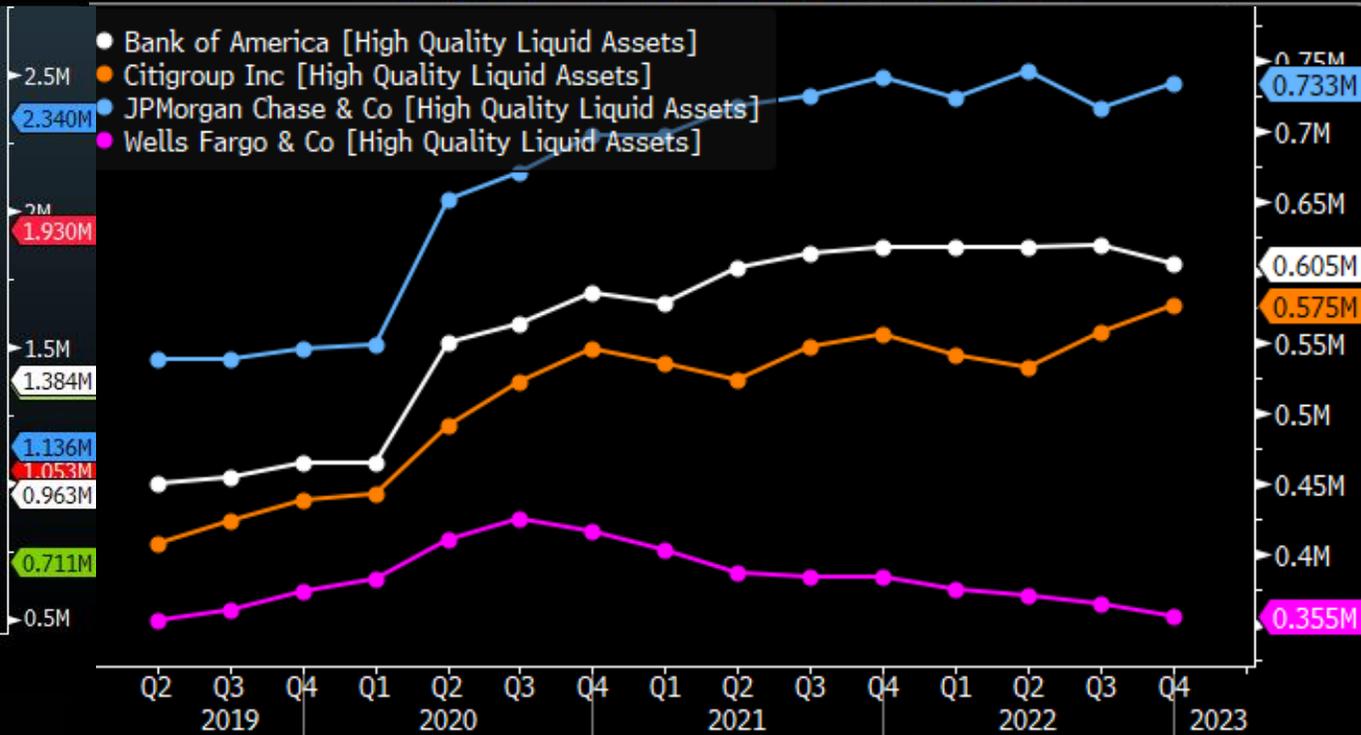
Source: Bloomberg Intelligence

# Biggest US Banks' Liquidity Remains Healthy as Balance Sheets "Normalize"

Big U.S. Banks: Loan, Deposit Growth Trends



Big U.S. Banks' High-Quality Liquid Assets



Source: Bloomberg Intelligence, Company Filings

# Banking Turmoil and Ripple Effects Across Financials

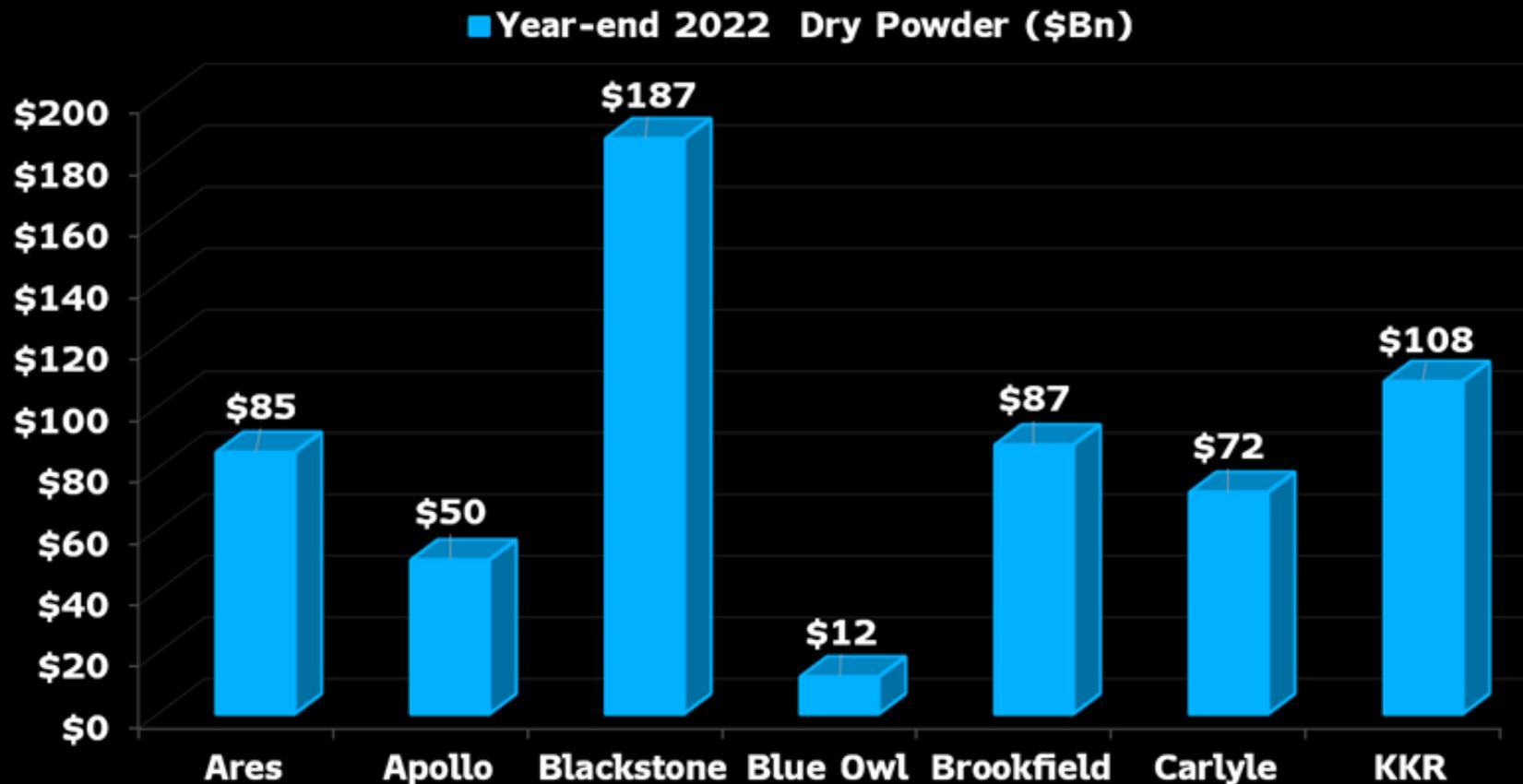


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**David Havens**

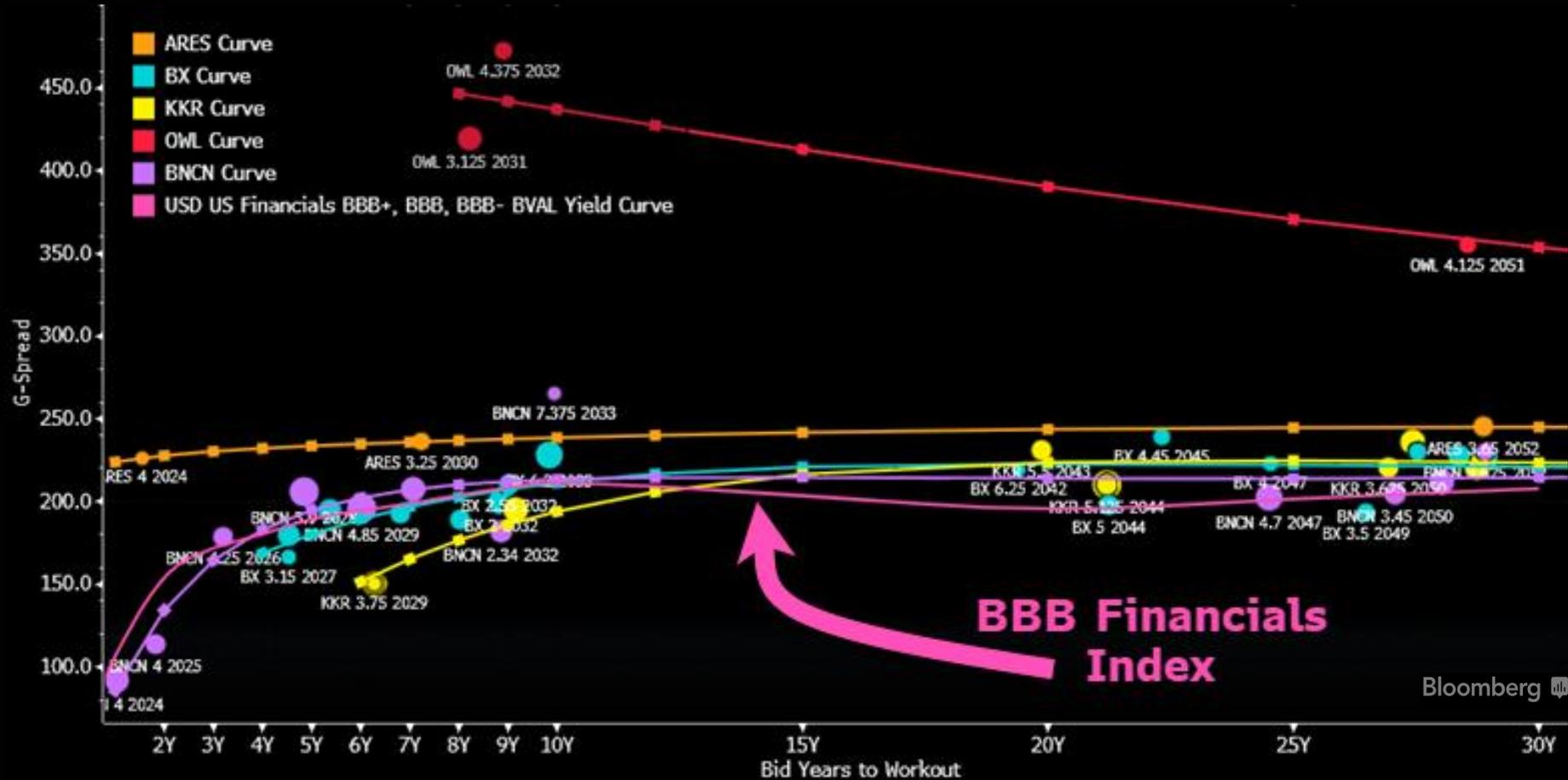
US Financials Credit Analyst  
Bloomberg Intelligence

# For Alternative Asset Managers – A Double-edged Sword



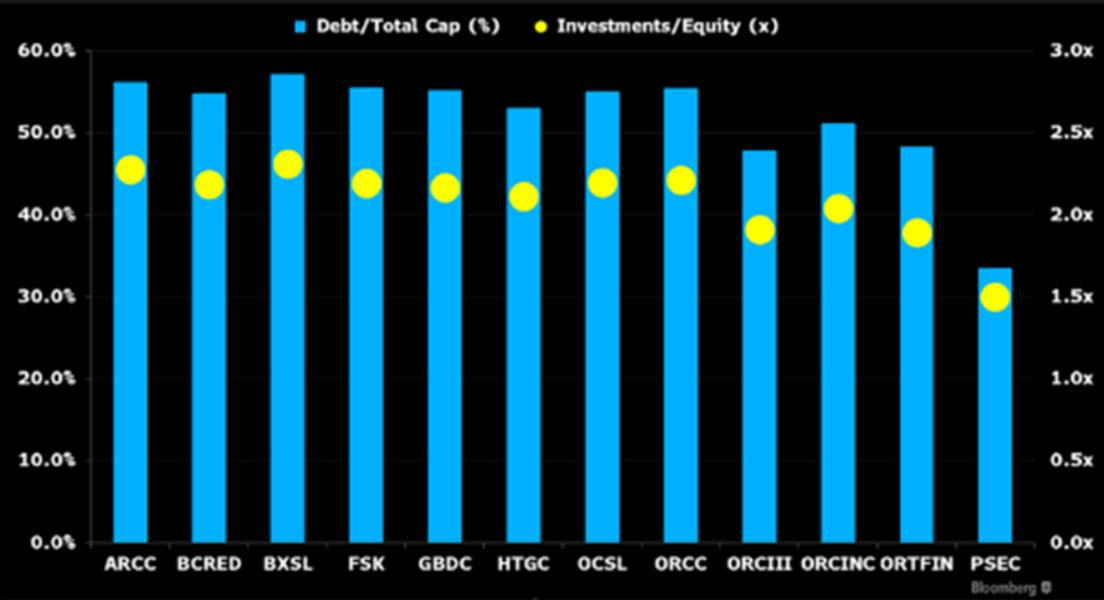
Bloomberg 

# Alternative Asset Managers Trade Like BBBs, Or Worse



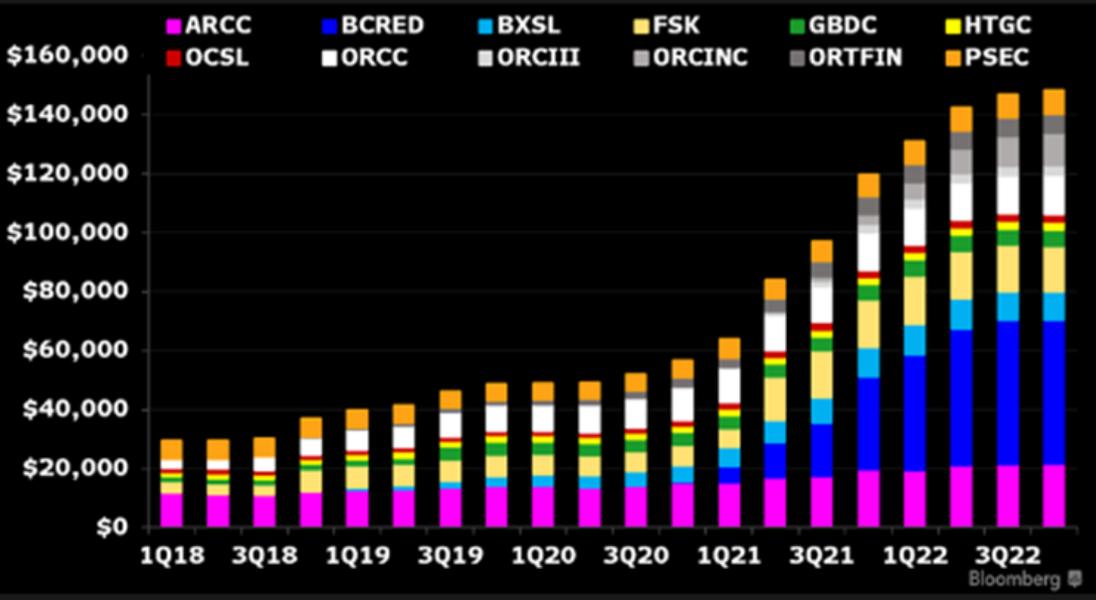
# Dark Age or Golden Age for Private Credit?

Robust Operating Leverage Measures



Source: Bloomberg Intelligence

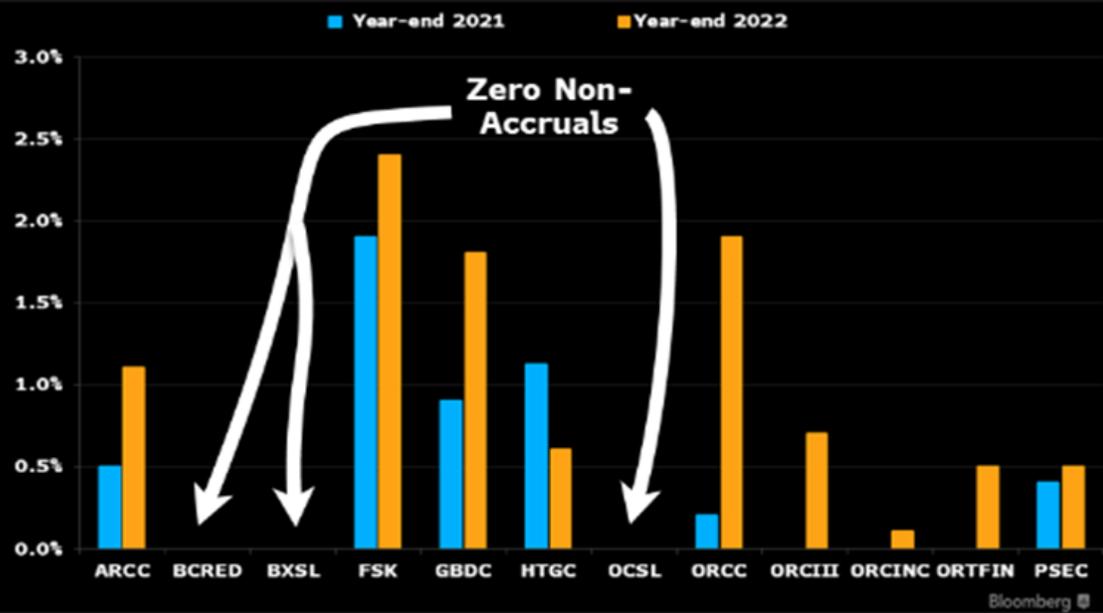
Investment Holdings at Fair Value (\$Mln)



Source: Bloomberg Intelligence

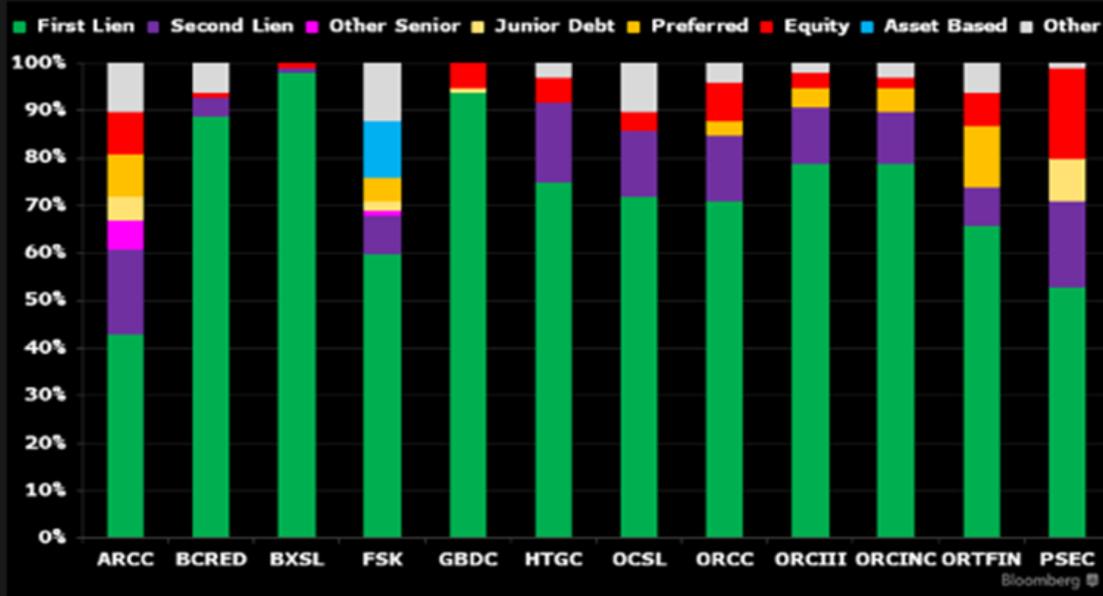
# Dark Age or Golden Age for Private Credit?

Nonaccrual Exposures as of 2021 and 2022 (%)



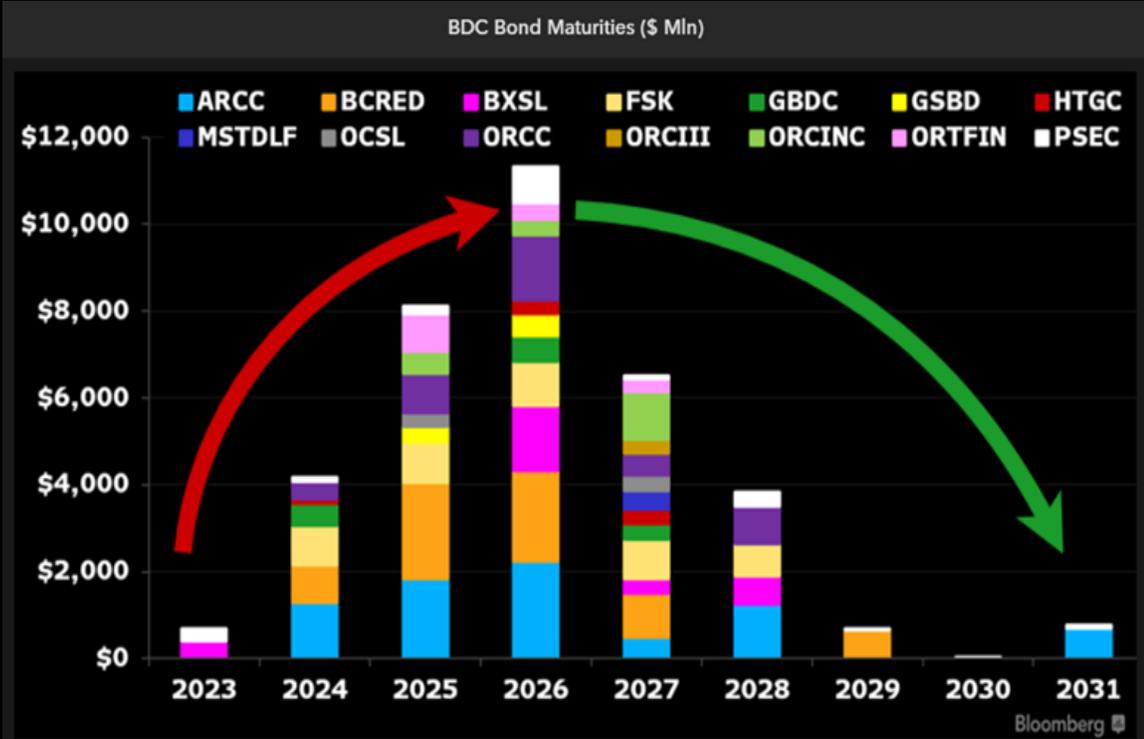
Source: Bloomberg Intelligence

BDC Holdings by Investment Structure

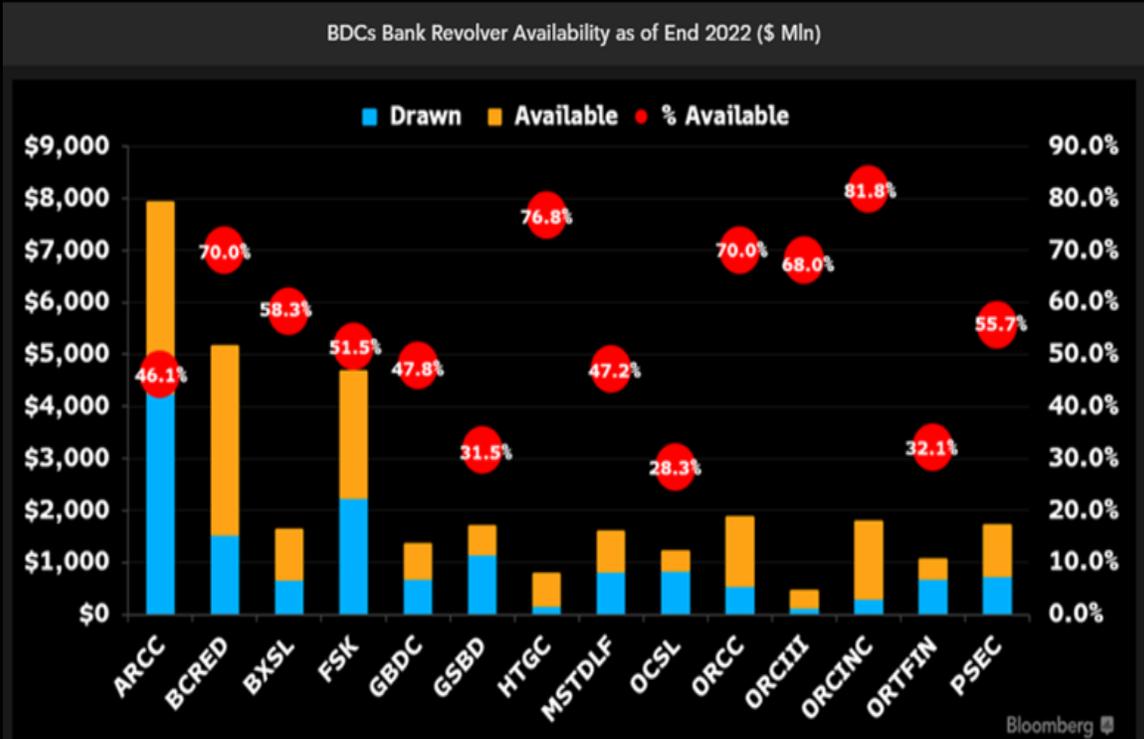


Source: Bloomberg Intelligence

# Dark Age or Golden Age for Private Credit?



Source: Bloomberg Intelligence



Source: Bloomberg Intelligence



# Banking Turmoil and Ripple Effects Across Financials

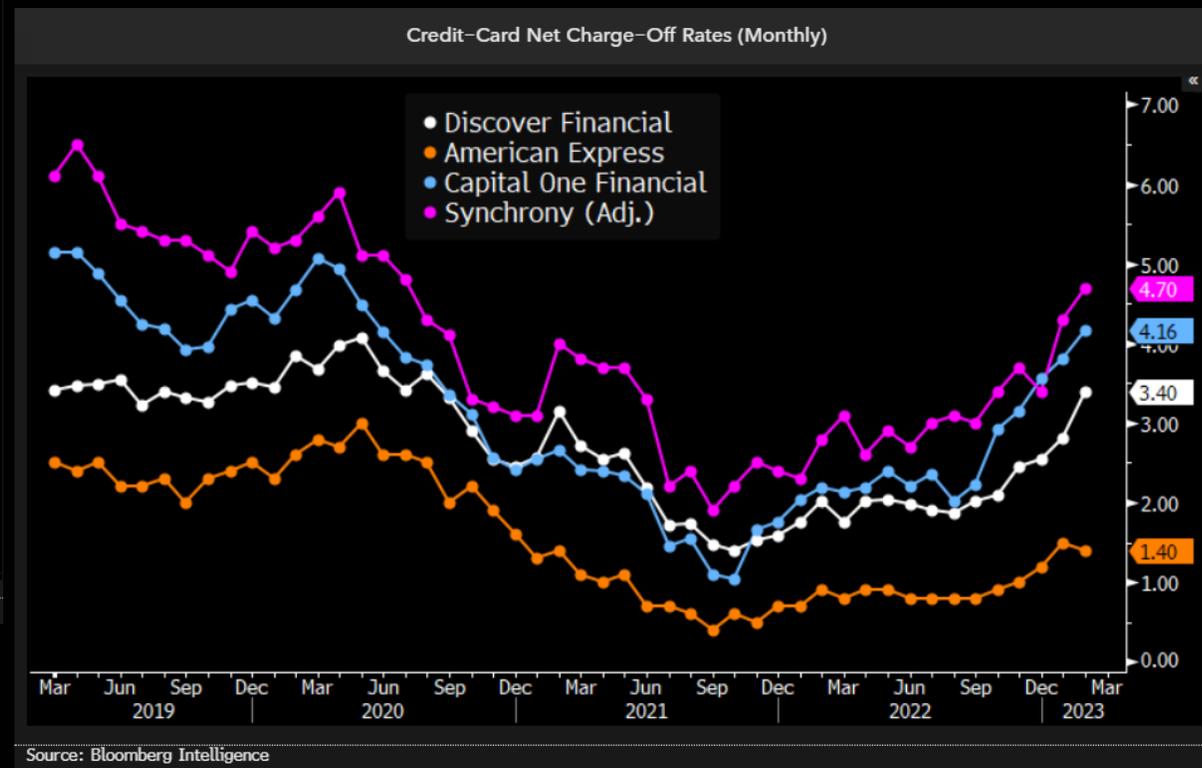
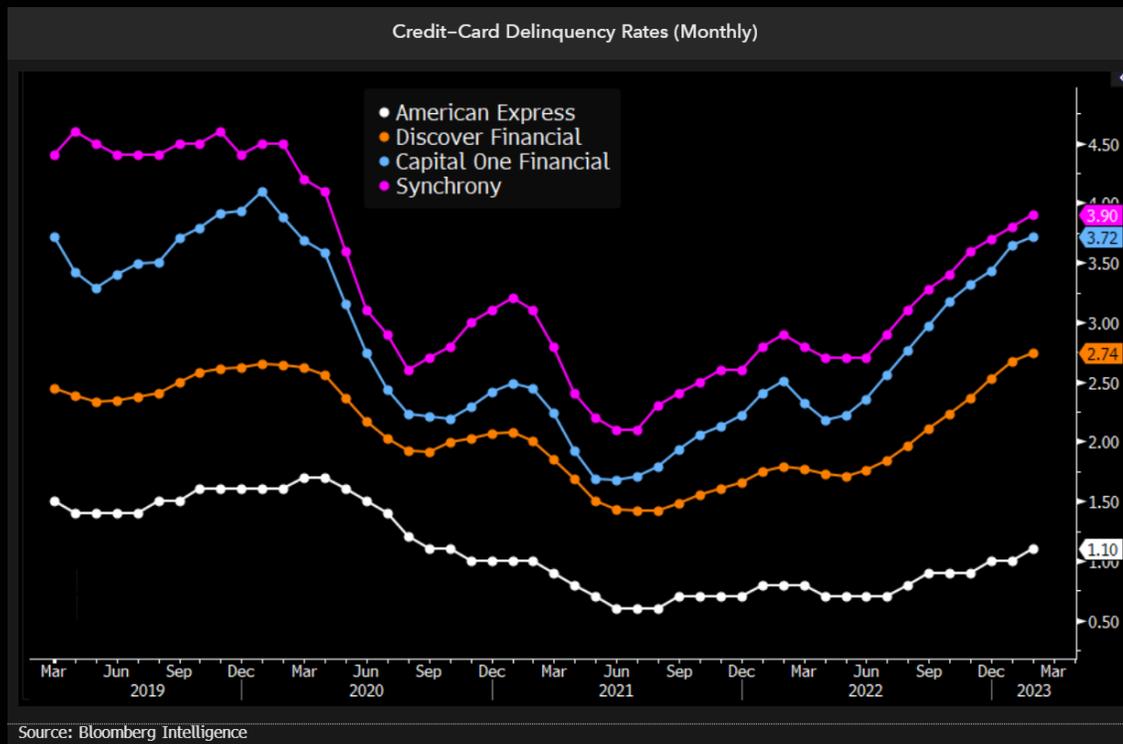


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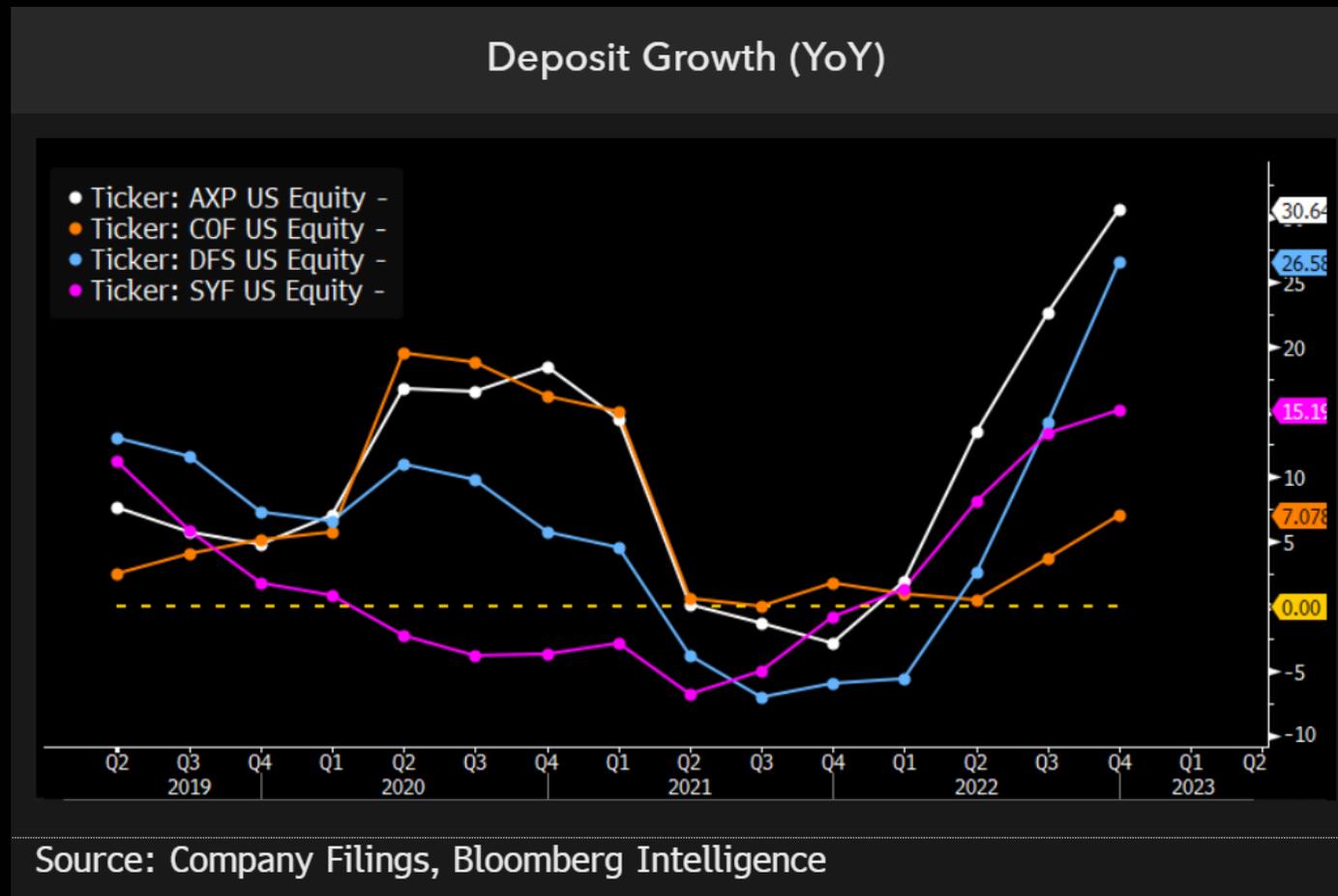
**Himanshu Bakshi**

Global Financials Credit Analyst  
Bloomberg Intelligence

# Banking Crisis All at Once, But Quiet on the Card Front, for Now



# Card Issuers' Deposits Are Less Stable, But Flight Risk Is Low



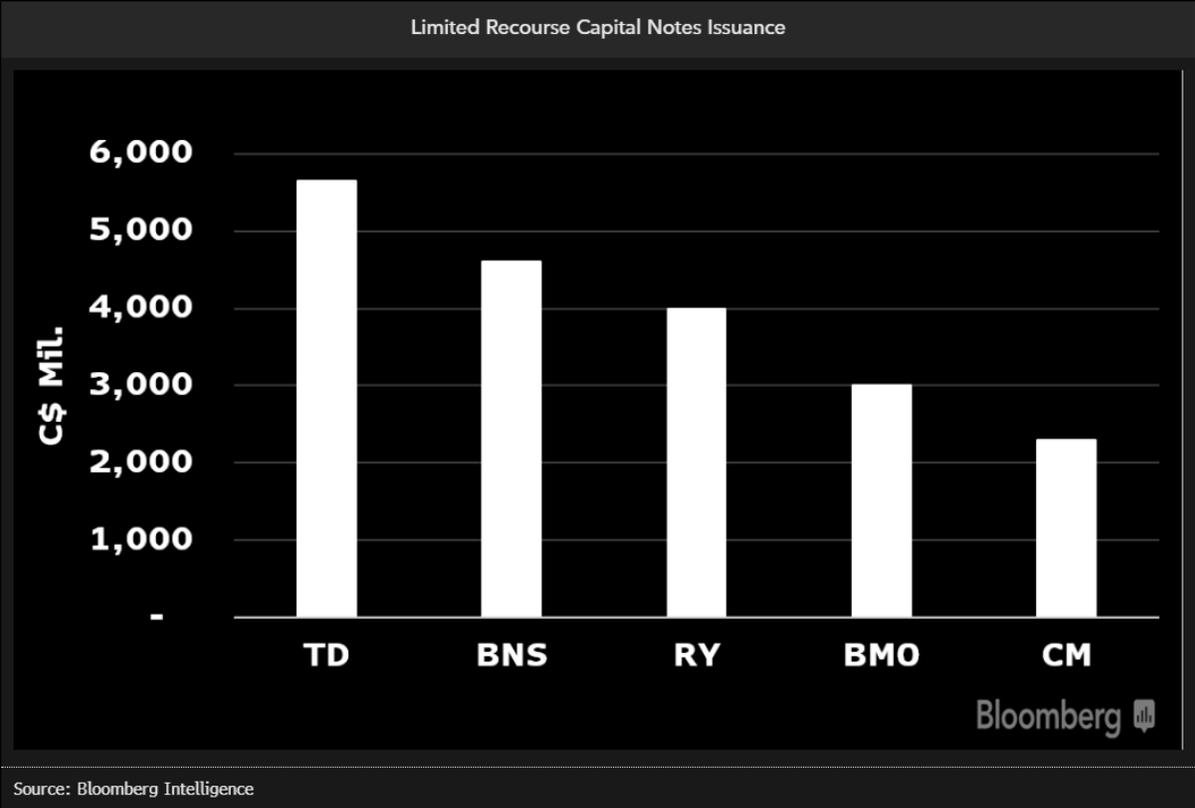
# Canadian Banks' AT1 Wouldn't Meet Same Fate as at Credit Suisse

## Statement

"Canada's capital regime preserves creditor hierarchy which helps to maintain financial stability. If a deposit-taking bank reaches the point of non-viability, OSFI's capital guidelines require Additional Tier 1 and Tier 2 capital instruments to be converted into common shares in a manner that respects the hierarchy of claims in liquidation. This results in significant dilution to existing common shareholders. Such a conversion ensures that Additional Tier 1 and Tier 2 holders are entitled to a more favorable economic outcome than existing common shareholders who would be the first to suffer losses."

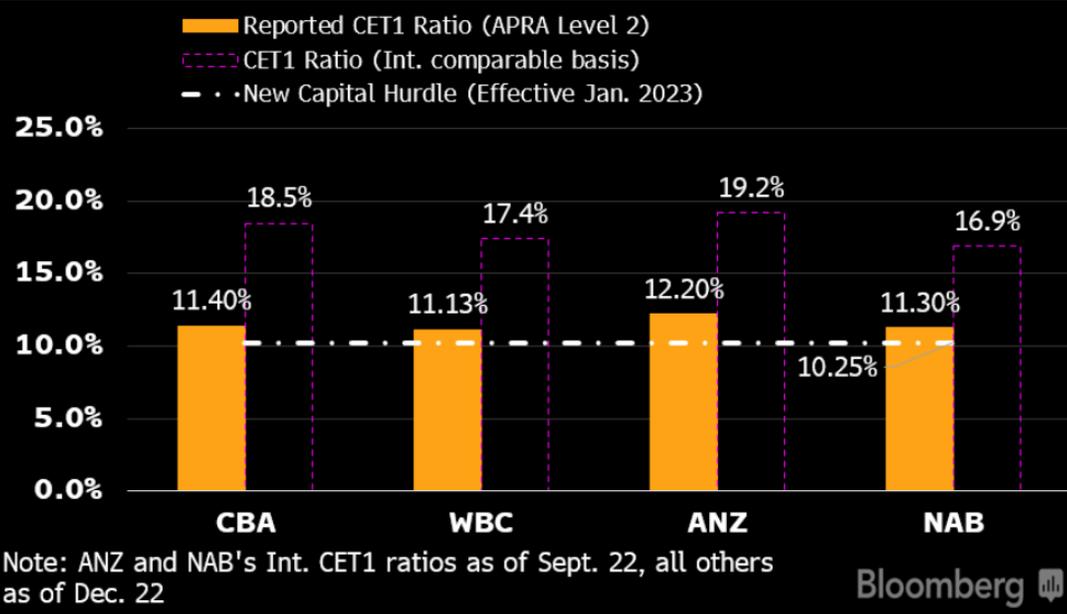
Office of the Superintendent of Financial Institutions

OSFI's Website, March 20, 2023



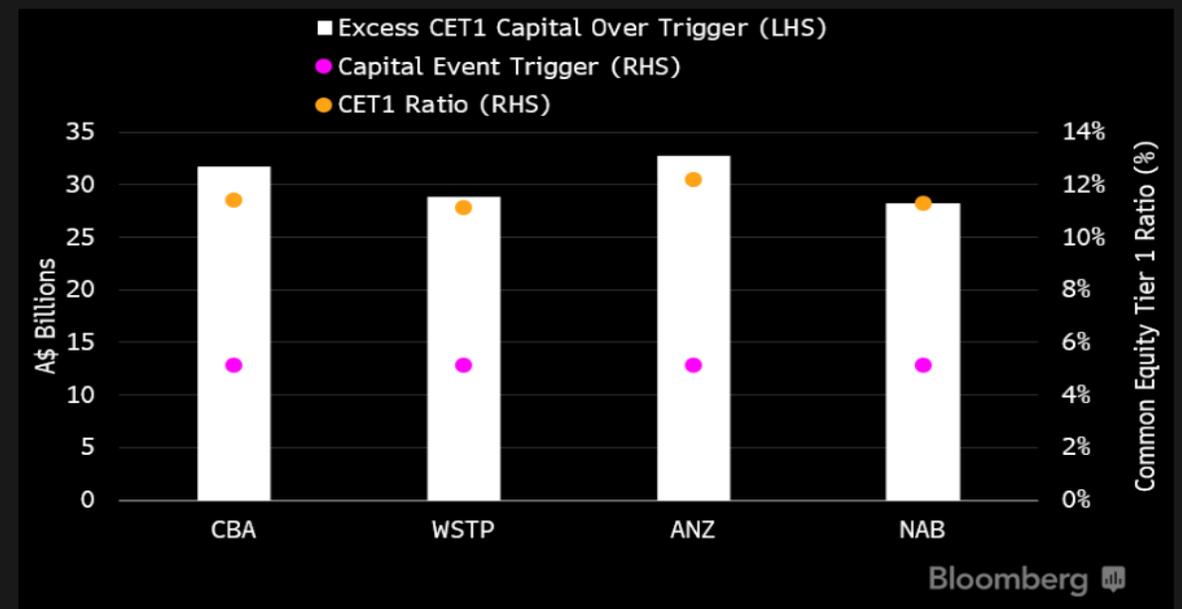
# CoCos Down Under? A\$30 Billion AT1 Cushion for Australian Banks

CET1 Requirements and Ratios



Source: Company Filings, Bloomberg Intelligence

CET1 Cushion Over CoCos' Trigger



Source: Bloomberg Intelligence

# Health and Outlook of the Global Consumer with the impact on Consumer & Industrial Sectors

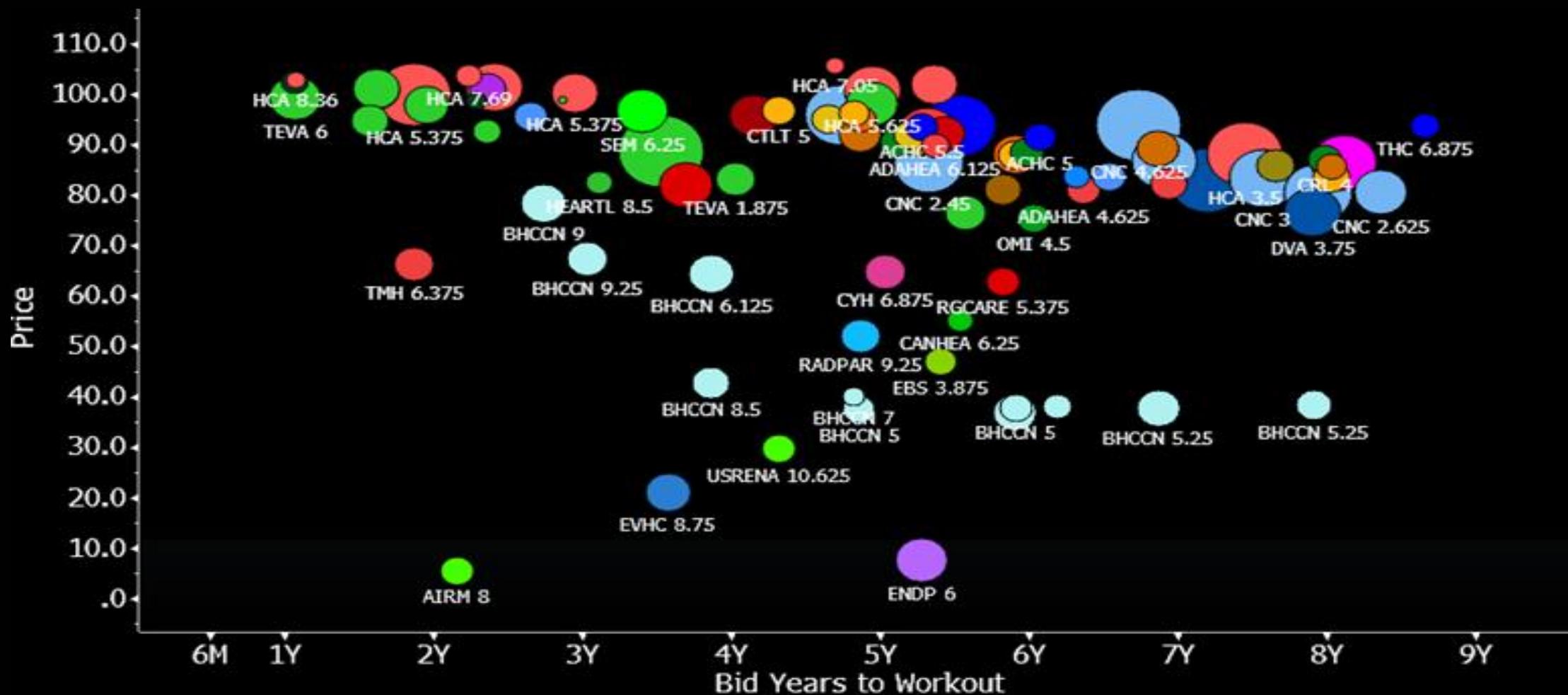


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**Mike Holland**

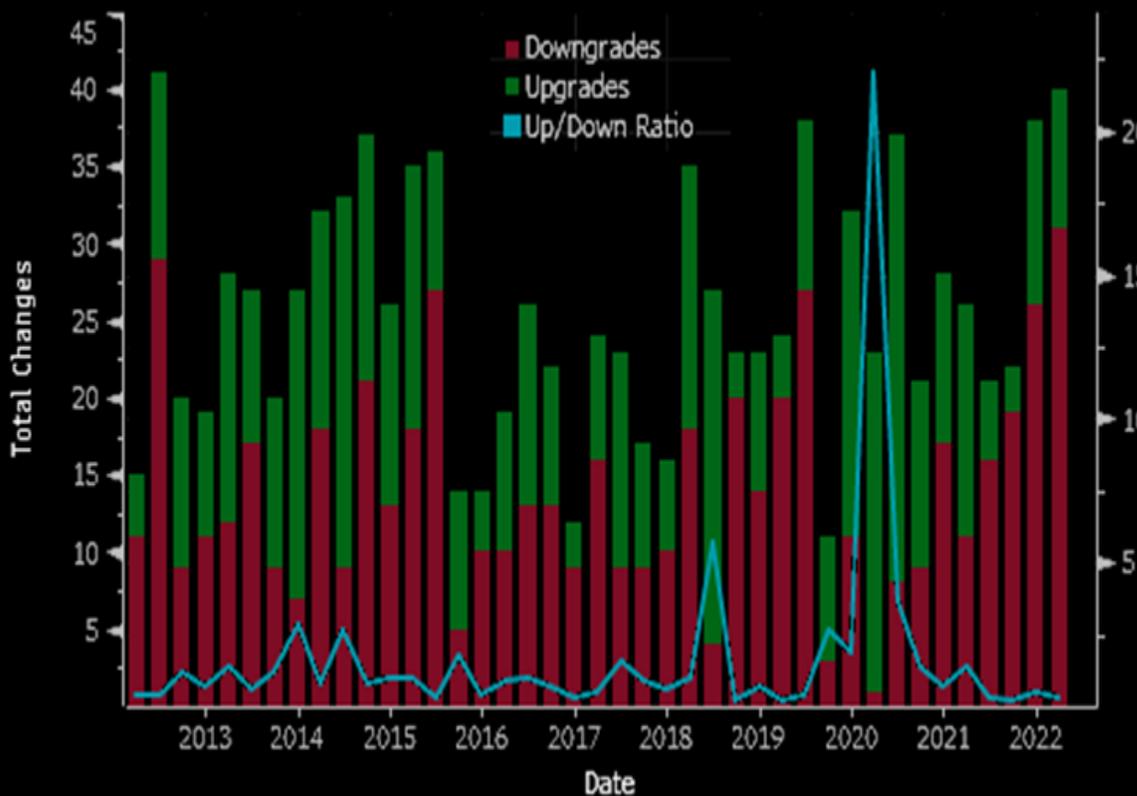
Healthcare Credit Analyst  
Bloomberg Intelligence

# High Yield Bond Prices Still Heavy....

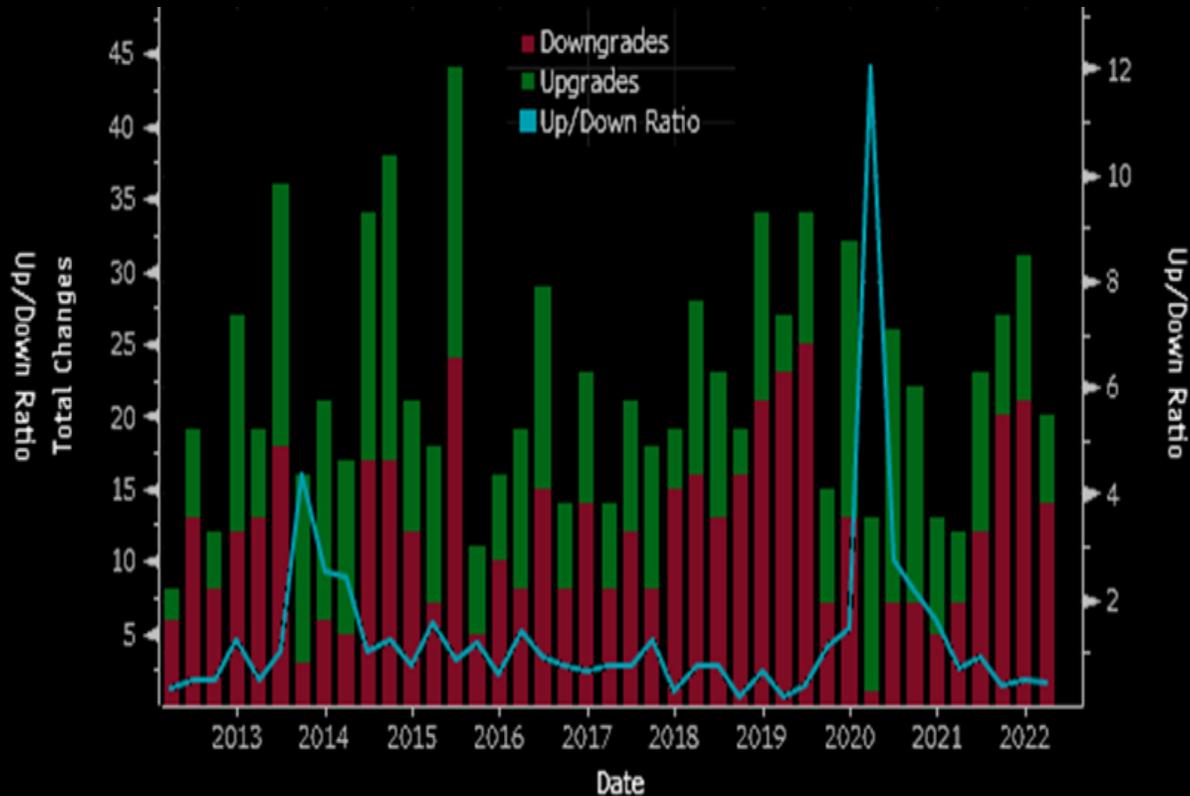


# Negative Ratings Trends Across Both HY and IG...

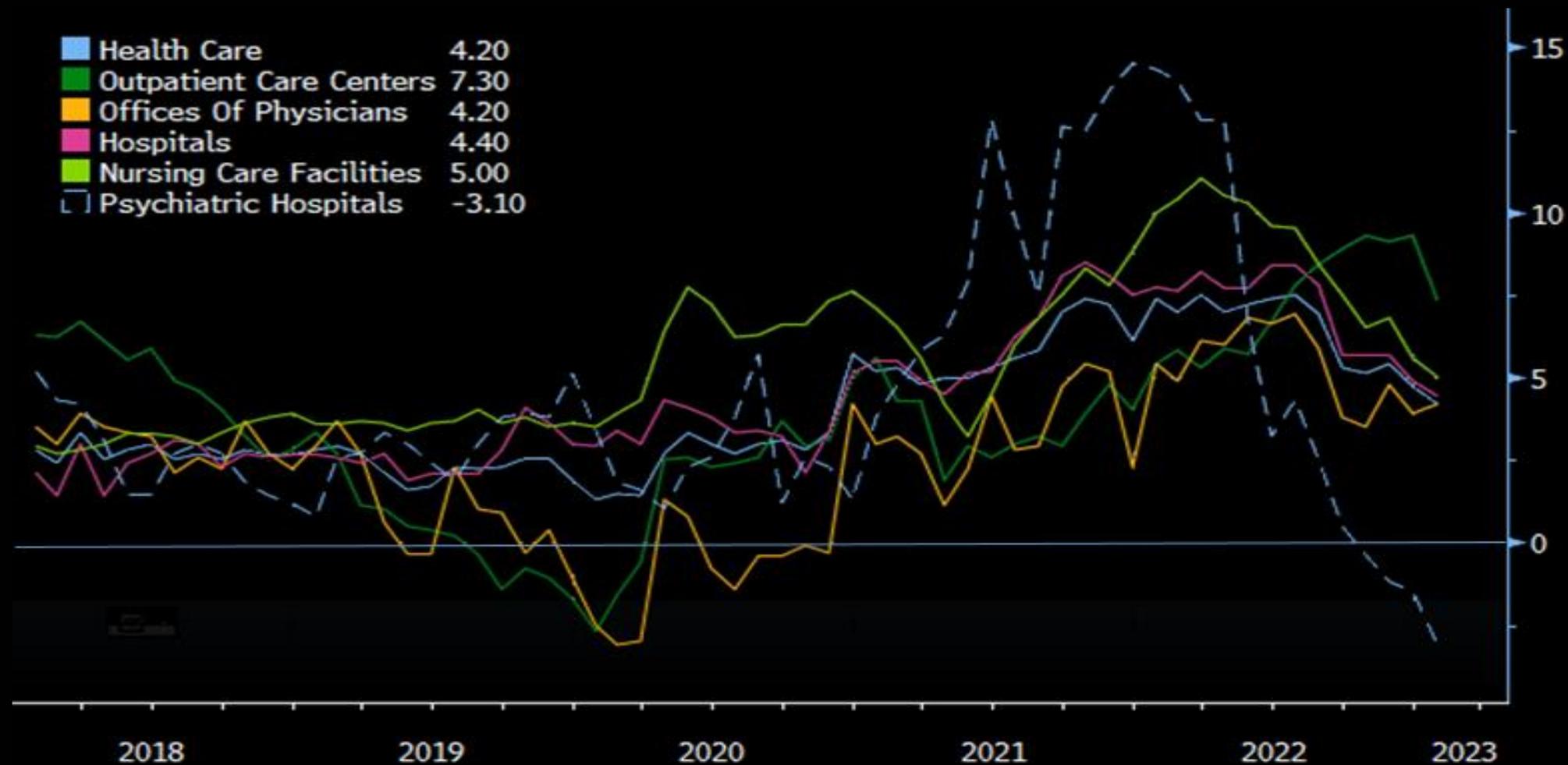
## Moody's Healthcare Trends



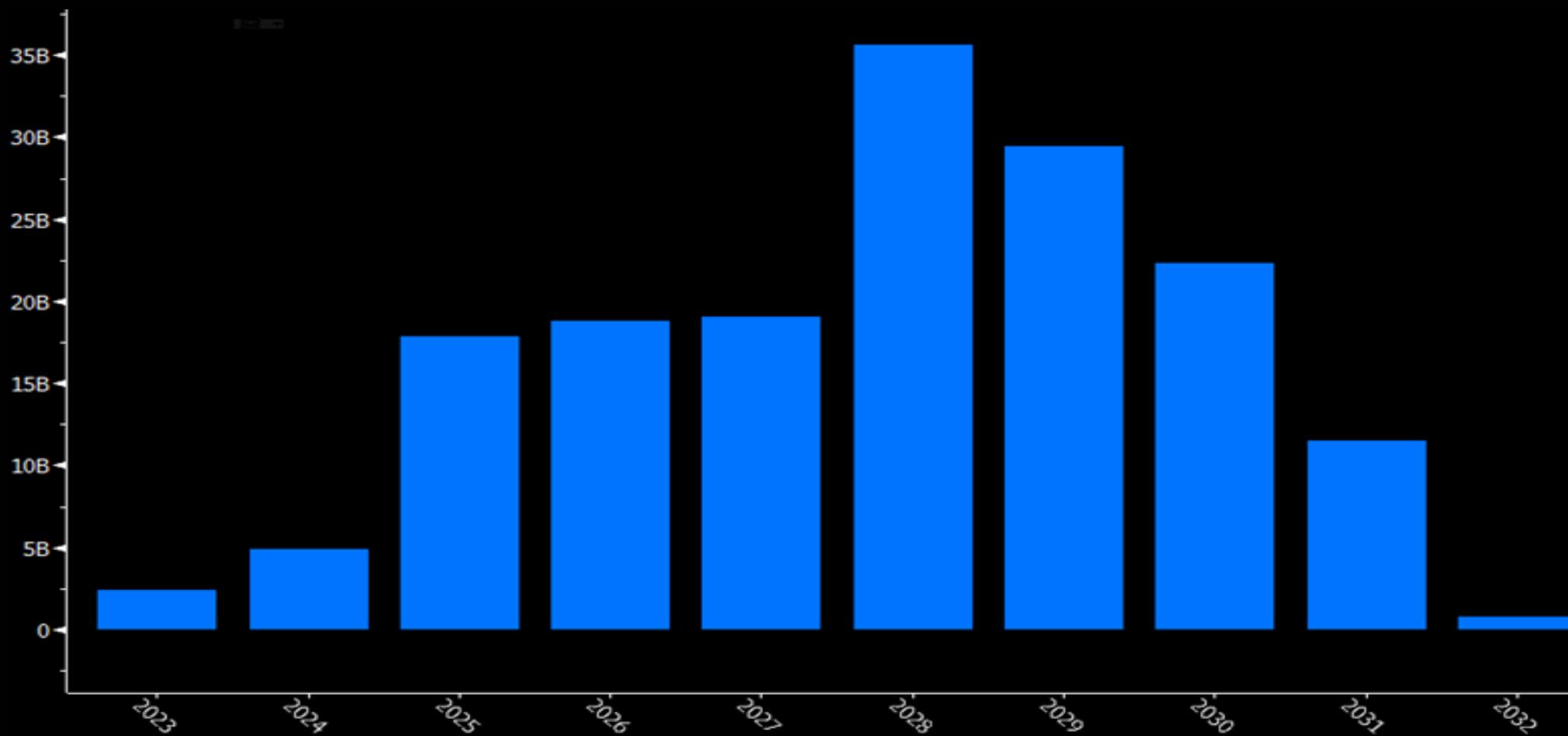
## S&P's Healthcare Trends



# Labor Costs Declining Off Peak...

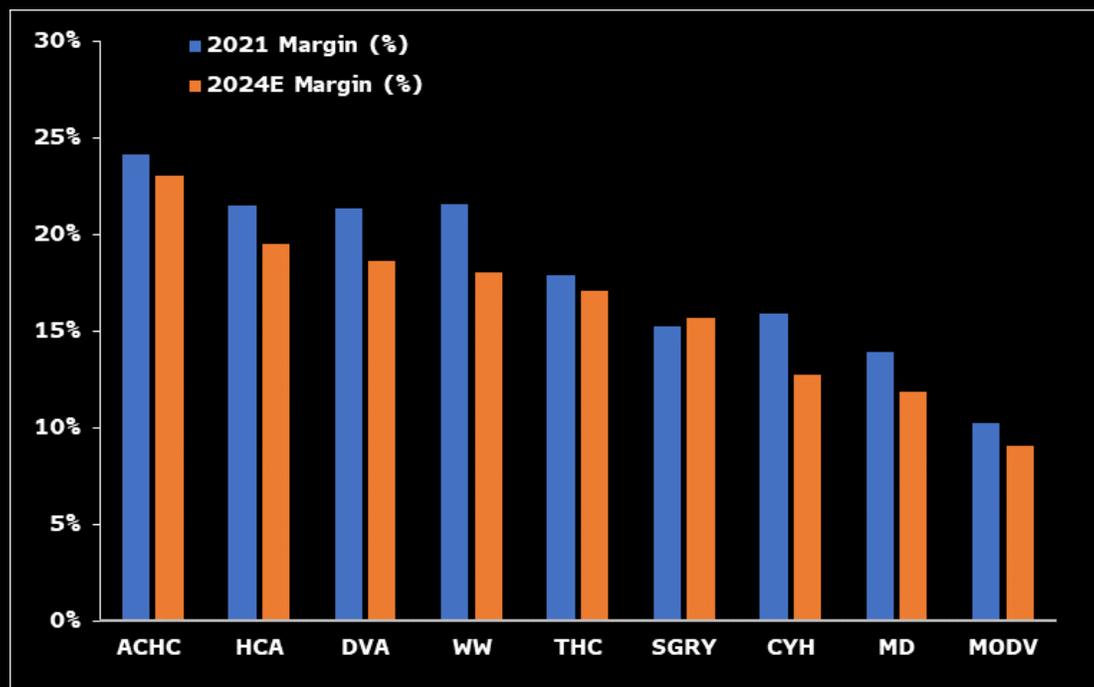


# Near-Term Refi Risk Low for High Yield Healthcare...

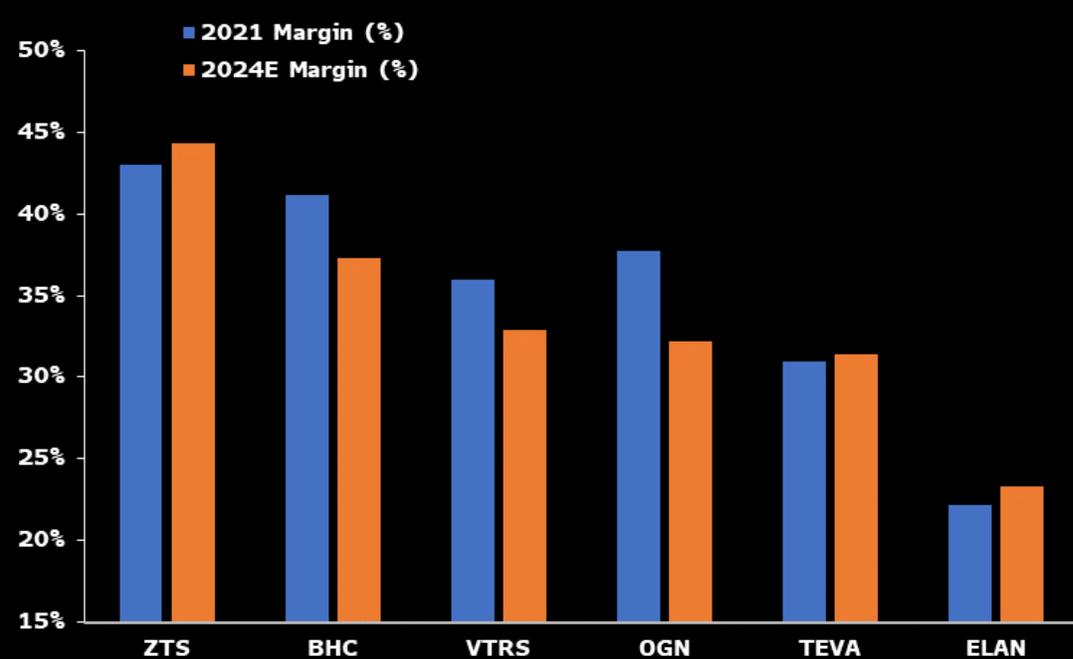


# Thinning Margins for Providers, As Pharma's Mixed...

## Provider Adjusted Ebitda Margins (%)



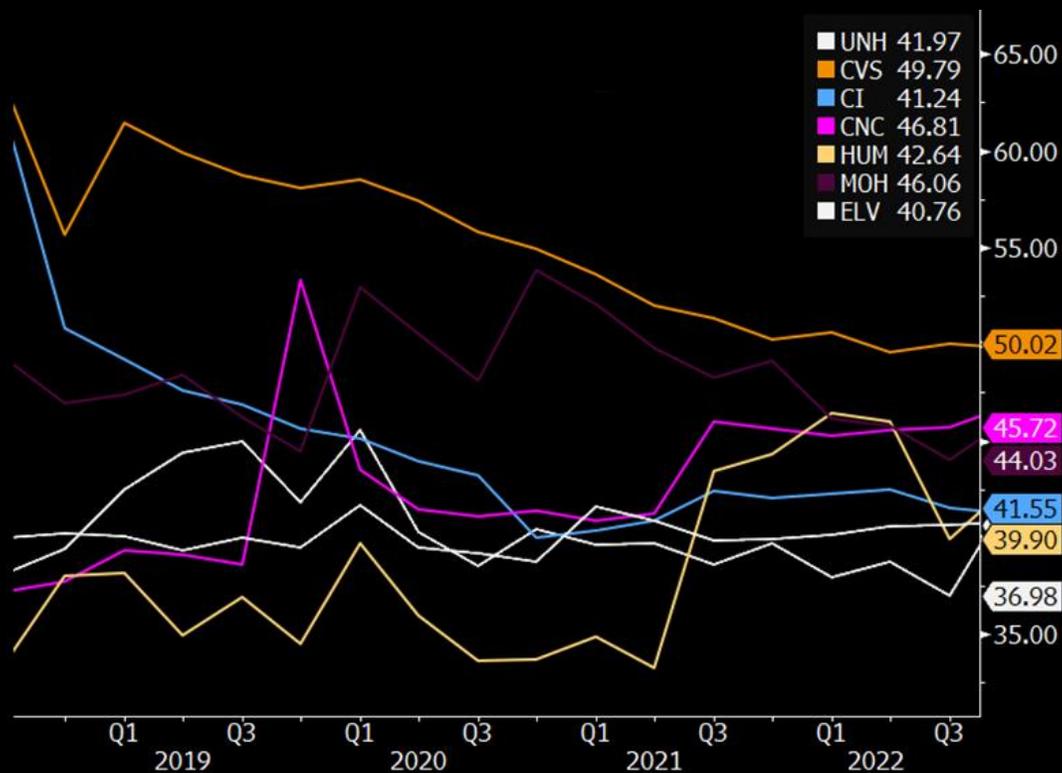
## Pharma Adjusted Ebitda Margins (%)



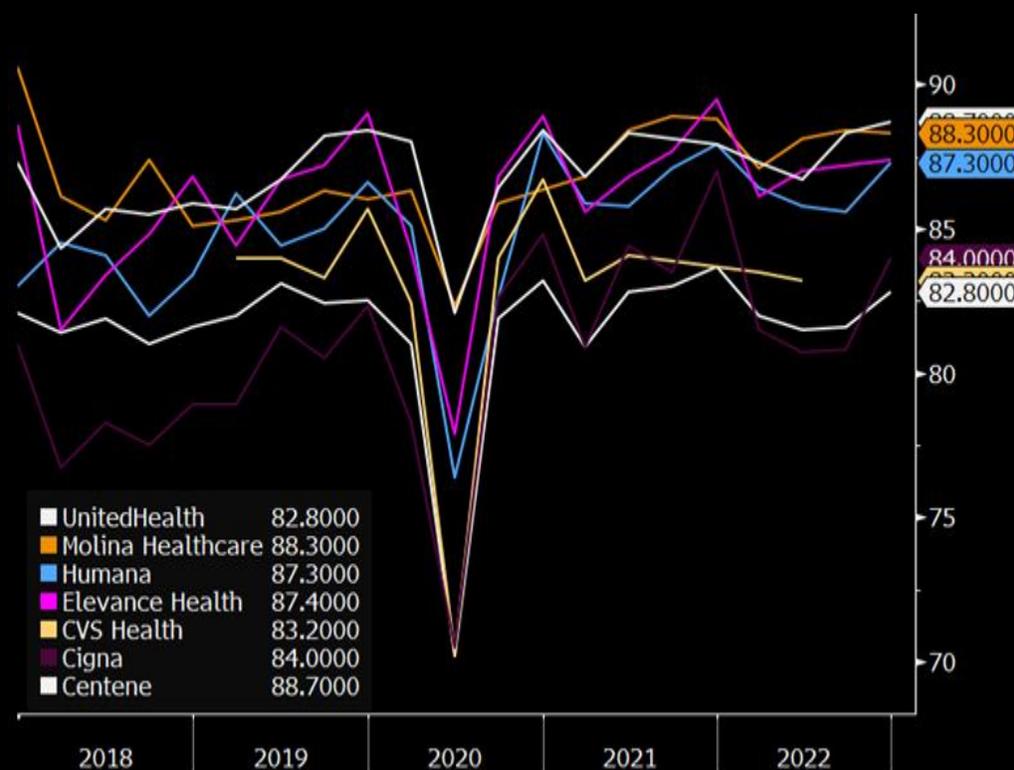
Source: Bloomberg Data, Bloomberg Estimates

# Payors' Debt To Cap and MLRs Normalizing...

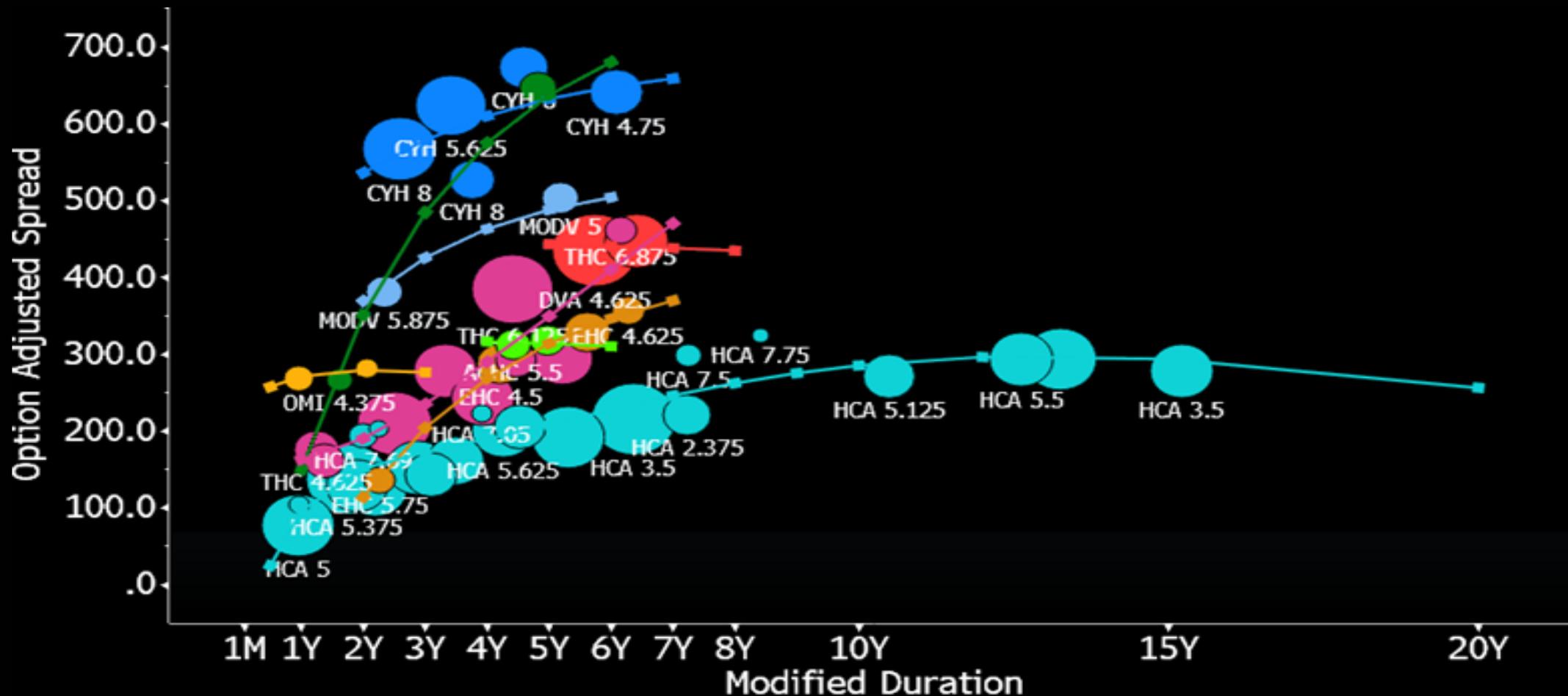
## Debt to Capital Ratios



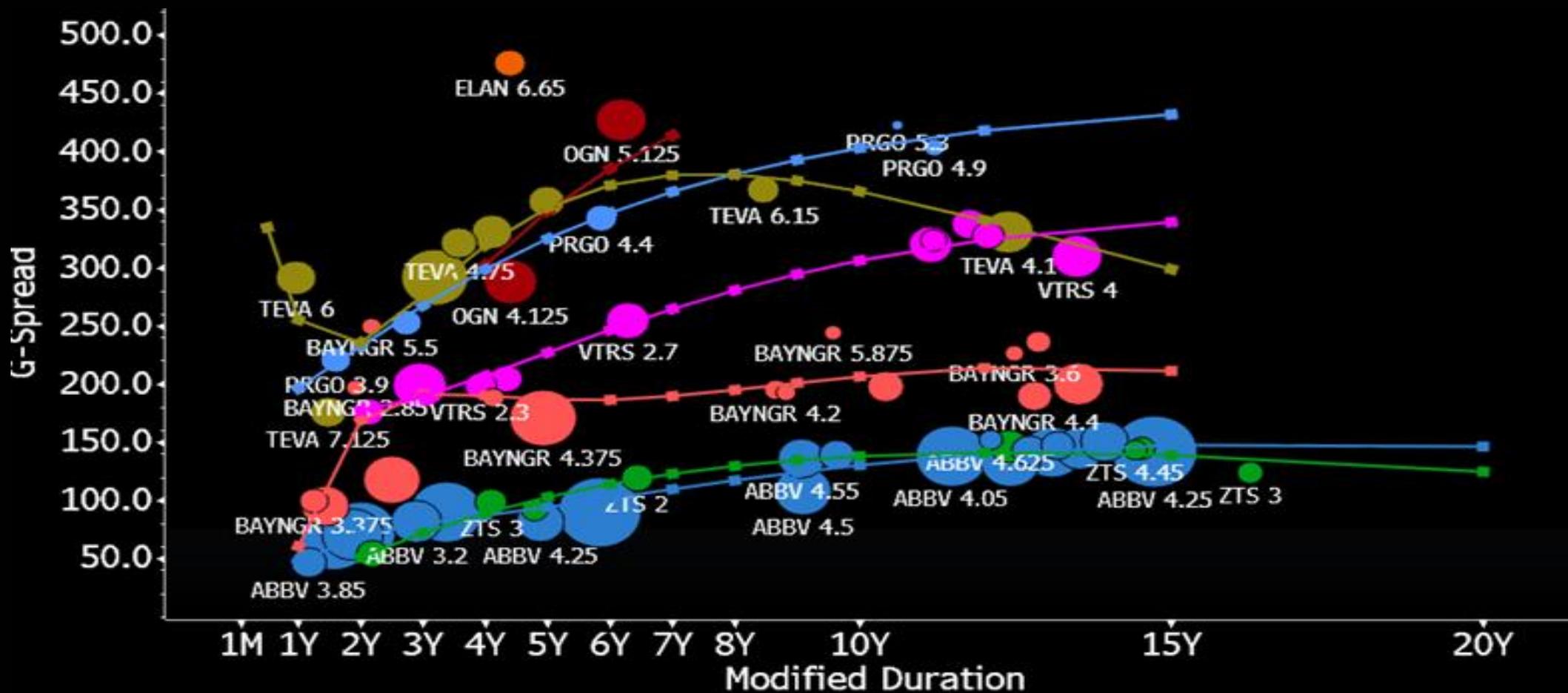
## Medical Loss Ratios (%)



# Provider Spreads Reflect Fundamental Dispersion...



# Pharma Spreads, Excluding Distressed Outliers...





# Health and Outlook of the Global Consumer with the impact on Consumer & Industrial Sectors



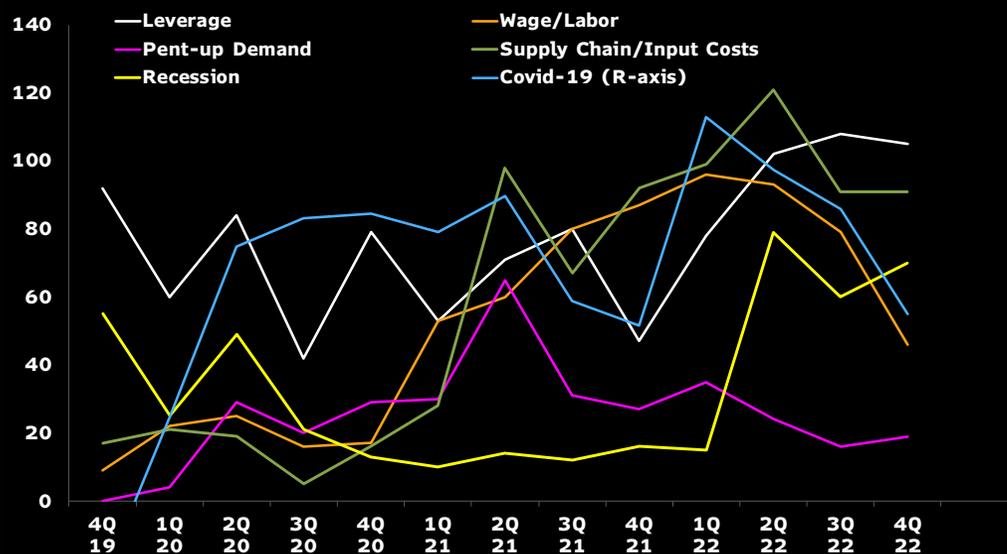
**Jody Lurie**

Leisure, Lodging, Gaming,  
Restaurants, & Rental Cars Credit  
Analyst

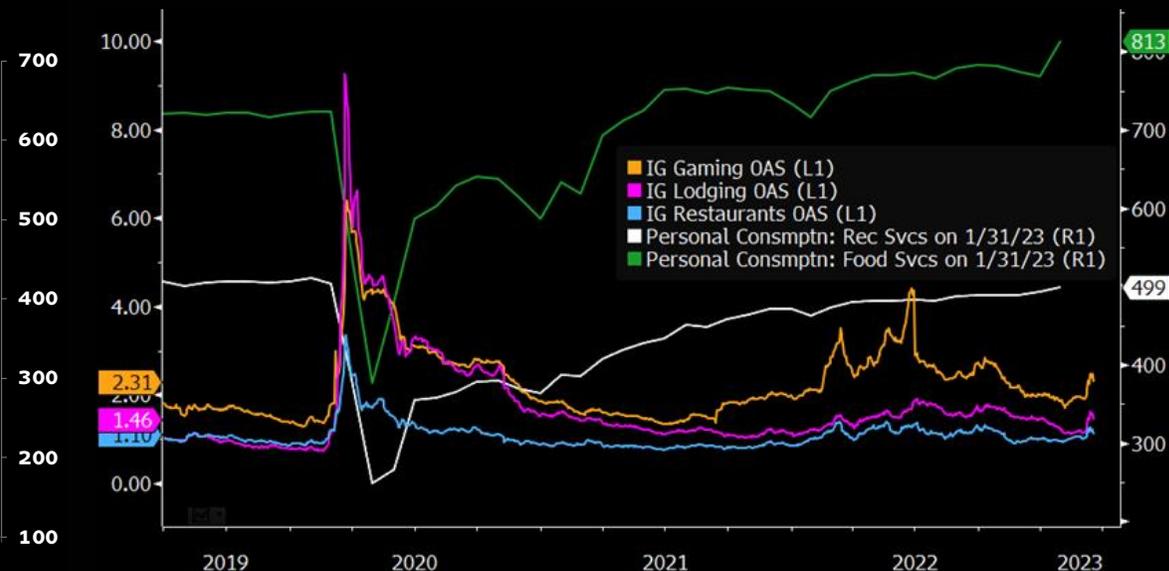
Bloomberg Intelligence

# Economic Backdrop: Company Thinking and the Consumer

## Topics of Focus By Management Teams



## Consumer Spending vs. Credit Spreads



Source: Bloomberg Intelligence; Bloomberg transcript analyzer (TA<GO>) in earnings call, conference/presentation, shareholder meeting, M&A call for related words to each category; tickers CAR, CCL, CHH, CZR, DRI, FUN, H, HLT, HTZ, LVS, MAR, MCD, MGM, NCLH, RCL, SBUX, SEAS, SIX, STAY, TNL, WYNN, YUM; \*1Q22 through 03/21/2023  
 Access right chart G #BI 109050 on the Terminal: <https://bloom.bg/3H8PnVy>

# Labor Shortages and Wage Inflation

## Leisure Hourly Earnings vs Job Openings



## Leisure & Hospitality Unemployment



Source: Bloomberg Intelligence; Access left chart G #BI 111215 on the Terminal: <https://bloom.bg/3BrloUw>  
Access right chart UEMPLAIS Index GP on the Terminal: <https://bloom.bg/3bWHTq7>

# Universe Ratings Matrix

## High Grade

High Grade Universe Rating Matrix								
Company	LT Issuer Rating	Recent Report			Outlook			Leverage
	Moody's / S&P / Fitch	Moody's	S&P	Fitch	Moody's	S&P	Fitch	
DARDEN RESTAURAN	Baa2 / BBB / BBB	View	View	View	●	●	●	1.3x
MCDONALDS CORP	Baa1 / BBB+ / WD	View	View	View	●	●	●	2.8x
STARBUCKS CORP	Baa1 / BBB+ / WD	View	View	View	●	●	●	2.1x
CHOICE HOTELS	Baa3 / BBB- / N.A.	View	View	View	●	●	●	2.3x
HYATT HOTELS-A	Baa3 / BBB- / BBB-	View	View	View	●	●	●	2.9x
MARRIOTT INTL-A	Baa2 / BBB / WD	View	View	View	●	●	●	2.4x

Source: Company Filings, Bloomberg

Note: Using Issuer LT rating unless otherwise noted.

\* FFO Adjusted Leverage

Outlook Key:

● Negative ● Stable ● Positive ● Not Applicable

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## High Yield

High Yield Universe Rating Matrix								
Company	LT Issuer Rating	Recent Report			Outlook			Leverage
	Moody's / S&P / Fitch	Moody's	S&P	Fitch	Moody's	S&P	Fitch	
AVIS BUDGET GROU	B2 / BB - / N.A.	View	View	View	●	●	●	9.9x
CAESARS ENTERTAI	B1 / B+ / N.A.	View	View	View	●	●	●	6.5x
CARNIVAL CORP	B2 / B / NR	View	View	View	●	●	●	8.3x
CEDAR FAIR LP	B2 / BB- / N.A.	View	View	View	●	●	●	4.0x
HERTZ GLOBAL HLD	Caa1 / B / N.A.	View	View	View	●	●	●	10.2x
HILTON WORLDWIDE	Ba2 / BB / N.A.	View	View	View	●	●	●	3.0x
LAS VEGAS SANDS	Baa3 / BB+ / BB+	View	View	View	●	●	●	5.9x
MGM RESORTS INTE	B1 / B+ / WD	View	View	View	●	●	●	2.1x
NORWEGIAN CRUISE	B2 / B / N.A.	View	View	View	●	●	●	7.1x
ROYAL CARIBBEAN	B2 / B / N.A.	View	View	View	●	●	●	6.4x
SEAWORLD ENTERTA	B2 / B+ / N.A.	View	View	View	●	●	●	2.8x
SIX FLAGS ENTERT	B2 / B+ / N.A.	View	View	View	●	●	●	4.5x
WYNN RESORTS LTD	B2 / B+ / N.A.	View	View	View	●	●	●	8.2x
YUM! BRANDS INC	Ba2 / BB+ / WD	View	View	View	●	●	●	4.6x

Source: Company Filings, Bloomberg

Note: Using Issuer LT rating unless otherwise noted.

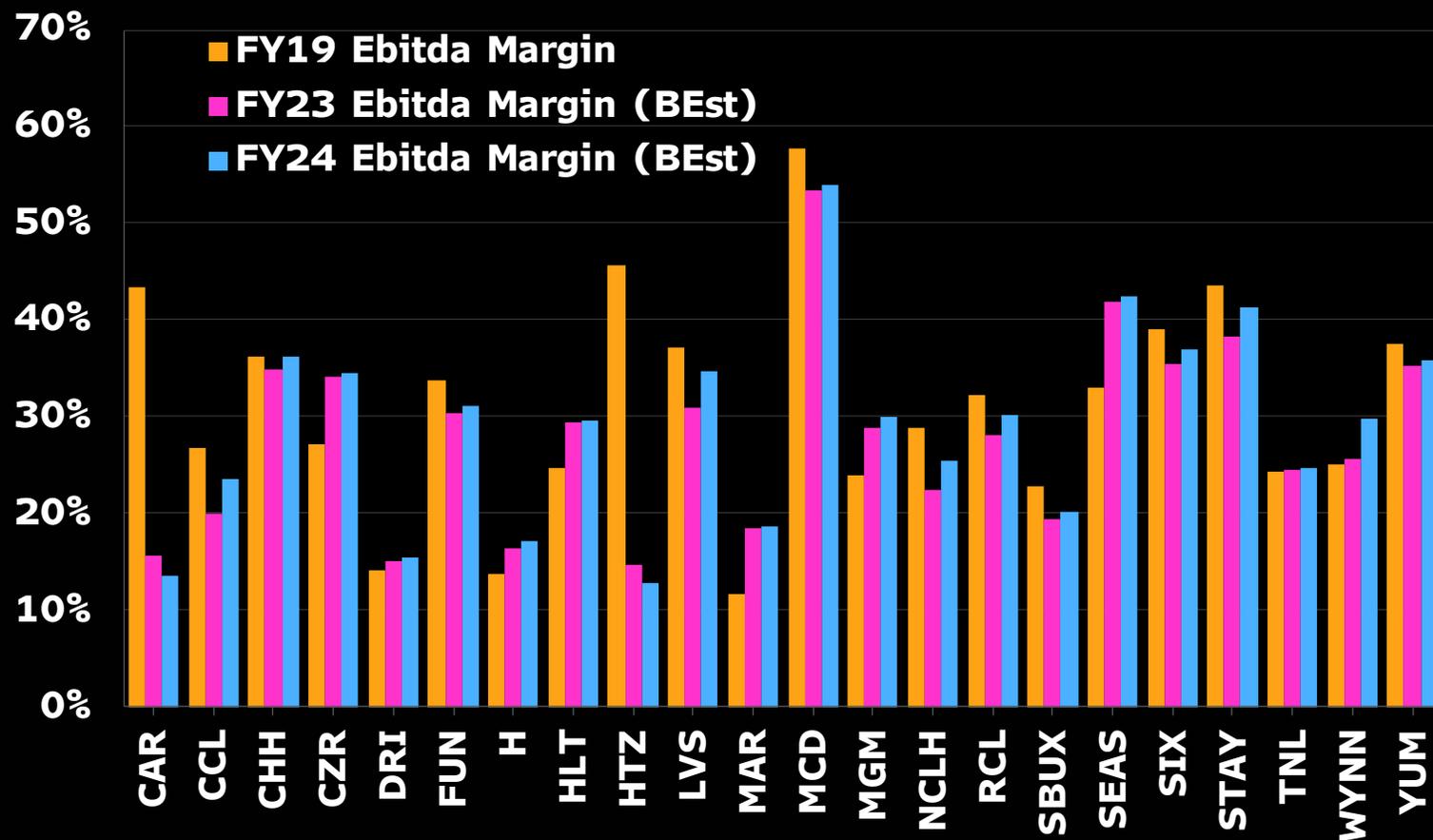
\* FFO Adjusted Leverage

Outlook Key:

● Negative ● Stable ● Positive ● Not Applicable

Bloomberg

# Margins: 2019 vs 2023-24 Estimates



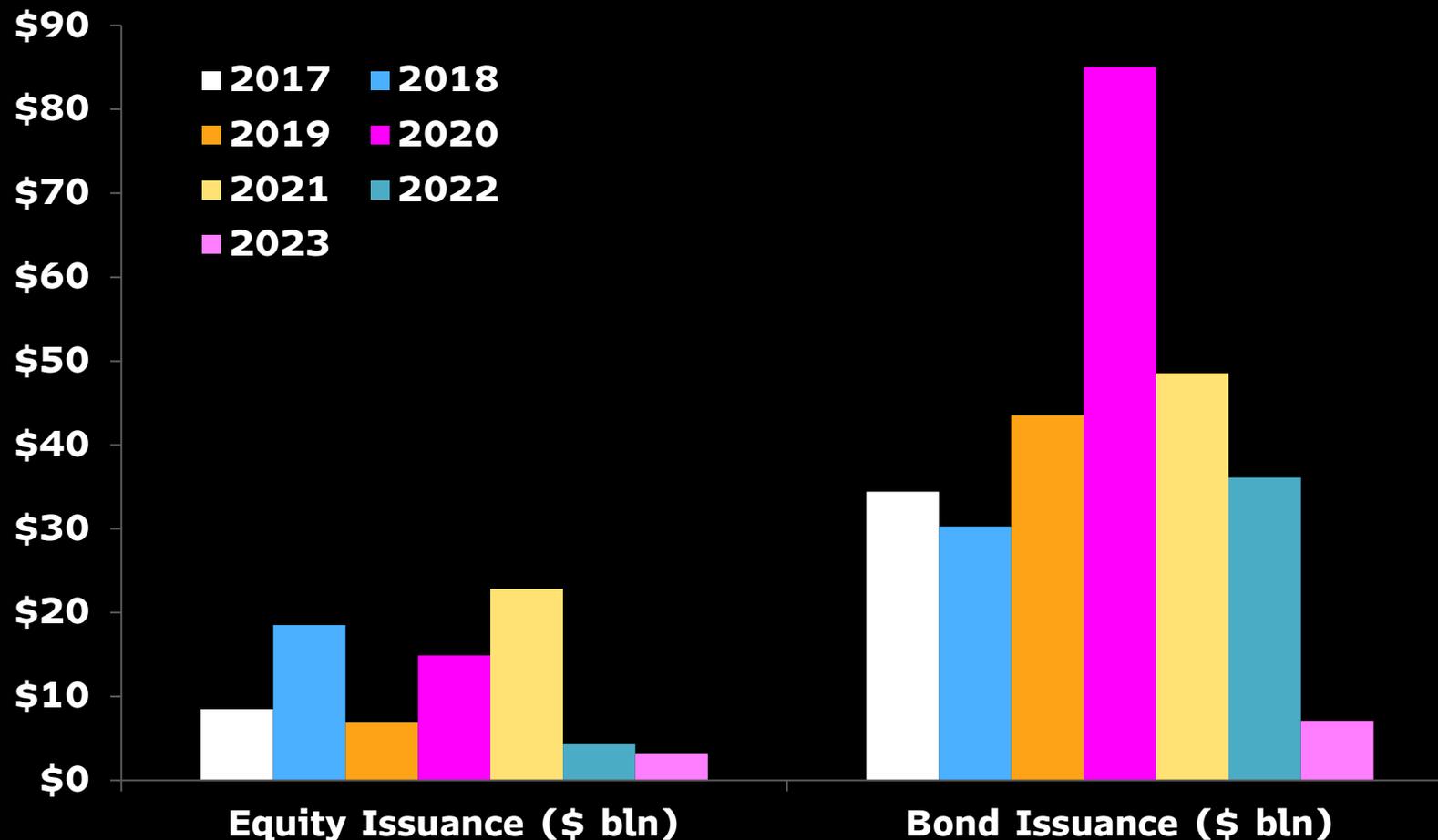
Source: Bloomberg Intelligence; EEO<GO> and MODL<GO> screens on the Terminal for BEst numbers

# High Yield Credit Spreads Over Time



Source: Bloomberg Intelligence; Access G #BI 109210 chart on the Terminal: <https://bloom.bg/3krqRf7>

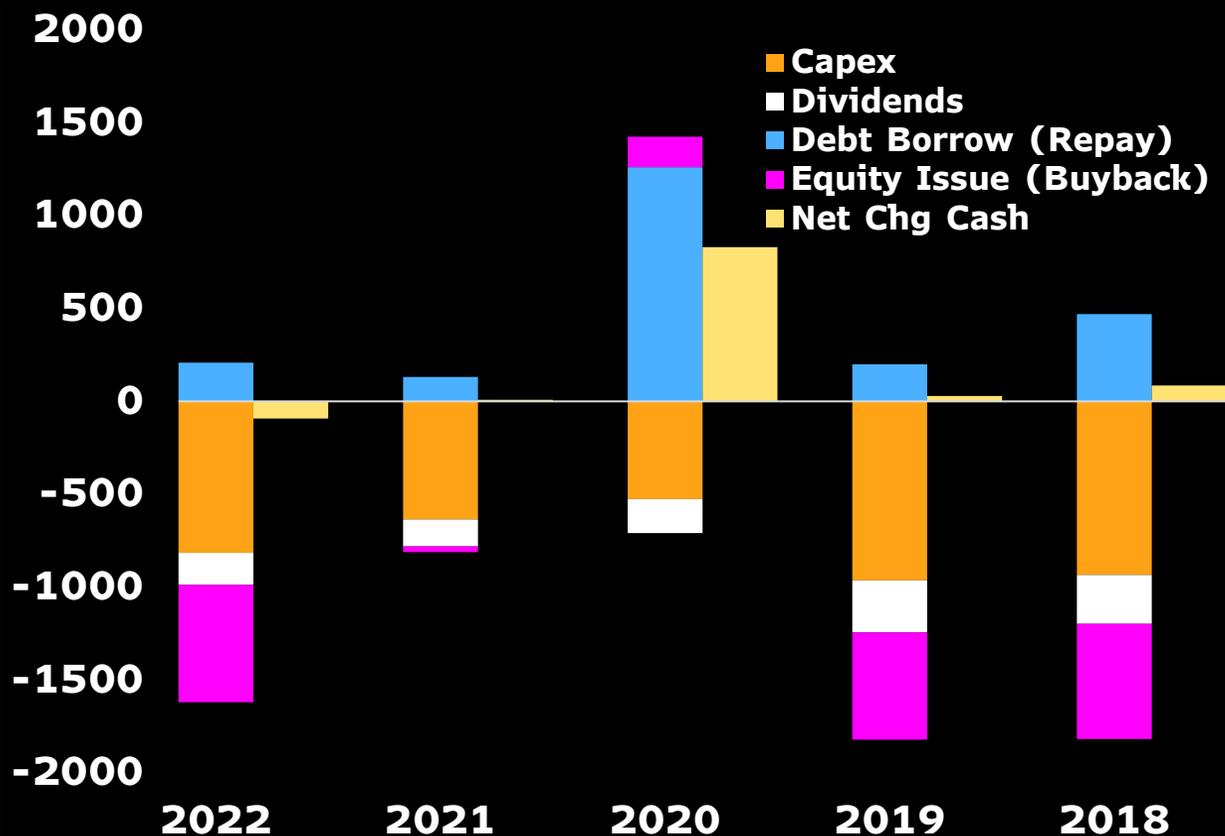
# Sector Issuance Volumes Since 2017



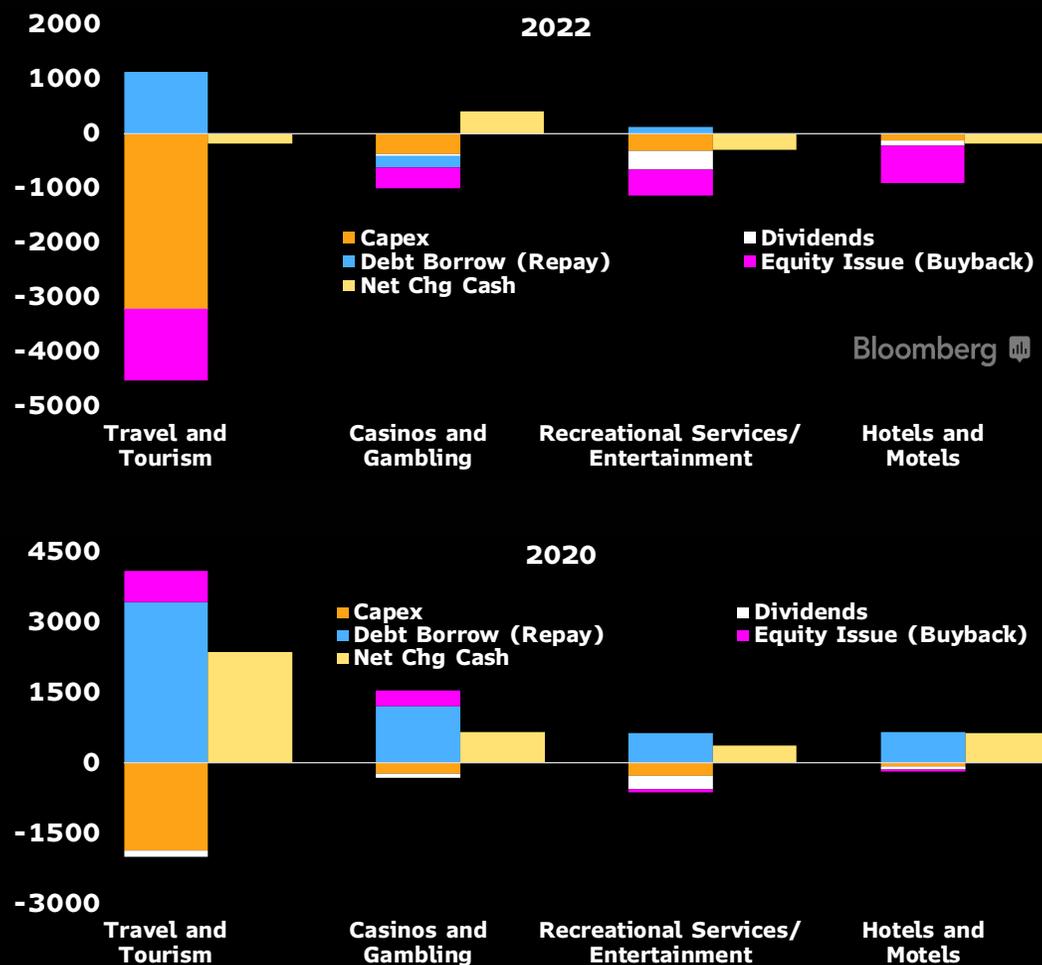
Source: Bloomberg Intelligence; SRCH<GO> and LEAG<GO> custom searches from 01/01/2017 to 03/16/2023

# Cash Sources and Uses

Average Leisure Sector Cash Sources/Uses



Subsector Cash Sources/Uses: 2022 (Above), 2020 (Below)



Source: Bloomberg Intelligence; Used FA<GO> data and screened in EQS<GO> on the Terminal for companies based in the U.S. with at least \$1B in long-term debt outstanding a/o YE2021: Restaurants and Bars, Travel and Tourism, Casinos and Gambling, Hotels and Motels, Recreational Services, Rental and Leasing Services: Consumer

# Credits Under Coverage



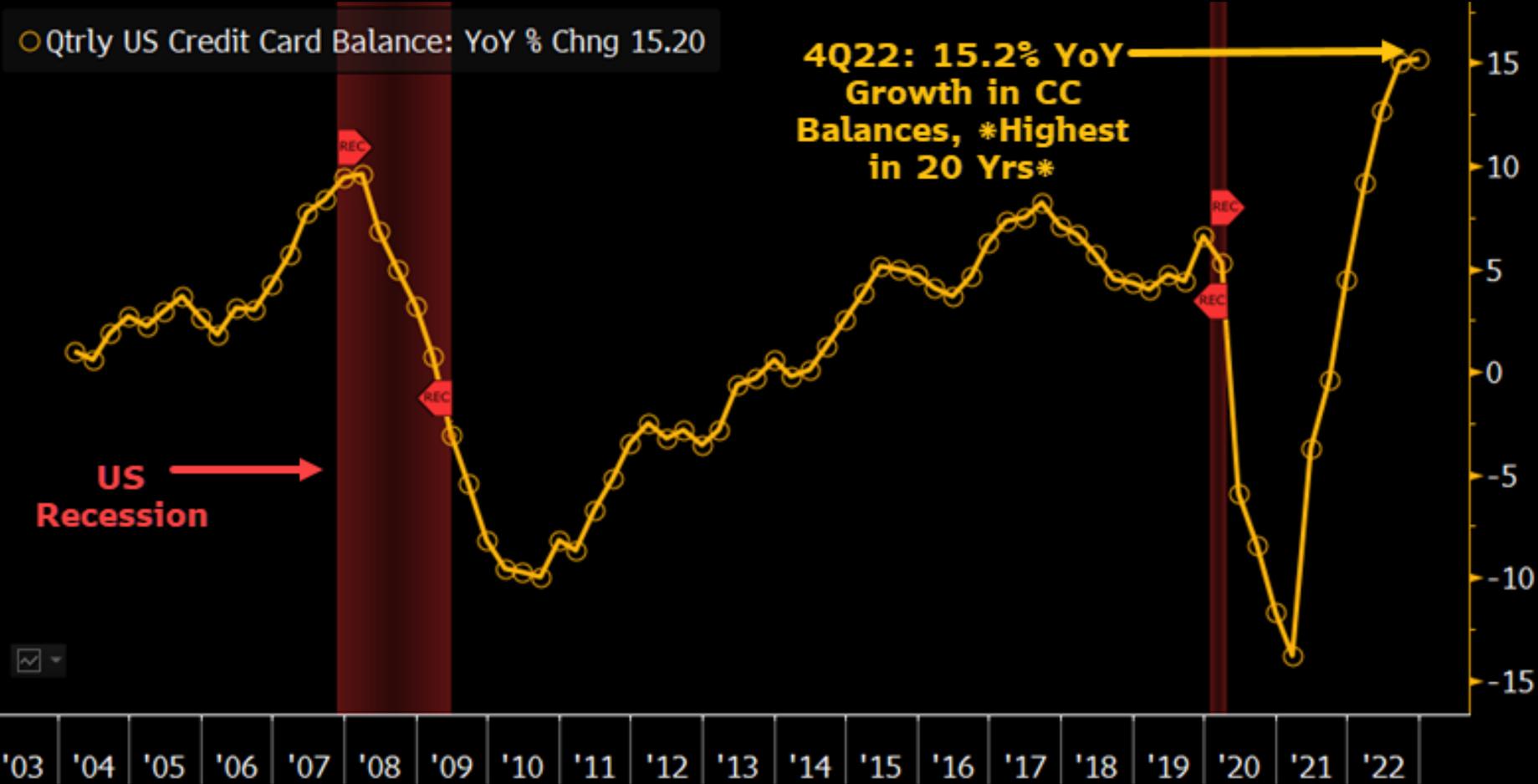
# Health and Outlook of the Global Consumer with the impact on Consumer & Industrial Sectors



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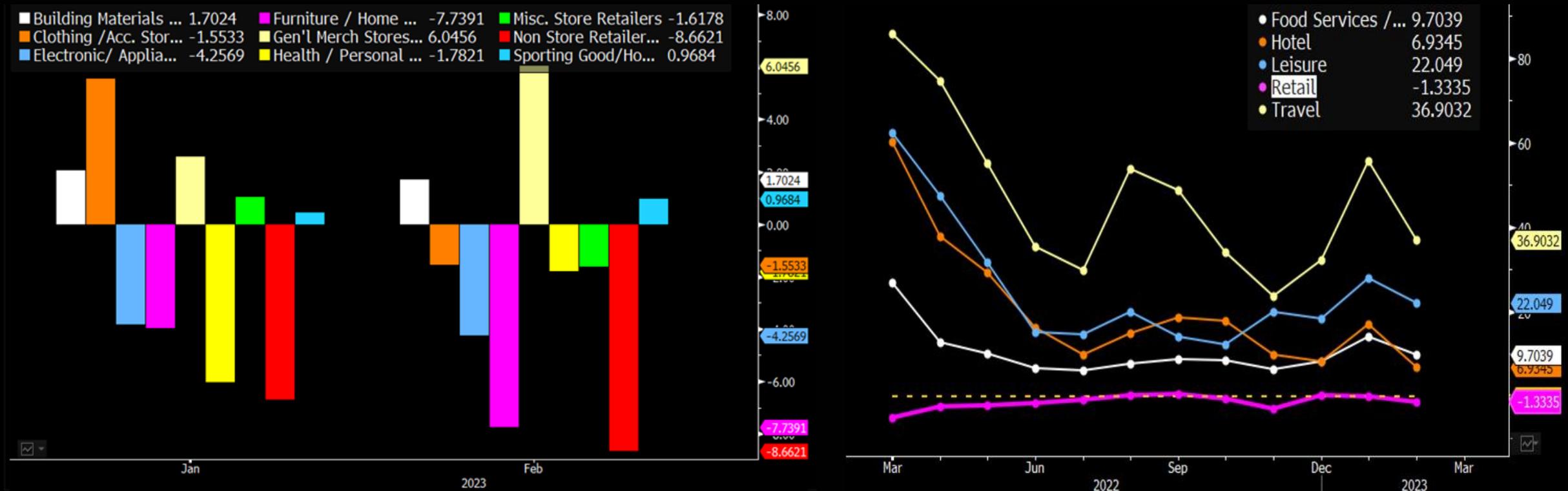
**Mike Campellone**  
US Retail Credit Analyst  
Bloomberg Intelligence

# Health of US Consumer: US Credit Card Debt: Quarterly Change



Source: Bloomberg Intelligence; FRBNY Consumer Credit Panel / Equifax Read Research Report: [Click Here](#)

# Credit Card Transaction Data Shows a Shift in Spending (Dollar Volume Growth YoY% - SSS by Industry)



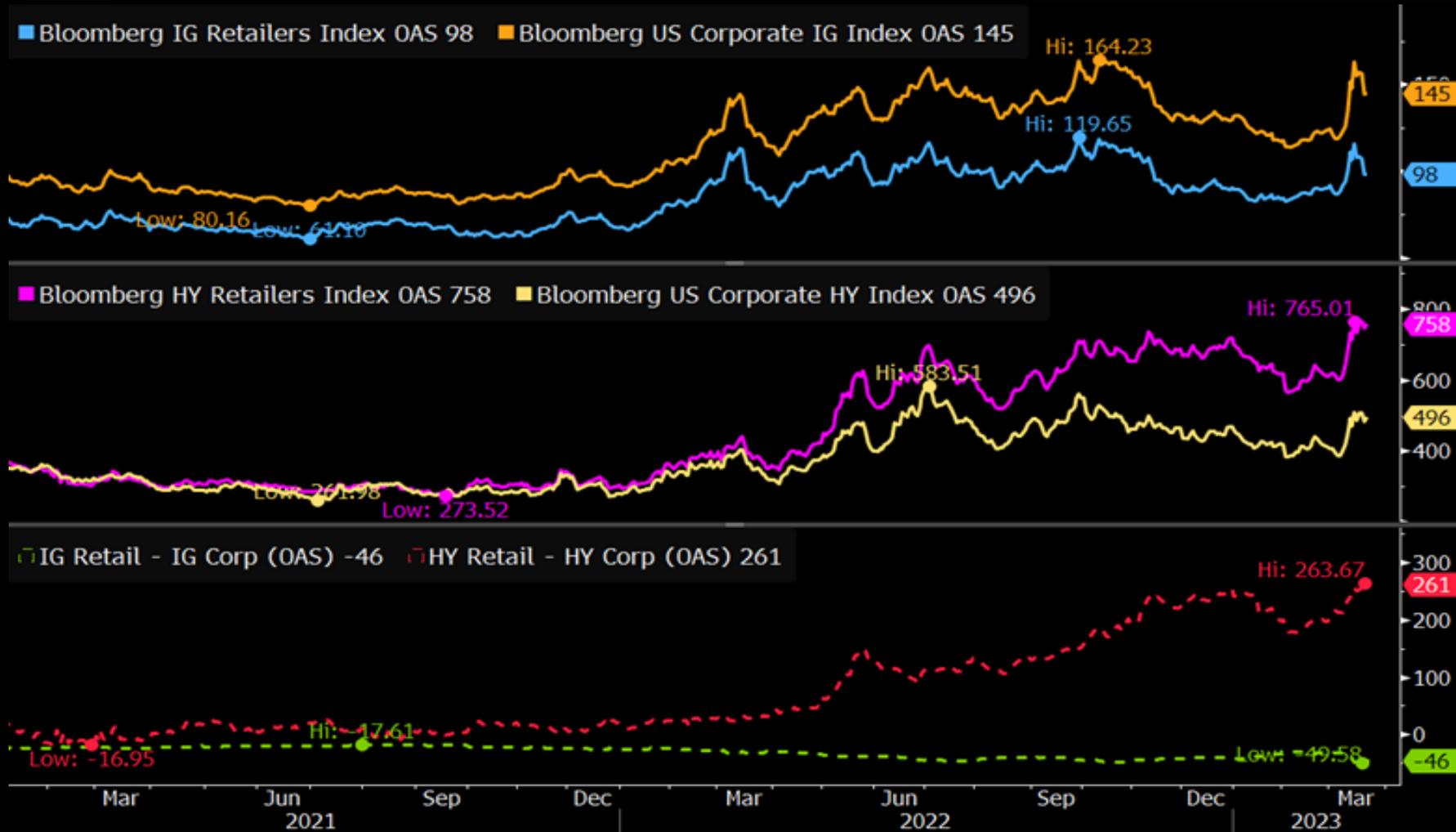
Source: Bloomberg Intelligence; Fiserv SpendTrend, Read Research Report: [Click Here](#)

# Excess Inventory a Risk to Retailer Profitability

IG or HY Index?	Ticker	Most Rec Per End Dt	Inv	3yr Avg Inv	Diff vs Avg (\$)	Diff vs Avg (%) ↓	Inv Turnover	Inv/T12M Sales (Current = blue dot vs 3 Yr Avg)
	<b>Average</b>		<b>8,210</b>	<b>6,478</b>	<b>+1,731</b>	<b>+34%</b>	<b>4.3</b>	<b>19.1%</b>
HY	CROX US	09/30/2022	514	175	+338	+193%	4.0	16.1%
HY	WWW US	10/01/2022	881	385	+496	+129%	2.4	33.2%
IG	VFC US	12/31/2022	2,592	1,309	+1,283	+98%	2.8	22.2%
HY	GIII US	10/31/2022	901	520	+381	+73%	3.0	28.9%
HY	LEVI US	11/27/2022	1,417	867	+550	+63%	2.3	23.0%
IG	NKE US	11/30/2022	9,326	6,265	+3,061	+49%	3.4	19.0%
IG	HD US	10/30/2022	25,719	17,483	+8,236	+47%	4.5	16.4%
HY	KTB US	09/30/2022	678	462	+216	+47%	2.7	26.3%
IG	TSCO US	12/31/2022	2,710	1,859	+851	+46%	3.8	19.1%
IG	DG US	10/28/2022	7,145	4,940	+2,204	+45%	4.0	19.7%
IG	DLTR US	10/29/2022	5,658	3,997	+1,661	+42%	3.8	20.4%
HY	UAA US	12/31/2022	1,218	867	+351	+41%		21.0%
IG	TJX US	10/29/2022	8,329	5,969	+2,360	+40%	4.7	16.9%
IG	RL US	12/31/2022	1,238	900	+338	+38%	2.1	19.3%
IG	TPR US	12/31/2022	976	710	+266	+37%	2.3	14.8%
IG	DKS US	10/29/2022	3,361	2,461	+900	+37%	2.6	27.7%
IG	AMZN US	12/31/2022	34,405	25,644	+8,761	+34%	8.6	6.7%
HY	FL US	10/29/2022	1,685	1,266	+419	+33%	3.9	19.2%
HY	ANF US	10/29/2022	742	560	+182	+32%	2.4	20.3%
IG	JD US	09/30/2022	71,757	54,552	+17,205	+32%	13.4	7.0%
IG	TGT US	10/29/2022	17,117	13,022	+4,095	+31%	5.1	15.7%
HY	CRI US	10/01/2022	899	697	+202	+29%	2.2	26.7%
IG	LOW US	10/28/2022	19,817	15,371	+4,446	+29%	3.5	20.7%
HY	VSCO US	10/29/2022	1,242	1,000	+242	+24%	4.9	19.1%

Source: Bloomberg Intelligence; Read Research Report: [Click Here](#)

# US Retail Bond Spreads Spike as Spending Slows



Source: Bloomberg Intelligence; Read Research Report: [Click Here](#)

# Health and Outlook of the Global Consumer with the impact on Consumer & Industrial Sectors



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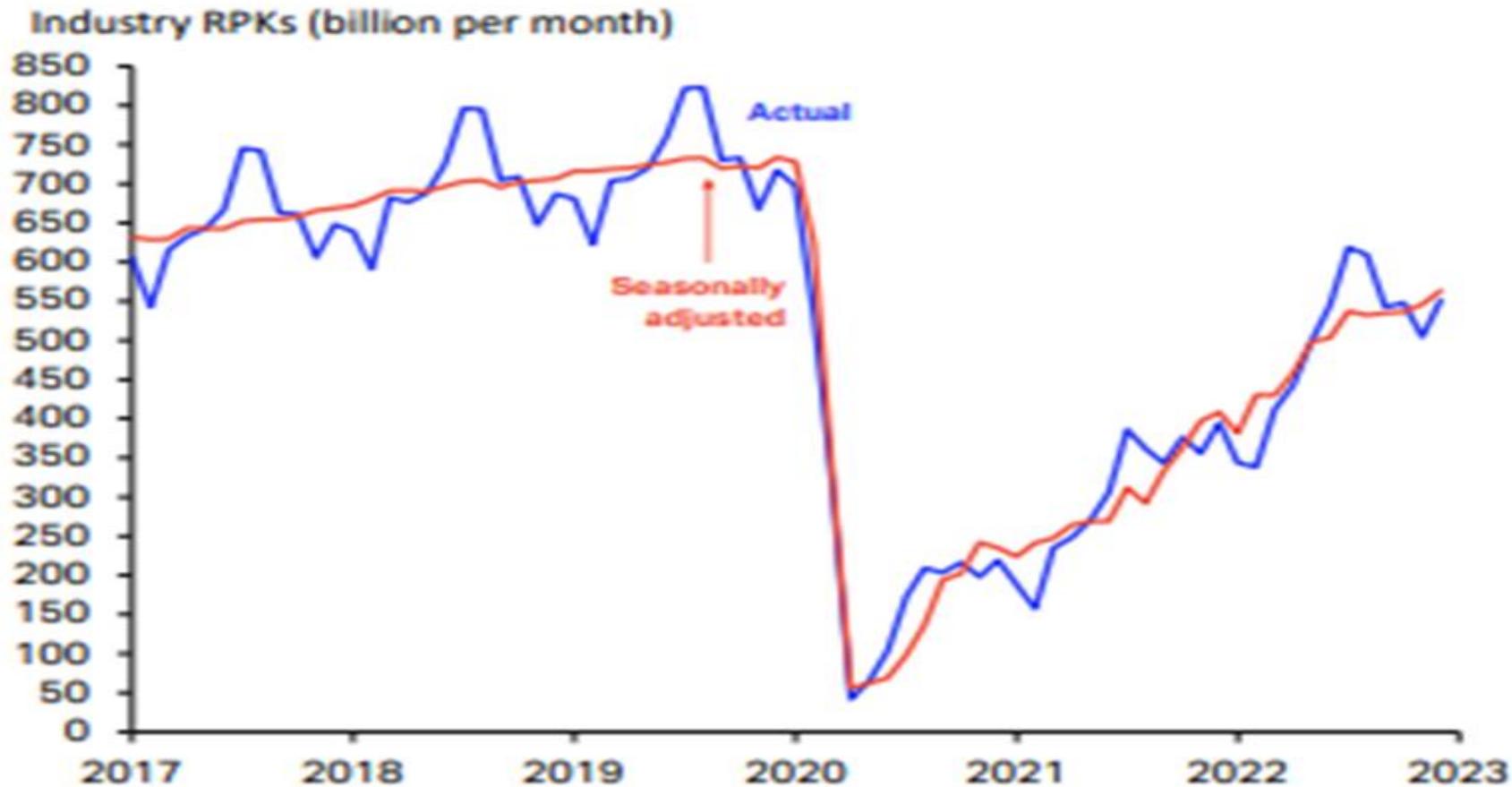
**Matt Geudtner**

Industrials Credit Analyst

Bloomberg Intelligence

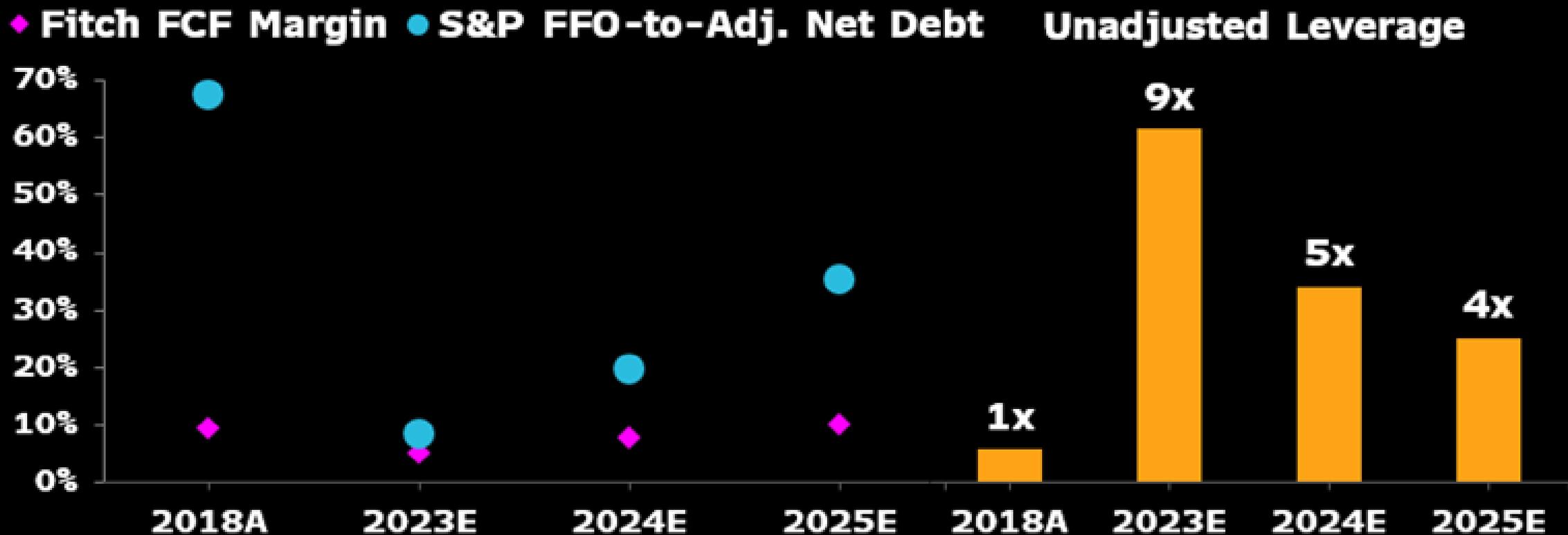
# Aerospace

**Chart 1: Global air passengers, RPK billion**



Sources: IATA Economics, IATA Monthly Statistics

# Boeing

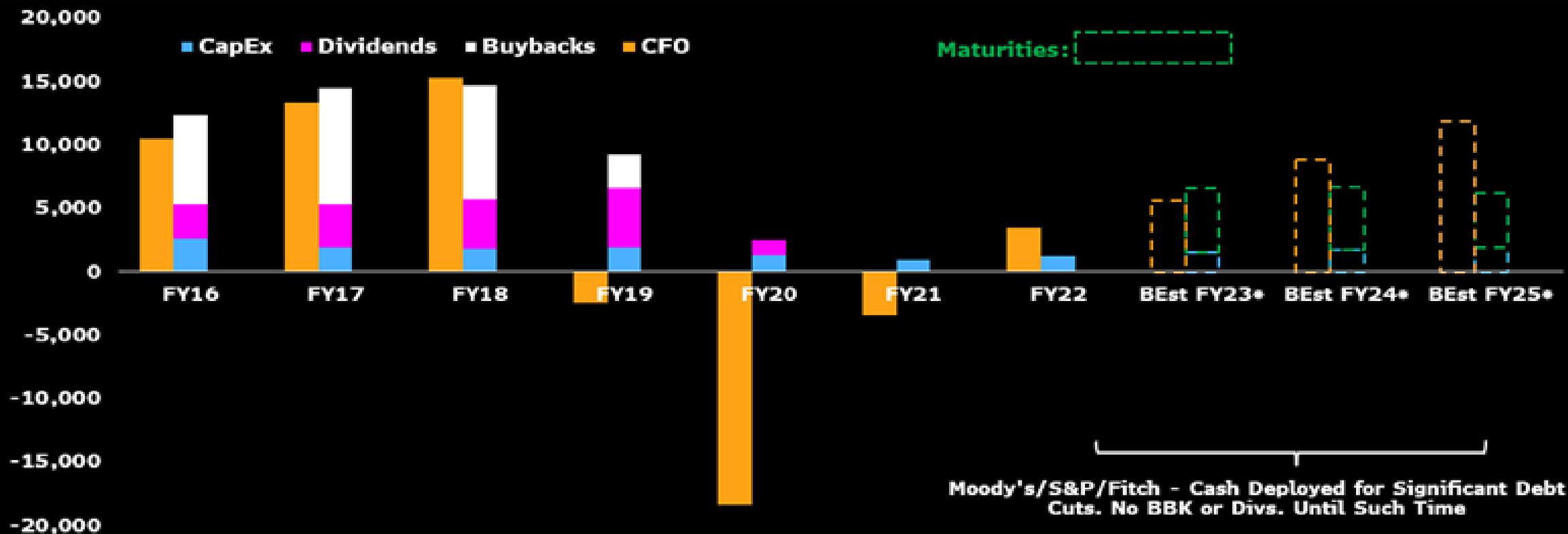


\*Based on Consensus, Adds FCF to BIS & Assumes Debt Reduction In-line w/ Bond Maturities.

Bloomberg 

Bloomberg  
Intelligence 

# Boeing

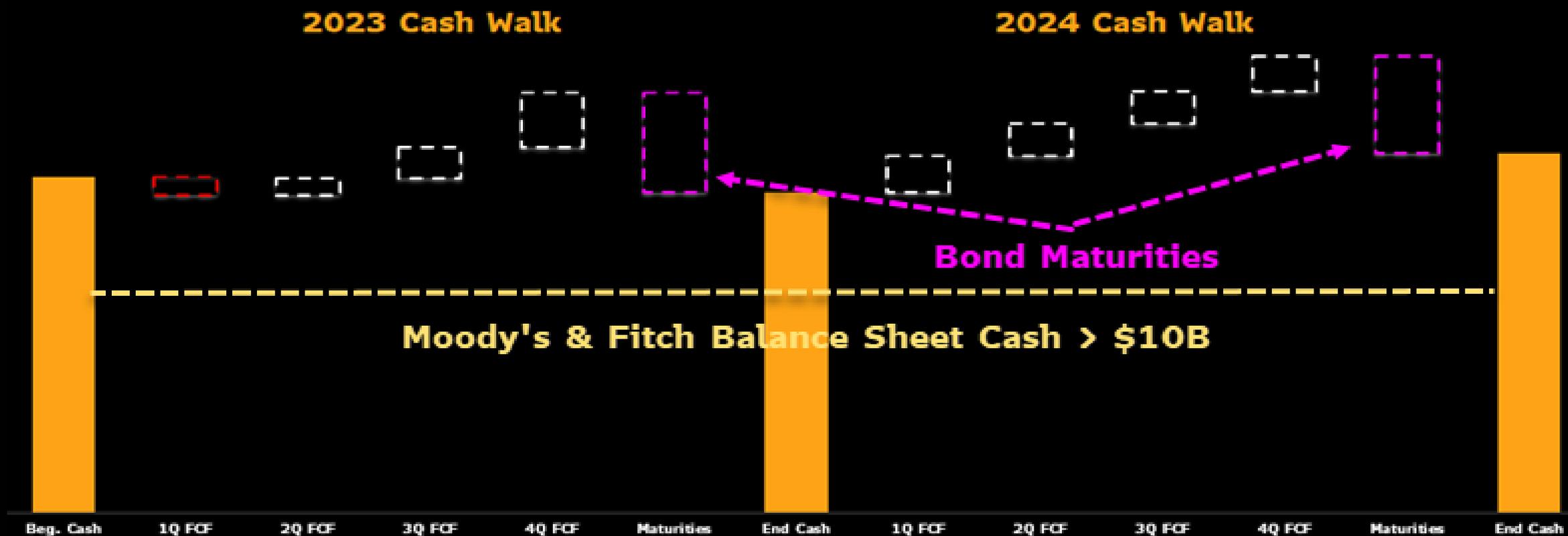


Note: In \$ Millions. \*BEst FY23-25 data is from MODL.

Bloomberg

Source: Bloomberg Intelligence, Bloomberg Estimates

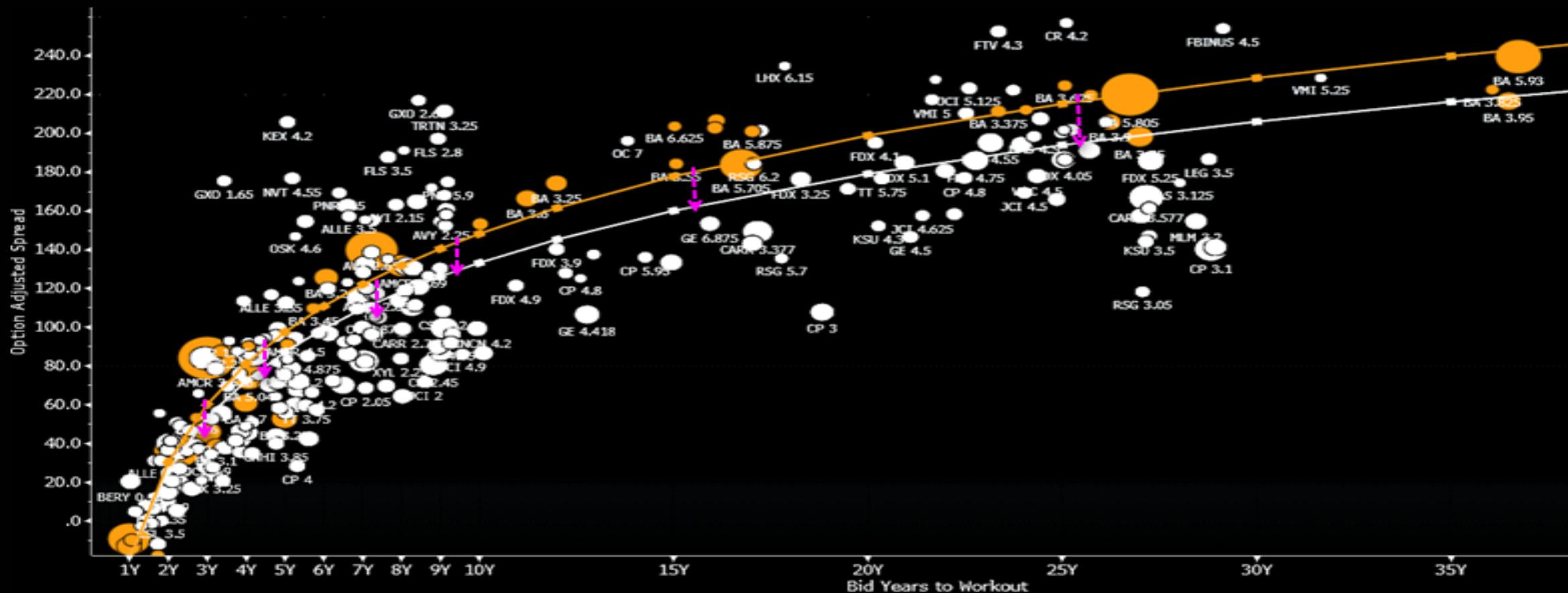
# Boeing



\* Assumes Boeing Pays Down Maturities in-line w/ '23 and '24 schedule.

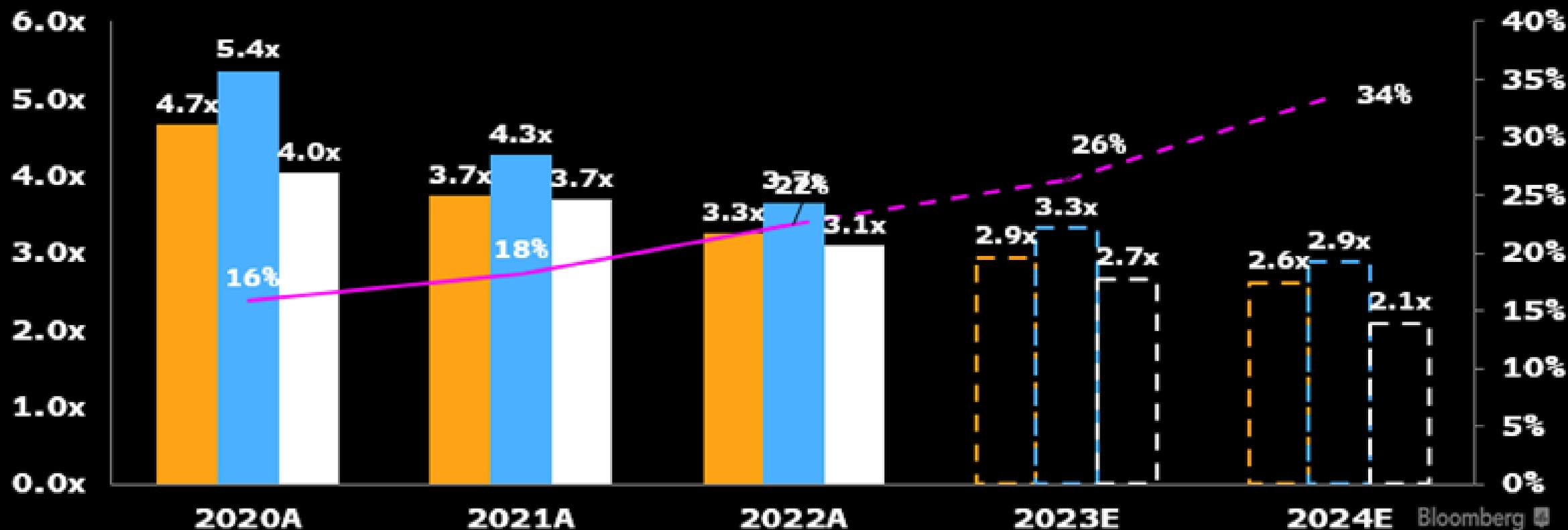
Bloomberg

# Boeing



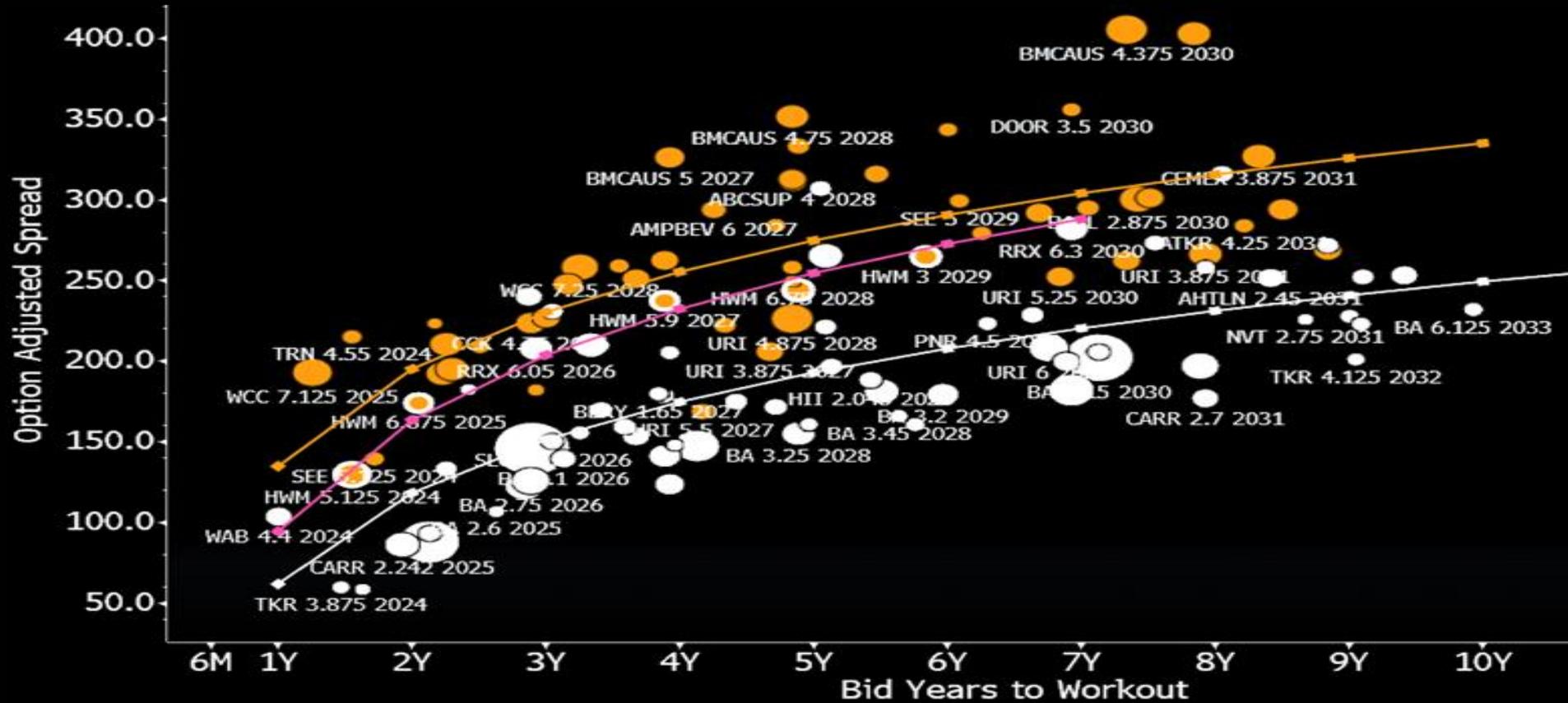
# Howmet

■ Total Debt/Ebitda 
 ■ Adjusted Total Debt/Ebitda 
 ■ Adj. Net Leverage 
 — FFO-to-Adj. Debt



Source: Bloomberg Intelligence, Company Filings, Bloomberg Estimates

# Howmet



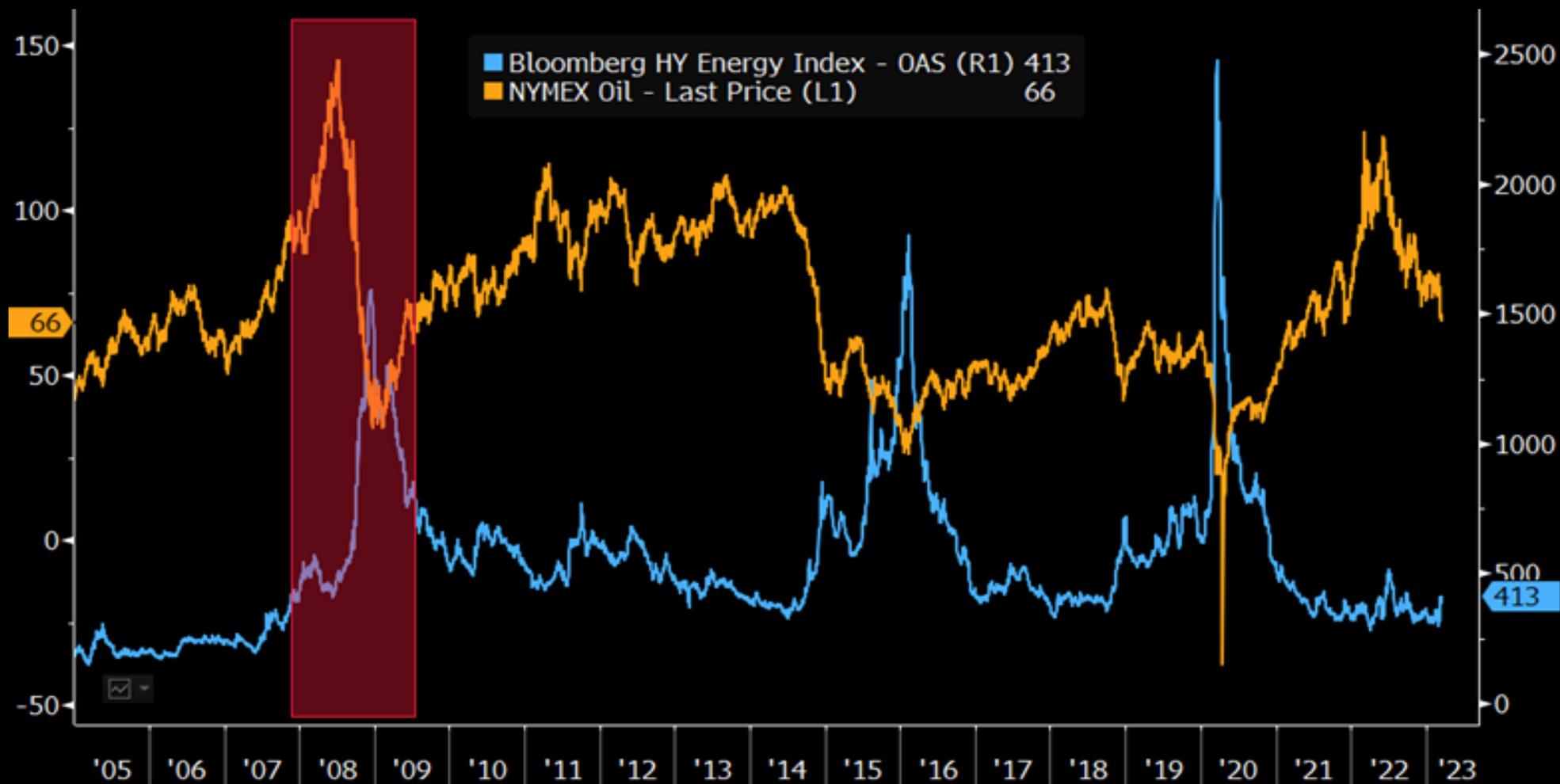
# Energy Discussion and important capital allocation decisions that need to be made



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**Spencer Cutter**  
Energy Credit Analyst  
Bloomberg Intelligence

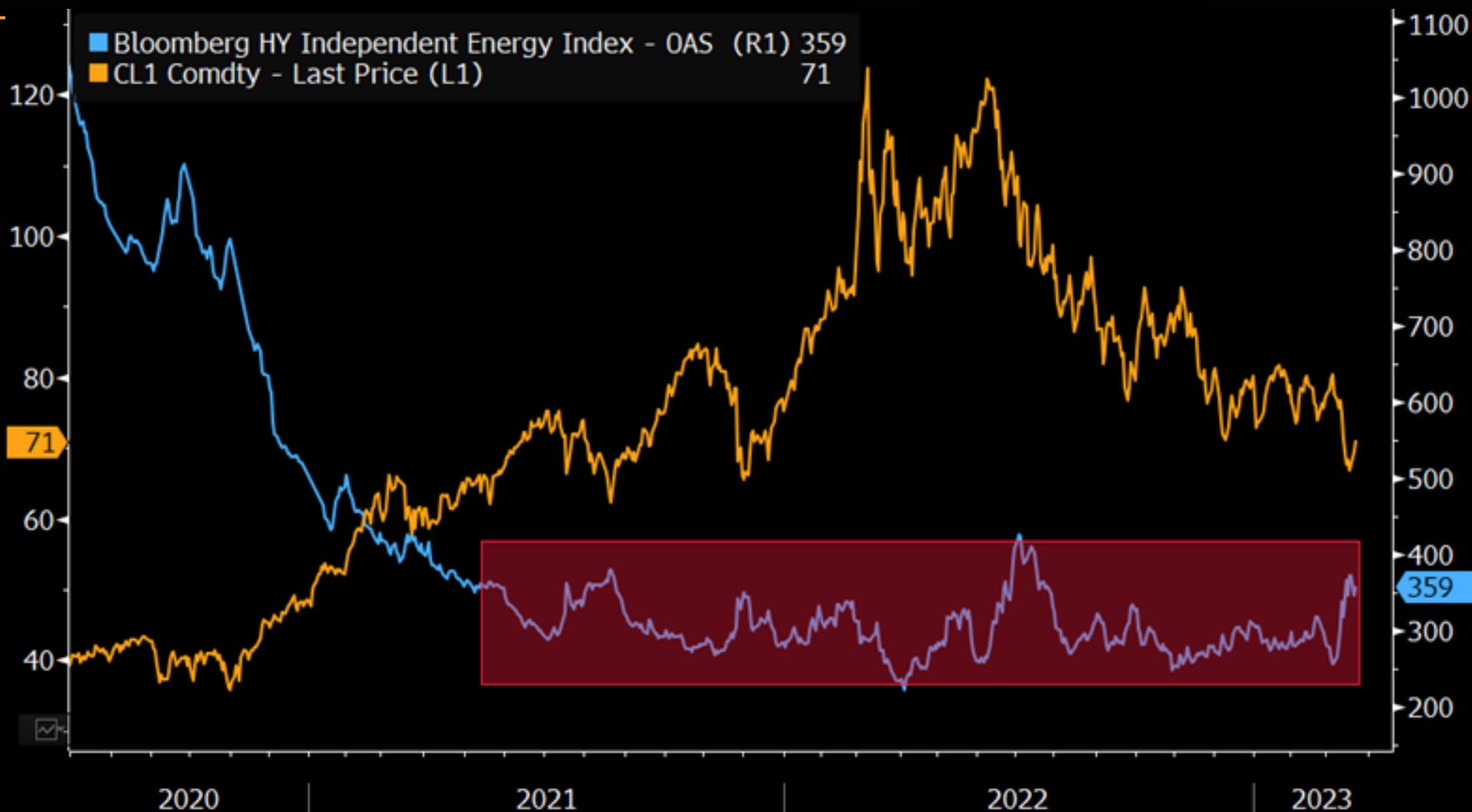
# 2008 GFC – Oil Plunged, Spreads Widened, but...



# 2008 GFC – Energy Was Still A “Safe Haven”



# Independent Energy - Where Is The Market Today?



# Strong Balance Sheets Entering 2023

Largest High Yield E&P Debt Issuers 2014							Largest High Yield E&P Debt Issuers 2023						
(\$1,000s)	Production (Mboe/Day)	Total Debt	EBITDA	Debt / EBITDA	Debt / Mboe Produced	Free Cash Flow	(\$1,000s)	Production (Mboe/Day)	Total Debt	Est. 2023 EBITDA(X)	Debt / EBITDA	Debt / Mboe Produced	Est. 2023 Free Cash Flow
CHESAPEAKE ENERGY CORP	707	\$ 11,535	\$ 5,128	2.25x	\$ 45	(\$1,984)	OCCIDENTAL PETROLEUM CORP	1150	\$ 23,066	\$ 16,620	1.39x	\$ 55	\$8,096
LINN ENERGY LLC-UNITS	202	\$ 10,296	\$ 2,069	4.98x	\$ 140	(\$2,412)	APA CORP	385	\$ 5,527	\$ 5,785	0.96x	\$ 39	\$1,726
CALIFORNIA RESOURCES CORP	159	\$ 6,360	\$ 2,616	2.43x	\$ 110	\$351	SOUTHWESTERN ENERGY CO	801	\$ 5,274	\$ 2,817	1.87x	\$ 18	\$497
CONCHO RESOURCES INC	112	\$ 3,562	\$ 1,915	1.86x	\$ 87	(\$843)	CHESAPEAKE ENERGY CORP	688	\$ 3,046	\$ 3,345	0.91x	\$ 12	\$1,012
EP ENERGY CORP-CL A	98	\$ 4,533	\$ 2,374	1.91x	\$ 127	(\$847)	COMSTOCK RESOURCES INC	227	\$ 2,619	\$ 1,376	1.90x	\$ 32	(\$88)
DENBURY RESOURCES INC	74	\$ 3,571	\$ 1,353	2.64x	\$ 131	\$144	RANGE RESOURCES CORP	346	\$ 2,385	\$ 1,556	1.53x	\$ 19	\$958
ANTERO RESOURCES CORP	168	\$ 4,363	\$ 1,022	4.27x	\$ 71	(\$3,088)	MURPHY OIL CORP	173	\$ 3,143	\$ 2,237	1.40x	\$ 50	\$976
WHITING PETROLEUM CORP	115	\$ 5,602	\$ 2,089	2.68x	\$ 134	(\$1,153)	CALLON PETROLEUM CO	101	\$ 2,516	\$ 1,576	1.60x	\$ 68	\$426
OVINTIV INC	479	\$ 7,399	\$ 3,668	2.02x	\$ 42	\$141	PERMIAN RESOURCES CORP	70	\$ 859	\$ 2,322	0.37x	\$ 33	\$740
MEG ENERGY CORP	71	\$ 4,366	\$ 921	4.74x	\$ 168	(\$522)	SM ENERGY CO	147	\$ 1,571	\$ 1,832	0.86x	\$ 29	\$644
Average (equal weight)				2.98x	\$ 106	(\$1,021)	Average (equal weight)				1.28x	\$ 36	\$1,499

# Sustainable Free Cash Flow at \$50 Oil

	OXY (U.S. Assets) 2022	APA (U.S. Assets) 2022	MUR 2022	CPE 2022
Production (Boe)	342,005,000	77,382,555	63,931,940	38,052,710
Capital Spending	\$ 3,082,000,000	\$ 843,000,000	\$ 1,183,200,000	\$ 841,500,000
<b>All-In Cash Costs (\$/Mcf)</b>				
Capital Spending	\$ 9.01	\$ 10.89	\$ 18.51	\$ 22.11
Lease Operating/Production Exp.	\$ 8.92	\$ 6.66	\$ 10.61	\$ 7.63
Gathering, Transportation	\$ 3.87	\$ 4.07	\$ 3.33	\$ 2.55
Exploration Exp.	\$ 0.33	\$ 0.31	\$ 2.08	
General & Administrative	\$ 1.93	\$ 4.16	\$ 2.05	\$ 1.51
Interest Expense	\$ 1.66	\$ 2.86	\$ 2.36	\$ 4.61
Production Taxes	\$ 3.61	\$ 3.42	\$ 0.89	\$ 4.20
<b>Total Cash Cost</b>	<b>\$ 29.33</b>	<b>\$ 32.37</b>	<b>\$ 39.82</b>	<b>\$ 42.62</b>
<b>FY 2022</b>				
Realized Oil Px (\$/Bbl)	\$ 94.12	\$ 94.48	\$ 94.89	\$ 95.72
Realized NGL Px (\$/Bbl)	\$ 35.69	\$ 31.54	\$ 33.85	\$ 34.84
Realized Nat Gas Px (\$/Mcf)	\$ 5.48	\$ 5.16	\$ 6.04	\$ 5.59
<b>Ave. Realized Px (\$/Bbl)</b>	<b>\$ 65.71</b>	<b>\$ 53.51</b>	<b>\$ 63.17</b>	<b>\$ 72.42</b>
Ave. NYMEX Oil (\$/Bbl)	\$94.23			
Ave. NYMEX Nat Gas (\$/Mcf)	\$6.35			

# What About Natural Gas?



# Credit Metrics Expected to Remain Solid

(\$ Millions)	Moody's Long Term	S&P Long Term	Total Debt	Est. 2023 EBITDA(X)	Est. 2023 Debt/EBITDA(X)
Southwestern Energy	Ba1	BB+	\$ 4,903	\$ 2,817	1.74x
Comstock Resources	B1	B+	\$ 2,300	\$ 1,376	1.67x
Range Resources	Ba2	BB	\$ 2,360	\$ 1,556	1.52x
EQT	Ba1	BBB-	\$ 4,769	\$ 3,989	1.20x
Gulfport Energy	B2	B	\$ 729	\$ 791	0.92x
SM Energy	B1	B+	\$ 1,571	\$ 1,832	0.86x
Ovintiv	Baa3	BBB-	\$ 3,687	\$ 4,328	0.85x
Chesapeake Energy	Ba2	BB	\$ 2,717	\$ 3,345	0.81x
Antero Resources	Ba1	BB+	\$ 1,708	\$ 2,225	0.77x
Matador Resources	Ba3	BB-	\$ 1,193	\$ 1,993	0.60x
Coterra Energy	Baa2	BBB	\$ 2,354	\$ 4,587	0.51x

Source: Bloomberg Data, Bloomberg Estimates

# Borrowing Base Breathing Room

Company	(\$1,000s)	Borrowing Base	Lender Commitments	Amount Out	Letters of Credit	Available
SOUTHWESTERN ENERGY CO		\$ 3,500,000	\$ 2,000,000	\$ 250,000	\$ 110,000	\$ 1,640,000
ANTERO RESOURCES CORP		\$ 3,500,000	\$ 1,500,000	\$ 34,800	\$ 504,000	\$ 961,200
CHESAPEAKE ENERGY CORP		\$ 3,500,000	\$ 2,000,000	\$1,050,000	\$ 35,000	\$ 915,000
COMSTOCK RESOURCES INC		\$ 2,000,000	\$ 1,500,000	\$ -	\$ -	\$ 1,500,000
RANGE RESOURCES CORP		\$ 3,000,000	\$ 1,500,000	\$ 19,000	\$ 307,400	\$ 1,173,600
GULFPORT ENERGY CORP		\$ 1,000,000	\$ 700,000	\$ 79,000	\$ 113,400	\$ 507,600
W&T OFFSHORE INC		\$ 50,000	\$ 100,000	\$ -	\$ 4,400	\$ 45,600
MATADOR RESOURCES CO		\$ 2,250,000	\$ 775,000	\$ -	\$ 45,600	\$ 729,400

Source: Bloomberg Data

# Relative value update on the TMT sector, including how to optimize Bloomberg functionality and data



**Stephen Flynn**

Telecom & Media Credit Analyst  
Bloomberg Intelligence

# Netflix: Bond Spreads Tight or Just Right?

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**NETFLIX**

# Netflix: Credit Summary

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- Netflix has \$8.9 billion of US\$ denominated unsecured bonds due 2024-30
- Notes are rated Ba1 (Positive) by Moody's, BBB (Stable) by S&P
- Low net leverage at ~1.3x
- Returned to Subscriber Growth in 2H22
- Conservative balance sheet goals
  - Within gross debt target of \$10-\$15 billion
  - Above preferred minimum cash balance of ~\$5.4 billion

Moody's press release (April 21, 2022)

*"As a result, we will likely observe a few more quarters to determine the new trend lines and reset more specific expectations as well as evaluate Netflix's fresh new levers to grow revenue and free cash flows before considering raising the company's credit ratings to investment grade."*



# Netflix vs. Sector Notes Rated BBB- to BBB+

SRCH <GO>

Export to  
FIW

Actions ▾		Settings		Fixed Income Search	
Build/Edit Search		My Searches		Example Searches	
Build with Criterion		Build by Merging Saved Searches			
					As of 03/22/2023
1. Select Universe					
11	Asset Classes	Corporates (Include Private Securities, Consolidate Duplicate Bonds, Include...			6,567,467 securities
12	Sources	All Securities			
	Field	Boundaries	Selected Criteria	Matches	
31	Security Status	ⓘ Include	Bonds: Active	755,143	✂ ✕
32	And Currency	ⓘ Include	(United States Dollar)	302,804	✂ ✕
33	And BICS Classification	ⓘ Include	(Advertising & Marketing or Cable & Satellite or E...	1,589	✂ ✕
34	And Amount Outstanding	ⓘ >=	200MM (USD)	992	✂ ✕
35	And S&P Rating	ⓘ In the range	BBB+ – BBB-	425	✂ ✕
36	And Maturity	ⓘ <=	12/31/2033	220	✂ ✕
37	And ▾				Fields



# Relative value update on the TMT sector, including how to optimize Bloomberg functionality and data



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**Robert Schiffman**

Technology Credit Analyst  
Bloomberg Intelligence

# What is Technology and has it Outperformed the Market?

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# Tech Beats IG Index YTD or Does It? PORT <GO>

Attribution Characteristics Holdings Tracking Error/Volatility VaR Scenarios Performance Intraday							
Main View Summary Curve Return							
(LUACTRUU) Bloomberg vs Default (None) by BCLASS3 -> T in USD Time YTD 12/30/22 03/20/23							
Version	Port	Unit Percentage	Model	Excess Return	Curve	Sovereign	
Name	Avg % Wgt	Tot Rtn	Excess Rtn	OASD	Spd Chg	CTR	
(LUACTRUU) Bloomberg US Cor...	100.00	2.13	-1.35	7.29	0.19	2.13	
▶ Banking	23.88	1.11	-1.61	5.07	0.33	0.25	
▶ Basic Industry	2.68	2.26	-1.43	7.91	0.19	0.06	
▶ Brokerage Assetmanagers...	1.35	1.05	-2.17	6.30	0.35	0.01	
▶ Capital Goods	5.29	2.76	-0.73	7.14	0.10	0.14	
▶ Communications	8.61	3.27	-0.73	8.93	0.08	0.28	
▶ Consumer Cyclical	6.85	2.05	-1.29	6.77	0.19	0.14	
▶ Consumer Non-Cyclical	14.87	2.73	-1.09	8.32	0.13	0.42	
▶ Electric	7.49	2.34	-1.67	9.09	0.19	0.18	
▶ Energy	6.84	1.87	-1.75	7.74	0.23	0.13	
▶ Finance Companies	1.22	0.84	-1.57	3.69	0.43	0.01	
▶ Insurance	4.63	2.11	-1.80	8.72	0.21	0.10	
▶ Natural Gas	0.62	2.76	-1.29	9.32	0.14	0.02	
▶ Other Financial	0.06	1.93	-0.71	4.73	0.13	0.00	
▶ Other Industrial	0.47	4.85	-0.70	14.09	0.05	0.02	
▶ Other Utility	0.19	2.33	-1.85	9.44	0.20	0.00	
▶ REITs	2.76	1.90	-1.20	5.77	0.21	0.05	
▶ Technology	9.89	2.42	-1.21	7.60	0.16	0.25	
▶ Transportation	2.29	2.52	-1.63	9.60	0.17	0.06	

# Returns for Largest IG Technology Issuers

Name	Avg % Wgt	Tot Rtn	Excess Rtn	OASD	Spd Chg	CTR
(LUACTRUU) Bloomberg US Cor...	100.00	2.13	-1.35	7.29	0.19	2.13
Technology	9.89	2.42	-1.21	7.60	0.16	0.25
AAPL	1.26	2.80	-1.08	8.48	0.12	0.04
ORCL	1.10	2.04	-1.82	8.48	0.22	0.02
MSFT	0.66	3.40	-1.27	10.91	0.11	0.02
INTC	0.58	2.01	-2.06	9.15	0.22	0.02
AVGO	0.56	3.17	-0.47	7.47	0.06	0.02
IBM	0.51	1.25	-2.19	6.83	0.32	0.00
DELL	0.28	1.83	-1.04	5.37	0.20	0.00
V	0.26	2.08	-1.80	8.55	0.21	0.01
QCOM	0.24	2.83	-1.14	8.77	0.13	0.01
FISV	0.20	1.32	-1.63	5.35	0.31	0.00
MA	0.18	2.33	-1.43	8.20	0.18	0.00
NXPI	0.16	2.49	-0.68	6.02	0.12	0.00
GPN	0.16	1.79	-1.22	5.64	0.22	0.00
GOOGL	0.16	3.26	-1.09	9.46	0.11	0.00
EQIX	0.16	1.78	-1.36	6.01	0.24	0.00
HPQ	0.15	2.87	-0.30	5.90	0.05	0.00
PYPL	0.15	2.51	-0.89	6.96	0.13	0.00
SPGI	0.14	3.09	-0.81	8.35	0.10	0.00
NVDA	0.14	3.59	-0.20	8.14	0.02	0.00
CSCO	0.13	2.52	-0.89	7.04	0.13	0.00
CRM	0.13	2.10	-1.00	9.61	0.10	0.00
TXN	0.12	1.90	-1.89	8.18	0.23	0.00

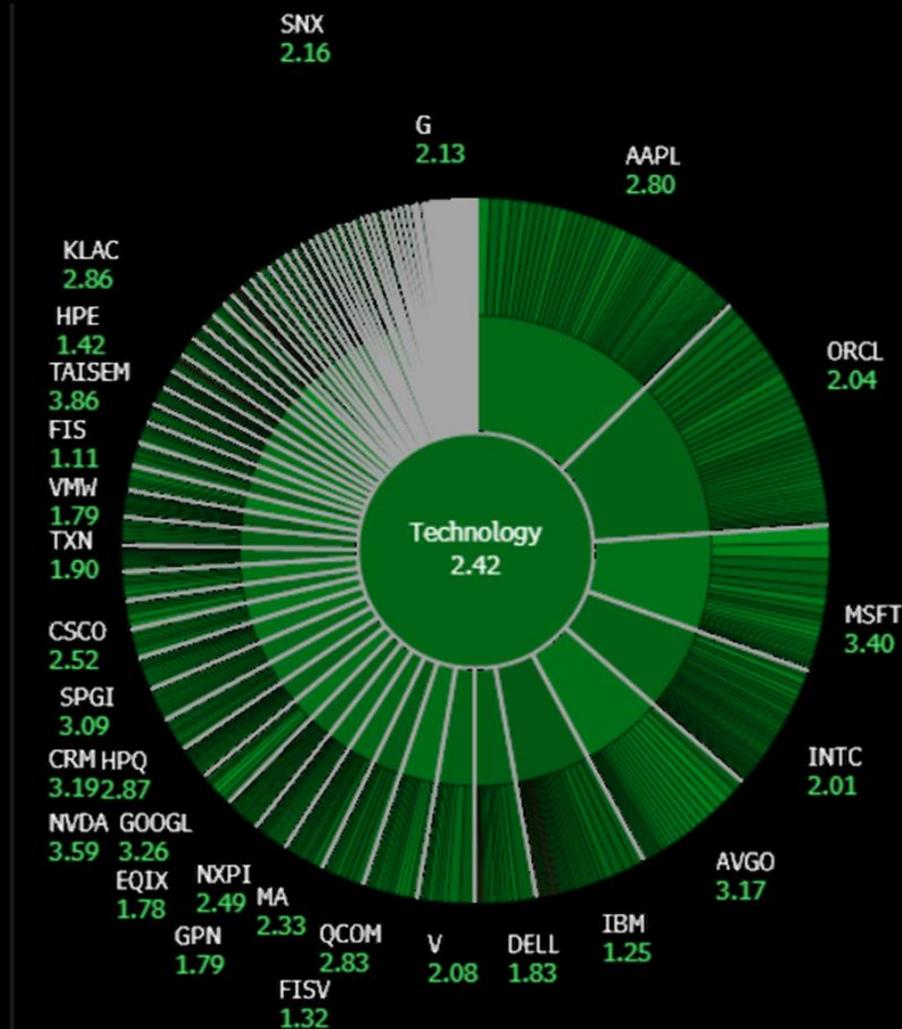
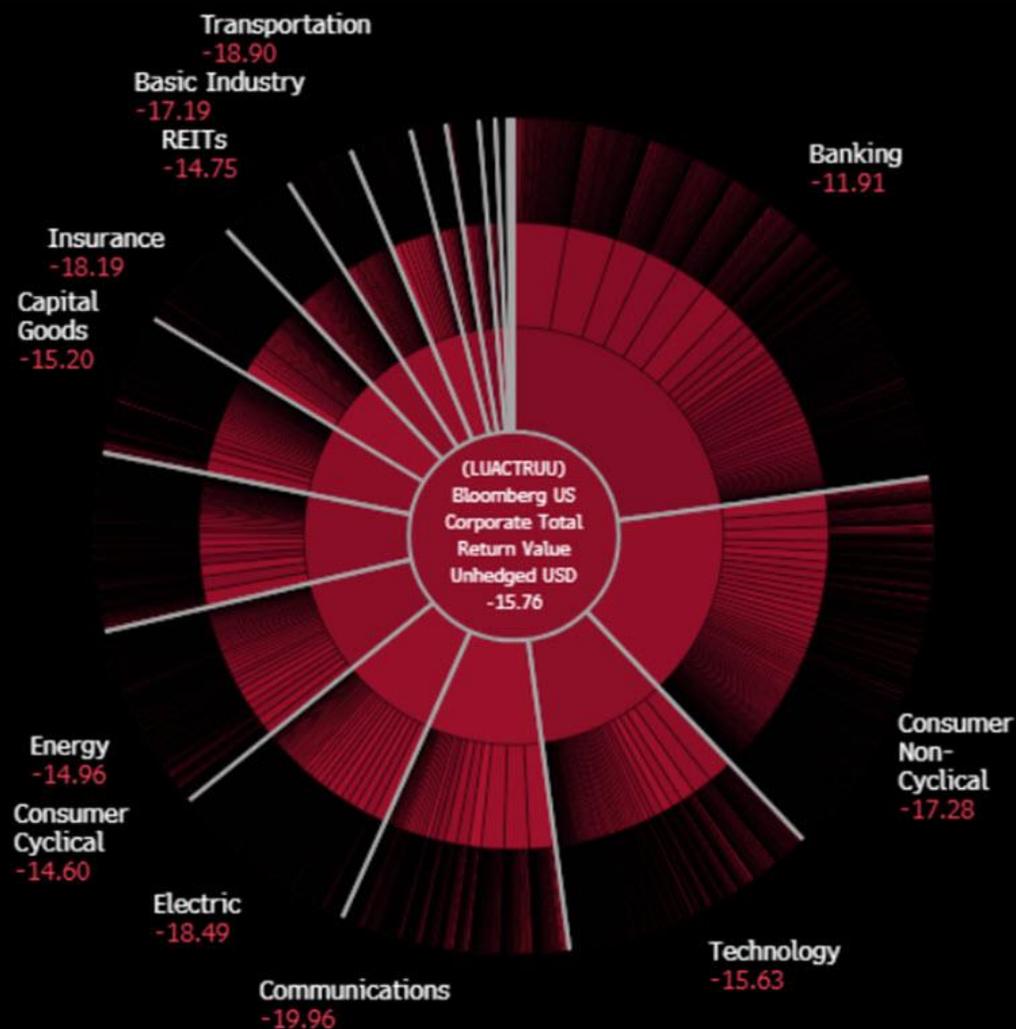
# Largest Technology Issuers **PORT <GO>**

(LUACTRUU) Bloomberg vs Default (None) by BCLASS3 -> T in USD As of 03/20/23

Date Trend

Name	#	% Wgt	Mkt Val
(LUACTRUU) Bloomberg US Cor...	7,491	100.00	6,154,539,368
Technology	633	9.98	614,519,588
AAPL	47	1.23	75,848,512
ORCL	38	1.15	70,729,511
INTC	38	0.72	44,056,032
MSFT	23	0.62	38,385,582
AVGO	23	0.56	34,166,859
IBM	30	0.50	30,885,285
DELL	15	0.29	17,770,358
V	11	0.26	15,787,859
QCOM	14	0.24	15,053,202
FISV	10	0.22	13,705,559
MA	14	0.18	11,021,694
NXPI	15	0.16	10,019,112
GPN	14	0.16	9,731,608
HPQ	10	0.15	9,474,474
EQIX	15	0.15	9,461,437
PYPL	10	0.15	9,175,108
GOOGL	7	0.15	9,121,649
NVDA	8	0.14	8,563,719
CSCO	6	0.13	8,008,005
CRM	7	0.13	7,729,158
TXN	14	0.12	7,506,292

# Who, What, Where Can I Find What I'm Looking For?



# What if I'm Interested in Convertibles? **PORT <GO>**

(LUCCTRUU) Bloomberg vs Default (None) by BCLASS3 -> T in USD As of 03/20/23

Date  Trend

Name	#	% Wgt	Mkt Val
(LUCCTRUU) Bloomberg US Co...	558	100.00	269,114,384
▶ Technology	146	28.36	76,321,243
▶ Consumer Cyclical	88	17.45	46,959,452
▶ Consumer Non-Cyclical	115	16.77	45,134,015
▶ Communications	52	10.47	28,189,374
▶ Electric	18	5.66	15,241,966
▶ Banking	12	4.20	11,297,103
▶ Capital Goods	25	3.47	9,346,183
▶ Transportation	13	2.67	7,183,008
▶ Energy	15	2.45	6,593,985
▶ Basic Industry	12	2.11	5,666,582
▶ REITs	32	2.09	5,632,877
▶ Other Industrial	6	1.21	3,268,989
▶ Brokerage Assetmanagers...	8	1.15	3,100,683
▶ Finance Companies	7	0.91	2,443,832
▶ Other Financial	5	0.54	1,443,401
▶ Natural Gas	2	0.40	1,066,790
▶ Insurance	2	0.08	224,898

# Q&A

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