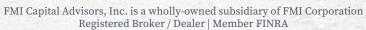
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Capital Advisors

CONSTRUCTION MATERIALS
OUTLOOK

JUNE 2023

www.fmicapitaladvisors.com



FOR DISCUSSION PURPOSES ONLY



WHO we are



FMI is a leading investment banking and consulting firm dedicated exclusively to the built environment. We serve as the industry's trusted advisor, providing current market insights, deep industry research, and key relationships that deliver tangible results for our clients.

Specializing in **CONSTRUCTION MATERIALS**



Servicing All Segments of the Supply Chain



Active Members in Industry Organizations



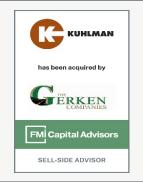
Recent Transaction Advisory

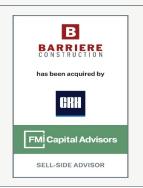


















Consulting and Research

CM Focused Consulting



Wallace Marshall
Head of Construction Materials,
Management Consulting

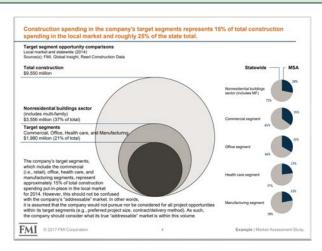
O: 919.785.9382

E: wallace.marshall@fmicorp.com

Education: B.A. Appalachian State University

Ph.D. Boston College

Experience: Construction Materials and Market Research



Management Consulting Capabilities:

- Leadership development
- Field productivity improvement
- Business strategic planning
- Acquisition integration
- Compensation analysis
- Market studies

Global Research



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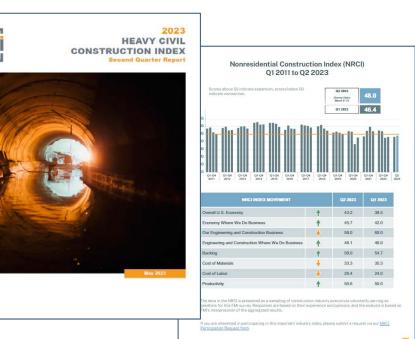
E: brian.strawberry@fmicorp.com

Education: B.A. Elon University

MBA UNC Greensboro

Experience: Market Sizing and Forecasting







Economic & Construction Materials Update

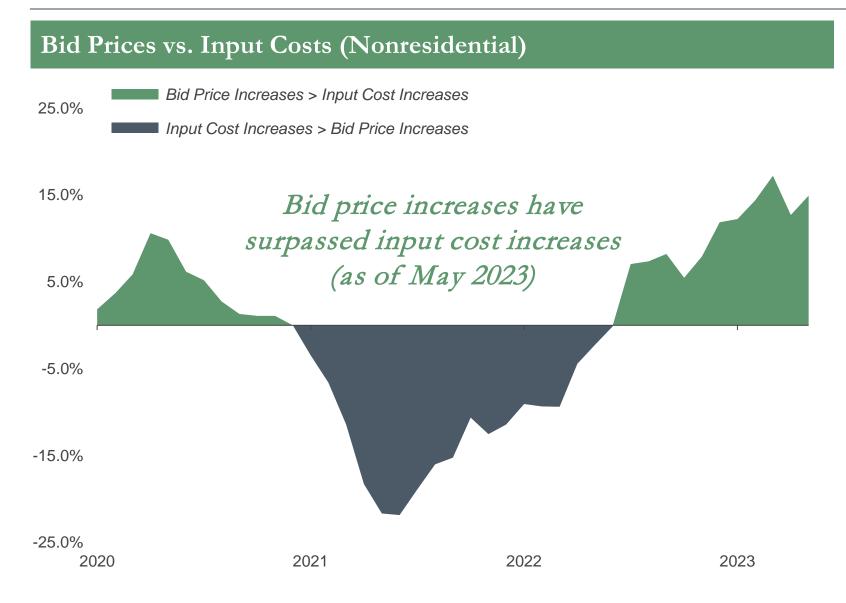
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Outlook for Construction Materials

Despite the negative headlines, there are reasons to be optimistic for Construction Materials

2 copie in negative negative negative are reasons to be optimistic for construction viaceriais			
Category	Sentiment		Earnings Call Quotes
<u>Demand</u>			"Market demand remains strong in cement, aggregates and ready-mix in the U.S.A and Canada."
<u>Pricing</u>	1	CEMEX	"In the U.S EBITDA rose 15% to a record first quarterdriven by pricing, with cement and concrete rising approximately 20% while aggregates rose 30%."
<u>Backlogs</u>			"we are not seeing any cancellations and continue to have a substantial backlog that we're focused on moving."
Public Funding			"historic legislation including the Infrastructure Investment and Jobs Act or IIJAare expected to provide funding certainty for large infrastructure, manufacturing and energy projects through the current period"
<u>Weather</u>		G	"the first quarter of 2023 was not a typical winter quarter. Extreme weather events occurred across the country, with the Western U.S., particularly impacted."
<u>Residential</u>	-	A	"Volumes were down low double digits, primarily due to weakness in single-family residential and wet weather that impacted volumes early in the quarter."

Pricing Dynamics



Public Company Product Pricing (YoY)

Q1 23 vs. Q1 22	Aggs.	НМА	Cement	RMC
Summit Materials	20.6%	20.8%	14.8%	15.3%
Eagle Materials	17.5%	N/A	16.4%	10.0%
Cementos Argos	N/A	N/A	15.2%	21.3%
Martin Marietta	22.6%	9.9%	32.2%	20.2%
Vulcan Materials	20.0%	15.0%	N/A	12.0%
Cemex	30.0%	N/A	22.0%	24.0%
Avg. Increase	22.1%	15.2%	20.1%	17.1%

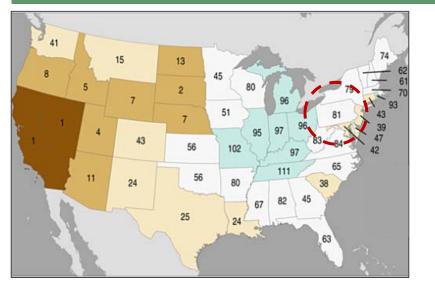
Producers were able to pass along price increases to customers

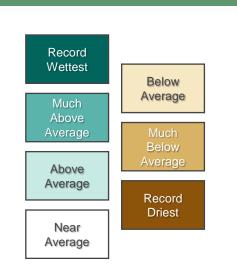
Construction Materials Index (CMI) Performance – Q1 2023 / Q1 2022 Comparison



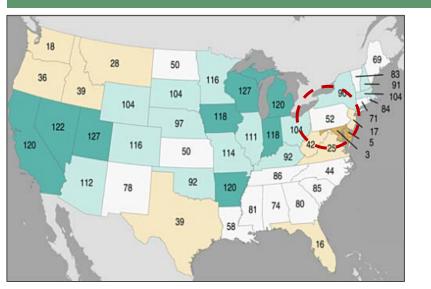
Aggregate Volumes – Q1 Shows Decline (Weather Related?)

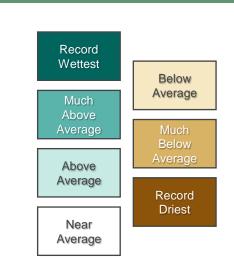
Q1 2022 Precipitation by State



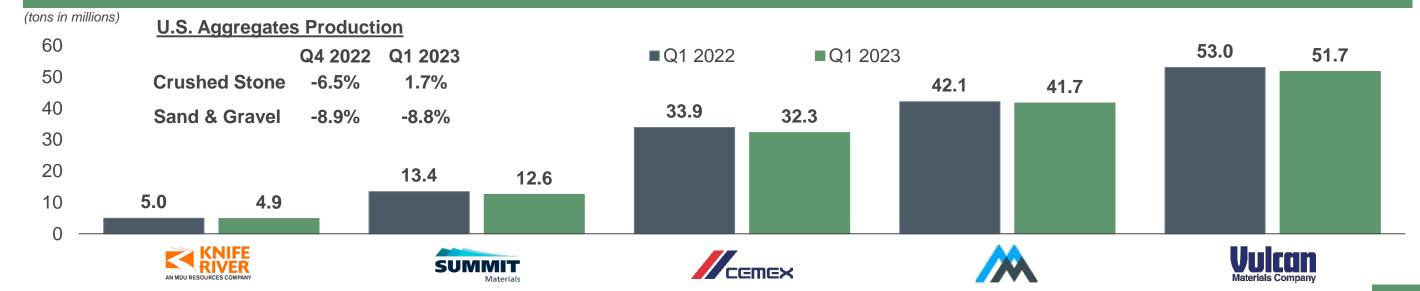


Q1 2023 Precipitation by State





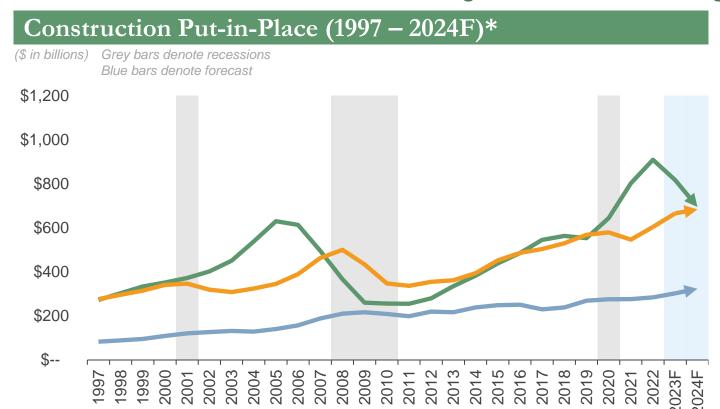
CMI Aggregate Sales Volumes (Q1 2022 vs Q1 2023)



Source: NOAA, Regulatory Filings, USGS Note: Cemex volumes inclusive of all markets

Total U.S. Market – Construction Put-in-Place (CPiP)

Macro uncertainties abound, but strong demand and funding secure the outlook for construction materials



	Actuals		Forecasts*	
(% Annual Change)	2021	2022	2023	2024
Residential	25%	13%	(10%)	(15%)
Nonresidential	(6%)	10%	10%	3%
Nonbuilding	0%	3%	6%	7%
Total Put-in-Place	8%	11%	(1%)	(5%)

1 Nonbuilding Structures

Highway & Street

Power

Sewage & Waste Disposal

Water Supply

Conservation & Development

2 Residential Buildings

Single Family Building Multifamily Building

Home Improvements

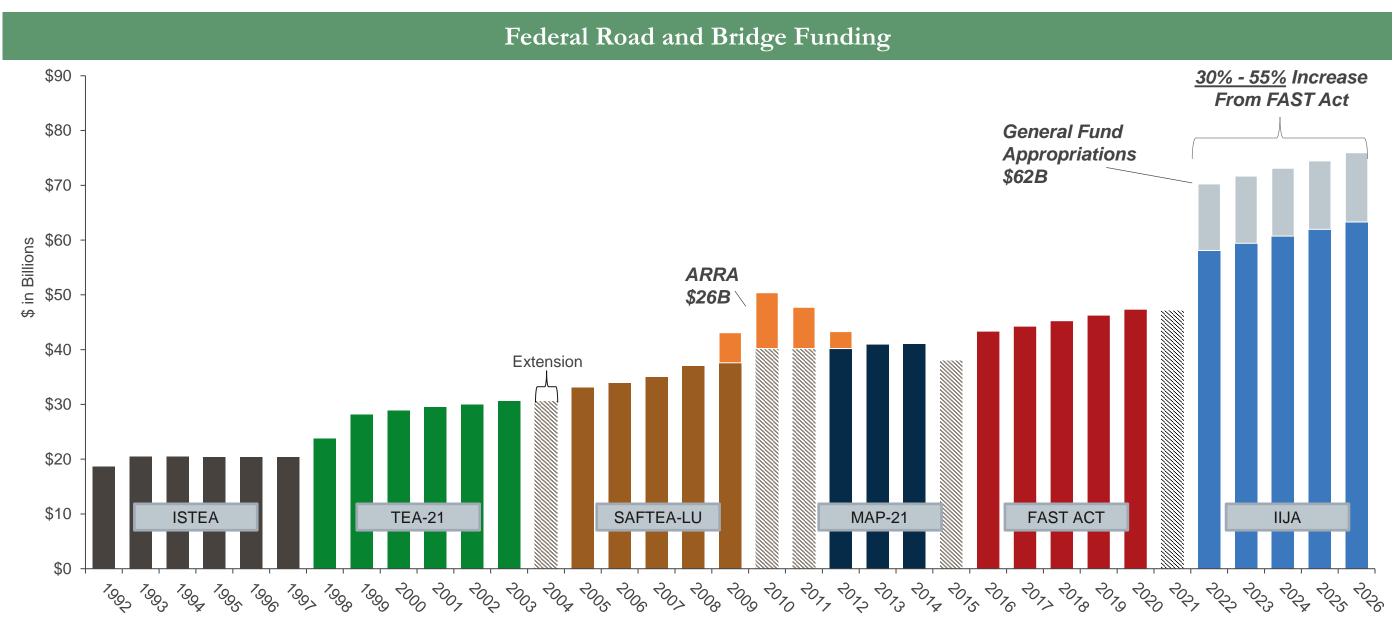
3 Nonresidential Buildings

Commercial	Public Safety
Manufacturing	Office
Transportation	Communication
Health Care	Lodging
Educational	Recreation
Religious	

Nonbuilding Construction – Comparison of Highway Authorization Bills



The IIJA is a "once-in-a-generation" infrastructure bill with huge implications for Construction Materials

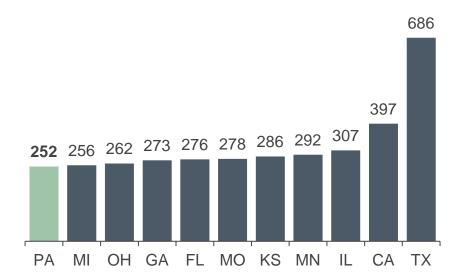


Nonbuilding Construction – Pennsylvania Funding



Road & Bridge Network

(in thousands) Miles of Roads by State



- Pennsylvania has the 11th most roadway based on miles in the country
- Per FHWA, as of 2022 Pennsylvania had 13.4% of bridges in poor condition

Pennsylvania State Funding

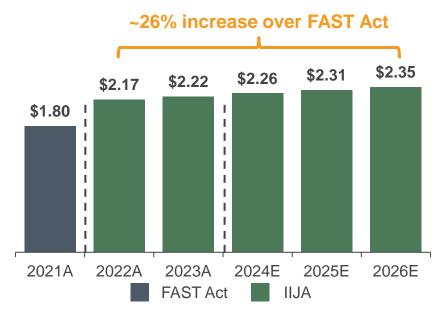
Motor License Fund – Highway Funding Initiatives



According to the 2023 – 2024 PA State Budget,
 \$9.5B will be apportioned to highway maintenance, capital projects, and safety initiatives over the next five years through the Motor License Fund

Increase in Federal Funding

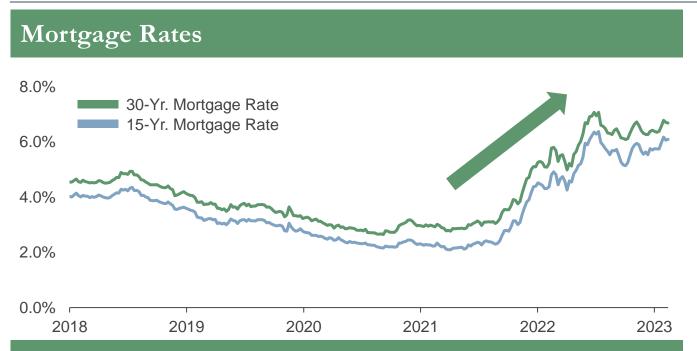




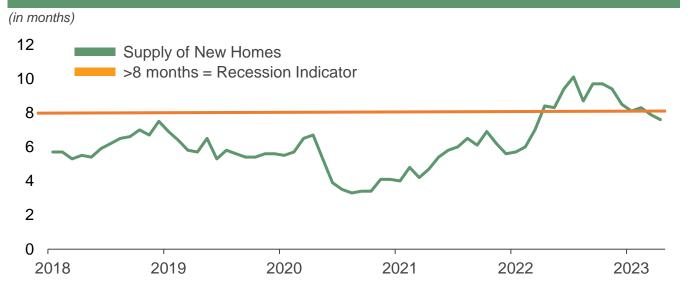
- IIJA provides Pennsylvania with ~\$11.5B to improve its roadway and bridge infrastructure, which represents ~26% increase over FAST Act
- Federal funds support ~43% of state capital spending in PA for highway construction, right of way purchases, and planning & design work

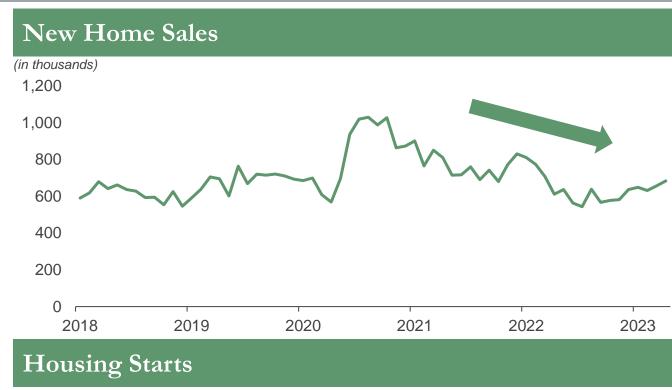
Single Family Residential Construction Dynamics

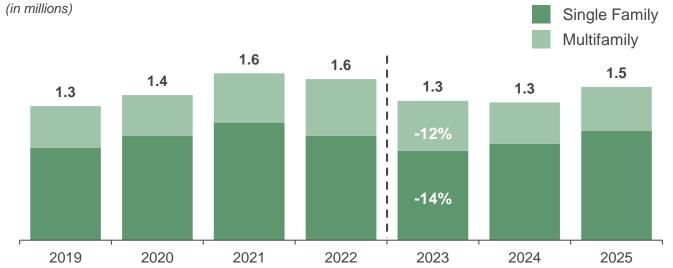




Supply of New Homes

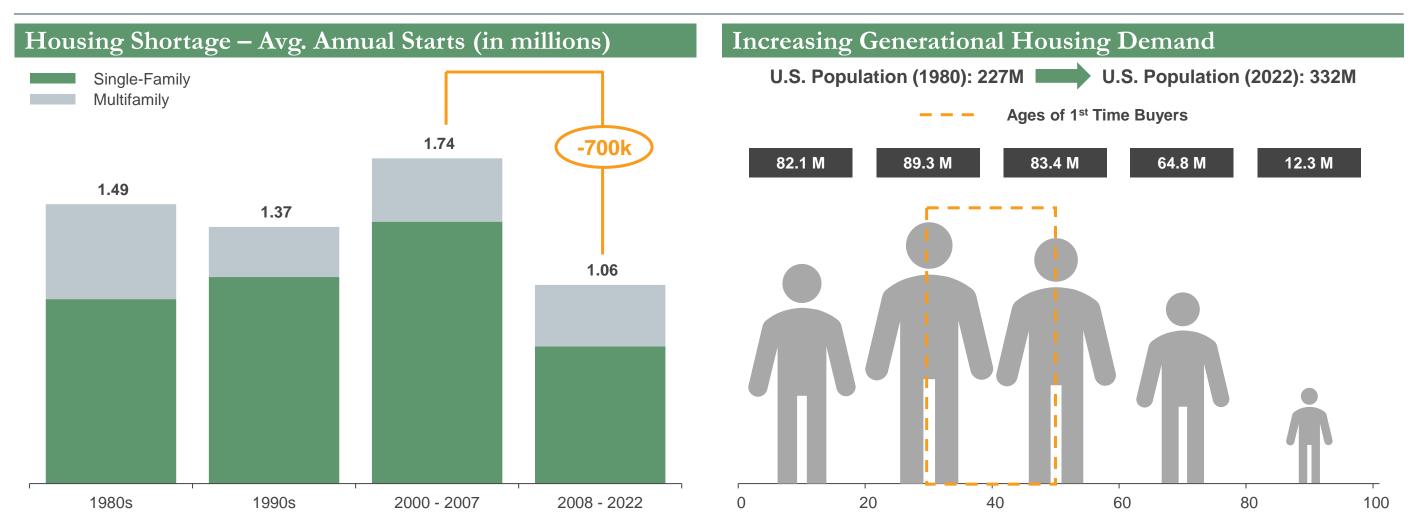






Residential – Demand





Continued demand for new housing brought on by:

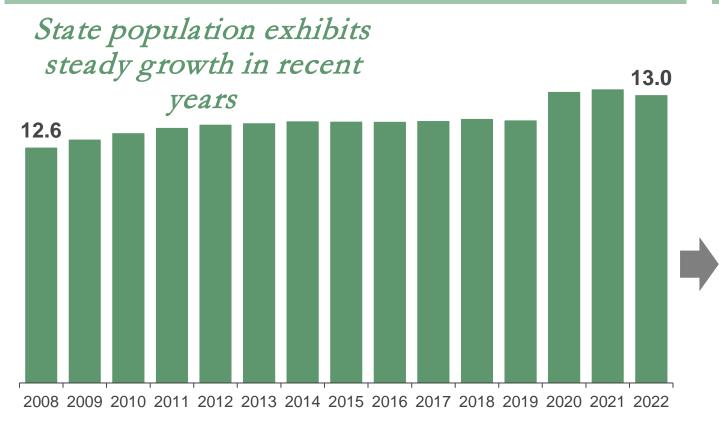
- 1) Existing homeowners unwilling to give up ~2% mortgage rates in current 6% to 7% environment
- 2) Decade+ period of declining housing starts
- 3) Generational demand with growing population of prime homebuying demographic

Residential Construction – Single Family



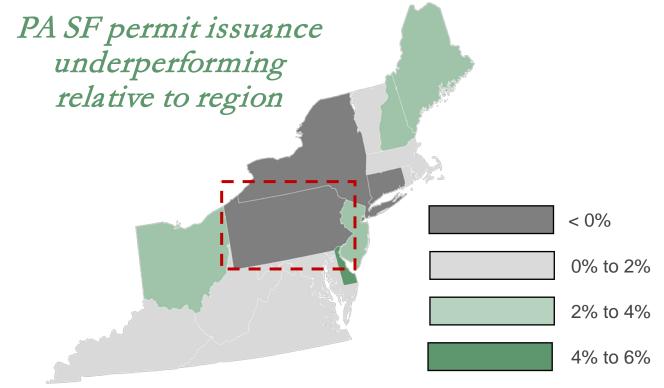
Population Migration

2008-2022 Pennsylvania Population Growth



Residential Construction – Single Family

Northeast Single Family Building Permit Issuance 2008-2022 CAGR



PA SF building permits outperform U.S. YoY through Apr '23

- Pennsylvania building permits: -25%
- U.S. building permits: -29%

PA SF starts show more resilience than the broader U.S. housing market

- Pennsylvania housing start projections 2023 & 2024: -10% and 14%
- U.S. housing start projections 2023 & 2024: -16% and 9%

Nonresidential Construction – A Mixed Bag



Key Areas of Nonresidential Construction Demand

One bad apple can spoil the barrel; one good egg doesn't make a dozen

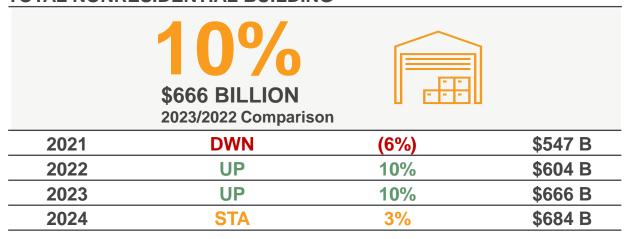
E-Commerce: Warehouse & distribution make up >50% of total Commercial spending

Manufacturing & CHIPS Act: CHIPS Act invests **~\$53B** in funding over the next 5 years

Travel & Entertainment: Post-pandemic life shows tailwinds for lodging and amusement & recreation

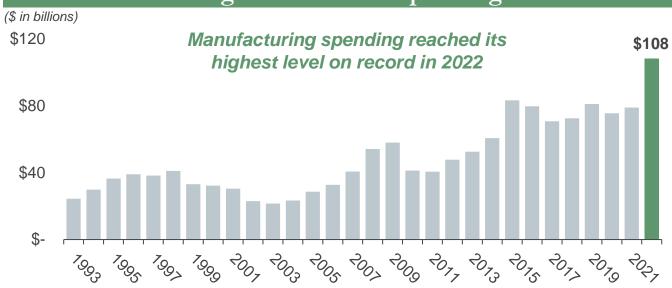
Commercial and Office: Remain a question mark with work from home culture shifts

TOTAL NONRESIDENTIAL BUILDING



YoY % Change	2021	2022	2023F	2024F
Manufacturing	5%	37%	27%	9%
Lodging	-36%	2%	16%	2%
Commercial	5%	22%	9%	-8%
Transportation	-7%	0%	8%	13%
Amusement and Recreation	-11%	7%	7%	3%
Health Care	0%	9%	6%	4%
Office	-7%	1%	5%	-3%
Educational	-11%	1%	4%	4%
Communication	3%	-1%	3%	6%
Public Safety	-31%	-8%	1%	8%
Religious	-16%	-1%	0%	-2%
Total Nonresidential Buildings	-6%	10%	10%	3%

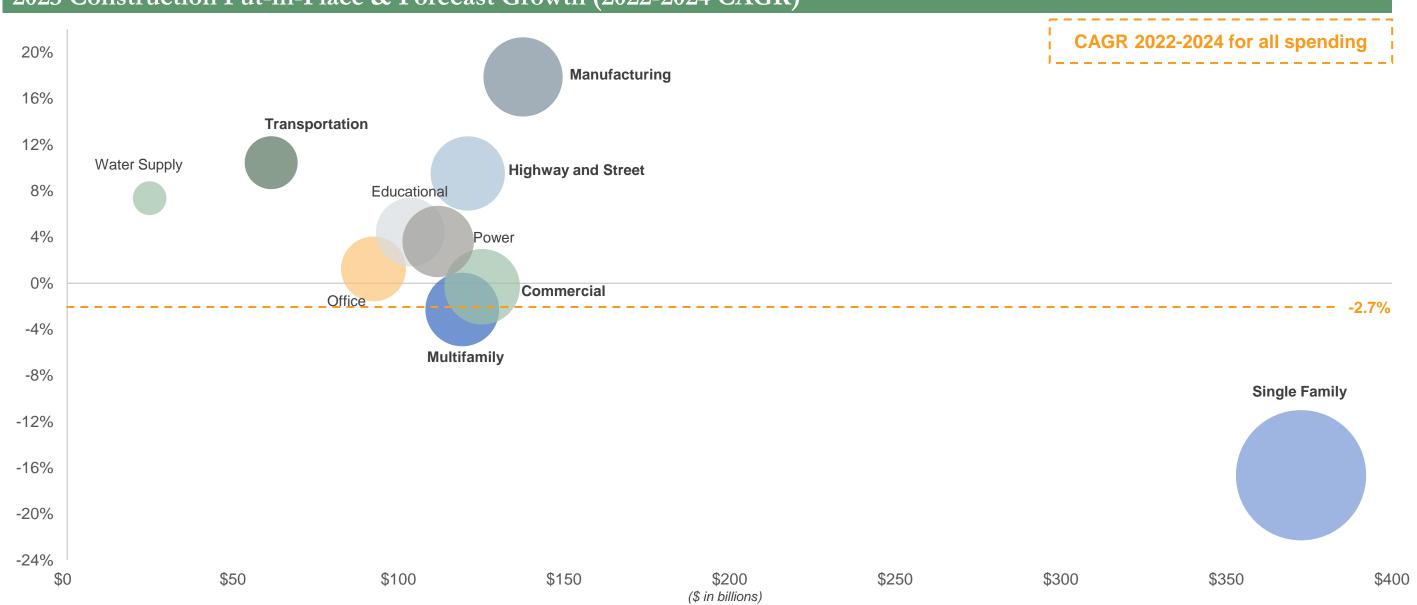
U.S. Manufacturing Construction Spending



Construction-Put-in-Place - Winners and Losers



2023 Construction Put-in-Place & Forecast Growth (2022-2024 CAGR)*



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All Construction is Local

More than 1-in-3 Construction Dollars are Spent in just 12 Markets

35% of U.S. CPiP

1. New York



2. Los Angeles



3. Dallas



4. Houston



5. Phoenix



6. Atlanta



7. Seattle



8. Washington, DC



9. San Francisco



10. Miami



11. Chicago



12. Riverside



50% of U.S. CPiP

13. Denver

17. Orlando

18. Tampa

21. San Diego

14. Austin

22. Portland

15. Boston

19. Minneapolis

16. Philadelphia 20. Charlotte

Headwinds



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? Potential Recession

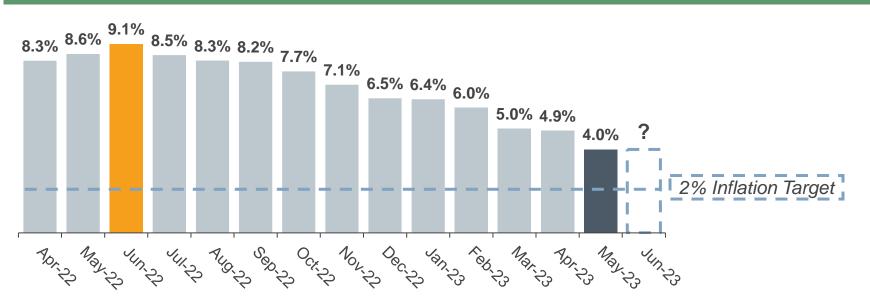


Labor

Inflation – What the Fed is Watching

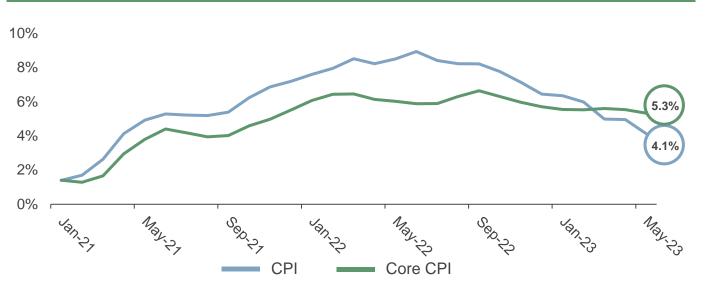


Headline CPI

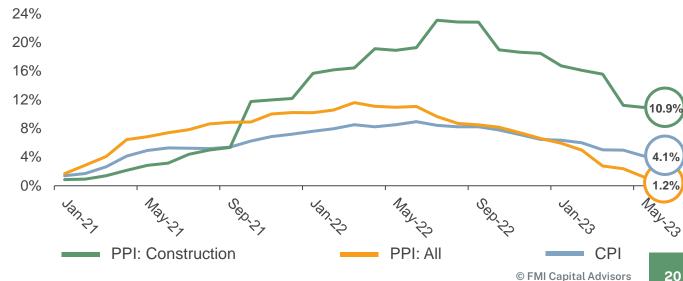


- CPI has declined 11 consecutive months
- Stubborn "Core" figures remain elevated relative to headline measurements
- Construction PPI is higher than broader inflation measurements

Inflation Metrics



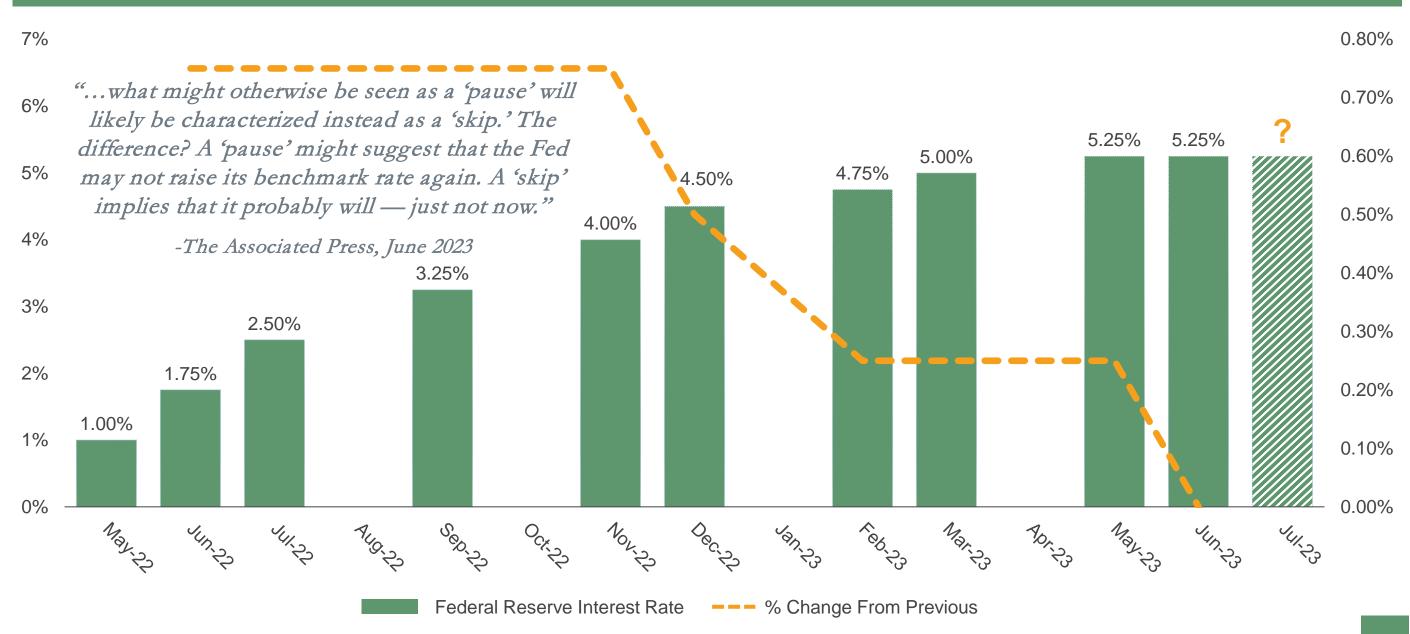
Producer Price Index – Construction vs All



Federal Reserve Easing Rate Hikes



Federal Reserve Interest Rate, May 2022 – June 2023



Potential Recession

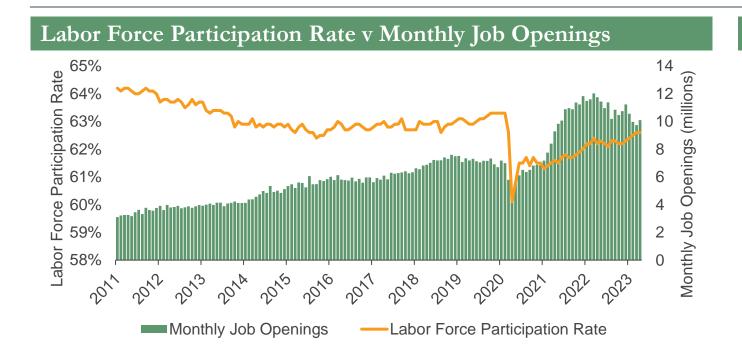


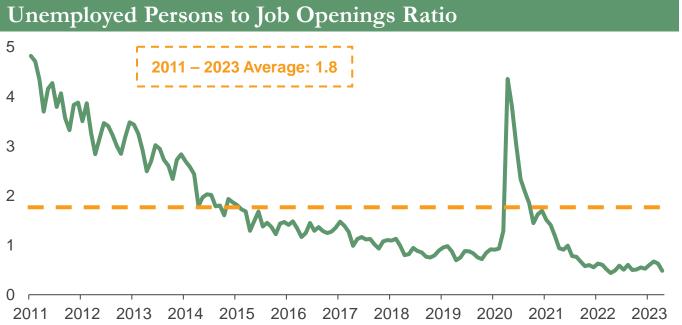
Real GDP C	hange		
(Annualized, seasonally a	ndjusted)		
		The Recession Is Always Six Months Aw	vay
40%	35.3%	"Economists surveyed by the WSJ in April the probability of a recession above 50%. Ethey have said that since October (2022), at the recession appears no closer - The Wall Street Journal	But and
20%		was and the same of the same o	
2.7% ^{3.6%} 1.8°	-4.6%	3.9% 7.0% 7.0% 3.2% 2.6% 1.3% 1-1.6% -0.6%	.9%
		Potential Good News:	
-20%		Construction usually lags the	
		market by 8-12 months	
	-29.9%	''	
-40%	104 00 00		
Q2 Q3 Q4		Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q	J2E
2019 2020		2021 2022	

Predictive Indicators	Prediction Strength Historically	Risk Assessment
Yield Curve Inversion	100%	High
New Home Sales	86%	High
Money Supply	75%	High
U.S. Trade Balance (BOP % Change)	57%	High
MBS Held by Banks	50%	High
Months Supply of New Homes	50%	High
Unemployment Rate	71%	Moderate
Lumber Sales	67%	Moderate
Stock Market Performance	50%	Moderate
Copper Price	50%	Moderate

Labor





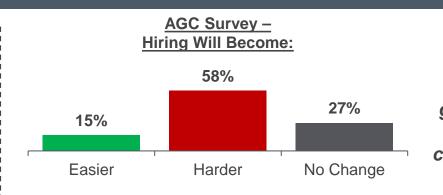


Labor force participation has not fully recovered to pre-pandemic levels while job openings remain high

Dwindling Construction Workforce



41% of the current construction workforce will be retired by the year 2031

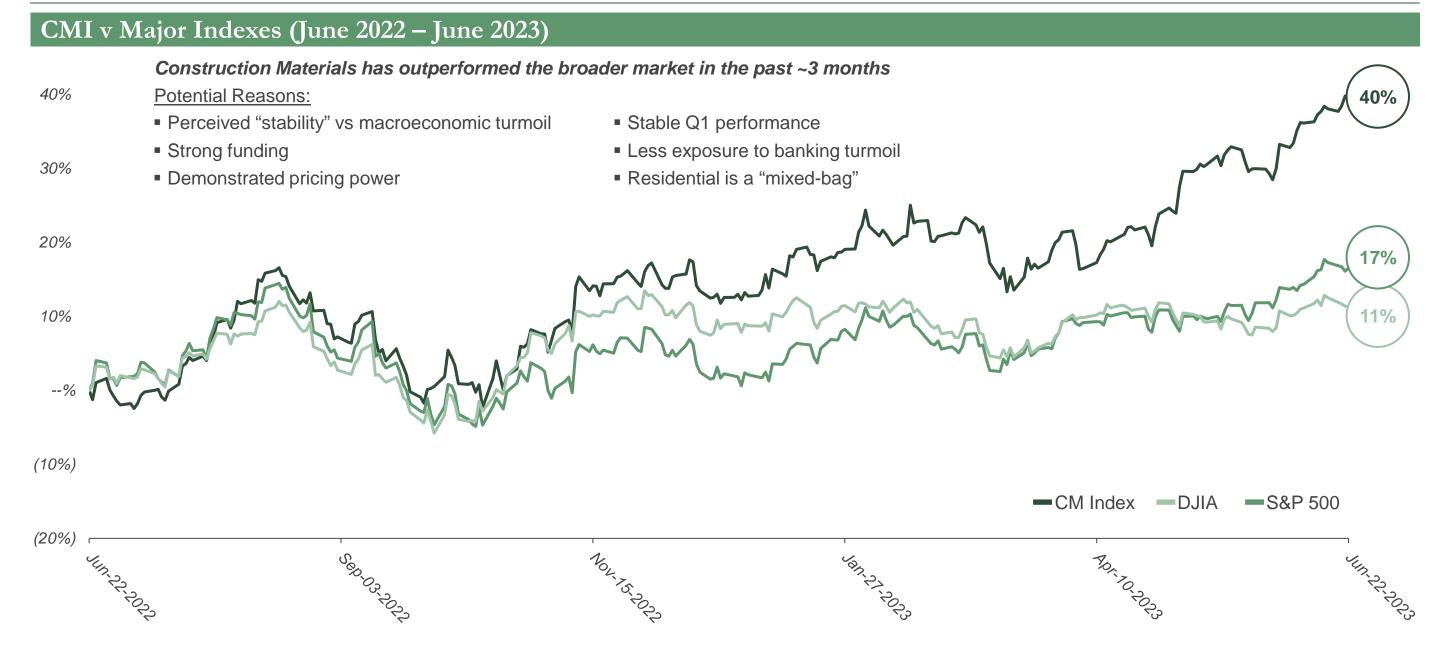


Recruiting the next generation of talent will be key in mitigating the construction labor shortage

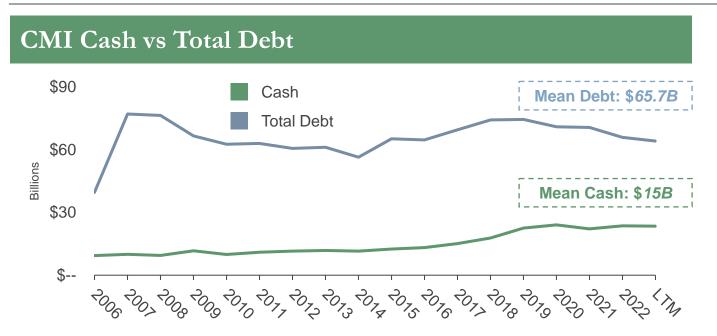


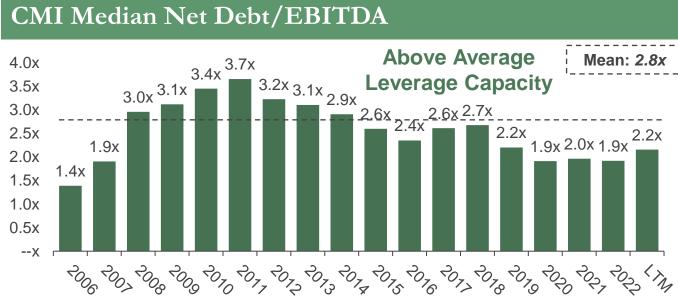
Capital Advisors Industry Sentiment & Performance

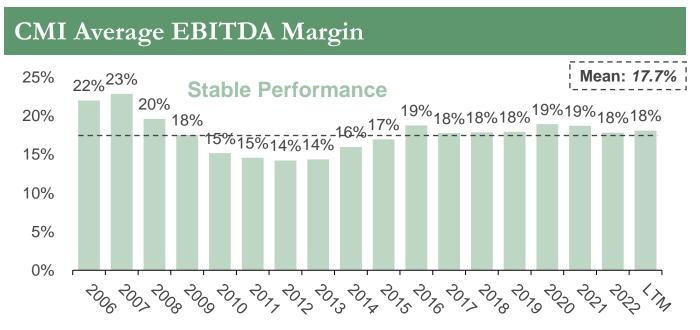
Public CM Company Performance

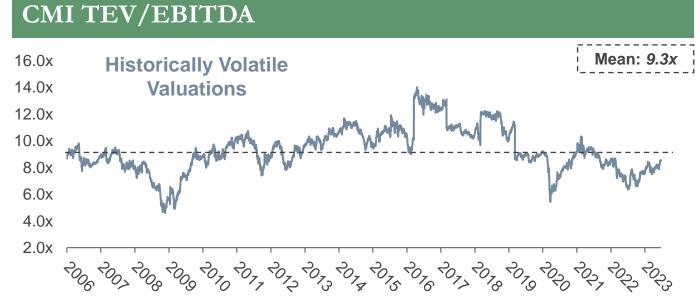


Public CM Companies – Checking the "Vital Signs" (Positioned for Growth)



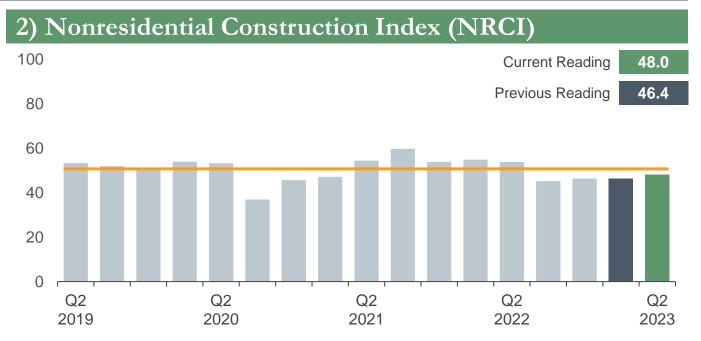






How Confident is the Market?





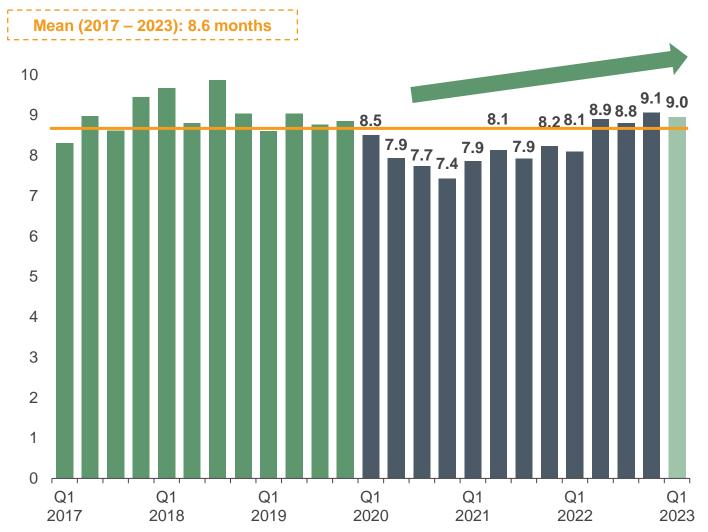


- FMI's NRCI and HCCI surveys ask one question: "What is the outlook for your business next quarter"
- Readings above 50 on all the indexes indicate expansion
- Homebuilders & industry experts are hesitant but not overly pessimistic

Backlogs and Employment

As backlogs continue to build, CM firms will be looking to add more employees to perform the work

U.S. Construction Backlog by Quarter (in months)



AGC Survey for Hiring Expectations over NTM



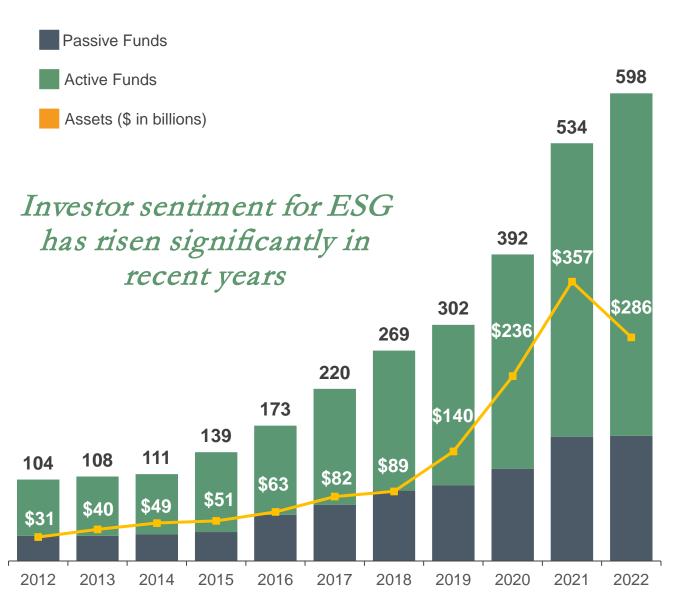
Trends & Takeaways



Trends - Environmental, Social, and Governance (ESG): CM Specific



Growing Number of U.S. Sustainable Funds



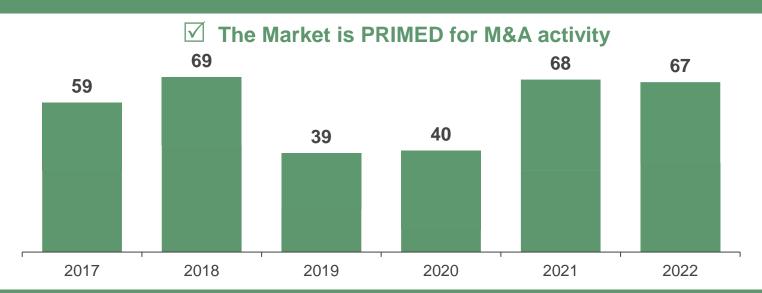
CM-Specific Initiatives



Mergers and Acquisitions

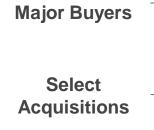


CM Deals 2017 – 2022



- 2019: CM players lost substantial market cap in late 2018 leading to uncertainty in 2019
- H1 2020: Sector experienced low deal volume due to COVID
- **H2 2020 2021:** Deals have increased due to returned optimism
- 2022: M&A continued at a high level due to IIJA expectations
- 2023: Flight to safety with bolt-on acquisitions

Recent activity from "Majors"







SYAR







CO, TX, & WY

28 RMC plants in

NY, NJ, & PA





AngelBrothers



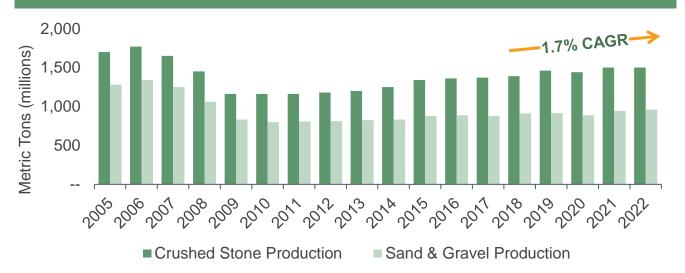


CALPORTLAND

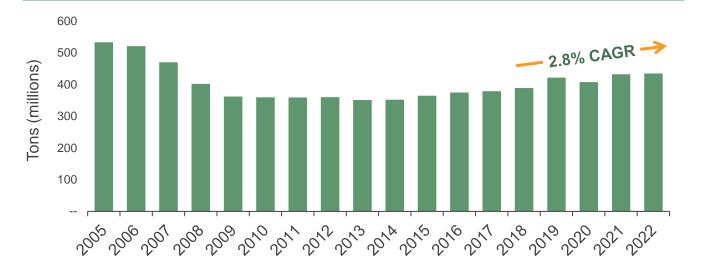
Global uncertainty has forced investors to a "flight to safety" for CM buyers, those targets are bolt-on acquisitions

U.S. Construction Materials – Growth is Steady but Modest

U.S. Construction Aggregates



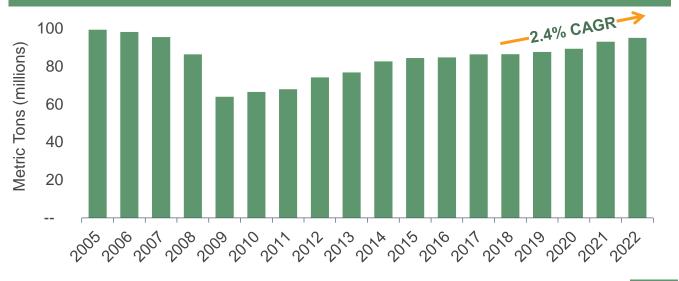
U.S. Asphalt Tons Produced



U.S. Ready-Mixed Concrete Produced



U.S. Cement Production (Domestic)



32

© FMI Capital Advisors
Source: USGS, NAPA, NRMCA

Outlook for Construction Materials

Category	Sentiment	Outlook
Demand		Near-term demand remains strong
<u>Pricing</u>	1	Pricing will continue to improve
Backlogs	1	Backlogs remain healthy
Public Funding		Committed public funding will sustain the CM Sector
<u>Weather</u>		CM Companies will continue to closely monitor weather patterns in their markets
<u>Residential</u>	-	Any downturn or recession will depend on strength/weakness of the private sector residential in particular
The Construction Materials industry is well-positioned to weather a potential macroeconomic downturn		



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Scan for industry insights, recent transactions, and an overview of FMI Capital Advisors
Construction
Materials

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