



ANTITRUST STATEMENT

The Portland Cement Association assigns the highest priority to full compliance with both the letter and the spirit of the antitrust laws, and it is vital that this meeting be conducted in a manner consistent with that policy.

If at any time during the course of the meeting, PCA counsel or staff believe that a sensitive topic under the antitrust laws is being discussed, or is about to be discussed, they will so advise the meeting and halt further discussion.

As attendees at this meeting, you should likewise not hesitate to voice any concerns you may have in this regard. It is important to bear in mind that those in attendance at this meeting may be your competitors.

Any discussions of commercial matters with one's competitors may create the appearance of an antitrust violation, even though there is none. Therefore, such discussions should be avoided at all times before, during, and after this meeting



Today's Agenda

•	Welcome/Introduction	Ed Sullivan	1:00 PM - 1:15 PM
•	PCA US Cement Outlook	Ed Sullivan	1:15 PM – 2:15 PM
•	Moody's National & Regional Outlook	Sarah Crane	2:15 PM - 3:15 PM
•	Break		3:15 PM - 3:30 PM
•	PCA Regional Outlook	Joe Chiappe	3:30 PM - 4:30 PM





Market Intelligence Group

Data and its interpretation and analysis are the cornerstone for good business decisions. PCA's Market Intelligence Group has one mission and that is to transform data into information, and information into insight and guidance.

To this end, Market Intelligence targets four specific areas of information support including:

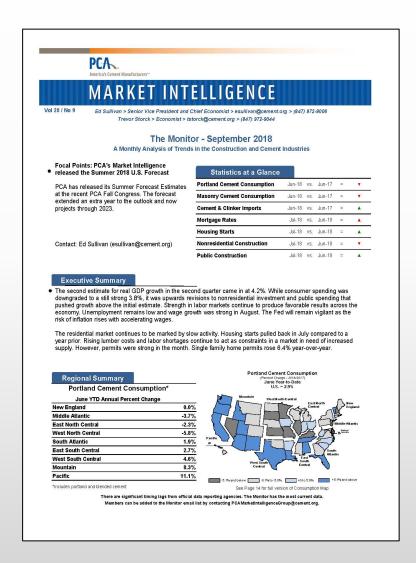
- Forecast assessments and market tracking,
- Legislative and regulatory advocacy support,
- Market research, market share intelligence, and development support.



U.S. Reports & Service

260 Reports Released in 2021.

- Monitor
- Tracking Report
- Consumption Trends Report
- Shipments Report
- Competitive Materials Report
- National Forecasts
- Regional Forecasts
- County Forecasts
- State Ranking Reports
- US Invue
- Flash Reports
- Annual Yearbook
- MSA Ranking Report
- Data Dashboard

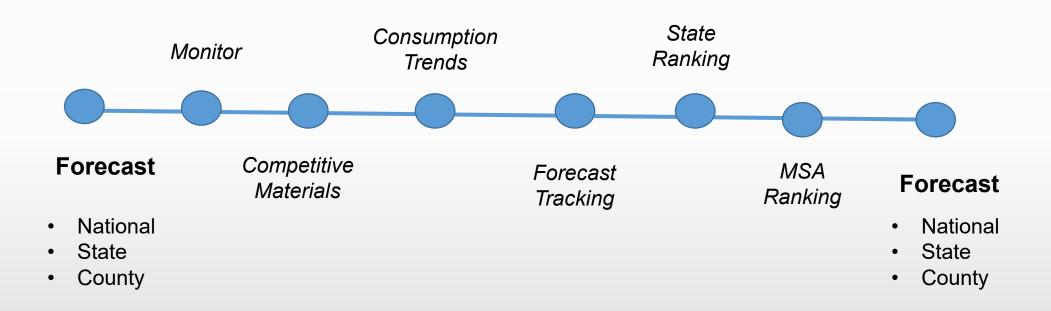


Highlights

- Nearly 1,000 persons follow our regular reports.
- 610 PCA member subscribers.
- Member personnel ranges from logistics, plant managers, sales and marketing, to CEOs.
- US & Parent member subscribers.
- 29 Associate member subscribers.
- More than 5,000 hours of direct member & allied support.
- More than 300 non-member subscribers that include banks & financial, industry suppliers, & consultants.



U.S. Reports & Service: Strategy of Reports





Advocacy Support: Data & Policy Assessments

Data

The strategic plan for advocacy support is driven by Washington, D.C.

To this end, MI regularly collects industry specific data through surveys of cement manufacturers. This data is the foundation of PCA advocacy efforts.

- Plant Info Survey
- Labor-Energy & Energy Star
- Sustainability Survey
- RPG Model & State Fact Sheets
- Specialized Surveys

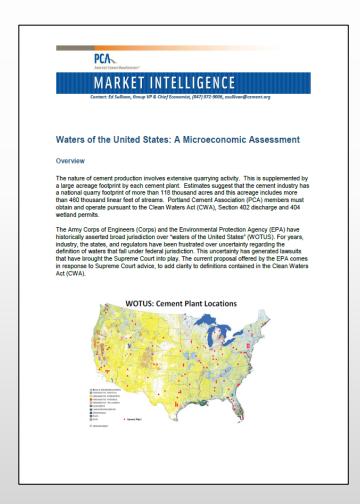
Assessments

Being able to leverage this data in response to specific regulatory pressures allows for unique industry advocacy analysis.

PCA Market Intelligence regularly assesses the industry impacts of various legislative and regulatory proposals

These reports will often be supplemented by special member surveys to get unique industry data specific to the issue at hand.

- Cross-State Air Pollution Rule (CSAPR) for Nox
- NAAQS PM 2.5. It is anticipated that EPA will lower the annual standard to either 8 or 10 micrograms per cubic meter (ug/m3) from the current level of 12 ug/m3. MI will perform an economic impact study on the proposed change.





PCA Market Intelligence's Dashboard



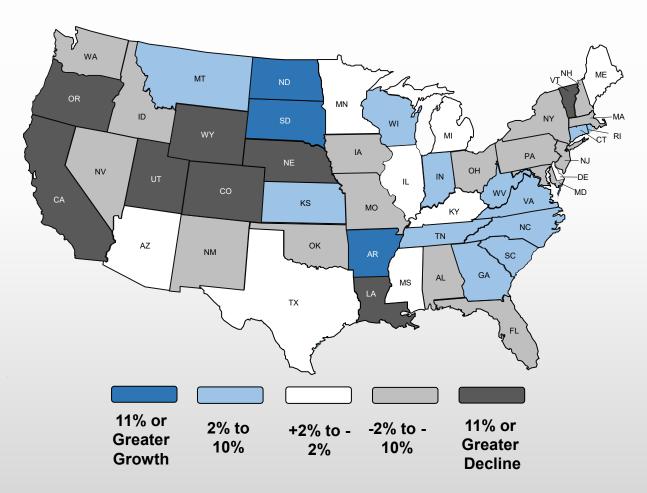


Introduction



Cement Consumption

%, Implied YTD through September 2023



Growth Rates by Region YTD - September

East South Central	0.9%
South Atlantic	0.0%
East North Central	-0.7%
West North Central	-2.8%
West South Central	-3.0%
New England	-4.6%
Mountain	-7.0%
Middle Atlantic	-10.4%
Pacific	-13.3%
United States	-4.3%

Source: USGS/PCA



General Economic Context



The Economy is Strong....But...

Current Strength

- The economy recently recorded 4.9% growth.
- More than 2 million net new jobs have been created this year.
- The unemployment rate stands at a low 3.8%.
- All of this has been bolstered by strong consumer spending.

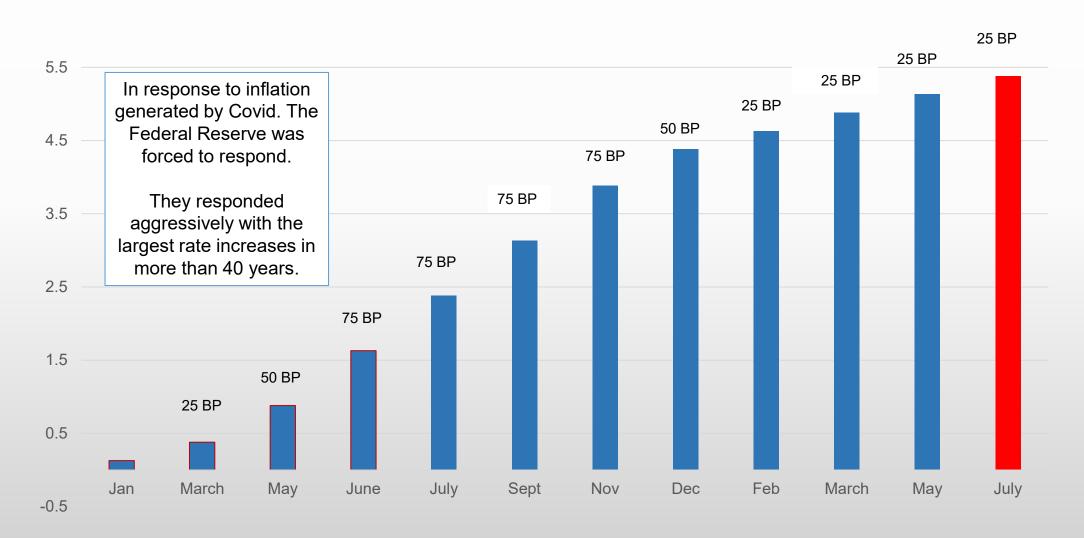
Headwinds Lie Ahead

- Interest rates are high and will remain high for some time.
- Long lags exist in monetary policy and the harshest impacts of all the rate hikes still lie ahead.
- Consumers' saving cushion and support from Covid relief programs are quickly disappearing.
- Access to capital and credit tightening is emerging.



Federal Reserve Responded to Elevated Inflation check chrt

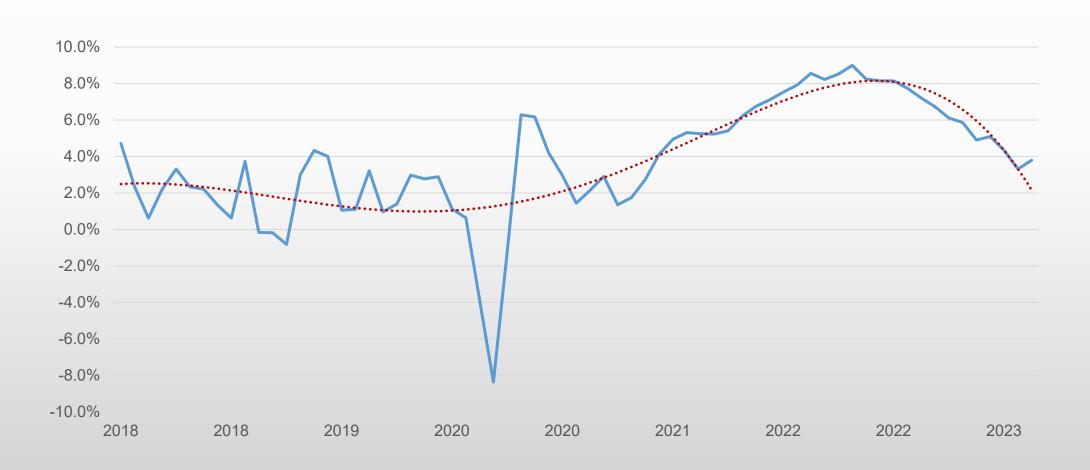
Fed Funds Rate



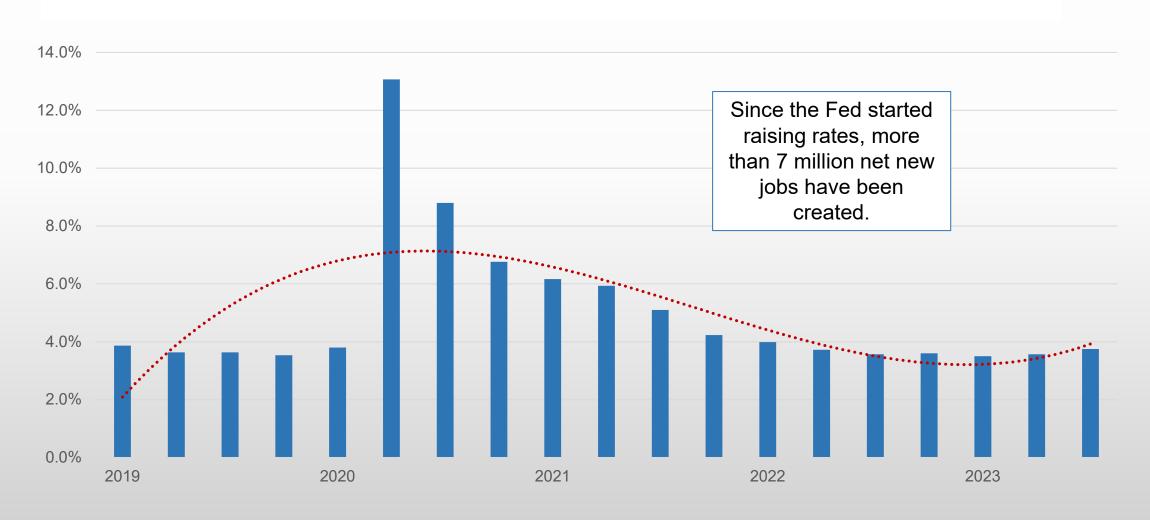
Inflation Has Improved...check data

Consumer Price Index

- BLS

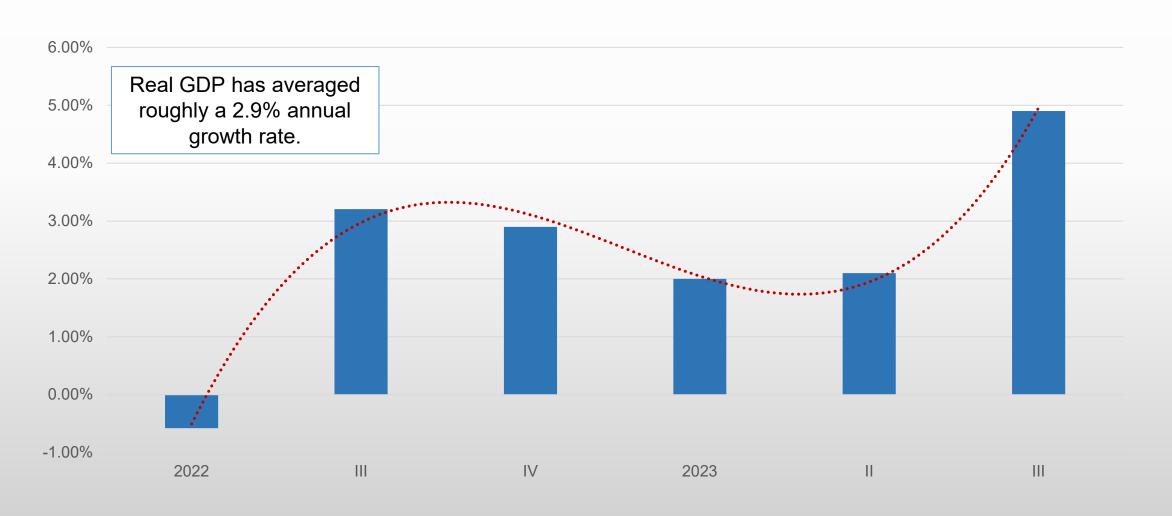


And Yet.... Labor Markets Have Remained Strong Unemployment Rate



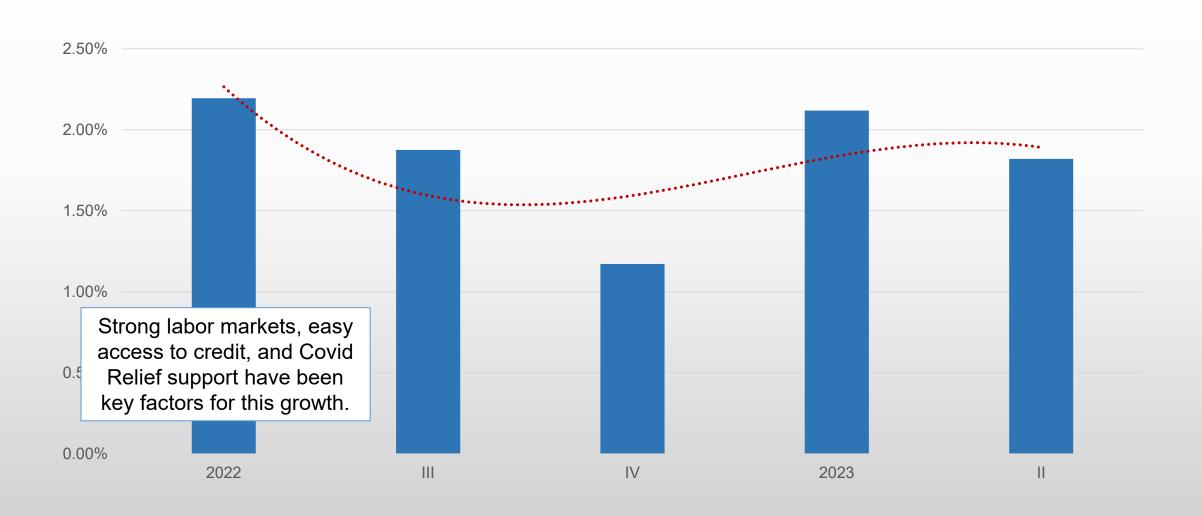
Economic Growth Has Not Been Shaken...

Annual Y-O-Y Growth Rate





Consumer Spending Has Been the Key Source of Strength Annual Y-O-Y Growth Rate





But...Headwinds Lie Ahead



Macroeconomic Headwinds

Assessed

Student Loan Hiatus Ends

Sunset of Covid Relief Programs Lagged Impact of FF Increases

Savings Cushion Depleted

Credit Tightening

Transitory

Spikes In Oil Prices

Government Shutdown

UAW Strike Impacts

Global Political Unrest

These areas could represent forecast risks to the extent they persist and are not assessed.

Sustained oil prices and potential reduction in US Government credit rating are viewed as largest risks.

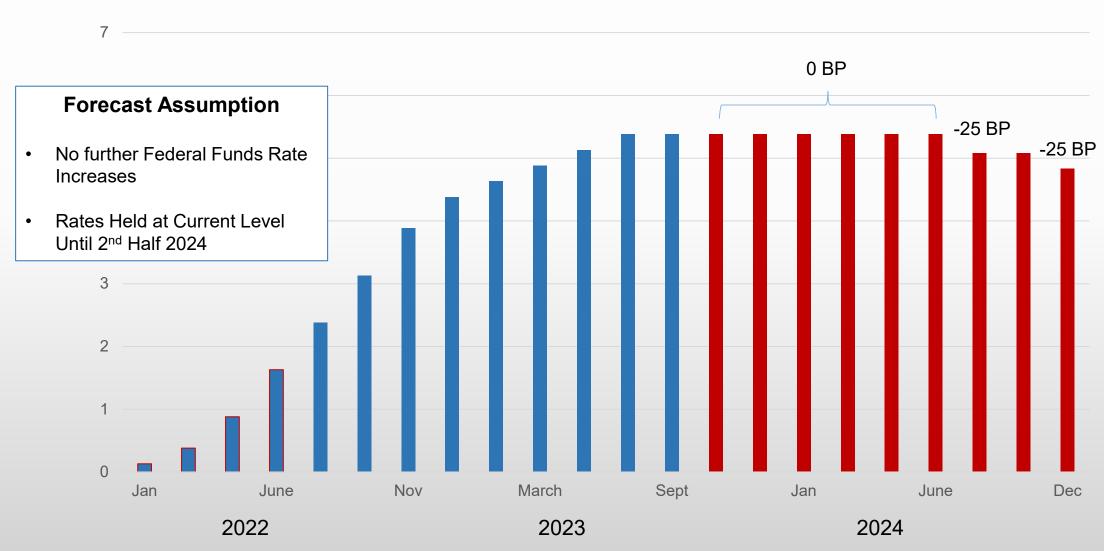


Monetary Policy Leans Against Economic Growth Throughout the Forecast Horizon



Federal Reserve's Federal Funds Outlook

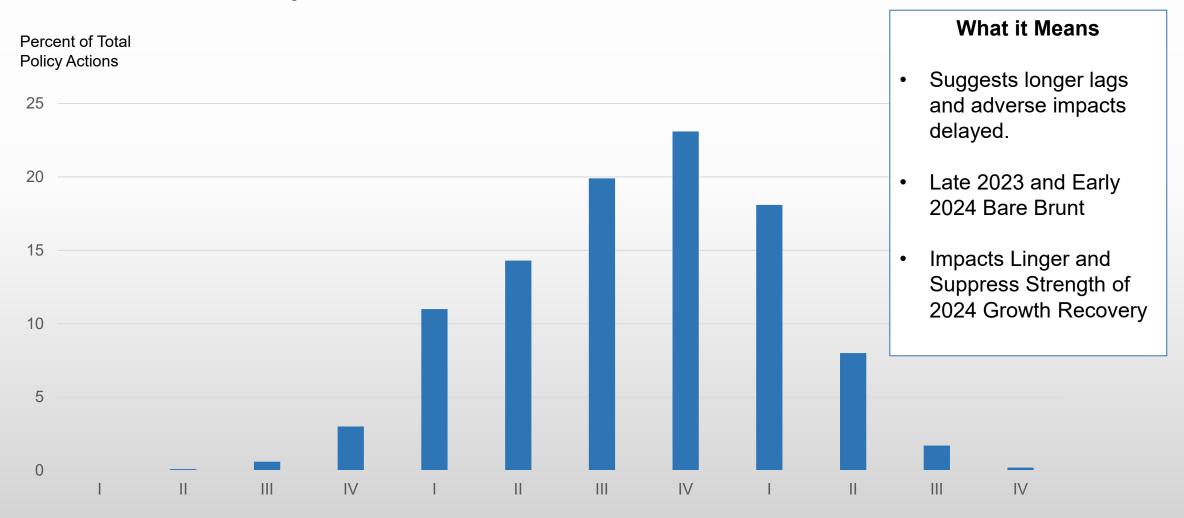
Fed Funds Rate





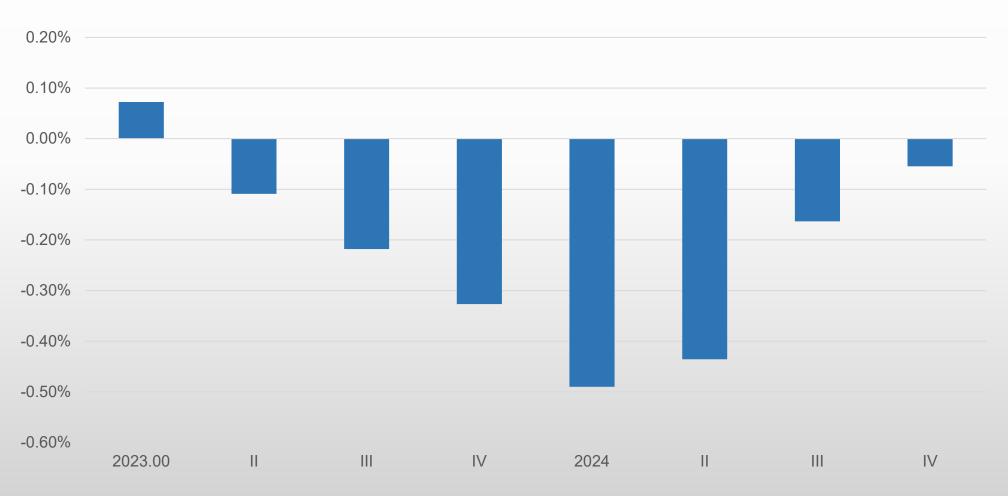
Monetary Policy: Lag Structure Revisited Skew

- In-Place & Projected Additional Actions



What This Means.....

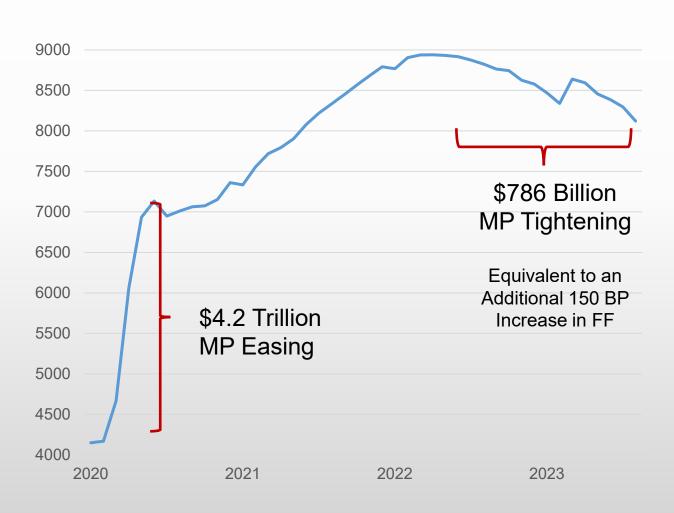
Rate Increases Quarterly Impact on GDP





Monetary Policy: It's More than Federal Funds Rate

Federal Reserve Assets

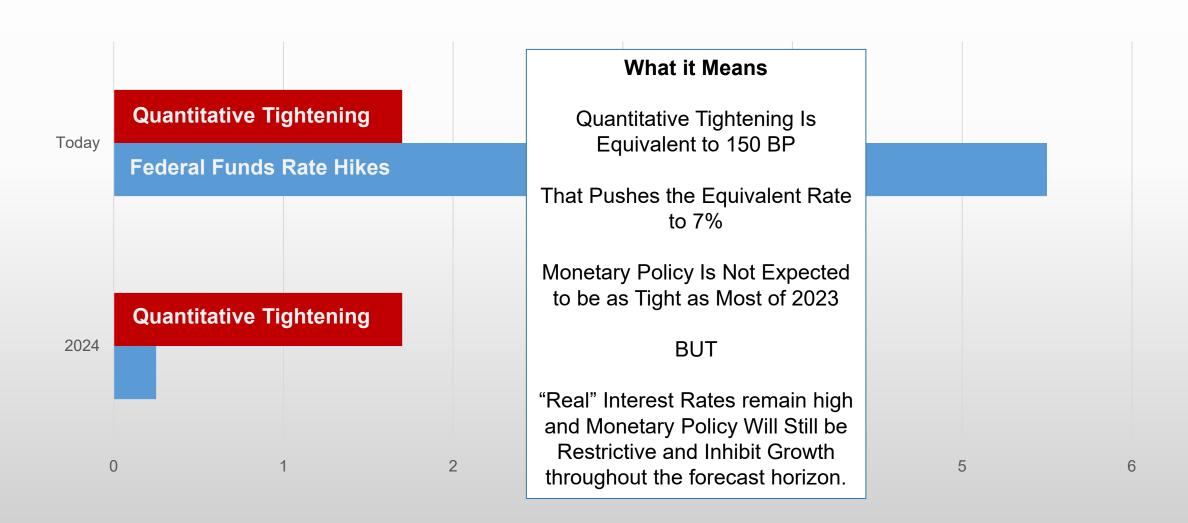


Quantitative Monetary Policy (Q)

- Changes in the Interest Rates as a result of manipulating the purchase & sale of financial assets.
- Buy Assets Results in lower interest rates
- Sell/Retire Assets Results in higher interest rates
- Assets : (T-Bills & Mortgage Backed Securities)



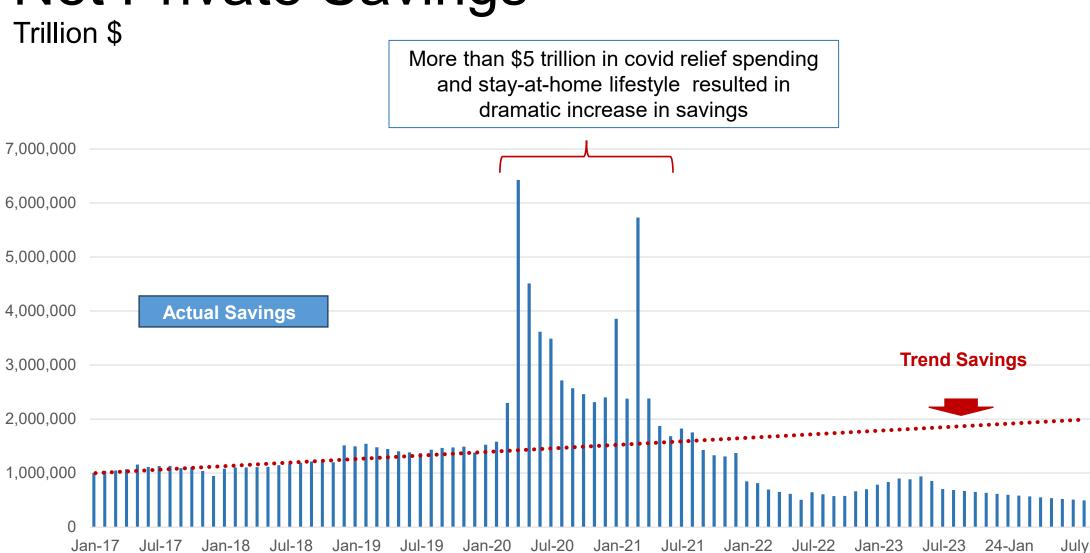
Monetary Policy Still Tightens Even If The Fed Stops Raising the FF Rate





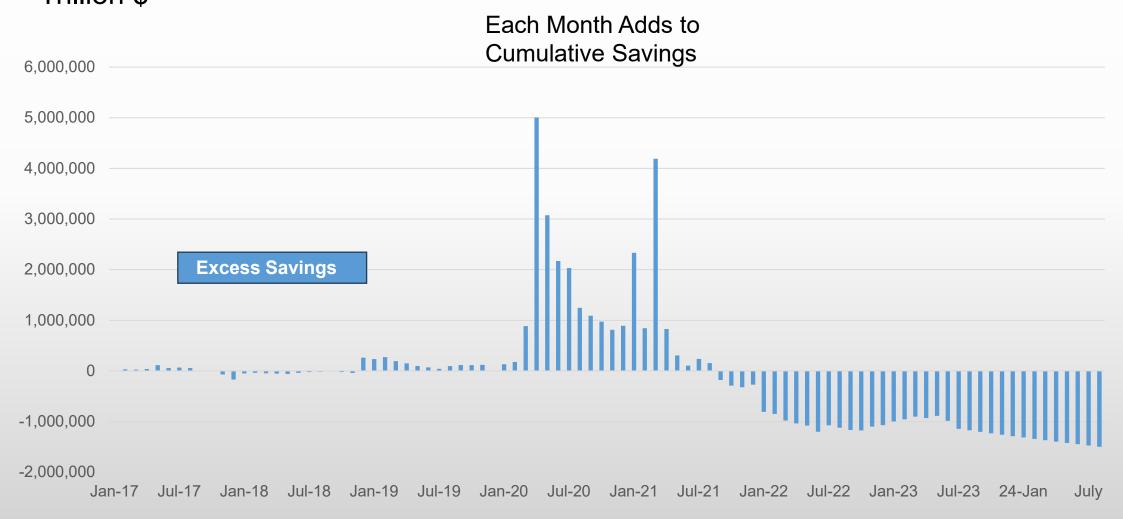
Consumers Strength Will Be Challenged

Net Private Savings

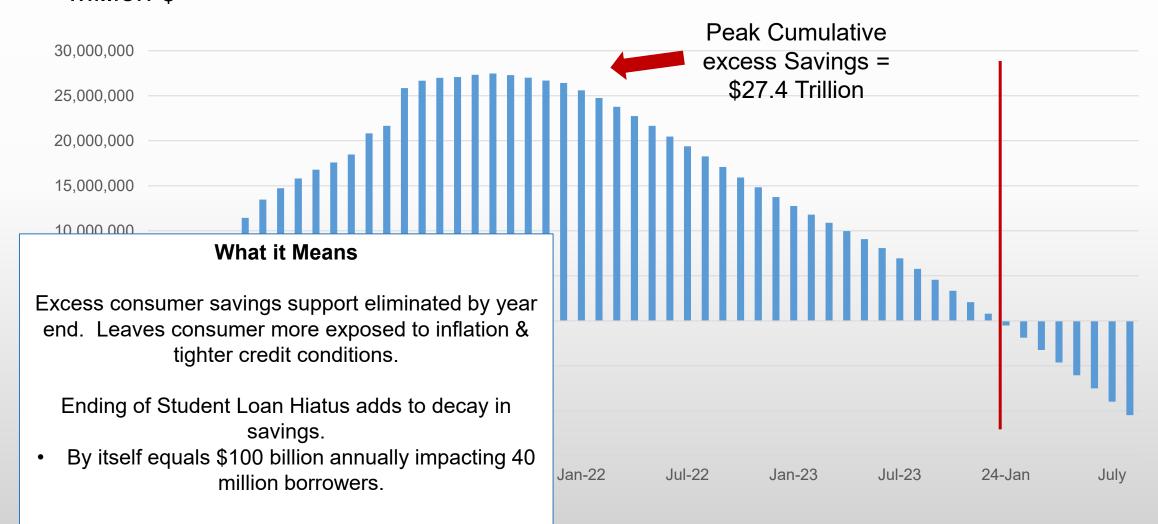




Excess Savings Trillion \$



Cumulative Excess Savings Million \$

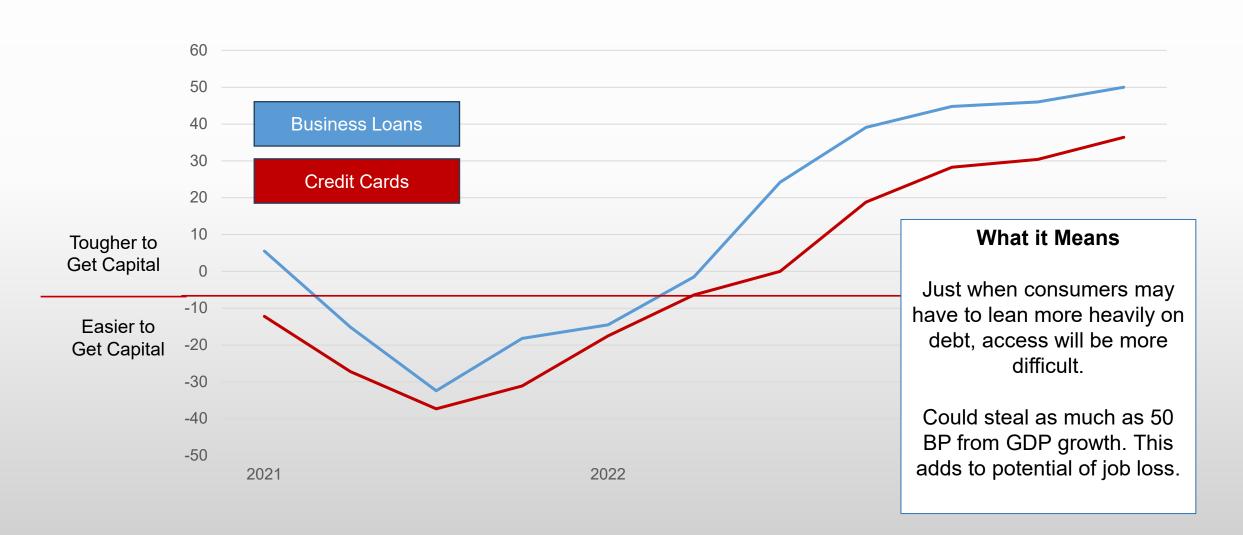




Credit Conditions Are Tightening

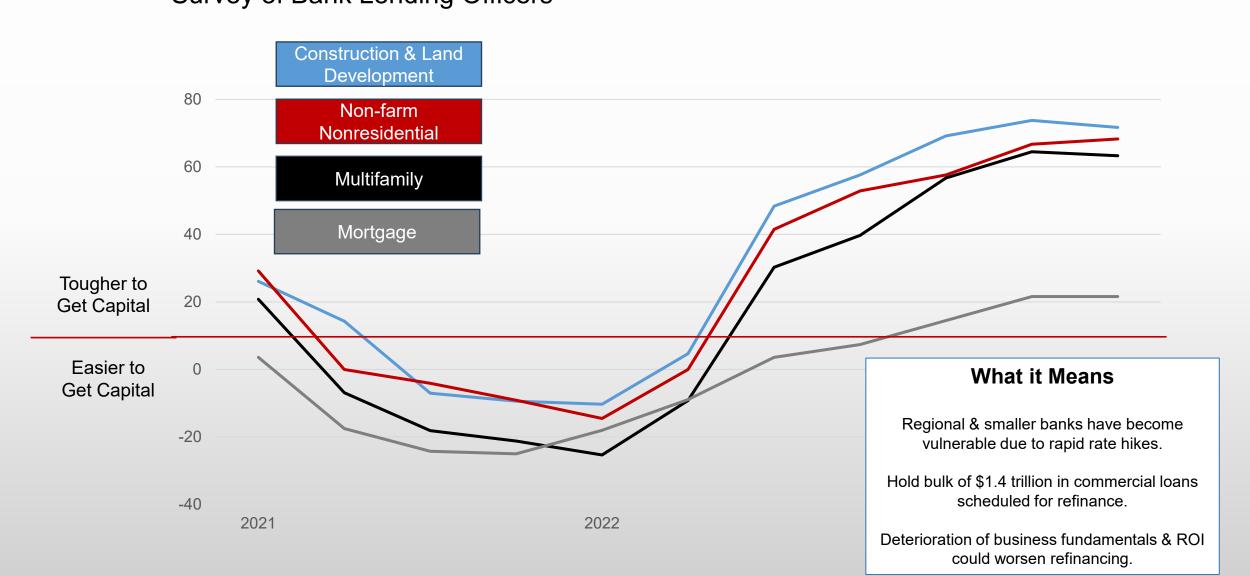


Credit Standards are Tightening: Economy Survey of Bank Lending Officers





Credit Tightening Has Specific Risks for Construction Survey of Bank Lending Officers



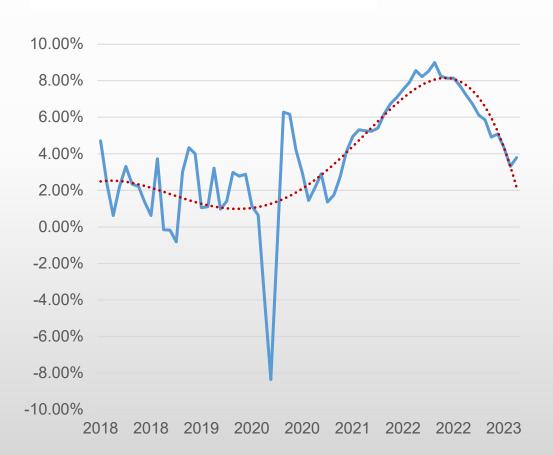


Macroeconomic Summary

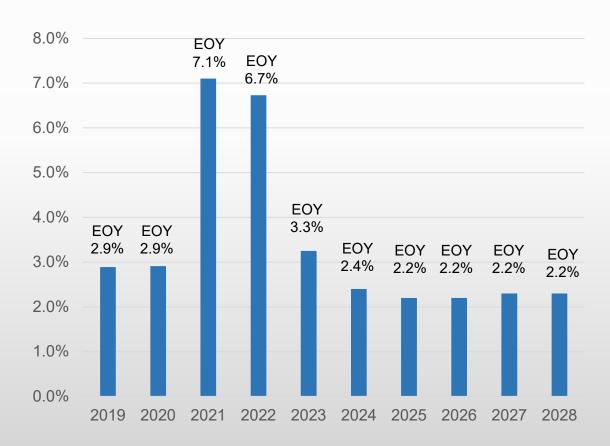


Inflation Improvement

Consumer Price Index - BLS



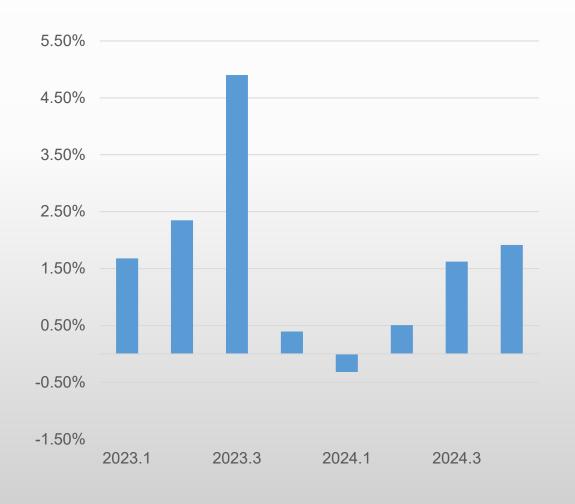
Inflation Outlook CPIU % Change, Monthly Average





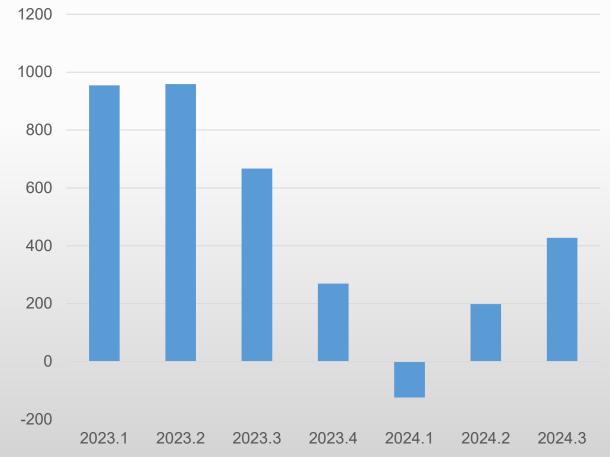
An Economic Slowdown is Likely, But No Recession

Economic Growth Will Slow GDP Growth Rate



Job Losses Will Briefly Materialize

Quarterly Change in Employment, Thousands Average Monthly Rate





Construction Summary



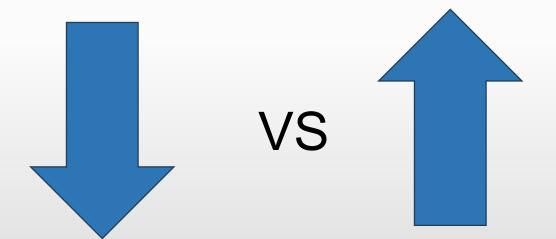
Construction Outlook: 2024

Reflects a battle between interest sensitive construction sectors against longer term construction commitments

The Burden of High Interest Rates

Tight Lending Standards

Weakened Economy



Higher Volumes Attributed to IIJA

Onshoring Plant
Construction
(Limited to Regional
Impacts)



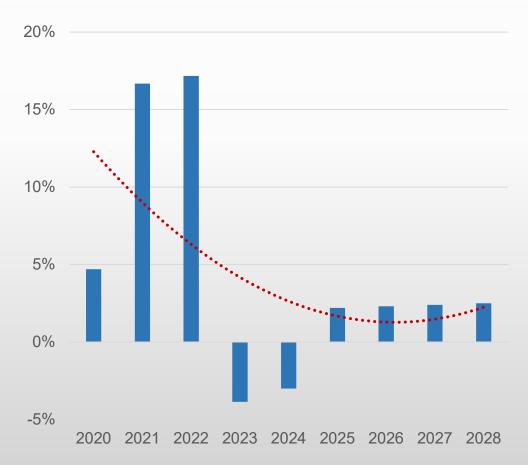
Residential



New Home Affordability

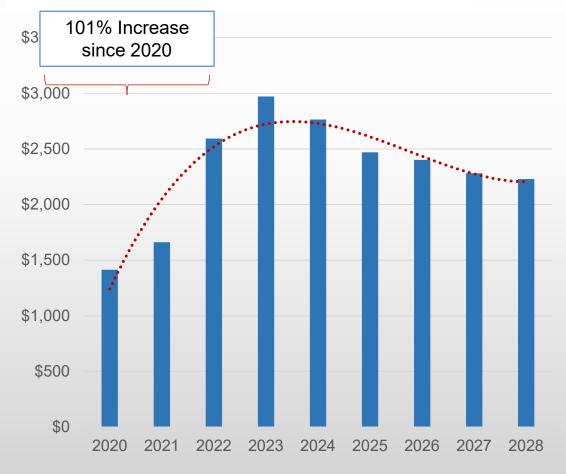
New Home Price Outlook

Annual % Growth



Monthly Payment



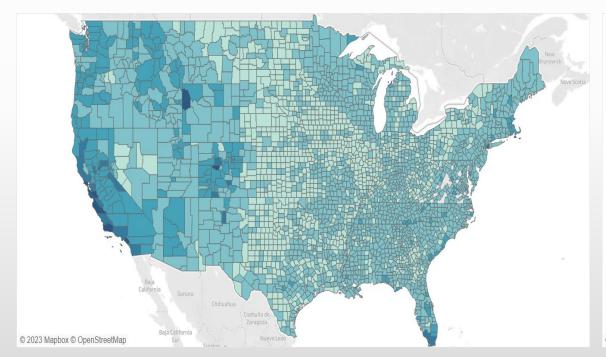


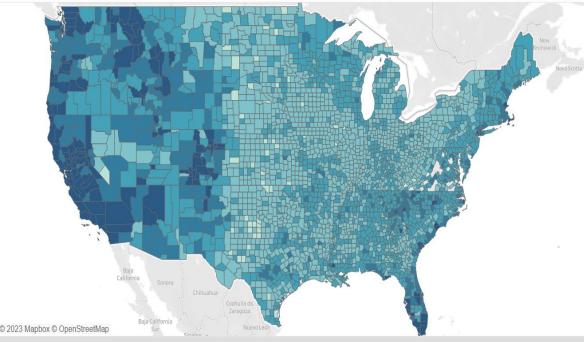


Affordability Has Deteriorated Across the Country

Median mortgage payment share of median family income

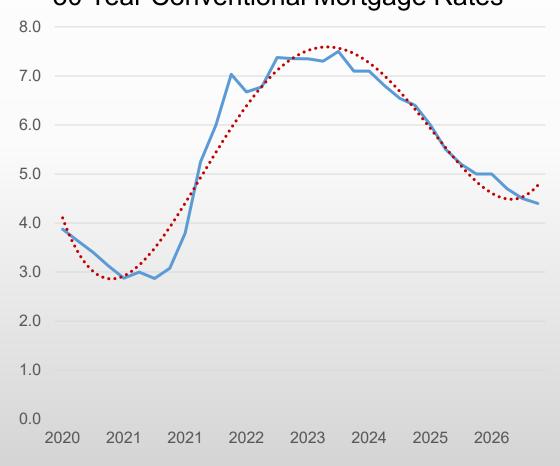
2020 Q2 2023 Q2



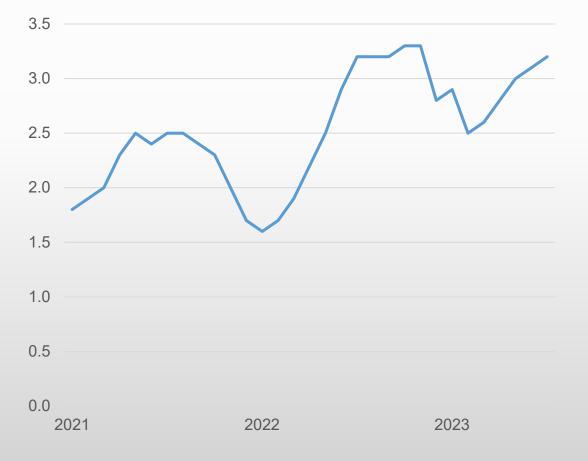


Affordability Erosion Is Not Expected to Improve Soon....



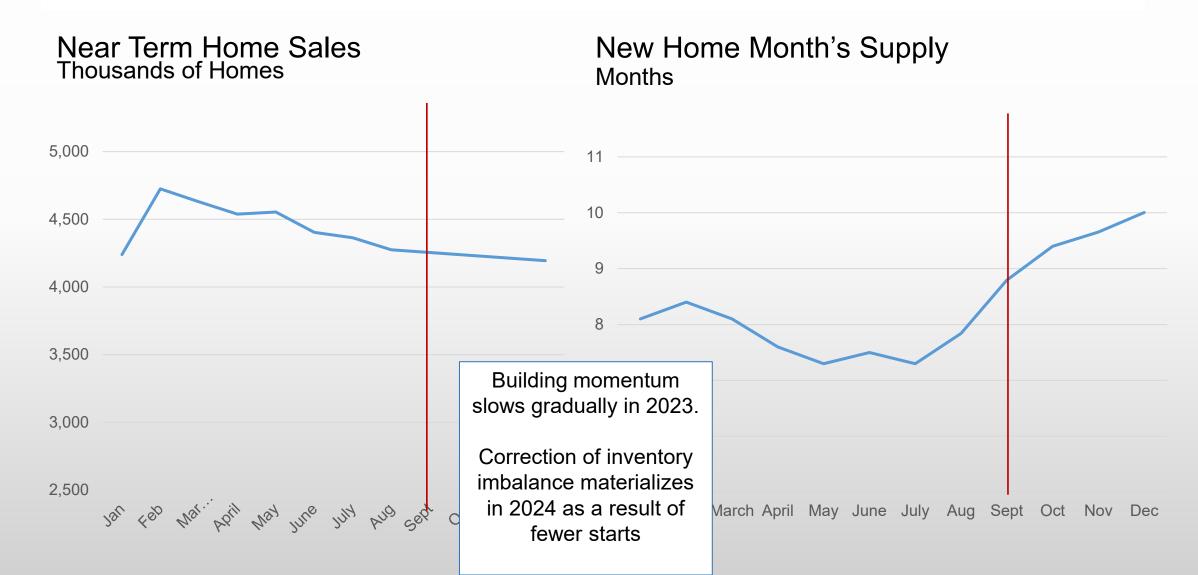


Months Supply Existing Homes



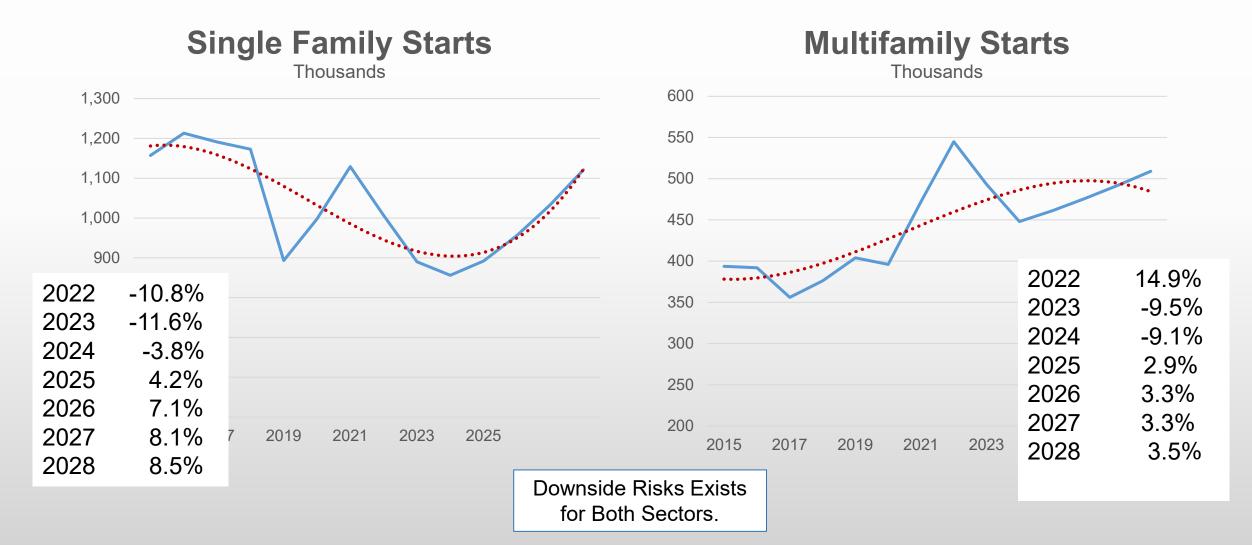


New Home Inventory Correction Spills Into 2024...





Housing Starts Outlook

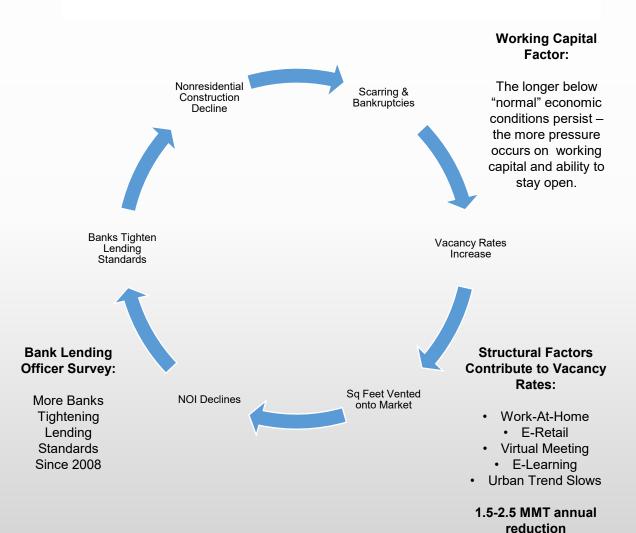




Nonresidential

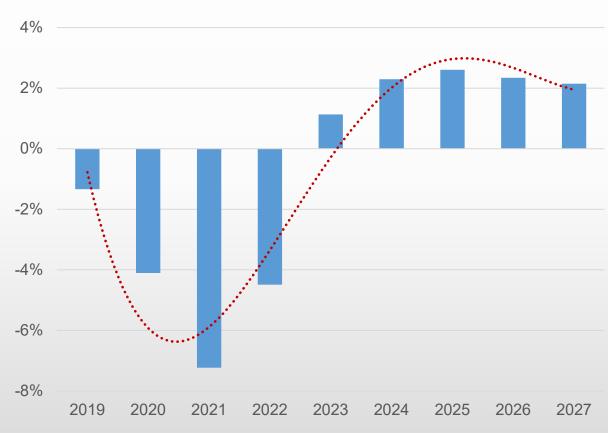


Nonresidential Recovery Process



Nonresidential Construction *

Real PIP, Y-O-Y Change

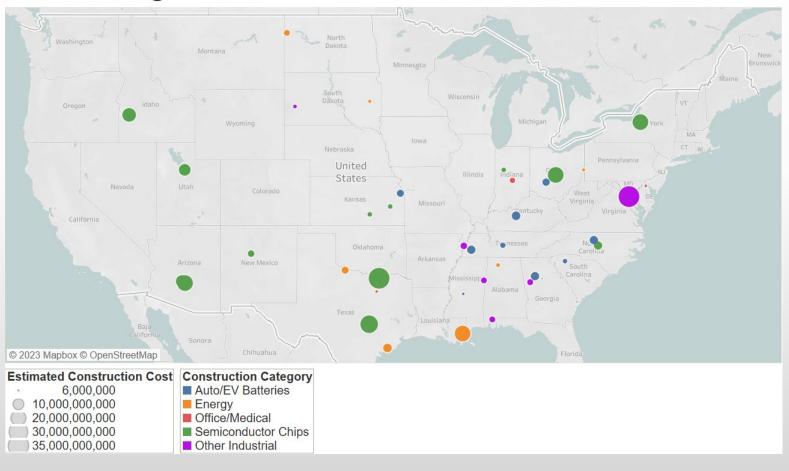


^{*} Excludes Industrial Manufacturing



Onshoring US Manufacturing

Large-Scale Investment Across the United States



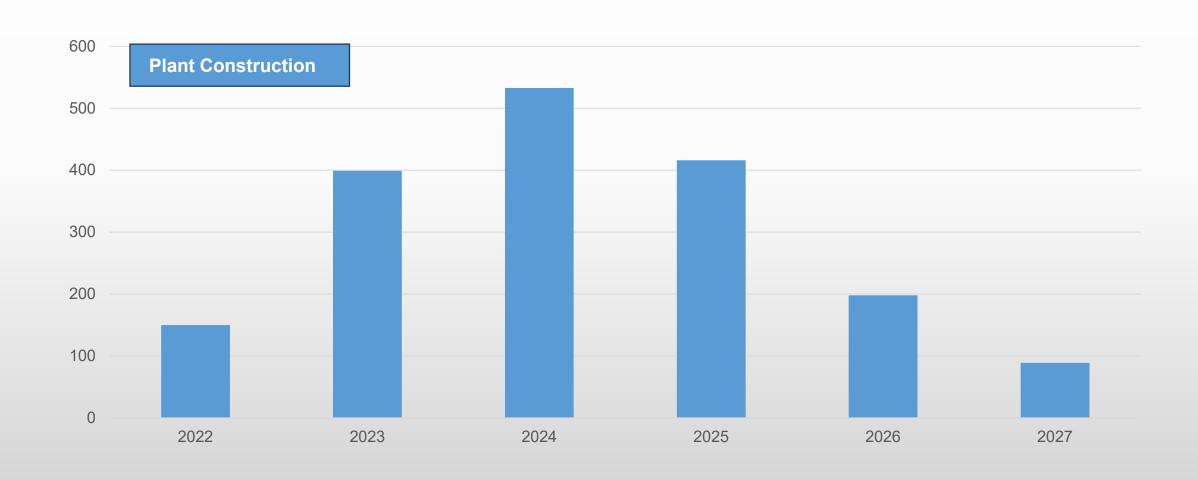
PCA's MI Study

- Investment in response to national defense, supply chain, Chips Act & Inflation Reduction Act.
- Identified all (42) investments \$500 Million or Larger
 - Totaling more than \$300 billion.
 - Adding 80,000 direct jobs.
- Established baseline characteristics for each plant.
- Based on this established estimates for direct & indirect cement consumption
 - Plant, infrastructure, housing, nonresidential.



On-Shoring Adds Significant Volume

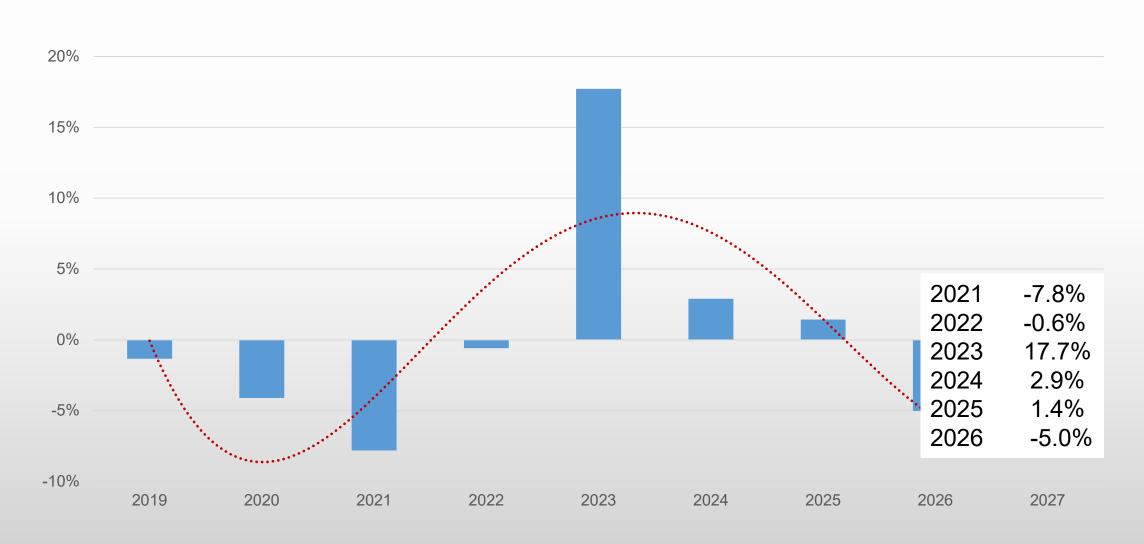
Thousand Metric Tons



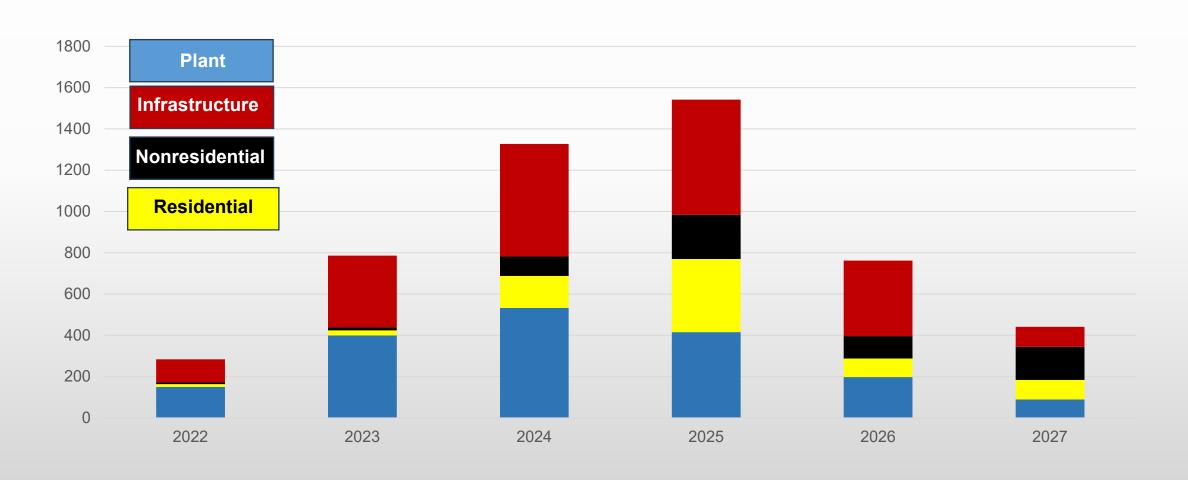


Nonresidential Recovery Process

Annual Y-O-Y Percent Change Real Spending



On-Shoring Adds to Residential, Nonresidential & Public Thousand Metric Tons

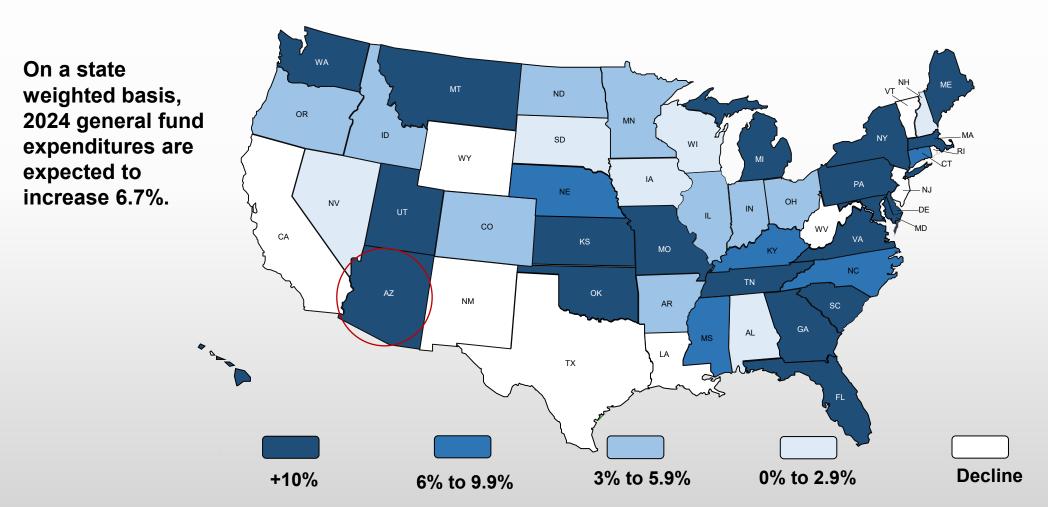




Public

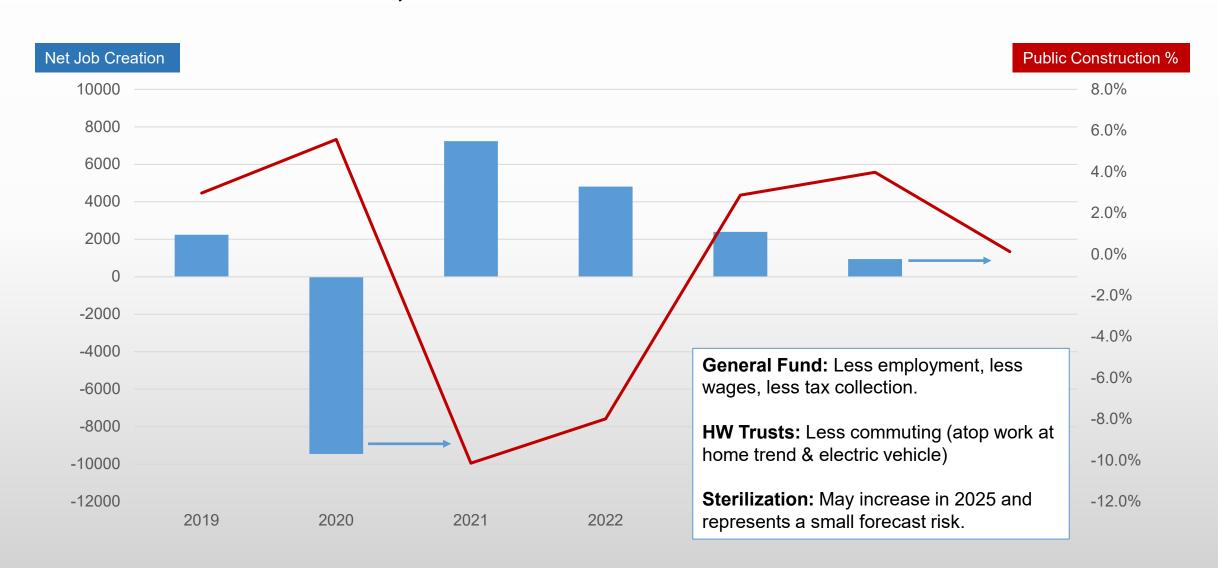


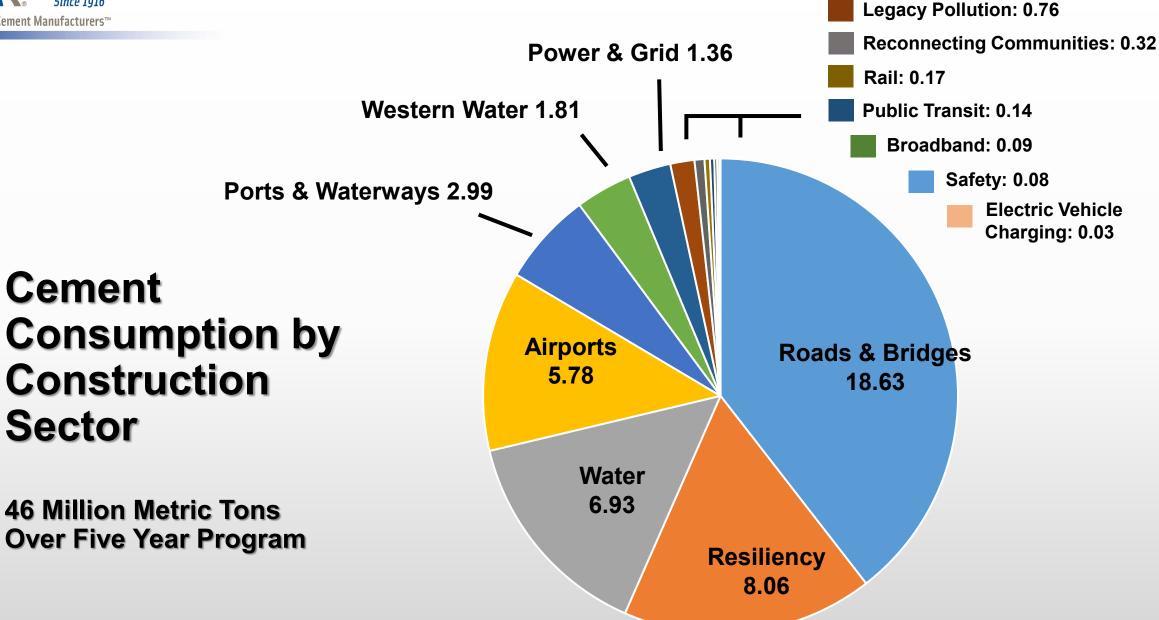
General Fund Percentage Expenditure Change – FY2024





Net Job Creation, State Finances & Public Construction

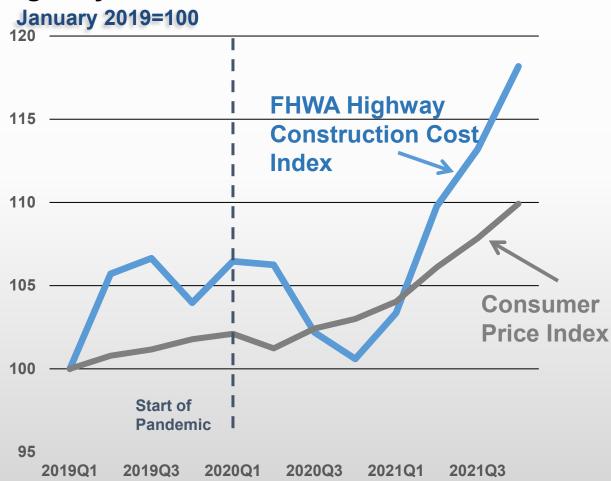






Infrastructure Has Experienced Higher Relative Inflation

Highway Construction Costs vs CPI



2019Q1 2019Q3 2020Q1 2020Q3 2021Q1

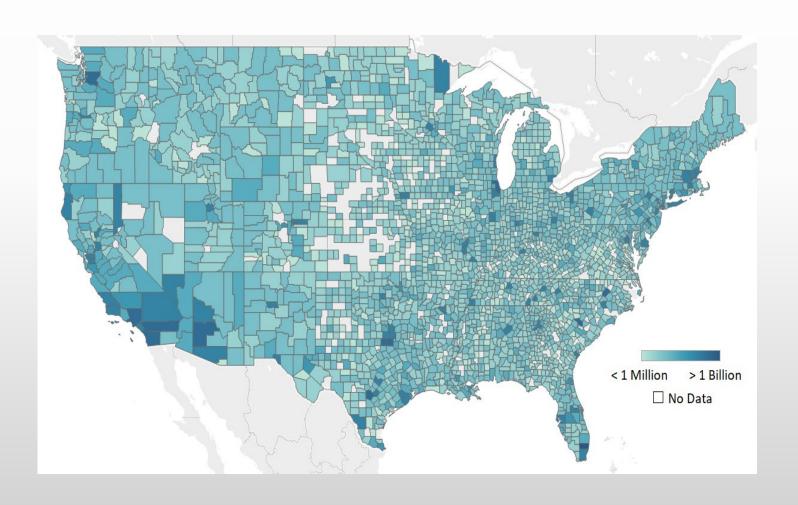
Source: FHWA, BLS PCA

Bureau of Reclemation Construction Cost Index Annual Percent Change 2Q22/2Q21

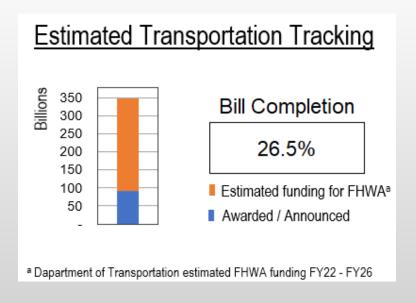
Steel Tower Transmission Lines	19.8%
Laterals And Drains	18.5%
Secondary Roads	15.2%
Switchyards And Substations	14.4%
Earth Dams	14.2%
Steel Pipelines	13.3%
Primary Roads	12.6%
Canals	11.7%
Pumping Plants	11.6%
Diversion Dams	11.3%
Concrete Dams	11.0%
Concrete Pipelines	10.0%
Distribution Pipelines	9.5%
Bridges	9.3%
Wood Pole Transmission Lines	7.4%
Powerplants	7.3%



Current Awarded & Announced Reported IIJA Funding By County



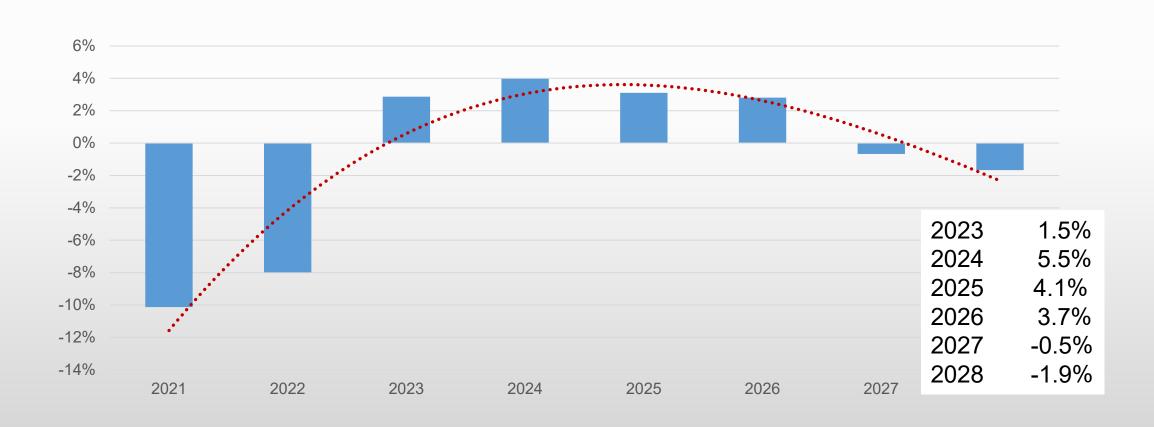
Estimated Discretionary Tracking^a Bill Completion 34.5% Total Discretionary Funding Awarded / Announced Used as an estimate to track the completion of the 150 Billion allocated for discretionary spending.





Public Construction

Real PIP Construction

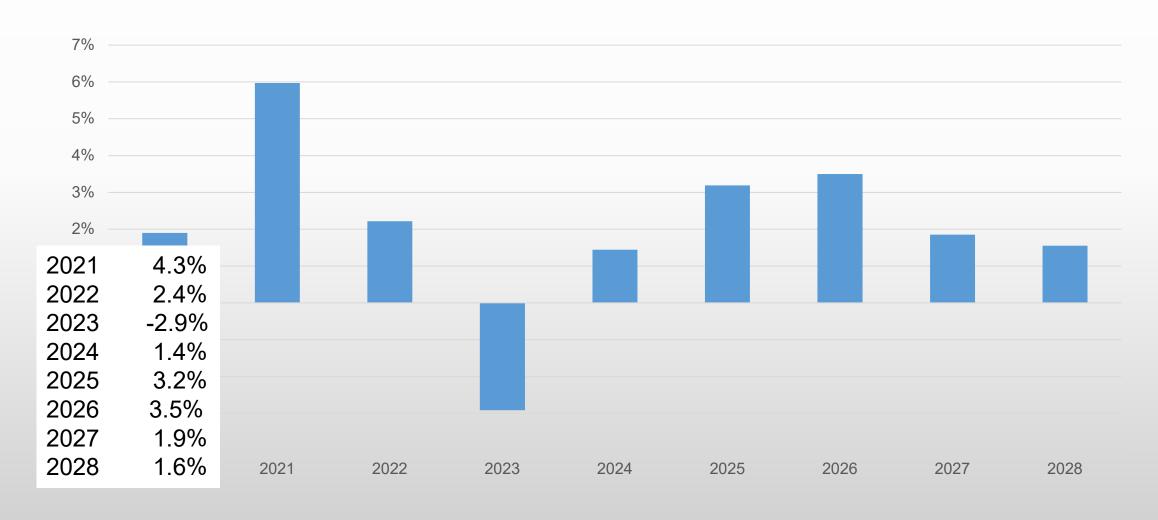




Summary

Baseline US Cement Consumption Outlook

Baseline Annual % Growth





Alternatives



Alternative US Cement Consumption Outlooks Thousand Metric Tons

