



Presentation Focus

- 1. Putting the Forecast Into Context: 2020 Performance
- 2. IHME Covid-19 Projections, Impacts & Risks
- 3. Evidence of a Strong Recovery...So Far
- 4. 2021-2023 Macroeconomic, Inflation & Interest Rate Scenario
- 5. Growth Composition In the Context of Rising Interest Rates
- 6. The Biden Agenda Face Value: Infrastructure "America's Jobs Plan"
- 7. Political Considerations & Alternative Scenarios
- 8. The Weighted Average Baseline Outlook
- 9. Questions & Answers

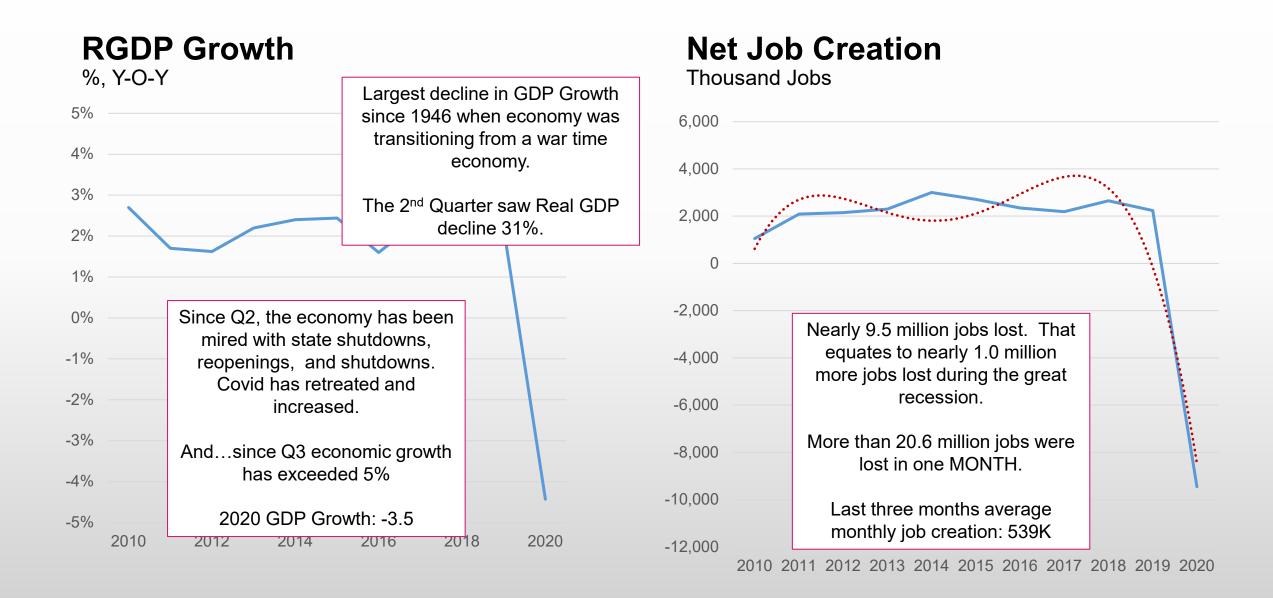


Putting the Forecast Into Context

2020 Performance Data



America's Cer Economic Performance

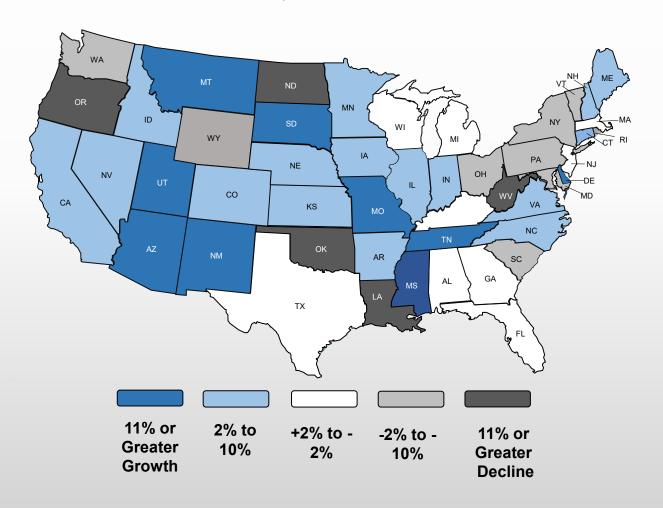




America's Cement Consumption

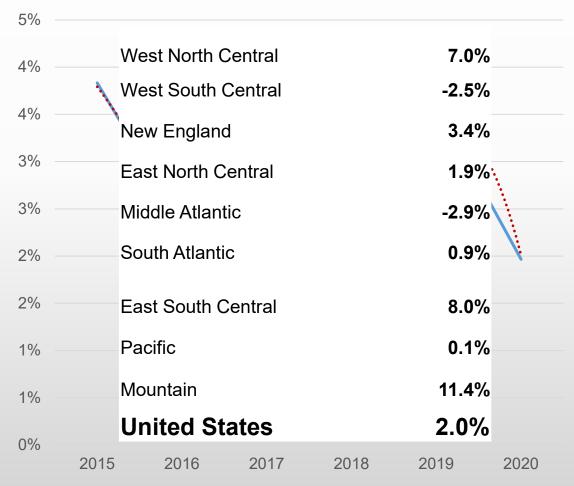
Cement Consumption

%, Y-O-Y



Cement Consumption

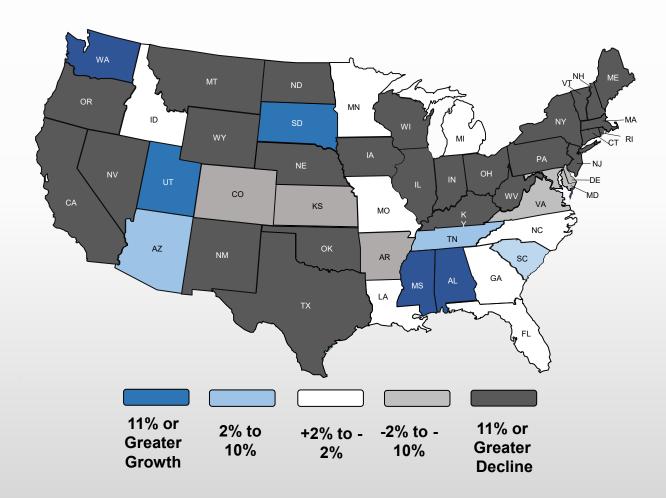
Y-O-Y, %





Off to a Bad Start

February 2021 year-to-date



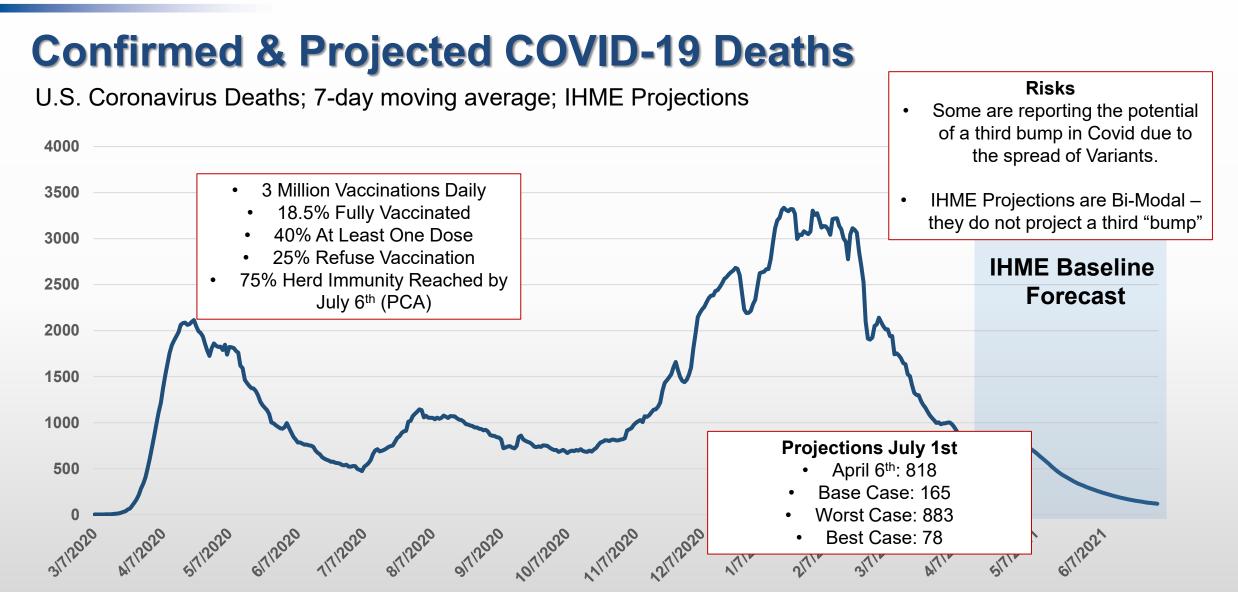
Source: USGS/PCA

West North Central	-10.4%
West South Central	-12.5%
New England	-13.6%
East North Central	-27.7%
Middle Atlantic	-21.7%
South Atlantic	-2.0%
East South Central	-1.7%
Pacific	-10.2%
Mountain	-2.6%
United States	-9.9%

Despite PCA weather metric data to the contrary, cross-checks suggest declines are weather related - and not reflective of a structural decline.



Covid Data & IHME Projections





Vaccine Impact on the Economy

Once the Vaccine is Mass Distributed....and herd immunity levels reached.....

It will:

- Result in a dramatic surge in consumer confidence.
- Encourage a return to many, but not all, Pre-Covid activities
 - Dining, movies, shopping, face-to-face interactions.
- Business will reopen, new businesses will emerge to fill voids created by the virus.
 - Perhaps encouraged by SBA support
- Investment uncertainty will decline.
- Economy will expand rapidly.
- Jobs growth will be strong.

This is largely based on consumers returning to pre-Covid patterns.

Given the severity and duration of the disruption...full restoration of consumer patterns may occur over several quarters.

The process begins with consumers sense of safety and the achievement of herd immunity.



Evidence of a Strong Recovery

Since 1916

Consumer Comfort

Morning Consult, % All Adults

- Pace of Vaccinations Accelerates
- Covid-19 Daily Death Rates Drop





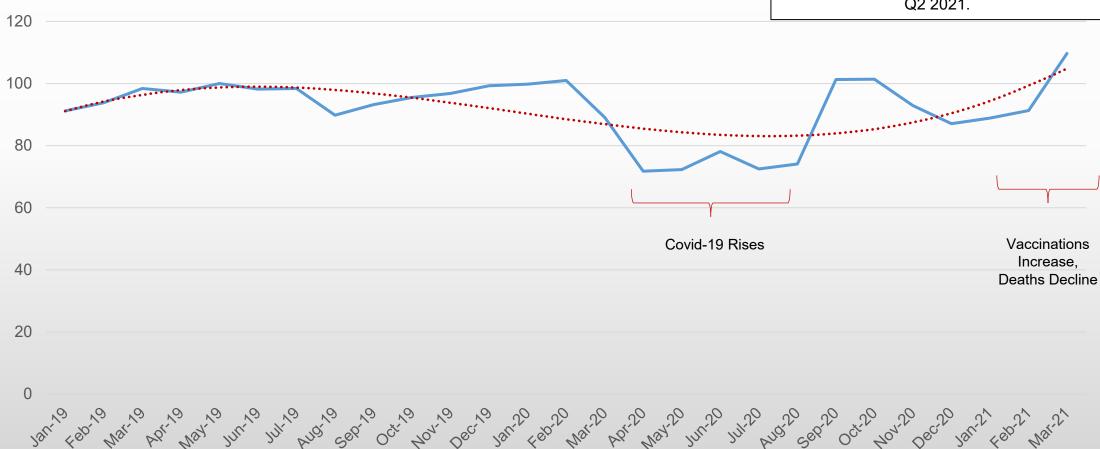
Consumer Sentiment

Composite, University of Michigan

Note:

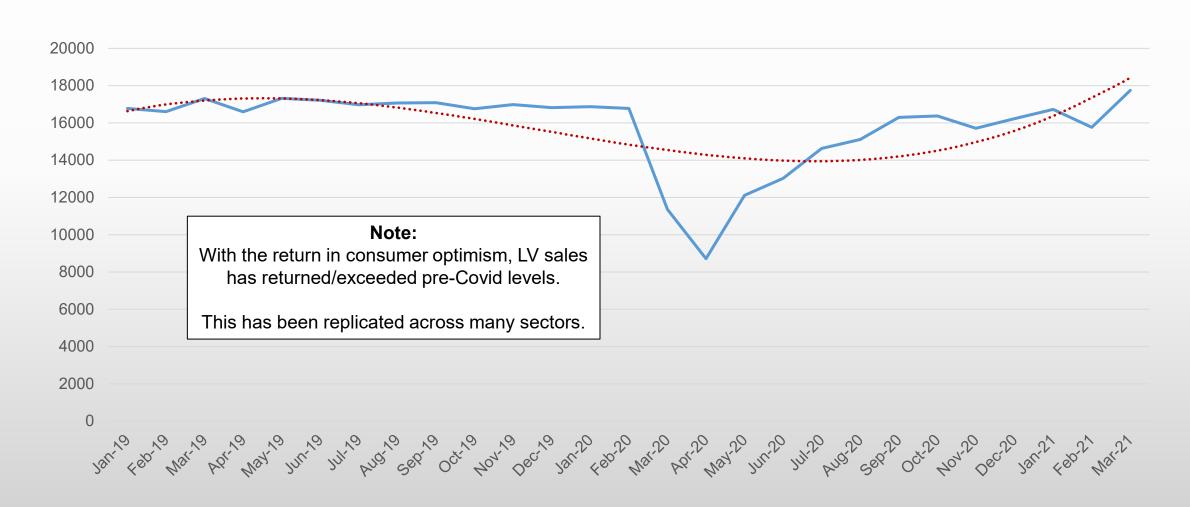
Vaccinations & Reductions in death rates have recently resulted in the highest level of optimism since the start of the pandemic.

With continued gains in vaccinations a return to pre-Covid levels is expected during Q2 2021.





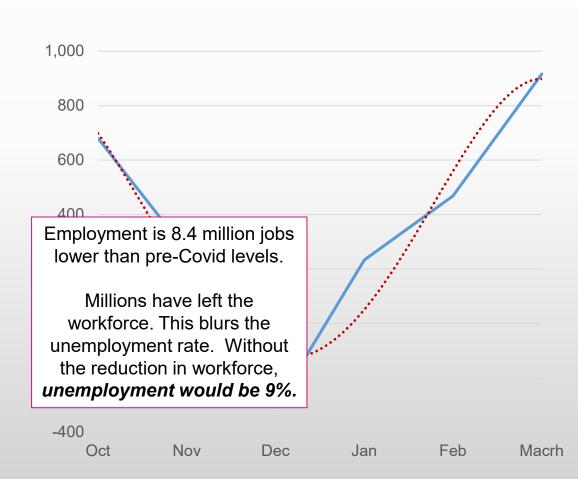
Light Vehicle Sales



America's Cei Economic Performance

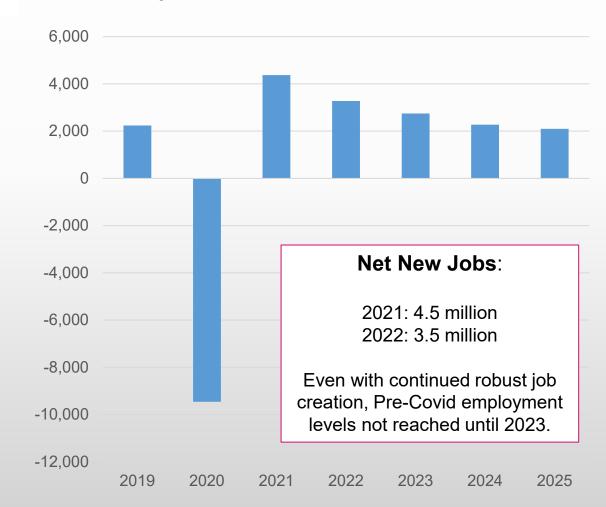


Net Thousands



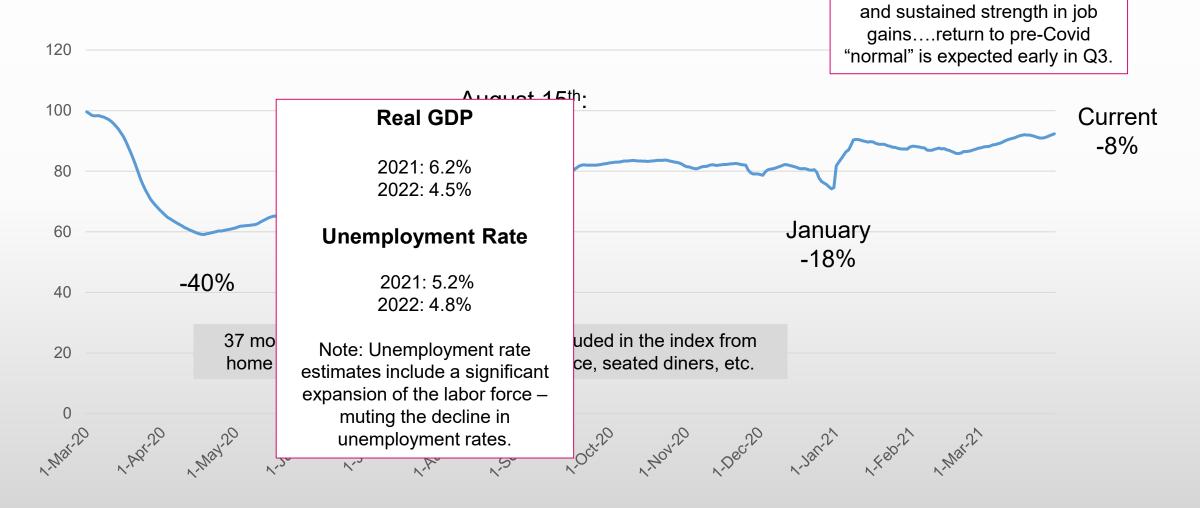
Net Job Creation

Thousand Jobs



Back to Normal Index

Moody's-CNN Survey 100=March 1st 2020



Back to Normal: July

With continued progress in

vaccinations, re-openings, growing consumer confidence,



2021-2023 Inflation & Interest Rates

2020

- Global Pandemic Unfolds
- Oil Prices Drop
- Massive Unemployment Materializes
- Consumer Demand Contracts
- Capacity Utilization Eases
- Inflationary Expectations are Reduced
- Federal Reserve Accommodative.
- US Covid-19 Vulnerability Prompts Weakening of Dollar
- Inflation Declines an Estimated 50 Basis Points
- Inflation Rate: 1.3%

2021

- Global Increase Access to Vaccine Materializes in 2nd Half 2021.
- Consumer Demand Increase
- Capacity Utilization Rises But Slack Remains.
- High Inventories, Increased Iran Supply, Potential OPEC Production Significantly Neutralize Demand Pull on Oil Prices
- Unemployment Reduced to 6% by Year End
 Still High and Holds In-Check Wage
 Increases
- Minimum Wage Slowly Phased In.
- Inflationary Expectations Rise Modestly.
- Federal Reserve Remains Accommodative.
- Reduced US Covid-19 Vulnerability Prompts a modest Strengthening of Dollar.
- Inflation Increases an Estimated 80 to 90 Basis Points – From Low Level.

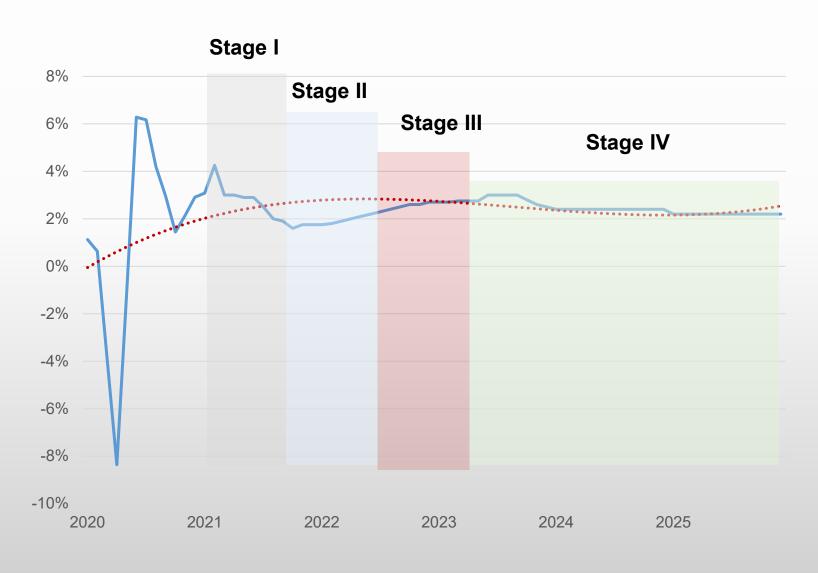
Inflation Rate: 2.0%

2022-23

- Much of Pandemic Has Passed.
- Pent-Up Demand Is Released.
- Unemployment Declines Below 5%.
- Phase in of Minimum Wage Limits Impact on Inflation.
- Capacity Slack is Reduced.
- Inflationary Expectations Rise More Aggressively.
- Federal Reserve Becomes Mildly Restrictive.
- US Dollar Strengthens.
- Inflation Increases an Estimated 50 to 70 Basis Points
- Inflation Rate: Above Fed Target Rate



Inflation Rate Scenario, %



Stage I

- Covid supply disruptions, increased demand create product specific shortages.
- Transitory not Structural

Stage II

- · Covid supply disruptions fade.
- Slackness that characterizes productive side of economy slowly recedes.
- Inflation eases.

Stage III

- Economy regains footing. Slackness disappears. Unemployment drifts below 5%.
- Inflation increases beyond Fed target Rate.

Stage IV

- Fed reacts. Timidly at first. Inflation continues. Fed reacts more decisively.
- Fed Target Rate achieved 2024 & beyond.



Interest Rate Scenario, %



Stage I

- Covid supply disruptions, increased demand create product specific shortages.
- Transitory not Structural

Stage II

- Covid supply disruptions fade.
- Slackness that characterizes productive side of economy slowly recedes.
- Inflation eases.

Stage III

- Economy regains footing. Slackness disappears. Unemployment drifts below 5%.
- Inflation increases beyond Fed target Rate.

Stage IV

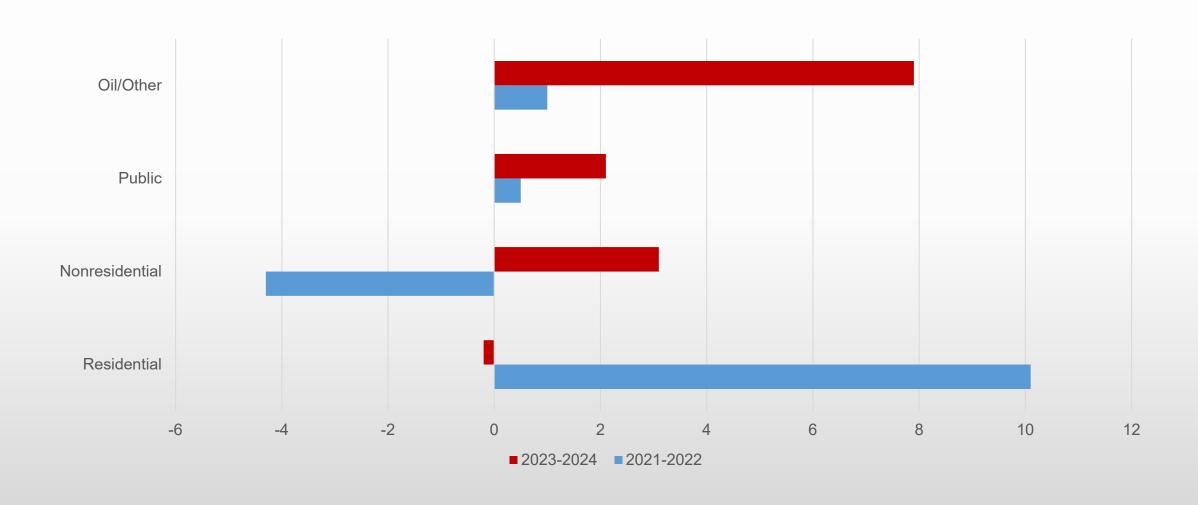
- Fed reacts. Timidly at first. Inflation continues. Fed reacts more decisively.
- Fed Target Rate achieved 2024 & beyond.



Growth Composition In the Context of Rising Interest Rates



Composition of Growth



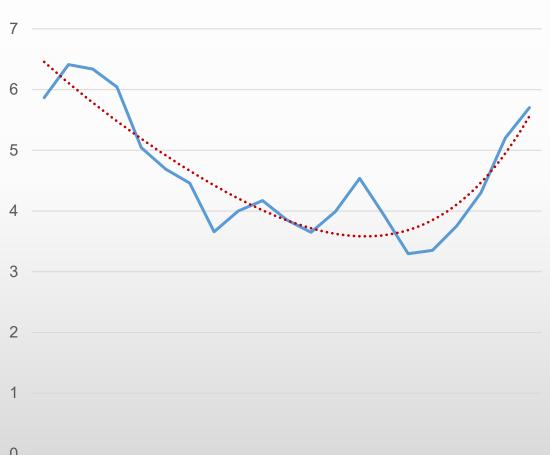


Residential Projection



Residential Cement Consumption

Mortgage Interest Rates Conventional, 30 Year, %



^{2005-2019:} 1.9% 2,000 2020-2022 Q2: 2.3% 2022 Q3-2024: 11.6% 1,800 1,600 1,400 1,200 1,000 800 600 400 200

Monthly Payment Average Annual

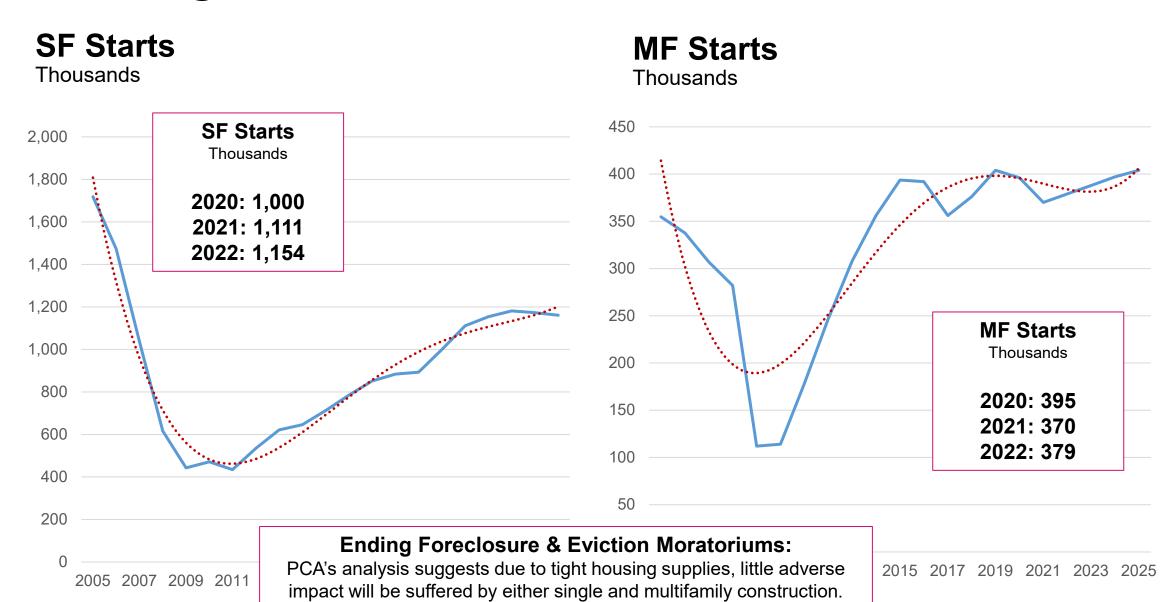
Increases %

nent

^{2005 2007 2009 2011 2013 2015 2017 2019 2021 2023 2025}



America's Cement A Housing Starts Outlook





Nonresidential Projection

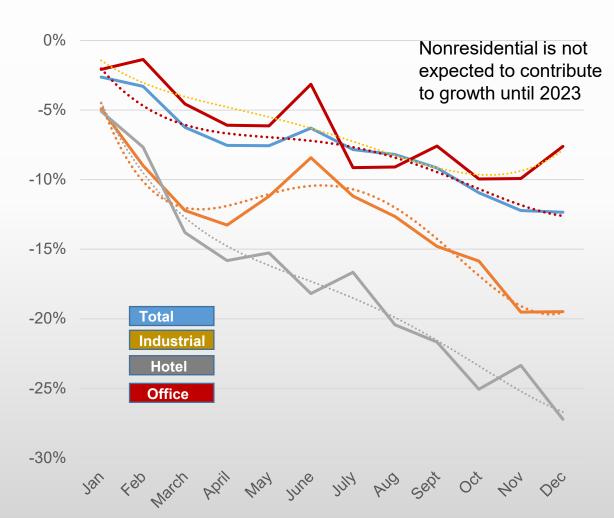


Nonresidential Recovery Process

Working Capital Factor: The longer below "normal" economic conditions Nonresidential persist - the more Scarring & Construction pressure occurs on Bankruptcies Decline working capital and ability to stay open. Banks Tighten Vacancy Rates Lendina Increase Standards **Bank Lending** Officer Survey: **Structural Factors Contribute to Vacancy** More Banks Rates: **Tightening Lending** Standards Since Work-At-Home Sq Feet Vented 2008 **NOI Declines** onto Market · E-Retail · Virtual Meeting E-Learning **Urban Trend Slows**

Nonresidential Construction

Real PIP, Y-O-Y Change



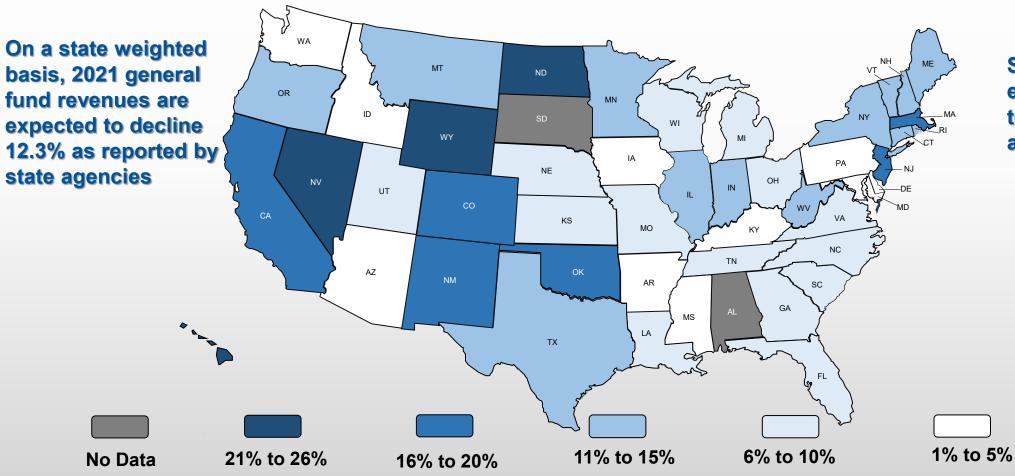


Public Projection



State Funding – FY2021

Percent Declines in General Fund Tax Revenues from Pre-COVID Levels



States with high exposure to oil & tourism revenues are at most risk



State & Local Allocation Scheme

\$Billions

Total State & Local Government Aid: \$350

State Governments & DC: \$195.3

Divided equally: \$25.5

Divided based on states' share of total unemployed Americans: \$169.8

Counties & Cities: \$130.2

Counties: \$65.1 Cities: \$65.1

Territories & Tribes: \$24.5

Tribes: \$20

Territories: \$4.5



Estimated Aid Sent to States

\$Billions

The legislation says the funds are to be distributed based on each states' share of total unemployed Americans. So I used BLS unemployment numbers to figure out the share. Each state and DC also starts out with \$500 million.

Alaska	\$ 0.89	Kentucky	\$ 2.26	New York	\$ 14.02
Alabama	\$ 2.12	Louisiana	\$ 3.12	Ohio	\$ 5.58
Arkansas	\$ 1.55	Massachusetts	\$ 5.38	Oklahoma	\$ 1.84
Arizona	\$ 4.46	Maryland	\$ 3.77	Oregon	\$ 2.69
California	\$ 28.31	Maine	\$ 1.08	Pennsylvania	\$ 8.08
Colorado	\$ 3.99	Michigan	\$ 4.98	Rhode Island	\$ 1.15
Connecticut	\$ 2.97	Minnesota	\$ 2.76	South Carolina	\$ 2.58
District Of Columbia	\$ 1.07	Missouri	\$ 2.67	South Dakota	\$ 0.74
Delaware	\$ 0.99	Mississippi	\$ 1.86	Tennessee	\$ 3.32
Florida	\$ 8.47	Montana	\$ 0.85	Texas	\$ 16.37
Georgia	\$ 4.78	North Carolina	\$ 5.43	Utah	\$ 1.33
Hawaii	\$ 1.61	North Dakota	\$ 0.80	Virginia	\$ 4.26
lowa	\$ 1.45	Nebraska	\$ 1.04	Vermont	\$ 0.67
Idaho	\$ 1.01	New Hampshire	\$ 0.95	Washington	\$ 4.28
Illinois	\$ 8.33	New Jersey	\$ 6.25	Wisconsin	\$ 2.44
Indiana	\$ 2.84	New Mexico	\$ 1.88	West Virginia	\$ 1.35
Kansas	\$ 1.36	Nevada	\$ 2.56	Wyoming	\$ 0.75

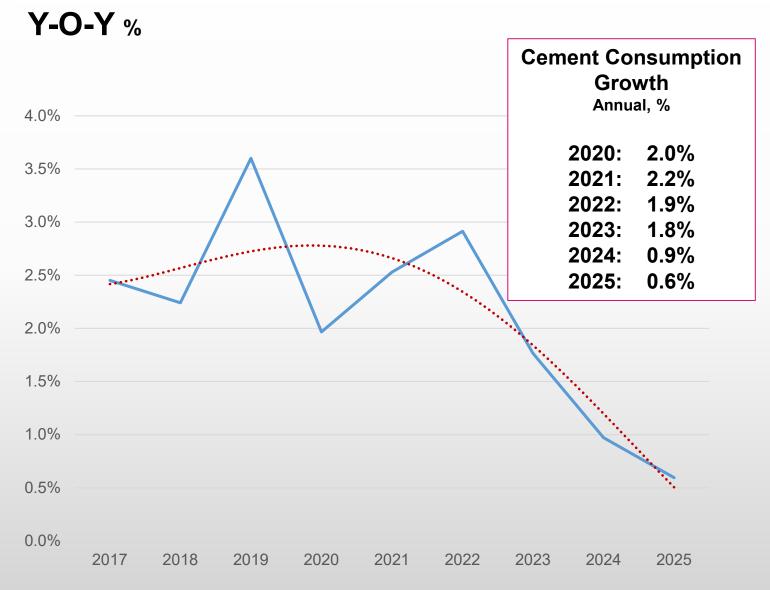
Source: BLS, PCA



Cement Consumption Outlook No Infrastructure



America's Cerment Consumption Outlook: No Added Infrastructure



Late Years of Horizon

- Covid-19 accelerates structural trends that were in-place.
- Fossil fuel prices remain constrained.
- Interest rates increase.
- Private sector slows.
- Public sector growth largely a state phenomenon and supported by moderately growing economic conditions.

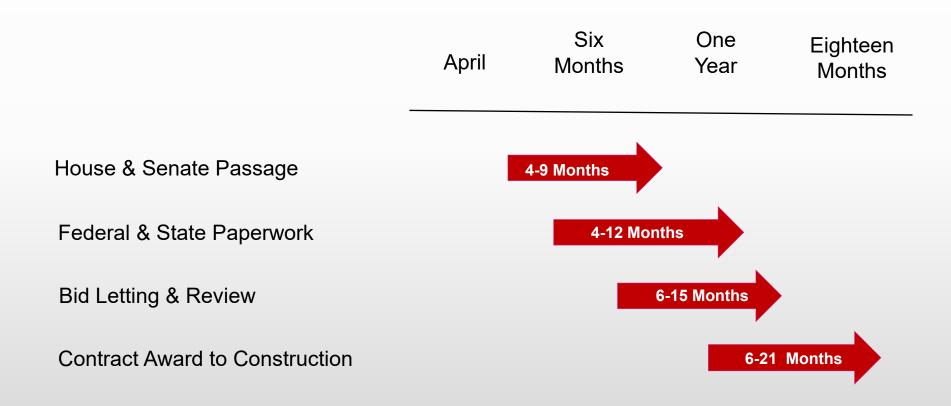
Growth slows to 1% or Less



Biden's American Jobs Plan Face Value



After Congressional Passage: There Will Be a Wait for Pouring to Begin

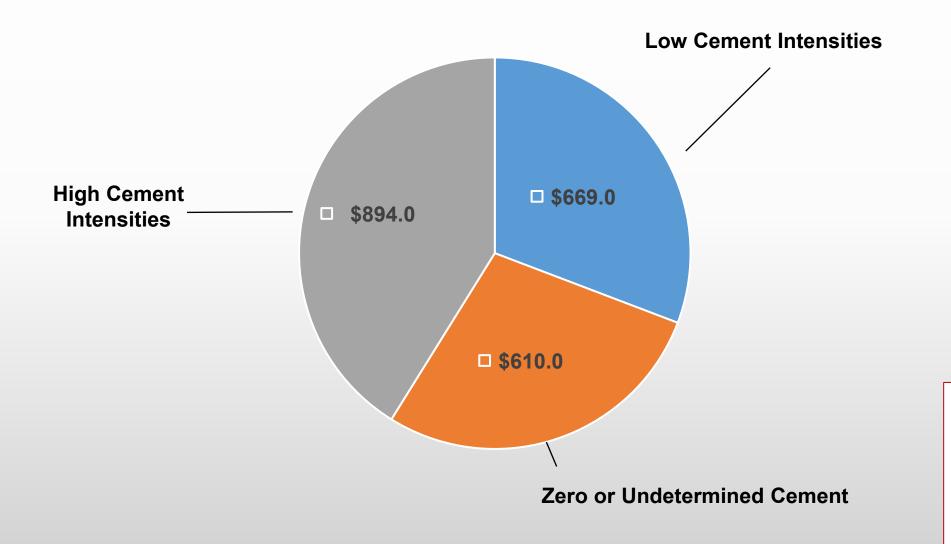


Average Construction Start: Early 2023



Non-Traditional Infrastructure Investments

Spending Segmented by Cement Intensities



Biden "Face Value" Infrastructure Scenario: \$

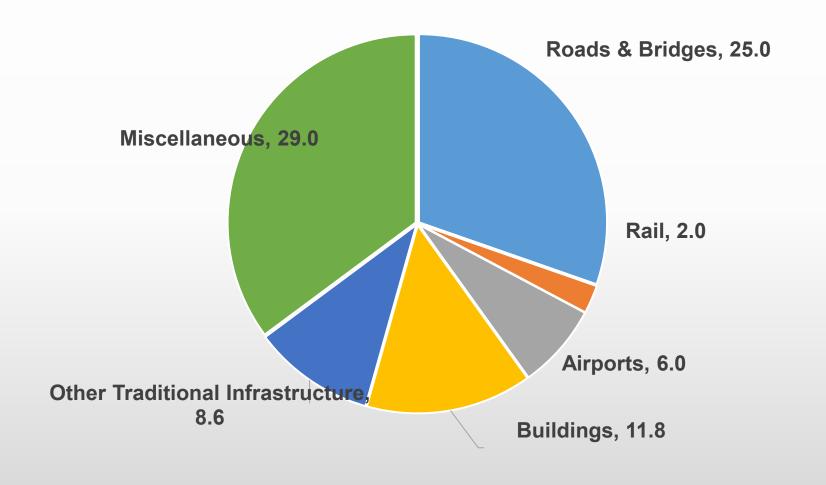
\$2.2 Trillion

28% of spending has no impact on cement consumption.

59% of spending has little or no impact on cement consumption.



Cement Consumption Estimates



Biden
"Face Value"
Infrastructure
Scenario:
Cement
Consumption

Programs Totaling 82 MMT



Billion	
\$115	ROAD & BRIDGES
\$20	ROAD SAFTEY
\$4	COMMUNITY
\$139	TOTAL

Infrastructure Timing Distribution Highway & Bridges

Process repeated across all

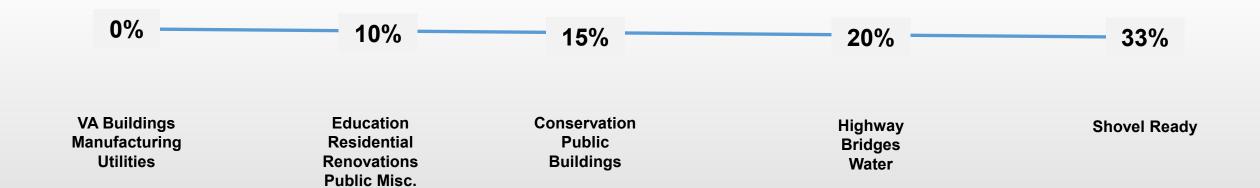
	Smandina	Fiscal Year Spending				are impact	14 construction segments that are impacted by the Infrastructure Program			
	Spending Allocation Billion \$	2023 Year 1	2024 Year 2	2025 Year 3	2026 Year 4	Total Spent	Total Spent			
2023 2024 2025 2026	\$14 \$14 \$14 \$14	\$3	\$6 \$3	\$3 \$6 \$3	\$2 \$3 \$6 \$3	\$14 \$12 \$9 \$3	100% 86% 64% 21%			
Total Spending	\$70	\$3	\$9	\$12	\$14					



S&L Sterilization

Percentage Foregone

TEA/SAFETY-LU: 31% ARRA: 81%





Biden Housing Initiative



PCA Biden's Housing Impact

Over Full Horizon

Total	\$213 Billion	500,000 Units	5,960,00 Metric Tons
New SF	\$7 Billion	30,000 Units	810,000 Metric Tons
New MF	\$55 Billion	470,000 Units	4,000,000 Metric Tons
Rehabilitations	\$106 Billion	———	1,150,000 Metric Tons
Clean Energy & Insulation	\$45 Billion		



Tax Impact



Biden Tax Impacts

GDP Impacts Reflect Consensus of:

Tax Foundation, American Enterprise Institute, Wharton

		Baseline	e			T	ax Scenario)	Ne	et Impa	ıct	
	GDP Growt	h			GDP Growth				GDP	Job	Construction	Cement
	%	Jobs	Construction	Cement	%	Jobs	Construction	Cement	Impact	Impact	Impact	Impact
2015		143,093	979	89,835		143,093	979	89,835	0	0	0	0
2016	2.9%	145,437	1,023	91,930	2.9%	145,437	1,023	91,930	0	0	0	0
2017	4.1%	147,625	1,050	94,184	4.1%	147,625	1,050	94,184	0	0	0	0
2018	2.9%	150,275	1,061	96,295	2.9%	150,275	1,061	96,295	0	0	0	0
2019	2.2%	152,513	1,046	99,762	2.2%	152,513	1,046	99,762	0	0	0	0
2020	-4.4%	143,055	1,064	101,724	-4.4%	143,055	1,064	101,724	0	0	0	0
2021	6.2%	147,432	1,079	104,273	6.2%	147,432	1,079	104,273	0	0	0	0
2022	5.3%	150,712	1,119	108,073	5.3%	150,712	1,119	108,073	0	0	0	0
2023	2.4%	153,462	1,140	109,492	2.0%	153,445	1,136	109,097	-75	-17	-4	-395
2024	2.4%	155,737	1,150	110,316	2.1%	155,636	1,143	109,669	-125	-101	-7	-647
2025	2.3%	157,837	1,162	111,152	2.0%	157,667	1,149	109,926	-175	-170	-13	-1,227

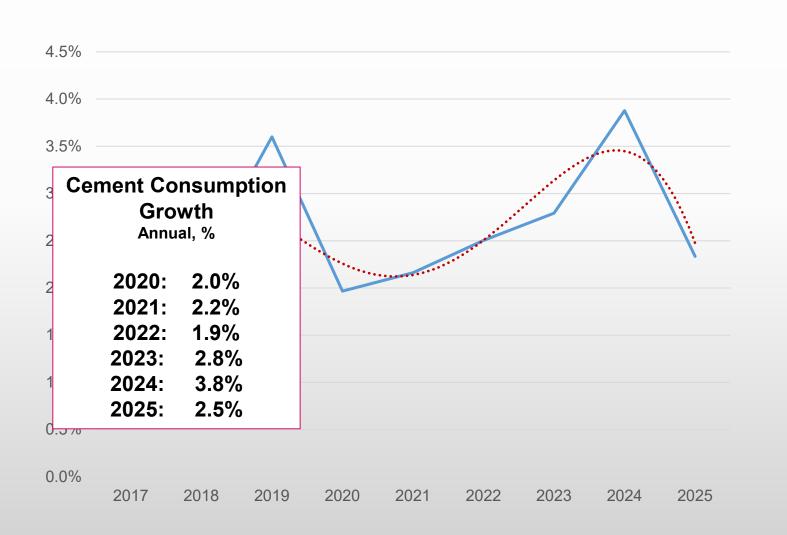


Biden Face Value Impact Summary



America's Cement Consumption Outlook: Infrastructure Face Value

Y-O-Y %



Late Years of Horizon

- Private sector growth decays in the context of rising interest rates
- Public sector supports stronger growth rates during back end of the forecast.
- More than \$860 billon in the Biden Infrastructure plan contributes little or nothing to cement consumption.
- Adds 7 MMT to consumption by end of forecast horizon.

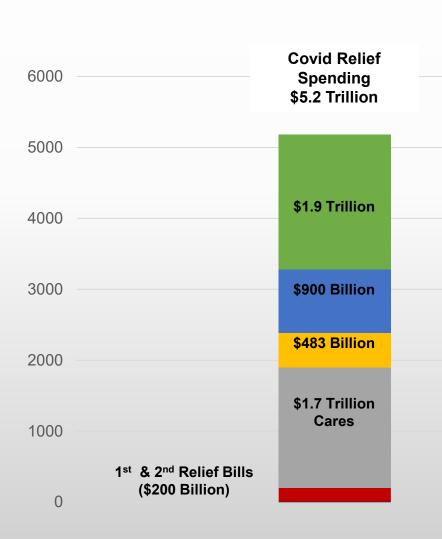
Growth increases to 3% annually.



The Political Assumptions



Covid-19 Relief Spending & Debt



It took from George Washington to Ronald Reagan – more than 200 years – to amass \$1 Trillion in Debt.

During 2020-2021 – two years - the US will amass **\$7.2 Trillion in Debt**.

ANY Infrastructure proposal must pay for itself.

That means taxes.

Some in Congress have concern about the deficit & rigid stands against new taxes.

This forms the basis of opposition to the Biden proposal.

On-Going Federal Government Deficits \$2.0 Trillion Note: Passed through reconciliation with no Republican support; signed into law on March 11

2021 \$1.0 Trillion

2020 \$1 Trillion

Compromise Scenario

- Ditch the contentious Biden tax increases.
- Scrap the expanded definition of "Infrastructure".
- Focus on expanding commitment to traditional infrastructure programs al
 - Fast Act
 - WRDA
 - Army Corps Projects
 - FAA Reauthorization
- Assume a 25% expansion in each program.
- Net Impact: + 4.6 MMT annually, 4.1 MMT after sterilization assessments.

Cement Consumption Growth Annual, %					
2020:	2.0%				
2021:	2.2%				
2022:	1.9%				
2023:	2.1%				
2024:	2.7%				
2025	1 3%				



Adjusting for Political Risks

Potential Outcomes Considered

Biden Face Value

Compromise

No Plan is Passed

60%

5%

35%

NOTE:

Regardless of which political outcome materializes, it will not have any substantive impact on cement consumption until 2023.

That implies that this source of risk to the forecast is not present during 2021-2022 time period.

Base Case = Weighted Average of the Three Scenarios

Note: The \$1.9 Trillion "America Rescue Plan passed through reconciliation with no Republican support; signed into law. Reconciliation will be in force for the Infrastructure bill.



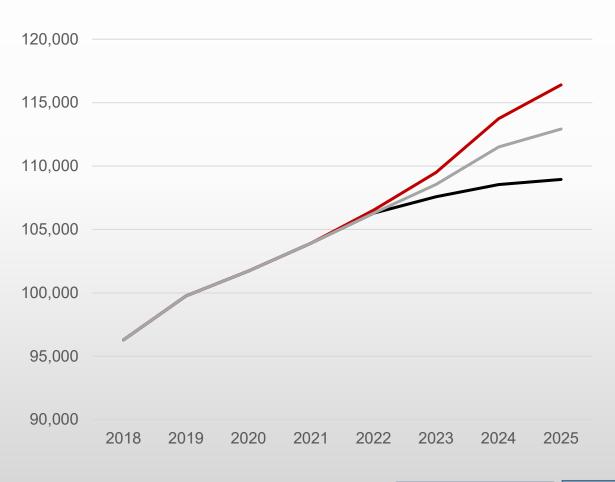
Summary



The Political Scenarios: Summary

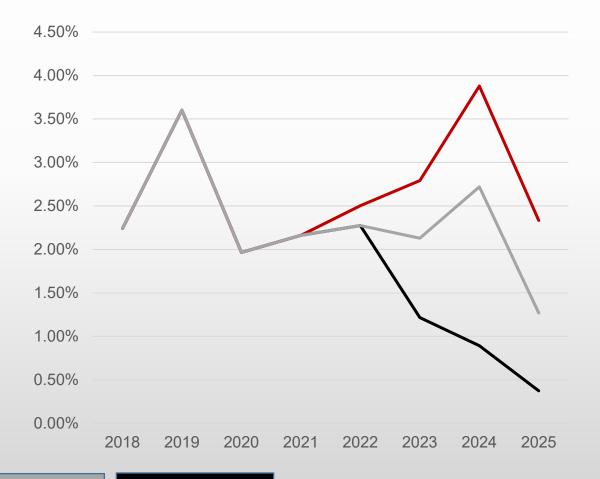


Metric Tons



Cement Consumption Growth

Y-O-Y % Change





Weighted Average Baseline: Summary

