

# Market Outlook Construction Forum Summary

as of November 8, 2022

#### Presenters

- → Blair Tennant, Principal, Vermeulens
- → Richard Vermeulen, Senior Principal, Lead Economist, Vermeulens

#### Fiscal Watch, Vermeulens

- → federal transfers lowered GDP growth by 3.1 percentage points
- → a rise of 1.2 percentage points in federal and state tax collections
- →a decline of 0.6 percentage points in Federal Impact Measures by federal, state, and local purchases
- → fiscal policy reduced U.S. GDP growth by 4.9 percentage points at an annual rate in the second quarter of 2022
- → GDP fell at an annual rate of 0.6% in the second quarter, according to the government's latest estimate
- → the FIM turned negative in the second quarter of 2021 as fiscal support waned, and is expected to remain negative through the second quarter of 2024
- → the Congressional Budget Office's most recent projections show the cumulative deficit from 2021 through 2030 totals nearly \$13 trillion
- →over the long term, interest rates are projected to rise further, and the amount of debt issued is projected to grow, causing net outlays for interest to increase to about 8 percent of GDP by 2050
- → the Infrastructure Act and Inflation Reduction Act will add about \$120B (0.5% of GDP) annually to various discretionary nondefense budgets
- → the Infrastructure Act and Inflation Reduction Act could contribute to a 2.3% total increase to annual construction put in place over the next 8 to 10 years in predominantly non-residential and infrastructure

#### Market Update, Vermeulens

- → long term average of PCE inflation is 1.7% whereas long term average for construction inflation is 3.6%
- →unemployment rates are at their lowest and there has been an addition of 500k new jobs per month in 2021 to 2022
- → S&P index indicates a 350% increase in commodities but currently experiencing a 22% decline
- --> residential construction has increased by 54% while nonresidential construction has increased by 9% since pre-pandemic
- →increase of interest rates will slow down residential construction market
- → nonresidential spending has experienced an increase in the last 2 years
- → architectural billings will continue to increase in the next 12-18 months
- → 5% inflation for this year and the FED is targeting an additional 2% by the end of this year, historically construction inflation tends to be double
- → historically after experiencing peak prices in construction costs, after 4-5 quarters the curve tends to flatten
- → Vermeulens predicts that the second or third quarter of 2023 is when the construction costs will begin to plateau
- --> recommended to apply a 4-6% escalation for next year and developing add alternates to future projects

#### Round Table Q&A Discussion on the State of the Market

- → bidding contingency is additional to the escalation applied
- → to attract additional builders, it is important to evaluate the qualifying criteria and understand risks of all parties
- → lack of supply in the market has caused an increase in prices
- → stagflation not to be an issue as supply chain issues begin to resolve
- → design fees are subjective and dependent on construction with varying fees



# Design and Construction Market Outlook Forum®

Richard Vermeulen, Sr Principal

James Vermeulen, Managing Principal

Blair Tennant, Principal

vermeulens.com

- → interim questions and comments via chat
- → slide deck, recording, summary notes; available on website
- → 2023 forums will follow Quarter end. 2022 Q4 will be Feb 3, 2023

→ Fiscal Watch – Infrastructure and Inflation Act

→ Vermeulens Market Update

→ Round Table Discussion



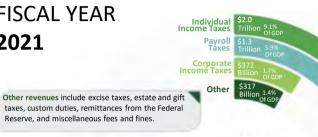
# Fiscal Watch

Understanding Fiscal Measures and the Impact of the Inflation and Infrastructure Acts on Construction Volume



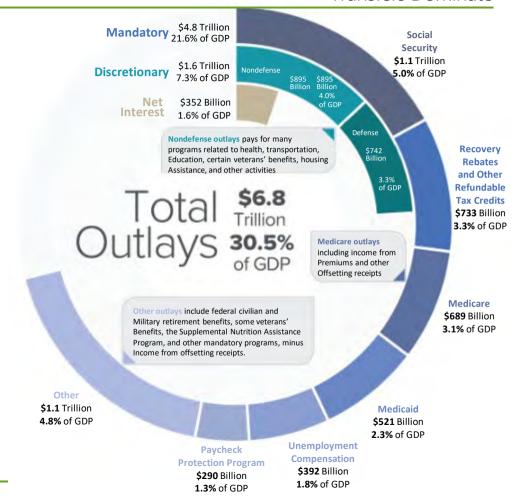
# THE FEDERAL **BUDGET IN** FISCAL YEAR 2021

Reserve, and miscellaneous fees and fines.

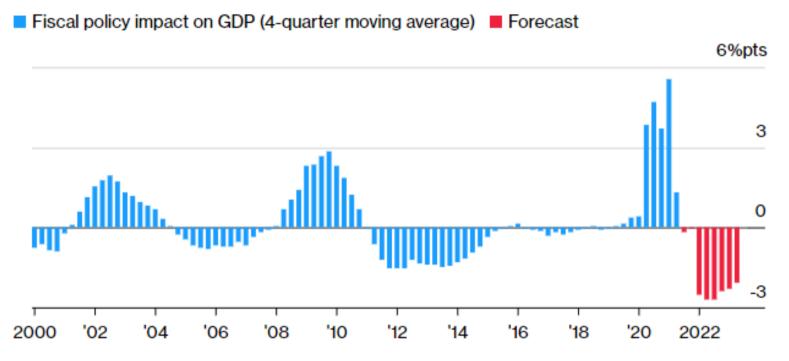


Total \$4.0
Revenues 18.1% of GDP

> **Payroll Taxes fund social** Insurance programs, primarily Social Security and Medicare's Hospital Insurance program

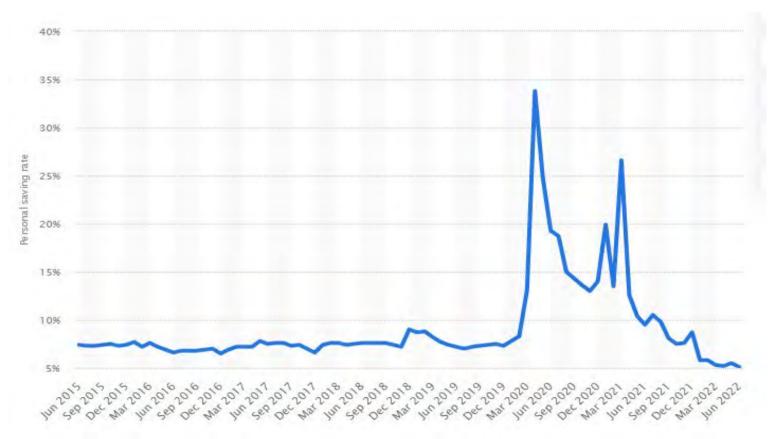






Source: Hutchins Center on Fiscal and Monetary Policy, Brookings Institution Note: Figures include budgets of federal, state and local governments.

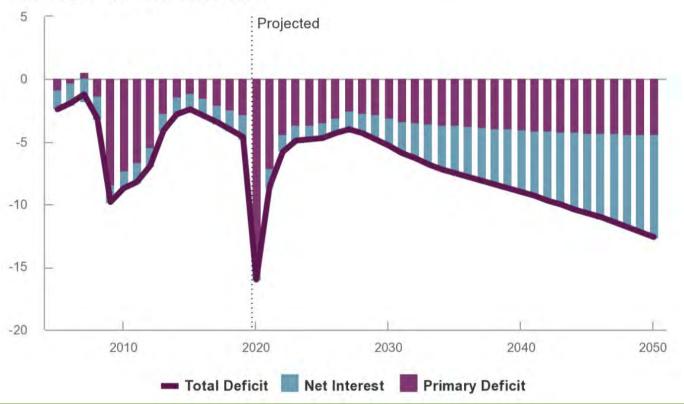




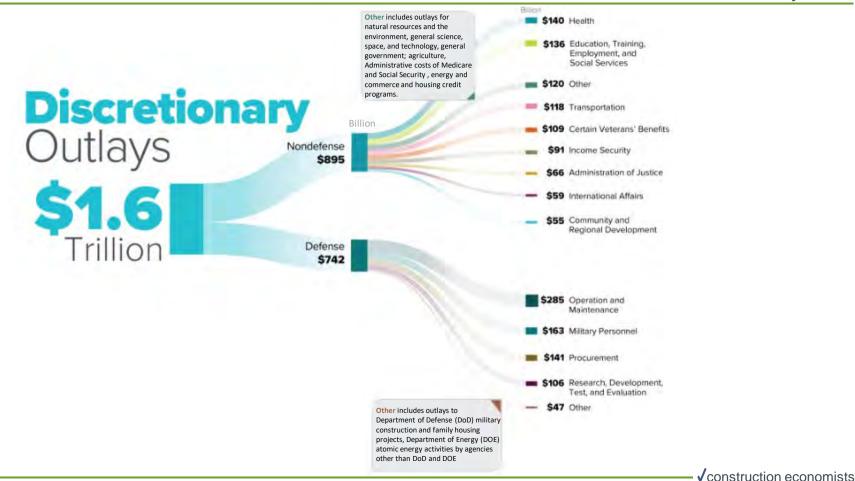


### Total Deficits, Primary Deficits, and Net Interest

Percentage of Gross Domestic Product







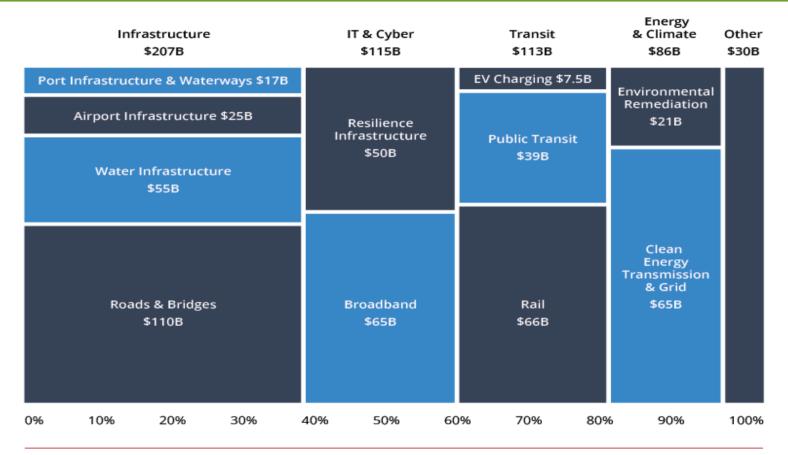


# What's in the Inflation Reduction Act?

**√**construction economists

Policy Cost (-) / Sav	rings (2022-2031)	Policy	Cost (-) / Savings (2022-2031)
Energy and Climate		Heath Savings	
-\$386 billion		\$322 billion	
Clean Electricity Tax Credits	-\$161 billion	Repeal Trump-Era Drug Rebate Rule	\$122 billion
Air Pollution, Hazardous Materials, Transportation & Infrastructure	-\$40 billion	Drug Price Inflation Cap	\$101 billion
Individual Clean Energy Incentives	-\$37 billion	Negotiation Certain Drug Prices	\$99 billion
Clean Manufacturing Tax Credits	-\$37 billion		
Clean Fuel and Vehicle Tax Credits	-\$36 billion		
Conservation, Rural Development, Forestry	-\$35 billion	Revenue	
Building Efficiency, Electrification, Transmission, Industrial, DOE Grants & Loans	-\$27 billion	\$468 billion (estimated)	
Other Energy and Climate Spending	-\$14 billion	15 Percent Corporate Minimum Tax	\$313 billion
Health Care		IRS Tax Enforcement Funding	\$124 billion
-\$98 billion		Closure of Carried Interest Loophole	\$13 billion
Extension of Expanded ACA Subsidies (three years)	-\$64 billion	·	HOIIIIQ CI ¢
Part D Re-Design, LIS Subsidies, Vaccine Coverage	-\$34 billion	Methane Fee, Superfund Fee, Other Revenue	\$18 billion
Total, Spending and Tax Breaks		Total, Savings and Revenue	
-\$485 billion		-\$790 billion	





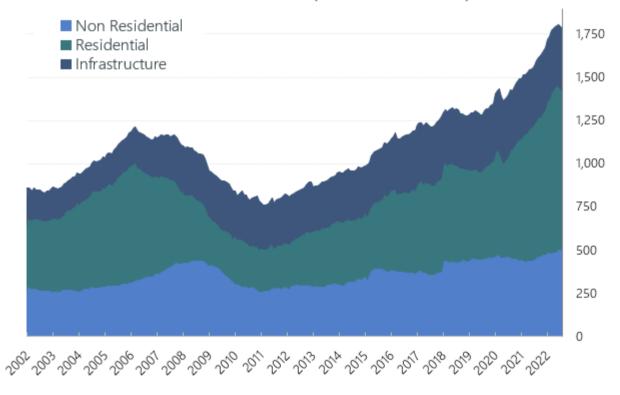


Inflation Act
500B/10 years = 50B/year
x 30% into construction x 75% de-escalation over 10
years x 70% into hard construction =
10B / year add to construction current \$ volume

Infrastructure Act
550B / 8 years = 70B/year
x 80% into construction x 80% de-escalation over 8
years x 70% hard construction =
30B / year add to construction current \$ volume

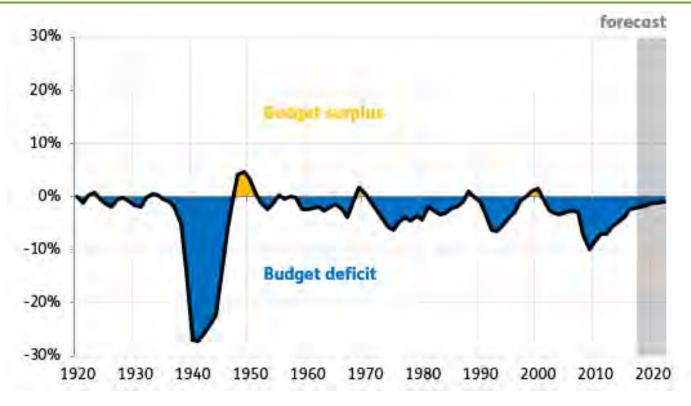


#### Put In Place Construction (annualized billions)



40B / 1,750B = 2.3% total increase to annual construction

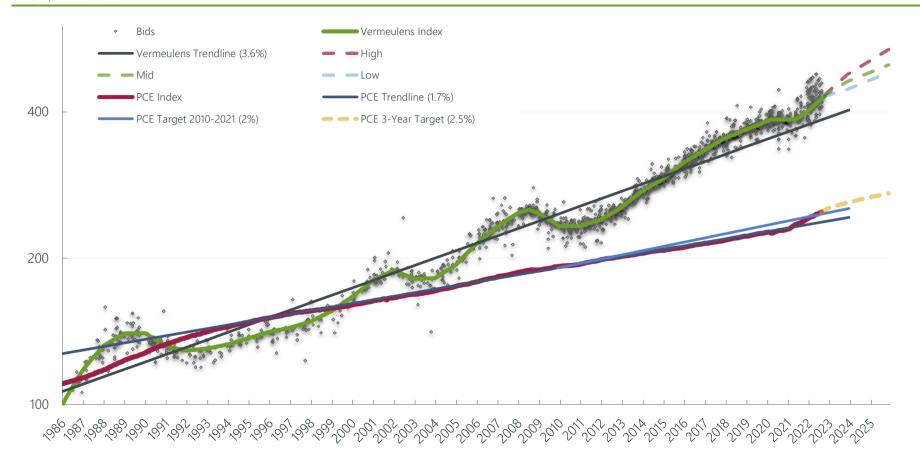




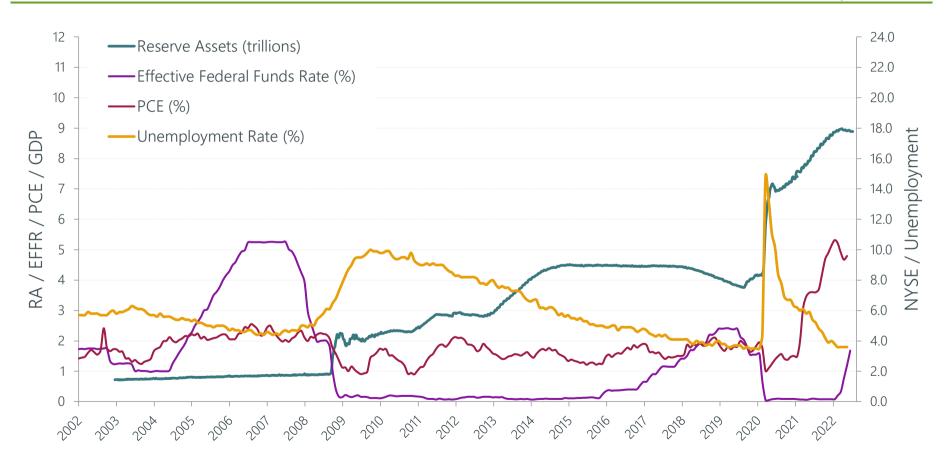


# Market Update

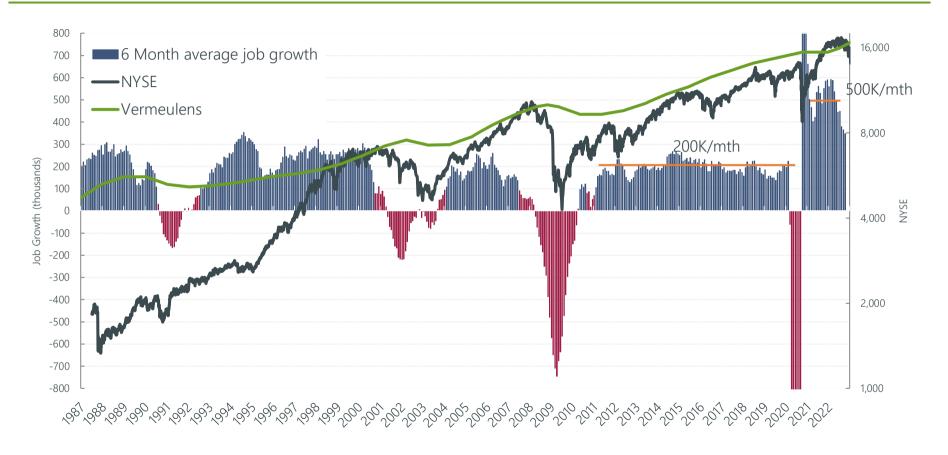




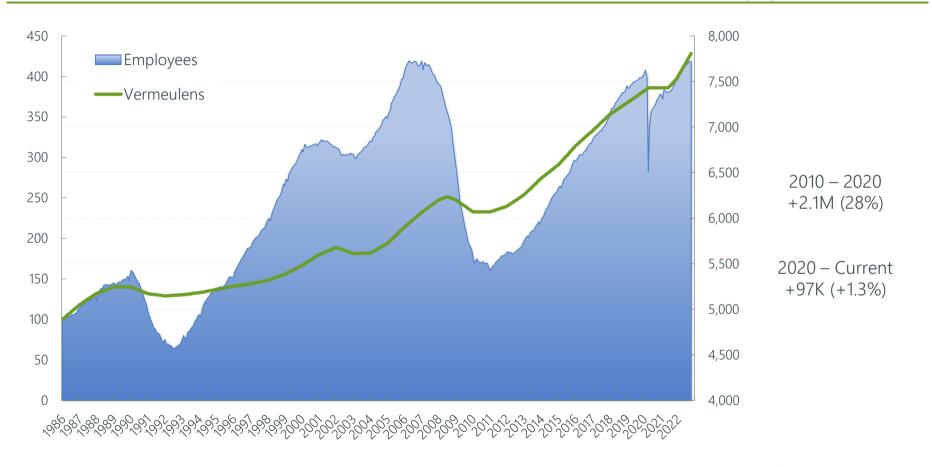




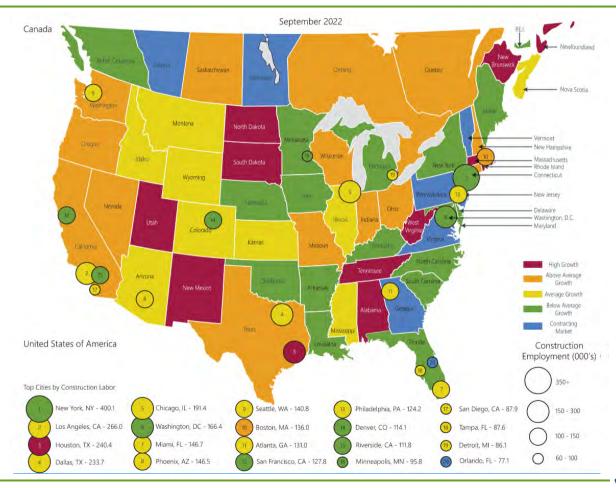




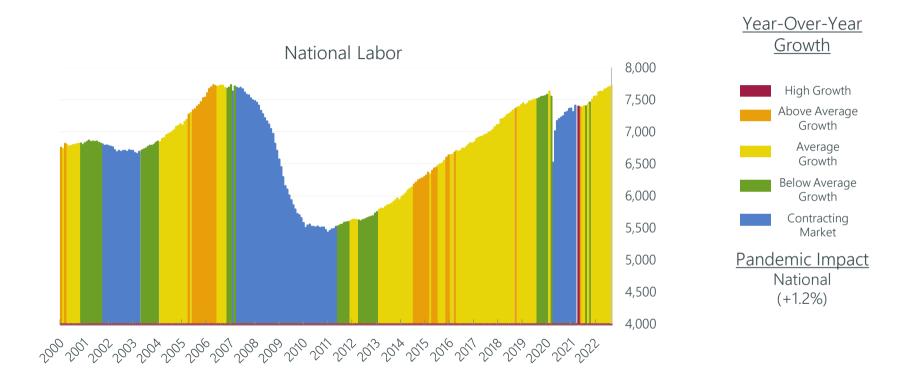






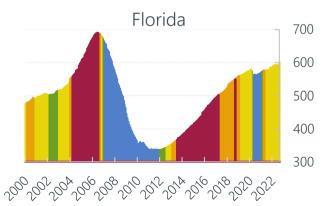


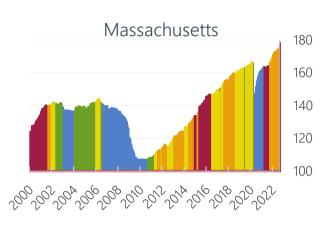


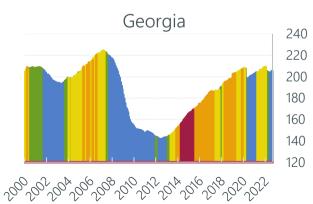


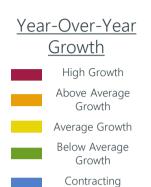










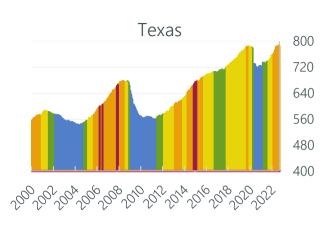


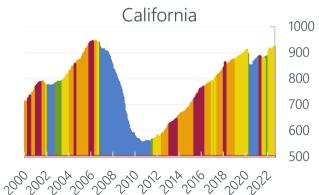
#### Pandemic Impact

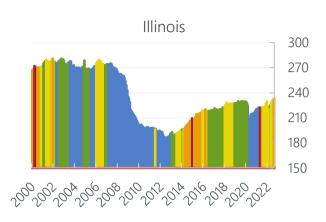
Market

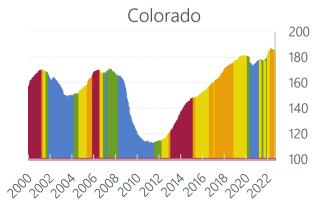
New York
(-8.0%)
Massachusetts
(+7.0%)
Georgia
(-1.5%)
Florida
(+4.1%)
National
(+1.2%)











#### <u>Year-Over-Year</u> Growth





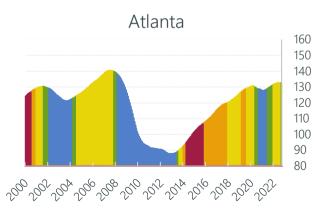


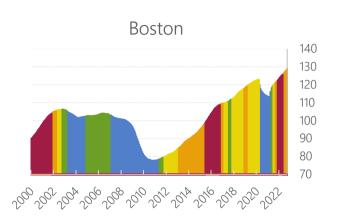
#### Pandemic Impact

Texas
(-0.1%)
Illinois
(+1.2%)
California
(+1.1%)
Colorado
(+1.9%)
National
(+1.2%)











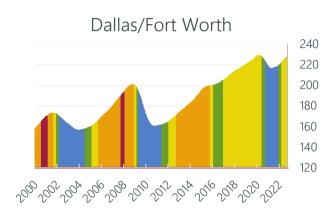


#### Pandemic Impact

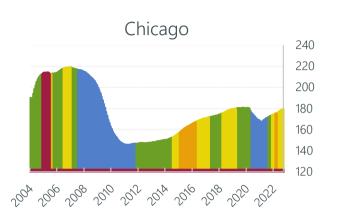
Market

New York City (-6.9%) Boston (+6.5%) Atlanta (-0.3%) Miami (+2.1%) National (+1.2%)

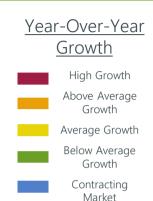












#### Pandemic Impact

Dallas (-0.4%)

Chicago

(+0.2%)

Los Angeles

(+2.0%)

Denver

(-0.6%)

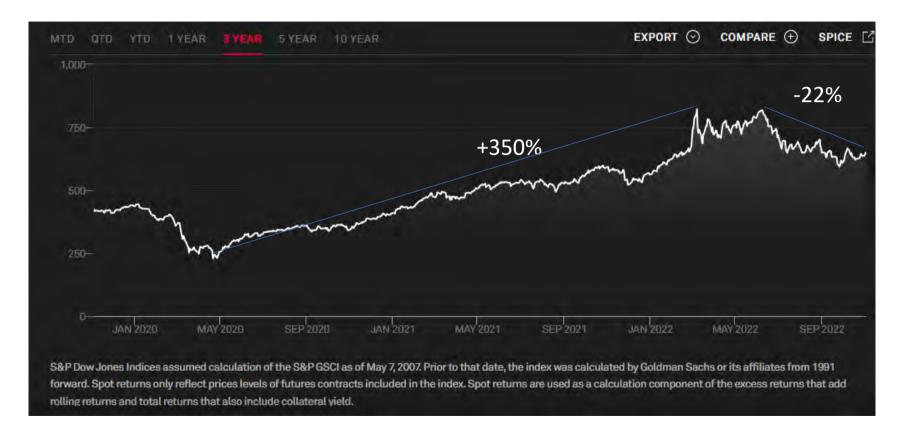
National

(+1.2%)



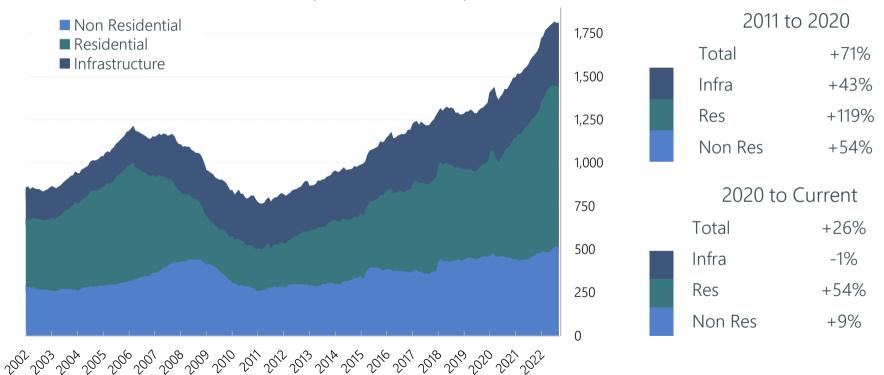




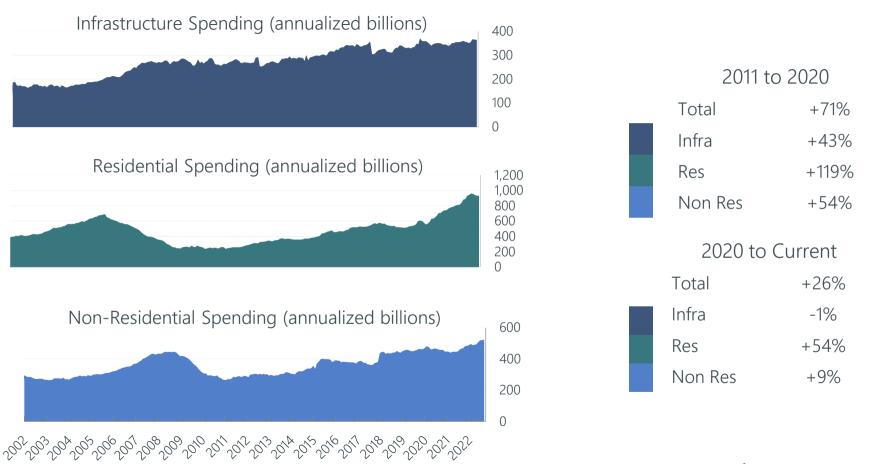




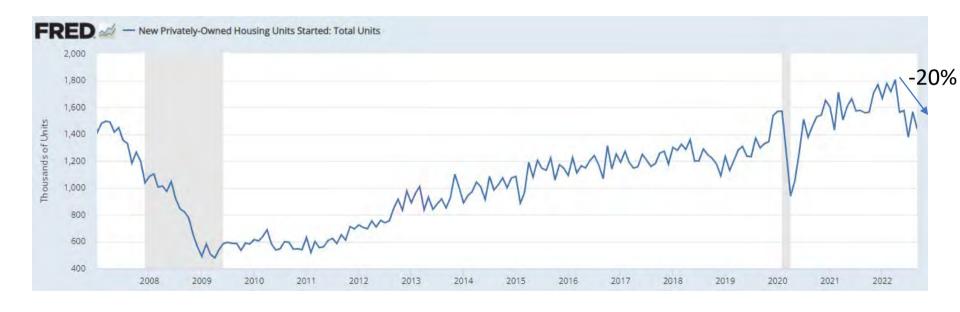






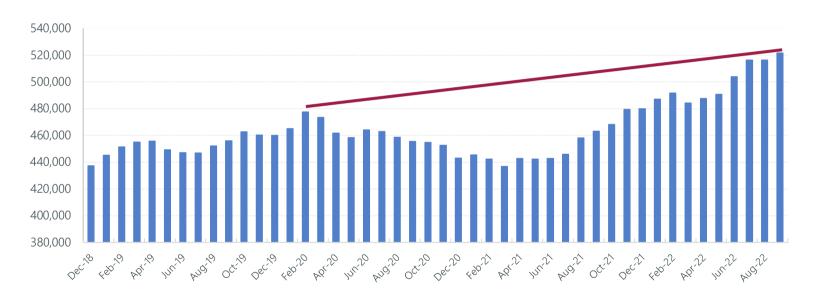




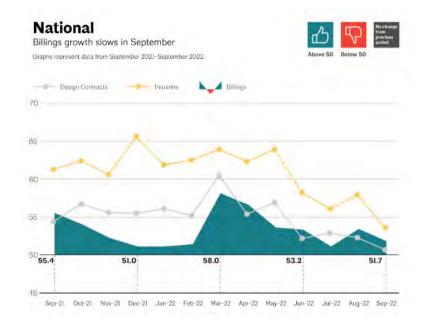


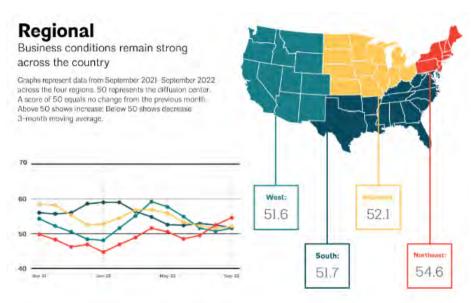


#### Total Non-Residential Spending (\$millions)

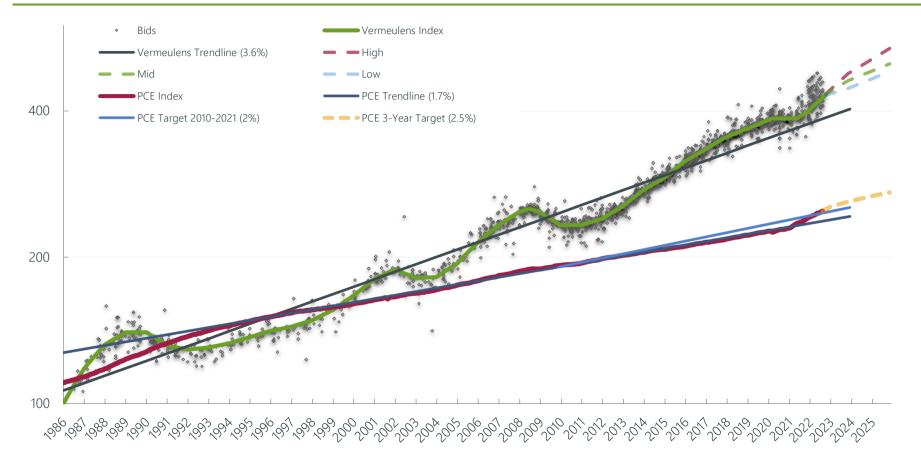








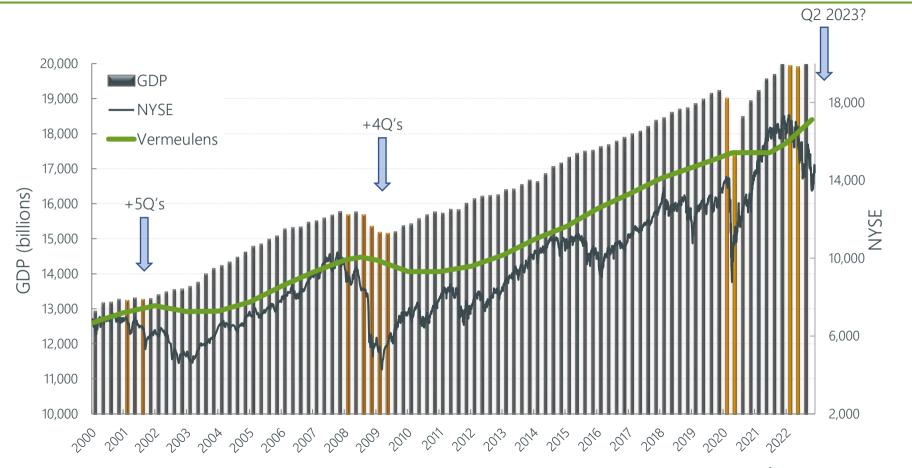














# Pricing – "Fear Factor"

While inputs appear to be stabilizing, trade bid pricing continues to <u>reflect layers of risk</u> including supply chain, escalation, labor capacity, and a large pipeline. Trade partner <u>sentiment has shifted</u> <u>somewhat</u> from 'too busy' to 'have holes / looking', but we are waiting for broader pricing patterns to emerge.

#### Labor

Labor capacity challenges continue in our geographies and appear to be reflected in bid pricing.





#### **Materials**

While lead times have stabilized and even retracted for many materials, major MEP equipment continues to worsen, necessitating early procurement of trades or isolated equipment. Continued chip shortages, war, weather, and other global events are making it very difficult predict when it return to normal.





#### 2023 Escalation Forecast

We are <u>forecasting 4-6% by the end of 2023, but there</u> <u>are many variables</u>. We are expecting inputs to be more stable going forward. There's a large pipeline of work, but due in part to interest rates we expect a lower percentage of the pipeline to materialize, potentially facilitating less conservative pricing.





# Risk Management

Trying to draw the CMAR's back into a <u>cooperative discussion</u> about risk management

Clarify which risks the contractor should prepare for, which one the owner will bear, and at what levels.

<u>Pricing at current levels</u> and then having ongoing discussions about escalation, contractor contingency and owner contingency is starting to be heard.



Project scoping - Working out ways to quickly resolve the risk <u>(accelerated buyouts)</u> and then getting savings back into meaningful scope are also hot topics.

Bidder participation – Working out ways to eliminate the <u>prequalification processes</u> that CMAR's use to limit "potentially" unqualified bidders, to increase bidder participation without endangering finished quality.





2023 Economic Performance Scenarios	2023 Jobs Creation Economy	2023 Jobs Creation Construction
Modest Growth	+2 Million	+0.2 Million
Minimal Growth	+1 Million	+0.1 Million
Soft Landing	Zero	Zero
Minimal Recession	-1 Million	-0.1 Million
Mild Recession	-2 Million	-0.2 Million
Moderate Recession (eg.com Bomb)	-4 Million	-0.4 Million
Deep Recession (eg Financial Crisis)	-9 Million	-2.1 Million



# Project Contingency and Escalation Recommendations

## design contingency

→ preliminary design	10% - 15%
→ schematic design	6% - 9%
→ design development documents	3% - 6%
→ contract documents	0% - 3%
→ design alternates	10% - 15%
construction contingency	3% - 5%
escalation, based on market outlook and local index	6% - 9%
bidding contingency	5% - 15%
project contingency (owner)	5% - 15%



- → Carry a minimum annual escalation of 4% to procurement in 2022, and early 2023
- → Carry 5% 15% bidding contingency until volatility reduces to more normal levels
- → Design add/deduct alternates in the 10% of construction cost range
- → Continue design and get shovel ready
- → Continue to monitor Fed policies (interest rates) designed to reduce demand

# Design and Construction Market Outlook®

# Thank you!

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