





Thank your lucky stars you're in Texas!

Presented by ITR Economics
President
Alan Beaulieu, PhD

### 2021 Forecast Results

### **Despite everything that happened...**



	Duration	Accuracy
US GDP	15	98.6%
US Ind. Production	19	98.3%
Europe Ind. Production	11	97.3%
Canada Ind. Production	12	99.5%
China Ind. Production	14	97.7%
Retail Sales	11	90.6%
Housing - Single Family	12	93.1%
Employment-Private Sector	18	99.2%

ITR Economics provides the best economic intelligence to reduce risk and drive practical and profitable business decisions.





# The US Economy



### Headline News But Not Foresight



- "George Soros says US banks 'basically insolvent'," Reuters, 4/6/2009
- The financial sector ETF (XLF) established a low in February 2009)

### Economy is Already Collapsing, Majority of Americans Believe Newsweek June 17, 2022

- "Debt Crisis unsettles European economy," The Washington Post, 2/9/2010
- EU GDP declined for one quarter (1Q10) before resuming its ascent
- ❖ "Dow's Brief Falls of 1000 Points Sets off Anxiety," The New York Times, 5/6/2010
- S&P 500 declined further, hitting a low in June, closing up 28.1% one year later

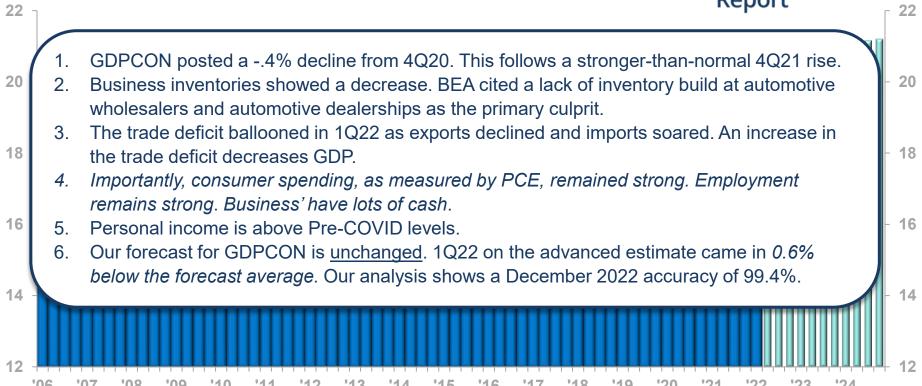
### **Growth Through 2024**

#### **US Gross Domestic Product, SAAR, Chained 2012 \$**

3-Month Moving Average, Trillions of Dollars





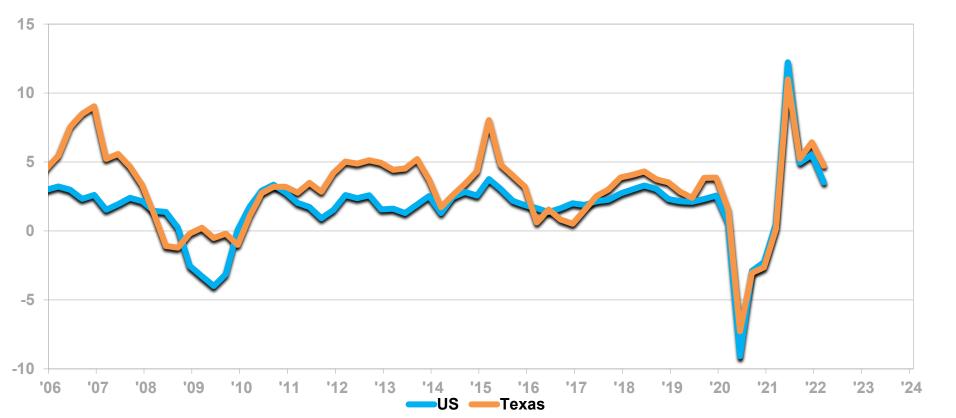


# Close Cyclical Relationship

#### **US and Texas GDP Growth Rate**

3/12 Rates-of-Change



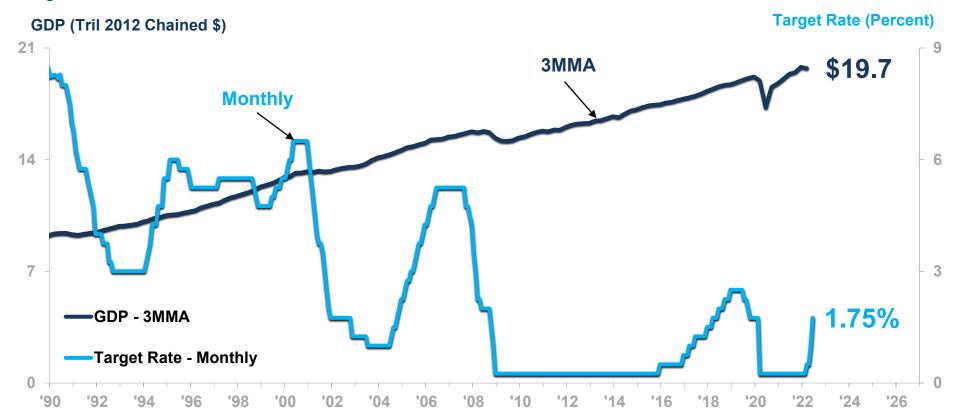


### No Immediate Adversity Beyond the Emotional

#### **US Federal Funds Target Rate to US Real Gross Domestic Product**

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Target Rate: Percent, GDP: Trillions of Dollars

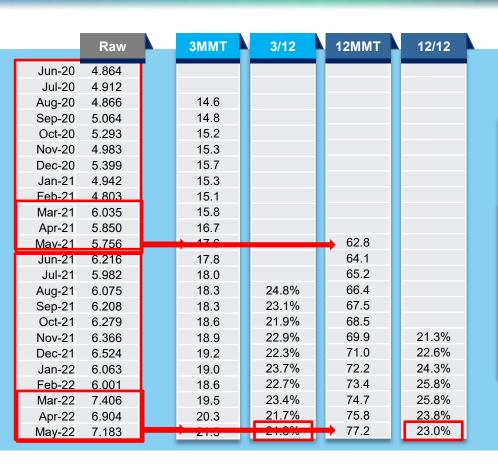


### Slowing Macro Growth Tends to Tame Inflation



# A Powerful Management Tool • Rates-of-Change





### 3/12

Based on data from a consecutive 3-month period compared to one year earlier.

**Anticipates** shifts in business cycle trends.

### 12/12

Based on data from a consecutive 12-month period compared to one year earlier.

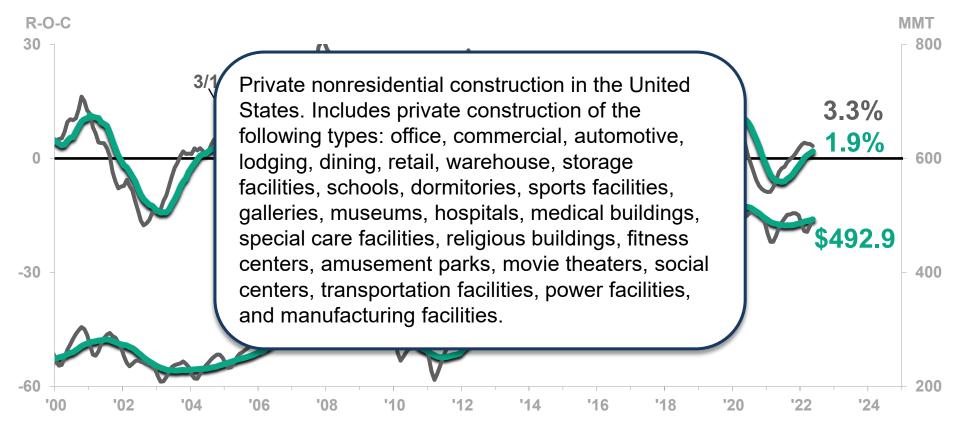
**Defines** the business cycle.

### Indicating Cyclical Rise Ahead

#### **US Private Nonresidential Construction**



#### Billions of Dollars



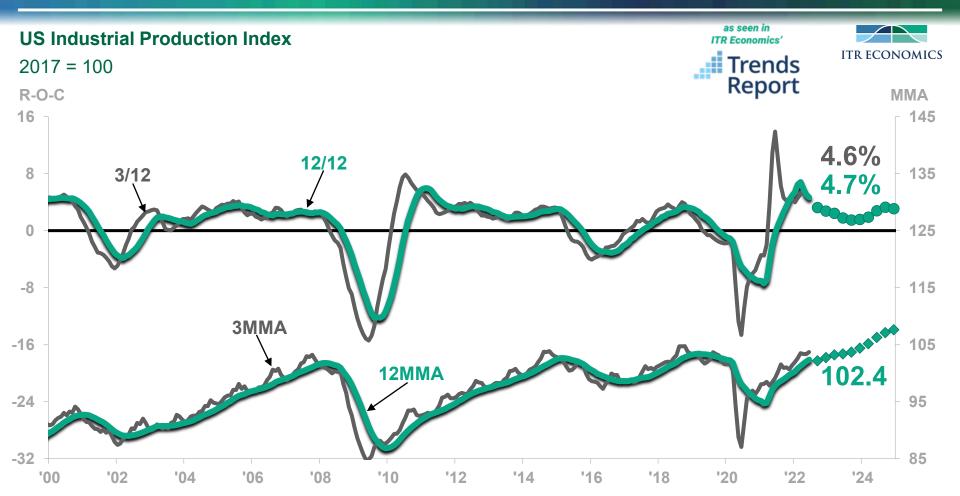
# US Economic Leading Indicators: Deceleration in 2022 & 2023

Indicator	Trend	Macro Indication ITR ECONOMICS	
ITR Retail Sales Leading Indicator	Decline	Deceleration probable for 2022	
ITR Financial Leading Indicator	Decline	Deceleration probable for 2022	
JPMorgan Global PMI	Decline	Deceleration probable for 2022	
OECD Leading Indicator	Decline	Deceleration probable for 2022	
G7 Leading Indicator	Decline	Deceleration probable for 2022	
Purchasing Managers Index (PMI)	Decline	Deceleration probable for 2022	
ITR Leading Indicator	Decline	Deceleration probable for 2022	
Wilshire Total Market Cap	Decline	Deceleration probable for 2022	
US Business Confidence Index	Decline	Deceleration probable for 2022	
Single-Family Housing Starts	Decline	Deceleration probable for 2022	
Total Industry Capacity Utilization	Decline	Deceleration probable for 2022	
US Exports, Goods – World	Decline	Deceleration probable for 2022	

### Plan on Growth Through 2023



# Rise Through 2023

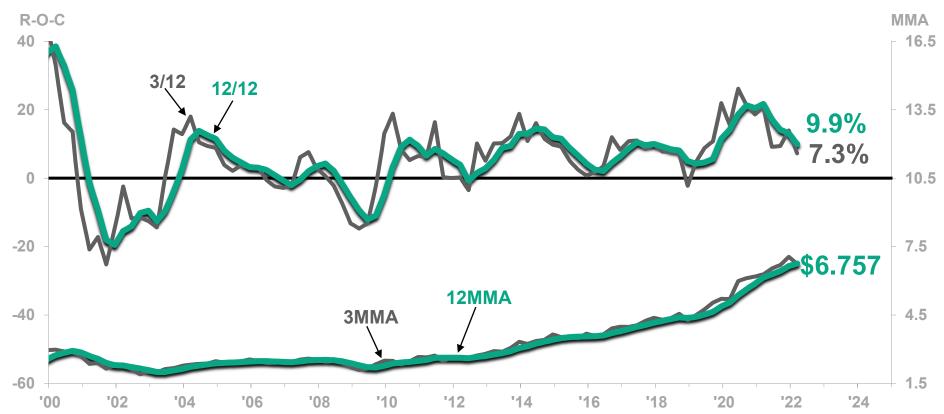


### Strong Liquidity Positions

### **US Nonfinancial Corporate Business Liquid Assets**







# The US Macroeconomic Summary









### **Next Steps**

Listen to your numbers and relevant leading indicators.





# Financial Markets

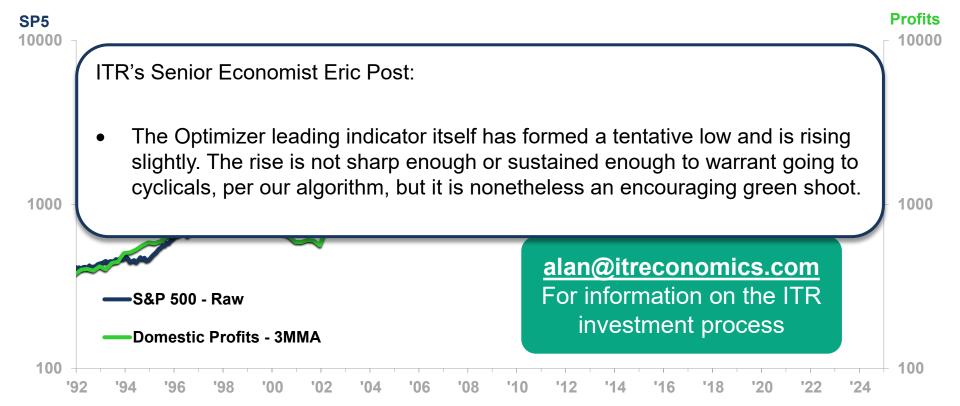


### Increasingly Risk Laden

# US Stock Prices Index to US Domestic Corporate Profits with Capital Consumption Adjustments



**Data Trends** 



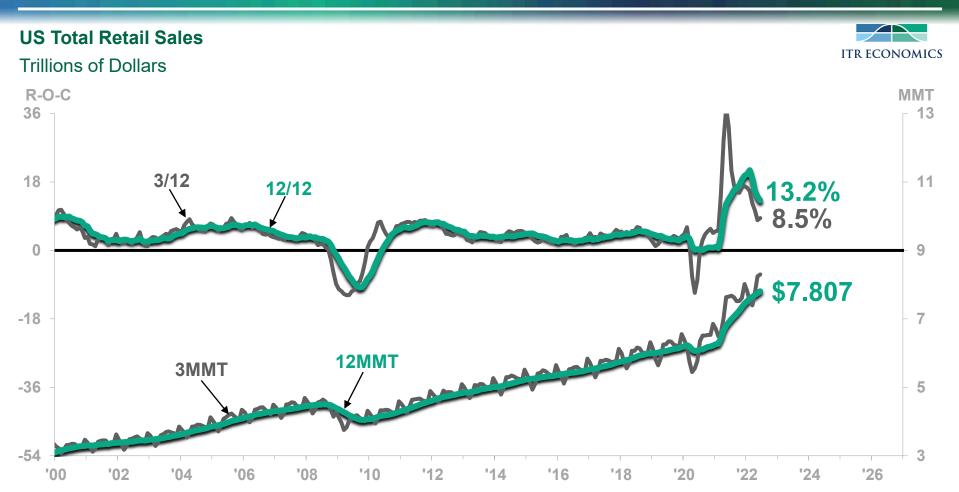




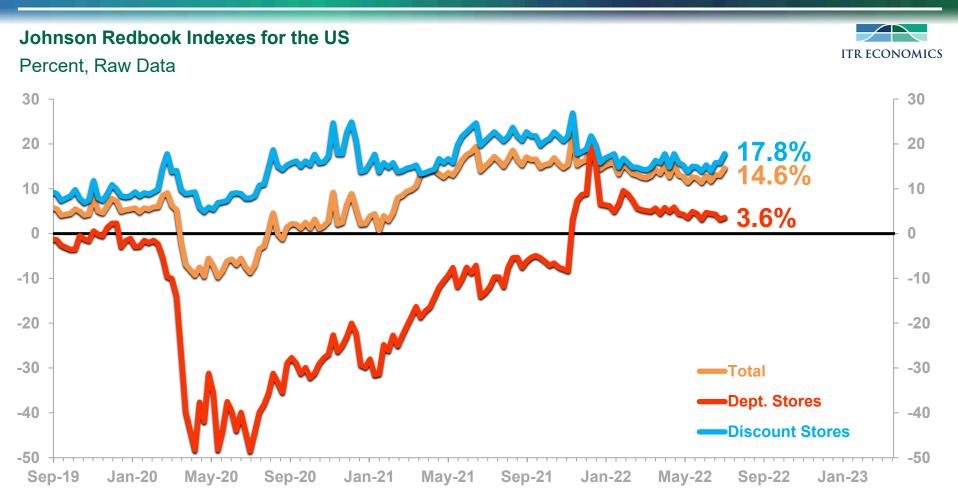
# People



# Stimulus-Driven Ascent Is Dissipating



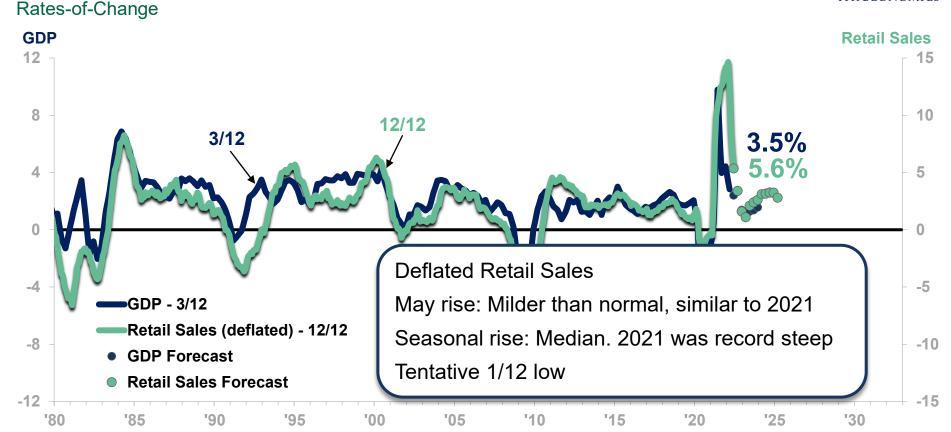
### Retail Sales Are Holding Up



### Retail Sales Deflated and GDP Heading to Soft Landing



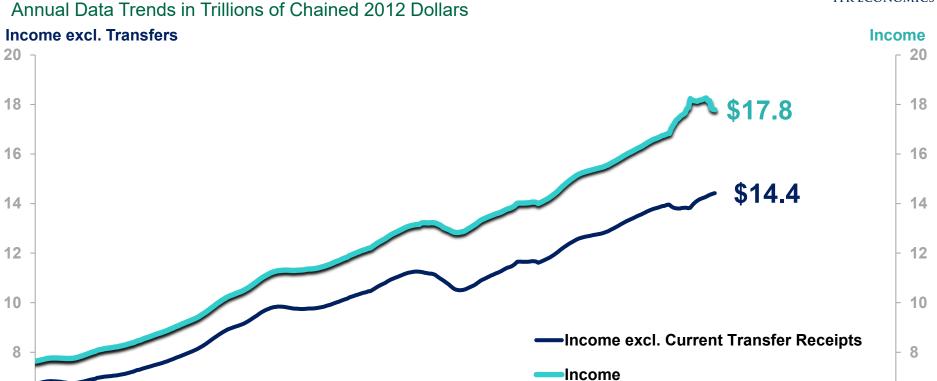




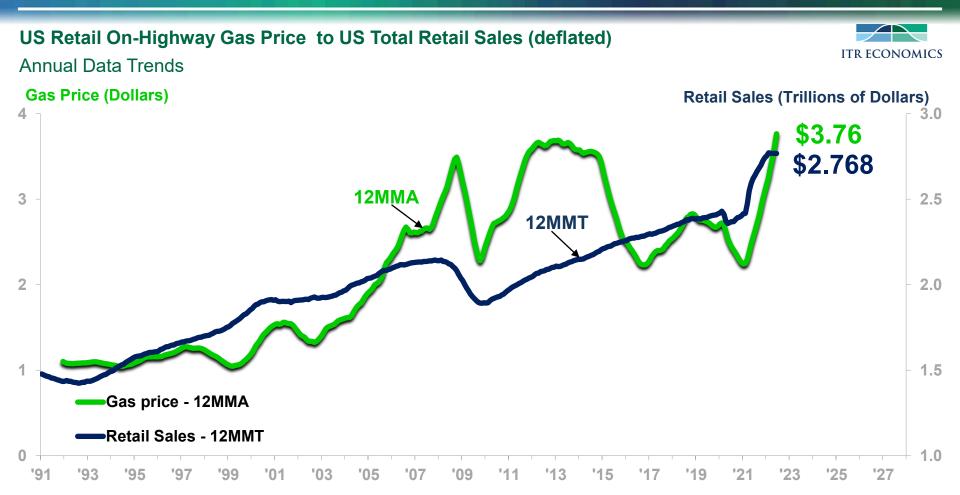
# Rising Inflation Adjusted Wages

#### US Real Personal Income (excluding current transfer receipts) to US Real Personal Income

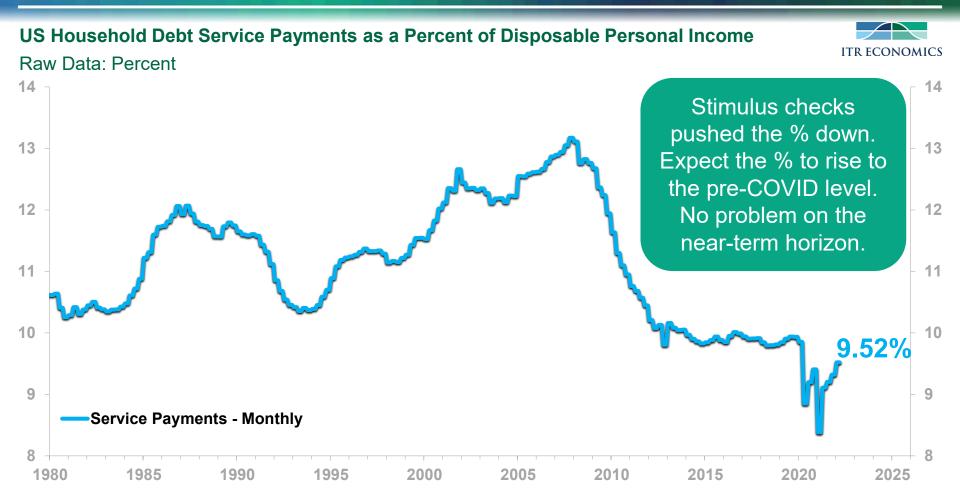




### Retail Sales Can Rise With High Gas Prices



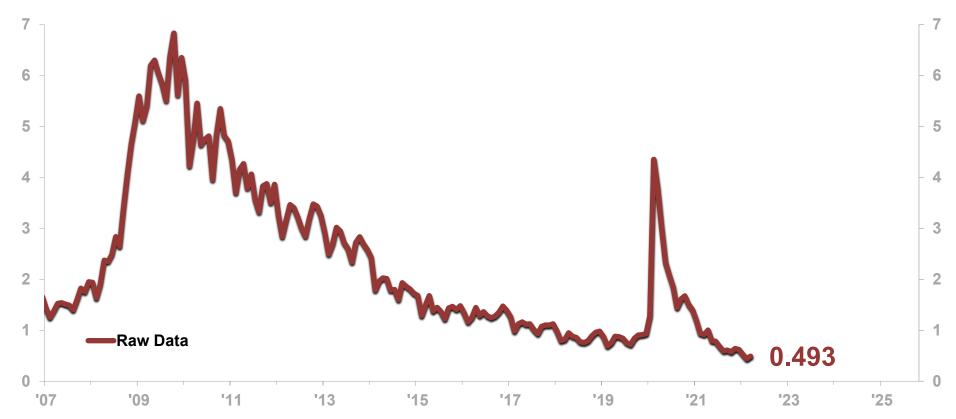
### The Consumer Is In A Sound Financial Position



### **US Number of Unemployed Persons per Job Opening**

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Raw Data, Number of Persons







# Inflation and Interest Rates



### Potential to Do Some Real Damage

### **US Federal Funds Target Rate to US Consumer Price Index**

Target Rate: Percent, CPI: 1/12 Rate-of-Change

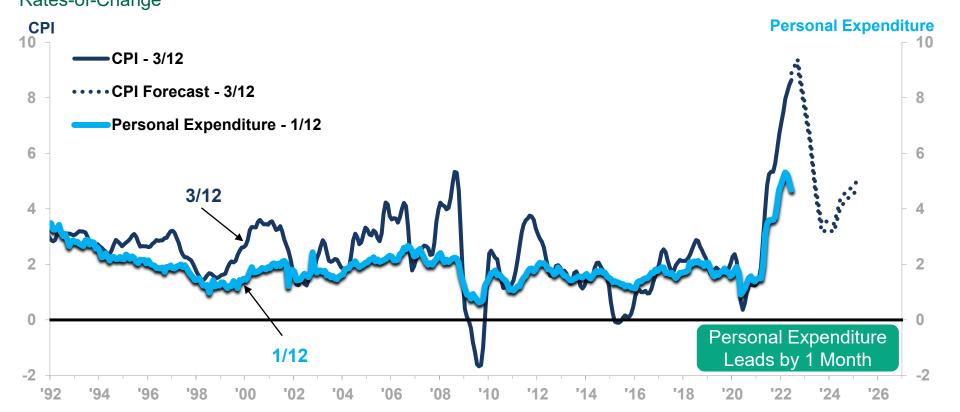




### Disinflation has begun

# US Consumer Price Index to US Personal Consumption Expenditures Price Index (excluding food and energy) Rates-of-Change





# High Energy Prices But the Rate of Inflation is Declining

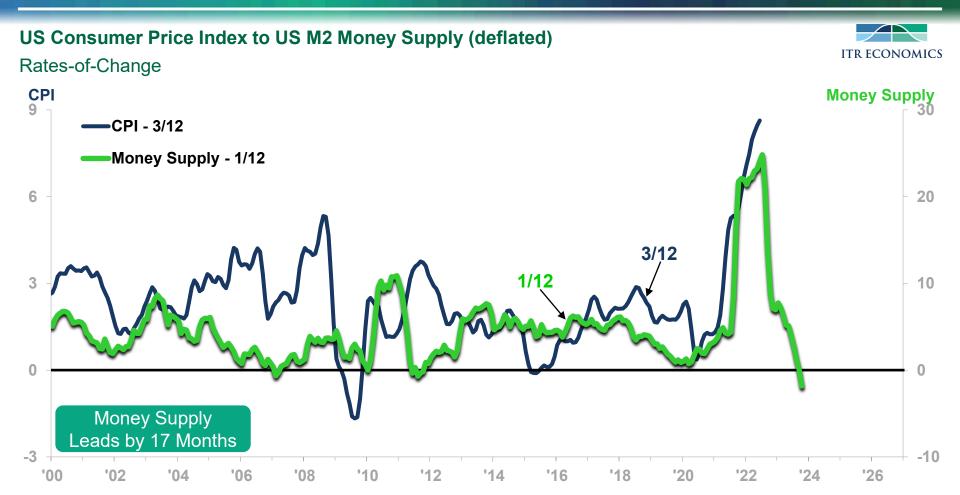




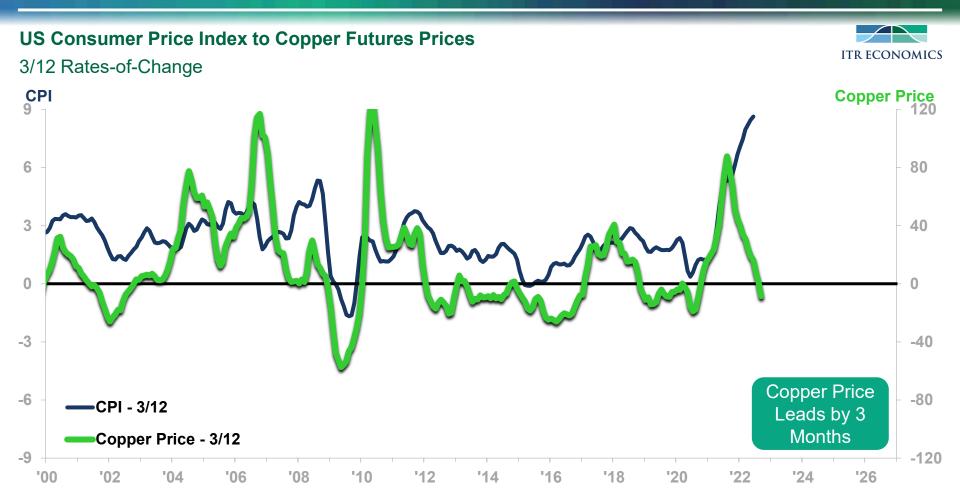




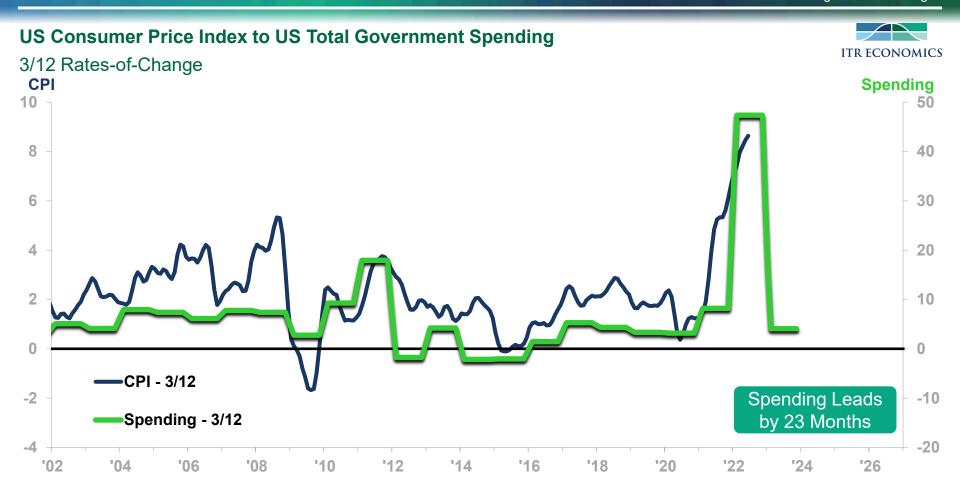
# A Monetary Signal Pointing to Less Inflation



### Dr. Copper Says Inflation Moderation Ahead



### A Clear Indication of Near-Term Disinflation



# Easing Supply Chain Pressures Foreshadow Easing Inflation



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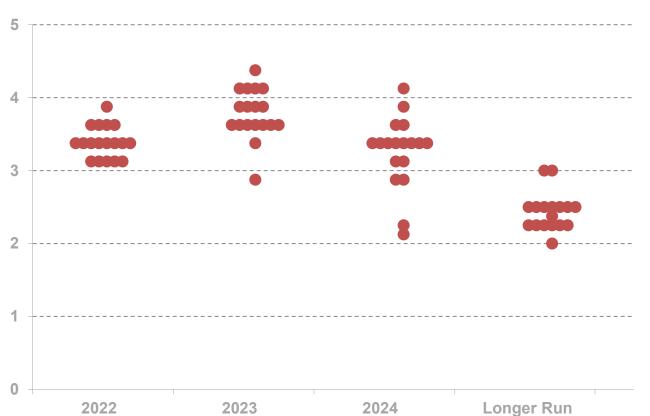
12/12 R-O-C to Quarterly Data Trend



### FOMC Member Interest Rate Projections

### Fed Open Market Committee | June 2022





Make acquisitions

Invest in your products – innovate

Invest in your processes – efficiency gains, supply chain

Invest in sales and marketing

### **Pricing Pressures Summary**









### Next Steps

Use the abeyance in pressure to formulate a long-term strategic plan re: price increase

Know and expound upon your competitive advantages





# Texas



## Texas Population Growth Rate

#### Percent Change from Population Estimates 2016 to 2020



City	<b>Growth Rate</b>
Houston	0.4%
San Antonio	5.3%
Dallas	1.5%
Austin	5.9%
Fort Worth	8.4%
El Paso	0.4%
United States Total	2.0%

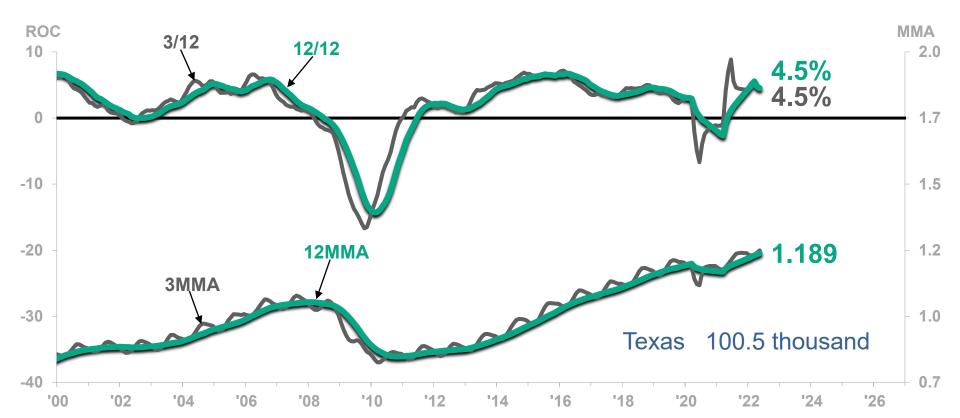


## **Ongoing Demand for People**

#### **US Plumbing and HVAC Contractors Employment**

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Millions of People

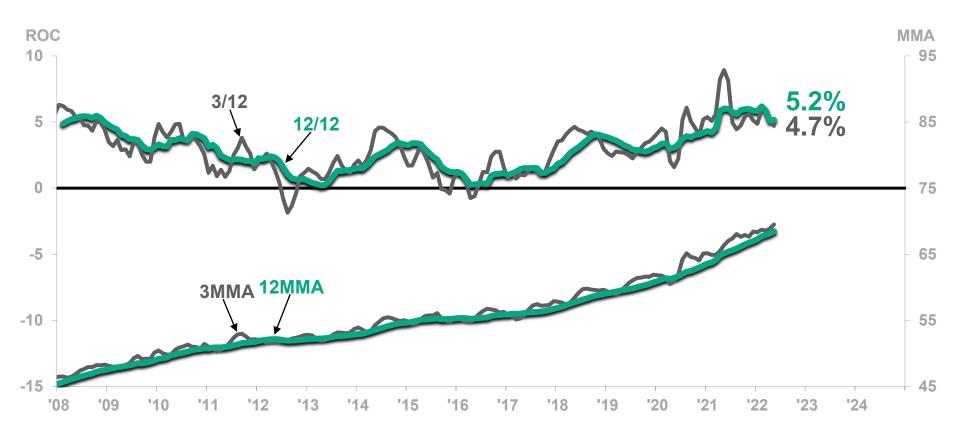


## Strong Rate of Rise - Some Easing as Inflation Eases

#### **US Plumbing and HVAC Contractors Average Annual Earnings**

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Thousands of Dollars

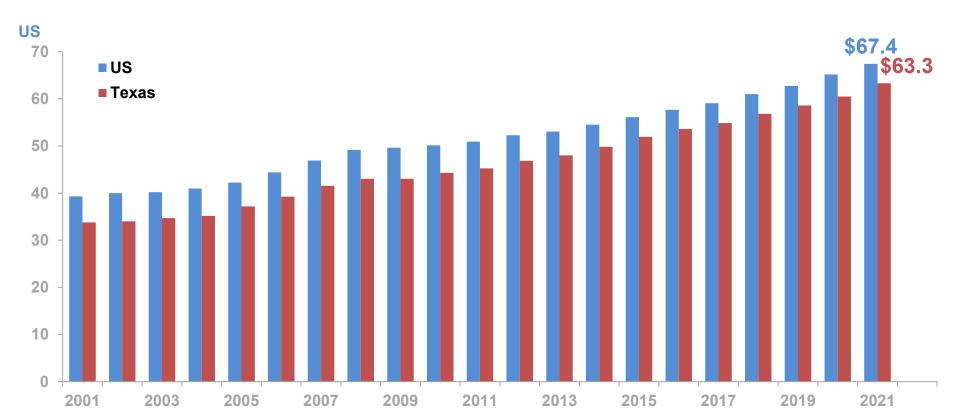


## Higher and Higher

#### Plumbing and HVAC Average Annual Wages, US vs. Texas

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**Thousands of Dollars** 



## Positive News for the Texas Economy

#### **Texas Housing Permits**

**Thousands of Permits** 



Location	12/12	Phase	Annual Trend	Direction
Texas Total	6.5%	С	261.4	<b>^</b>
Texas Single-Family	-0.4%	D	174.5	$lack \Psi$
Texas Multi-Family	23.5%	В	87.0	<b>^</b>
*San Antonio Single-Family	10.1%	С	13.6	<b>^</b>
*Houston Single-Family	3.0%	C	54.1	<b>V</b>
*Dallas Single-Family	1.8%	С	49.7	<b>^</b>
*Austin Single-Family	1.0%	С	24.2	<b>V</b>

<sup>\*</sup>Metropolitan Statistical Areas









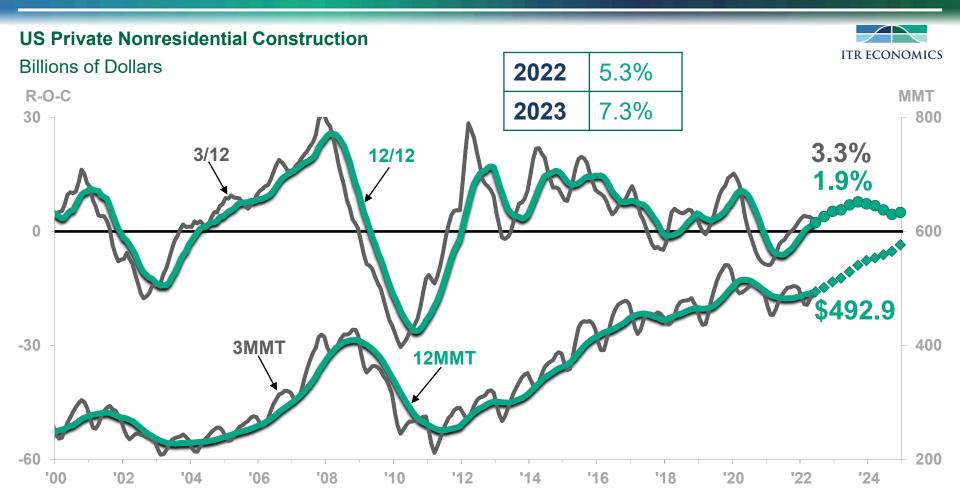




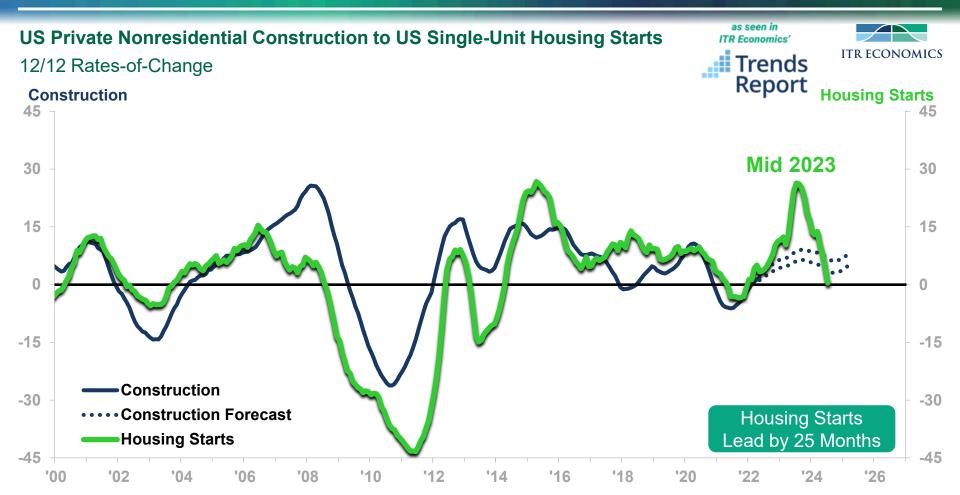
# Construction Markets



## Strong Indication Of Cyclical Rise Ahead



## Housing Leads - Nonresidential Lags



NonRes Construction

'14

**NonRes Construction Forecast** 

'16

'18

'20

## US Total Nonresidential Construction Renovations to US Private Nonresidential Construction

-20

-30

'08

'10

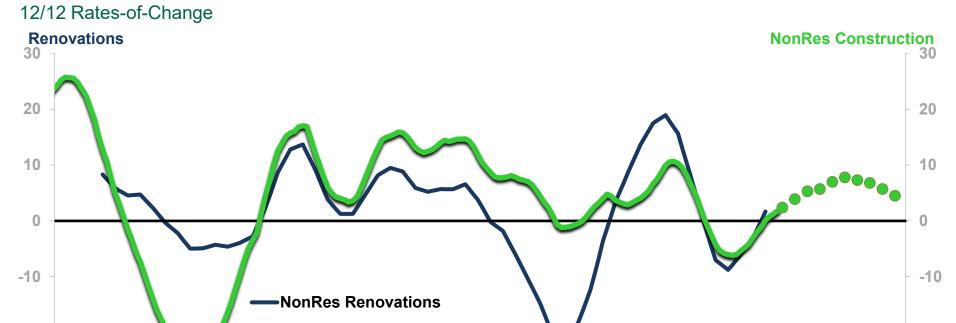


-20

-30

Construction Leads

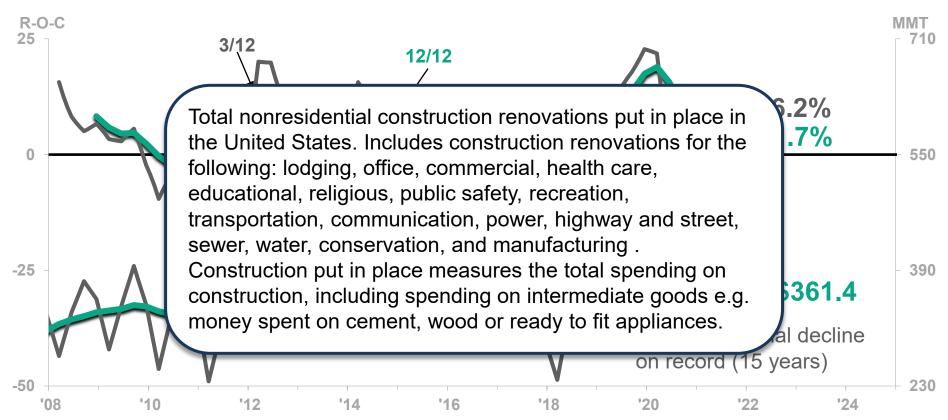
by 1 Month



## Ongoing Cyclical Rise

#### **US Total Nonresidential Construction Renovations**

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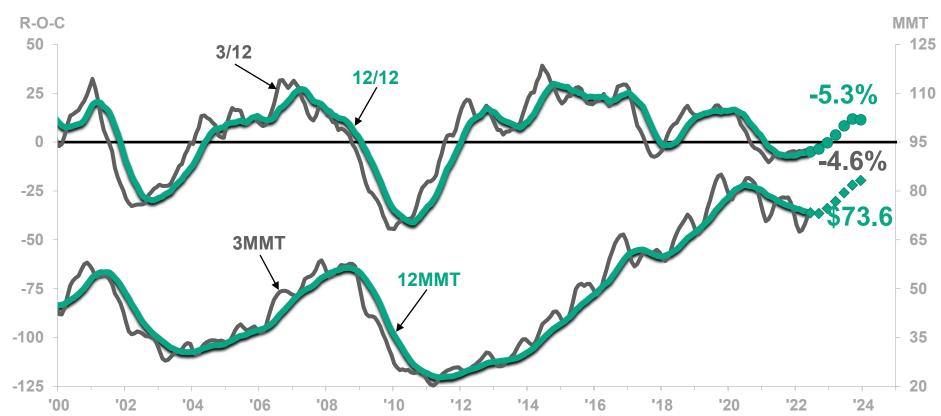


## Expect Construction To Rise Through Mid 2023





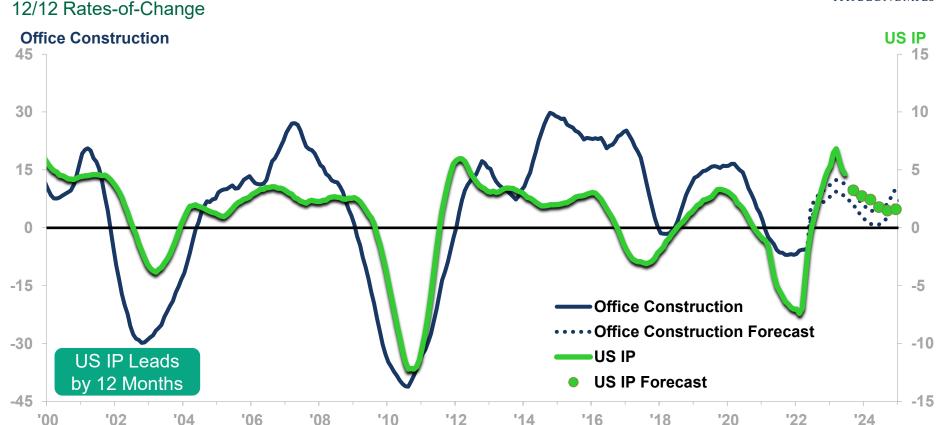




## The Macro Outlook Says Office Construction Slows 2H23





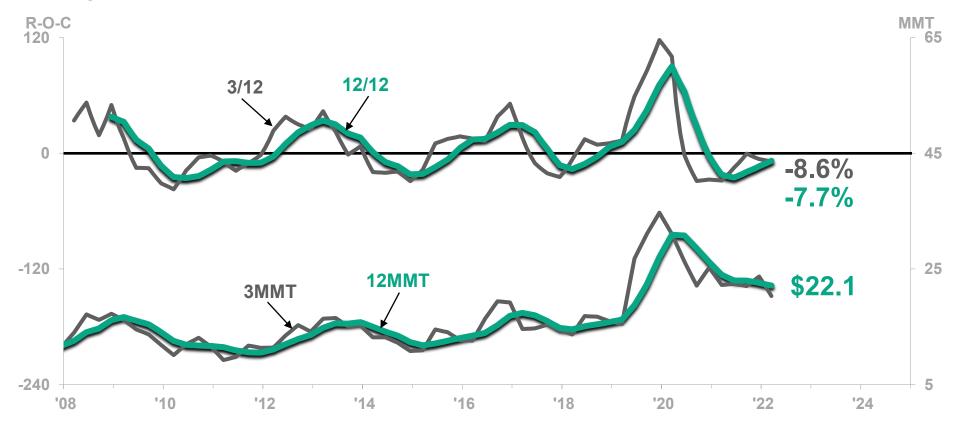


## Struggling to Find a Cyclical Low...

#### **US Total Value of Office Construction Renovations**



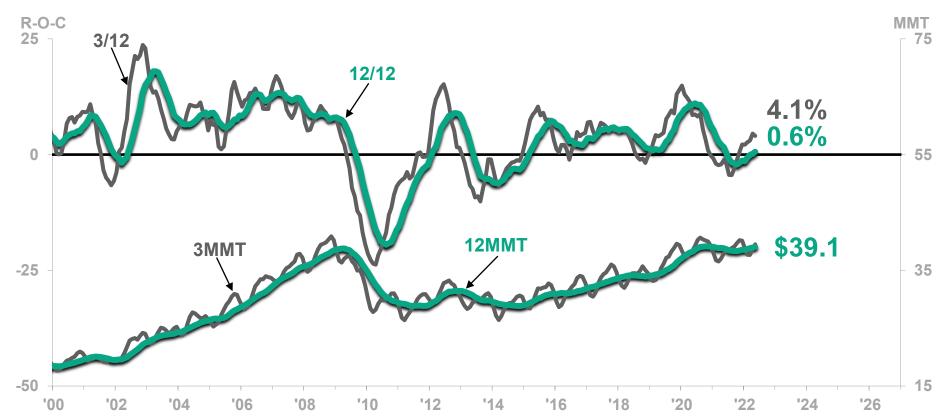




## Near-Term Cyclical Rise

#### **US Private Health Care Buildings Construction**

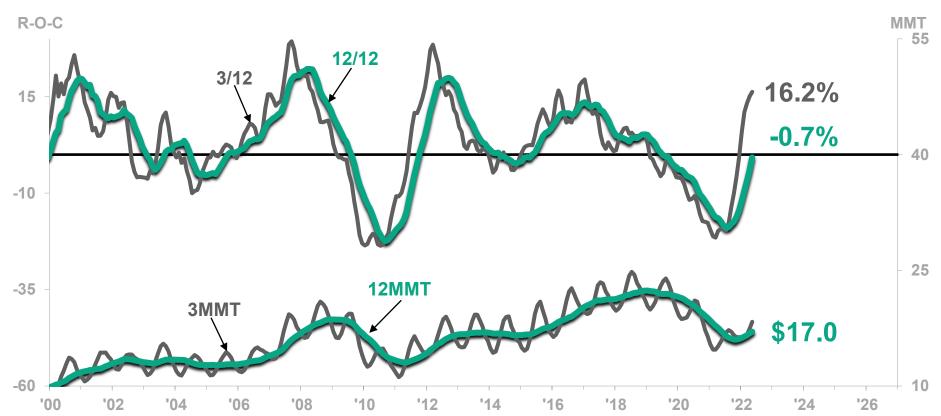




### Clear Indication Of More Rise Ahead

#### **US Private Education Construction**

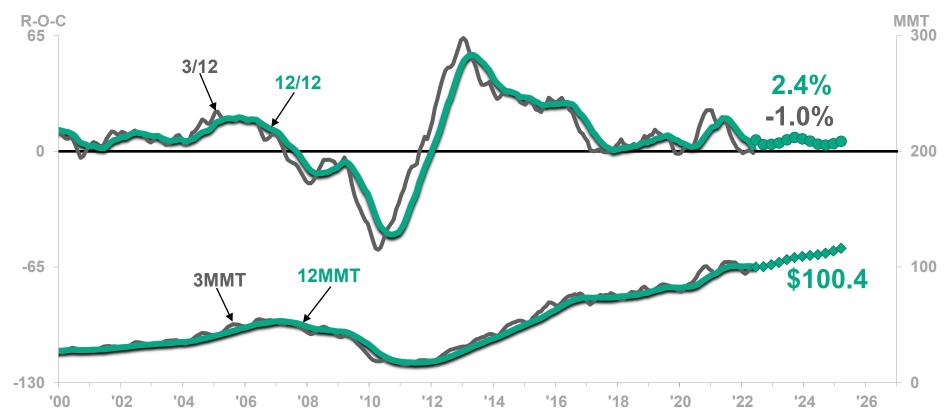
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## Decelerating Rise Ahead



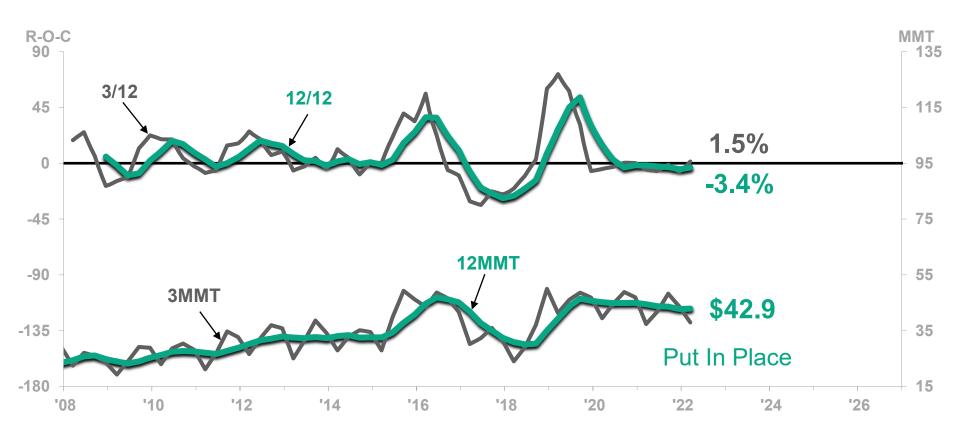




## Not Moving With the National Trend

#### **US Texas Total Value of Nonresidential Construction Renovations**

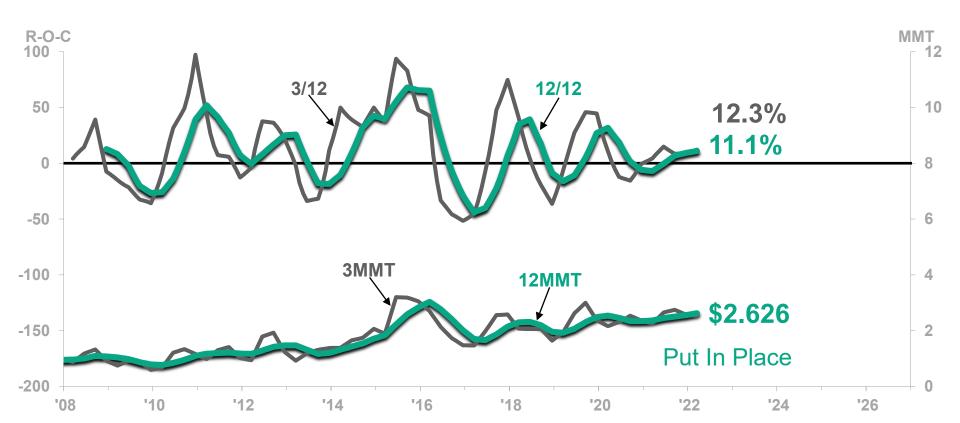




## More Opportunities

#### **US Texas Total Value of Commercial Construction Renovations**

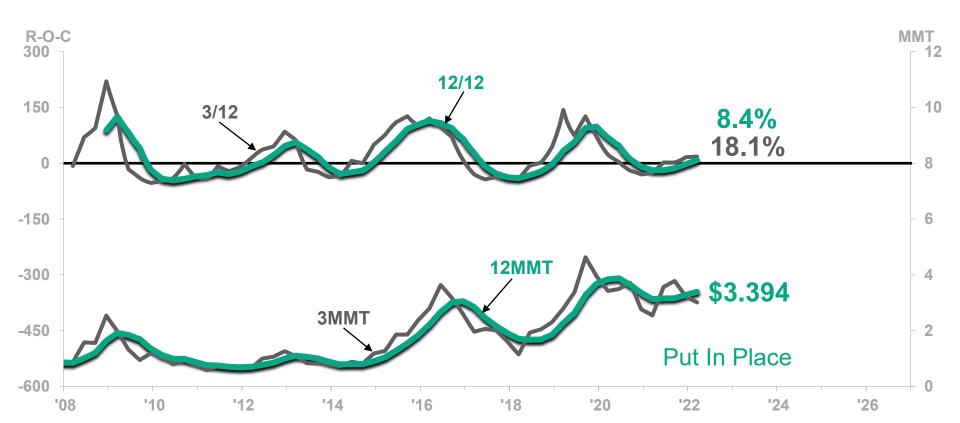
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## **Opportunities**

#### **US Texas Total Value of Office Construction Renovations**

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## A Look at Texas

#### **Value of New Construction**



	12/12	Phase	3/12	Phase	12MMT	12MMT Notes
Austin Commercial	7.1%	C	5.4%	С	\$ 1.5 bn	Decelerating rise
Dallas Commercial	11.1%	В	28.7%	В	\$ 3.4 bn	Rising
Houston Commercial	-4.3%	A	-6.6%	D	\$ 3.1 bn	Declining
San Antonio Commercial	12.9%	В	17.8%	В	\$ 1.3 bn	Rising
Austin Office	-30.3%	A	-0.4%	A	\$ 3.0 bn	Declining – 12/12 A
Dallas Office	-11.9%	A	1.5%	В	\$ 3.8 bn	Rising
Houston Office	7.8%	В	9.7%	С	\$ 2.2 bn	Decelerating rise
San Antonio Office	13.2%	В	10.1%	C	\$ 0.7 bn	Decelerating rise











# Any questions?



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