

### With You Today



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#### Learning Objectives

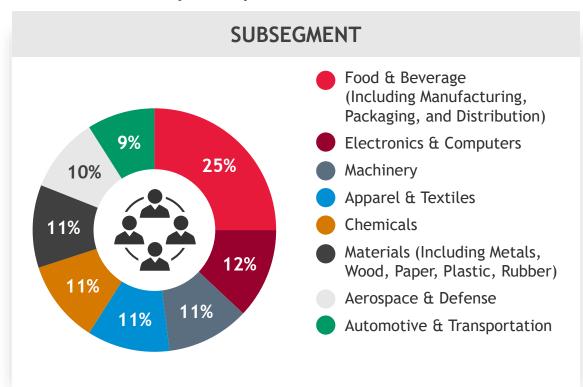
This is a CPE qualified session. We will cover the learning objectives shown here throughout this presentation:

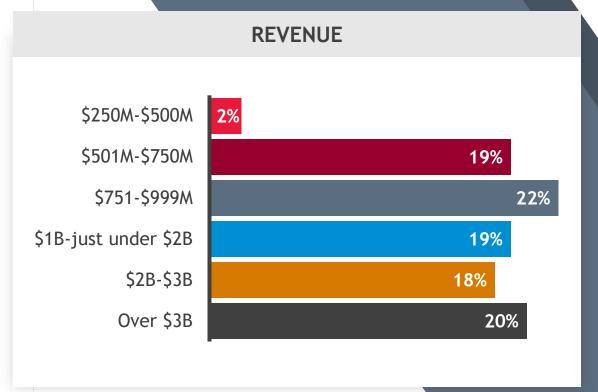
- Identify the key regulatory changes impacting the manufacturing industry and understand their implications on supply chain resilience.
- ► Recognize the potential of artificial intelligence (AI) in enhancing supply chain efficiency and explore ways to leverage AI technologies in your organization.
- Explore the new tax incentive opportunities and learn how to maximize their benefits for your manufacturing businesses.
- ► Rethink your business strategies and adapt to the changing manufacturing landscape to ensure long-term success and resilience.



# 2024 Manufacturing CFO Outlook Survey

- ▶ 5th annual survey of manufacturing industry CFOs
- Conducted by independent market research firm, Rabin





# Our Agenda Today

Today's panel discussion covers and economic overview and three major areas of risk and opportunity on manufacturers' radars in 2024.



#### **Economic Overview**



**Evolving Supply Chains** 

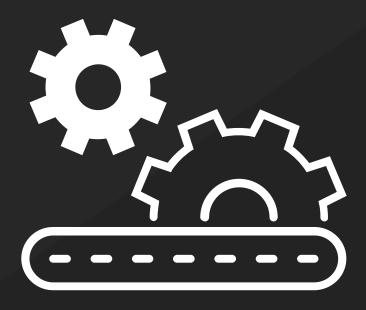


**Accelerating Innovation** 



Revitalizing U.S. Manufacturing

# **Economic Overview**





# Manufacturing in 2024's Soft Landing Economy

BDO Manufacturing Outlook April 9, 2024





#### There Is No One Size Fits All

- ► The U.S. economy gives mixed signals on the strength of the economy
  - Macroeconomic tools are at cross-purposes
  - Result is an economy that is strong and weak at the same time
  - Industries that lagged coming out of COVID leading now
- Results in manufacturing vary widely by region and industry
- ▶ A soft landing for the U.S. Economy does not necessarily mean a soft landing for manufacturing
  - All depends on the industry and location



# Recession Versus Soft Landing

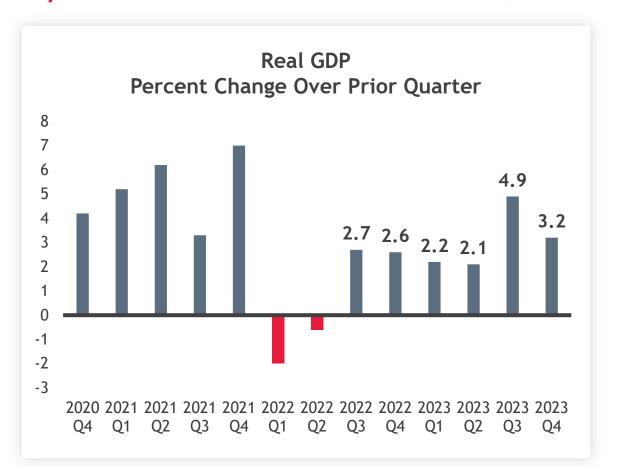
Illustrating Mixed Signals in U.S. Economy

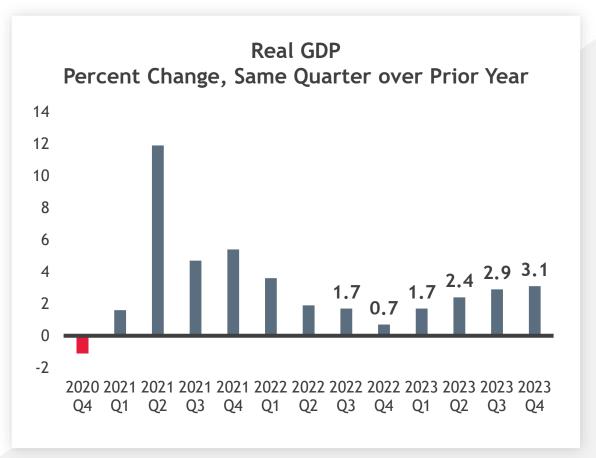




#### REAL GDP UPDATE

# 4th Quarter 2023 Up 3.2% over 3rd Quarter 2023 Up 3.1% 2023 Q4 over 2022 Q4

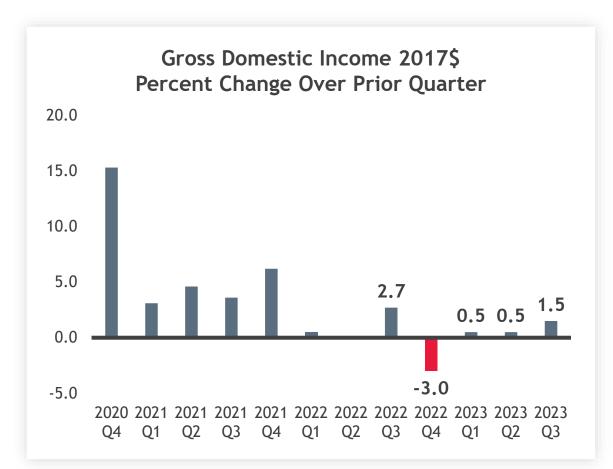


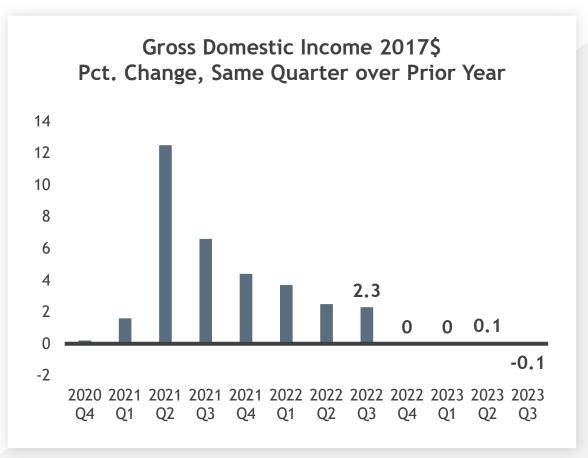


Source: U.S. Bureau of Economic Analysis, Release Date: December 21, 2023

#### REAL DOMESTIC INCOME MEASURES NOT AS STRONG

#### 3rd Quarter 2023 Up 1.5% over 2nd Quarter 2023





Source: U.S. Bureau of Economic Analysis, Release Date: December 21, 2023

#### **NBER Recession Definition**

#### A Recession is Whatever the NBER Business Cycle Committee Says It Is

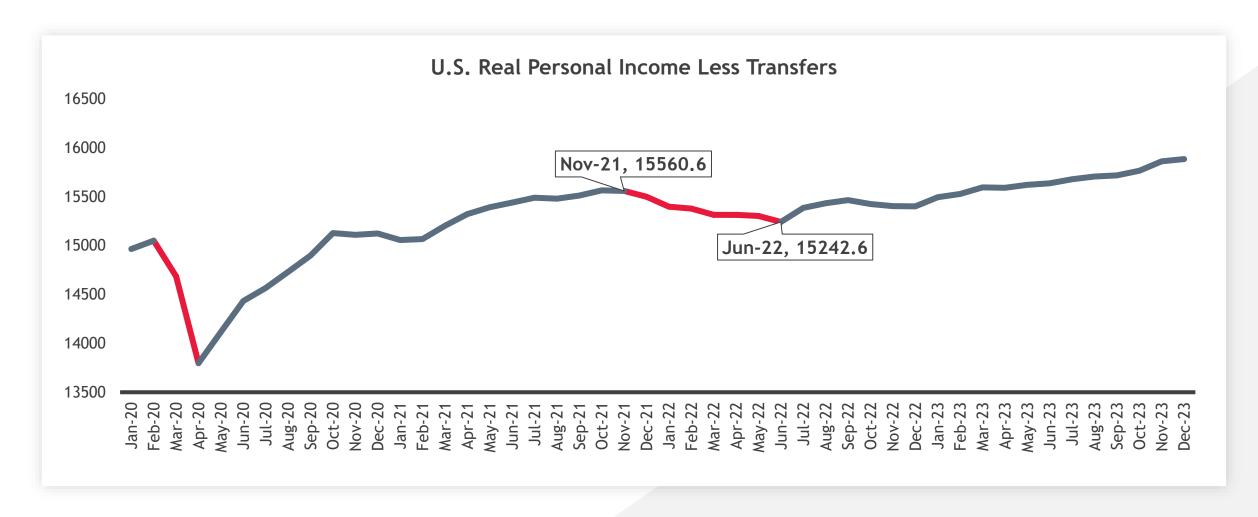
#### A RECESSION REQUIRES

- Depth—Significant decline in economic activity
- ▶ **Diffusion**—Affecting multiple sectors
- ▶ **Duration**—Lasting more than a few months

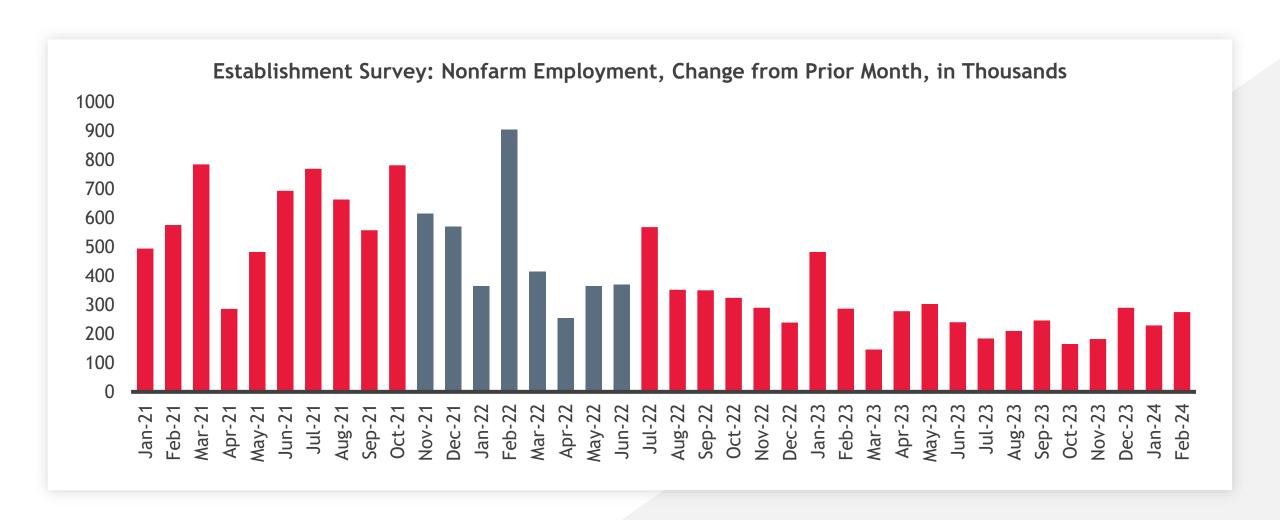
#### PRINCIPAL INDICATORS

- Real personal income less transfers
- ► Nonfarm payroll employment
- Employment as measured by the household survey
- Real personal consumption expenditures
- Wholesale-retail sales adjusted for price changes
- ► Industrial production

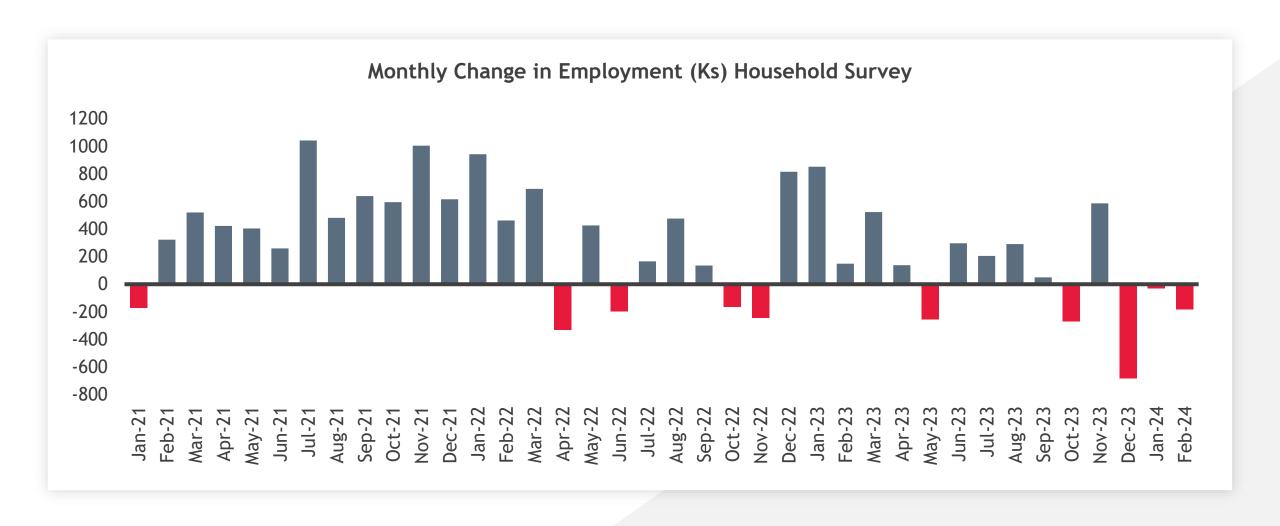
# Real Incomes Declined From Nov. 2021 to June 2022 Fully Recovered by April 2023



## Nonfarm Payrolls Slowing Down but Not Declining

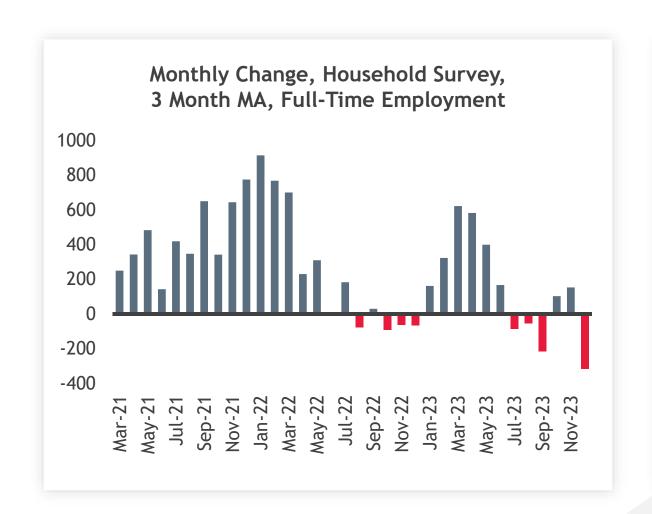


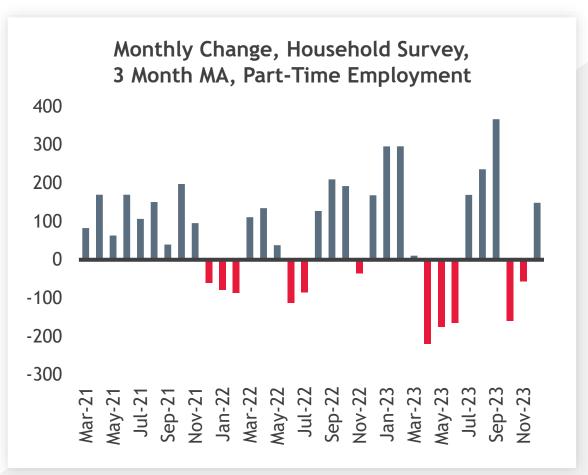
#### Household Survey of Employment Not as Robust



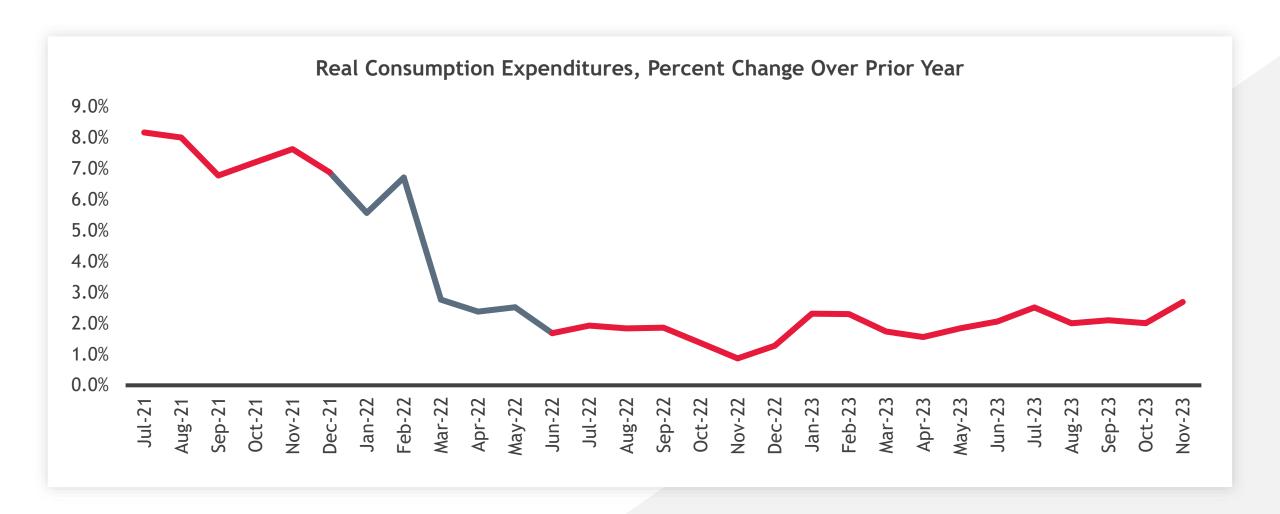
#### BREAKING DOWN THE HOUSEHOLD SURVEY

### Full-Time Employment Down Past Six Months

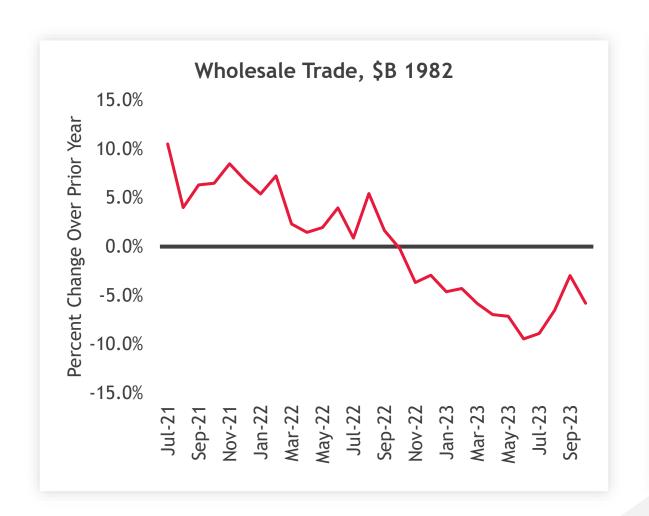


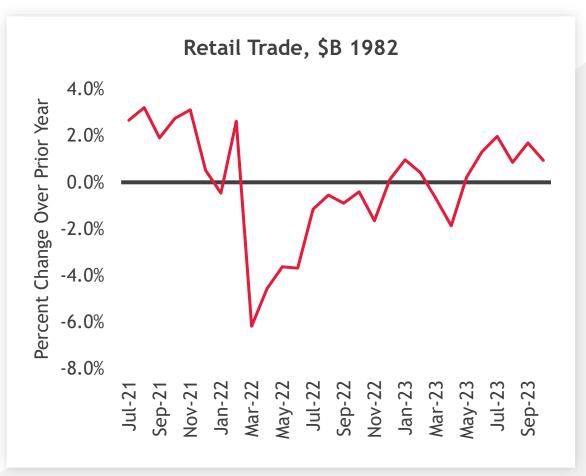


#### Real Consumption Expenditures

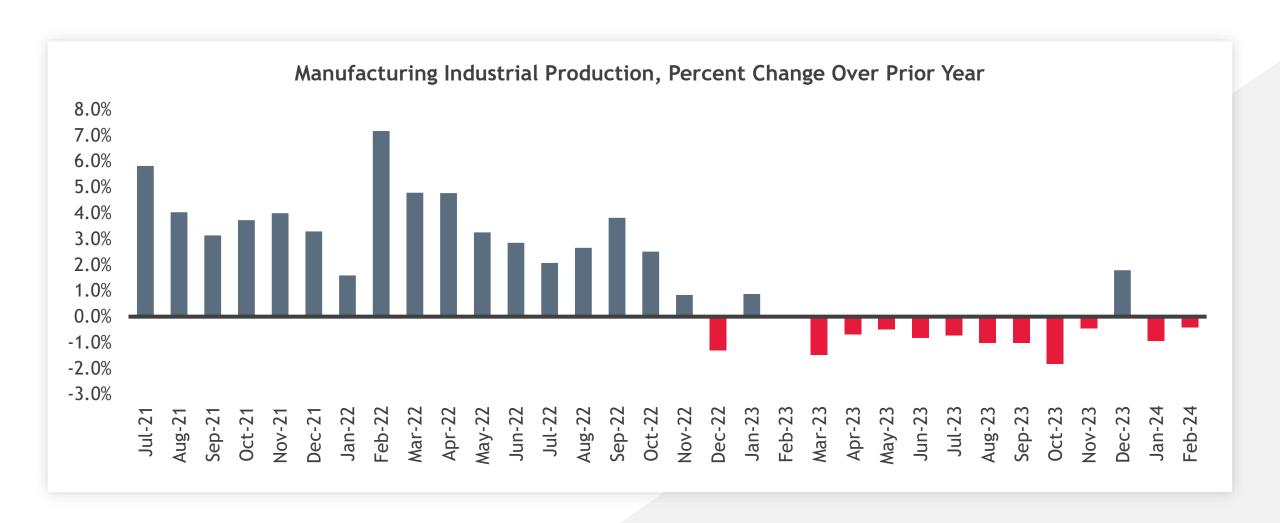


### Wholesale and Retail Trade Adjusted for Inflation

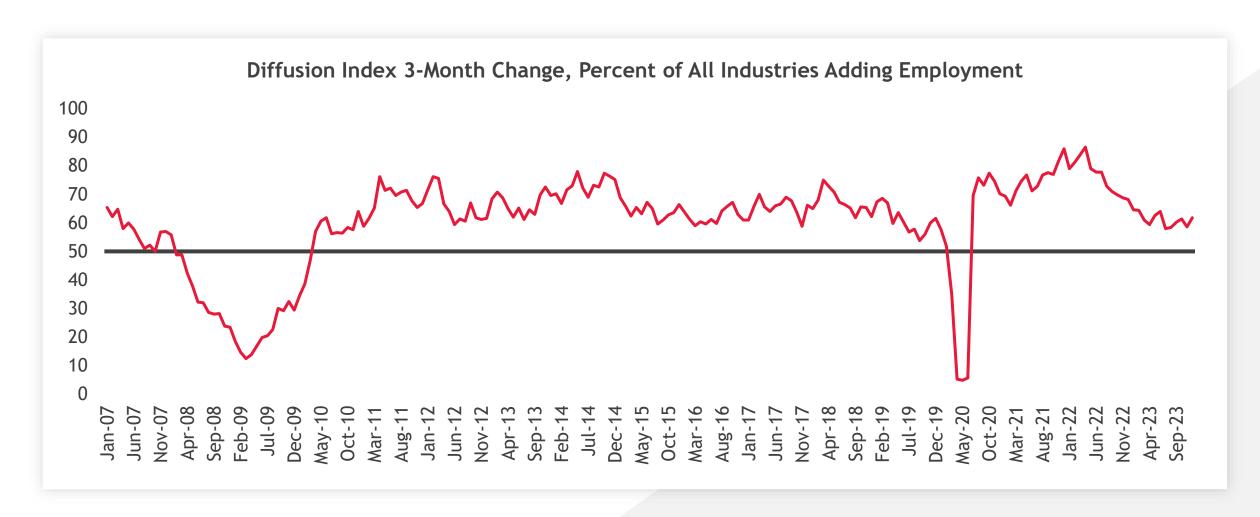




#### Manufacturing Industrial Production Below 2022 Levels



# Measuring the Dispersion of Economic Activity Using BLS Diffusion Index



A Soft-Landing vs. Recession Scorecard

Measure	Recession	Soft Landing	Expansion
Pct. Change Over Prior Quarter	LT 0%	GT 0% LT 1.5%	GT 1.5%
Pct. Change Over Prior Quarter	LT 0%	GT 0% LT 1.5%	GT 1.5%
Monthly Change	LT 0	GT 0 LT 200K	GT 200K
Monthly Change	LT 0	GT 0 LT 200K	GT 200K
Percent of Labor Force	Over 4.5%	3.7% to 4.5%	LT 3.7%
Pct. Change Over Prior Quarter	LT 0%	0 to 2%	GT 2%
Pct. Change Over Prior Quarter	LT 0%	0 to 2%	GT 2%
Pct. Change 3-Month MA	LT 0%	0 to 1%	Over 1%
Pct. of Industries with Net Hires	LT 50%	GT 50% LT 60%	GT 60%
	Pct. Change Over Prior Quarter Pct. Change Over Prior Quarter Monthly Change Monthly Change Percent of Labor Force Pct. Change Over Prior Quarter Pct. Change Over Prior Quarter Pct. Change 3-Month MA	Pct. Change Over Prior Quarter Pct. Change Over Prior Quarter Monthly Change Monthly Change Percent of Labor Force Pct. Change Over Prior Quarter Pct. Change Over Prior Quarter Pct. Change 3-Month MA  LT 0%  LT 0%	Pct. Change Over Prior Quarter Pct. Change Over Prior Quarter Pct. Change Over Prior Quarter Monthly Change Percent of Labor Force Pct. Change Over Prior Quarter Pct. Change Over Prior Quarter Pct. Change Over Prior Quarter Pct. Change 3-Month MA  LT 0% GT 0% LT 1.5% GT 0% LT 1.5% GT 0 LT 200K GT 0 LT 2



# **U.S.** Manufacturing

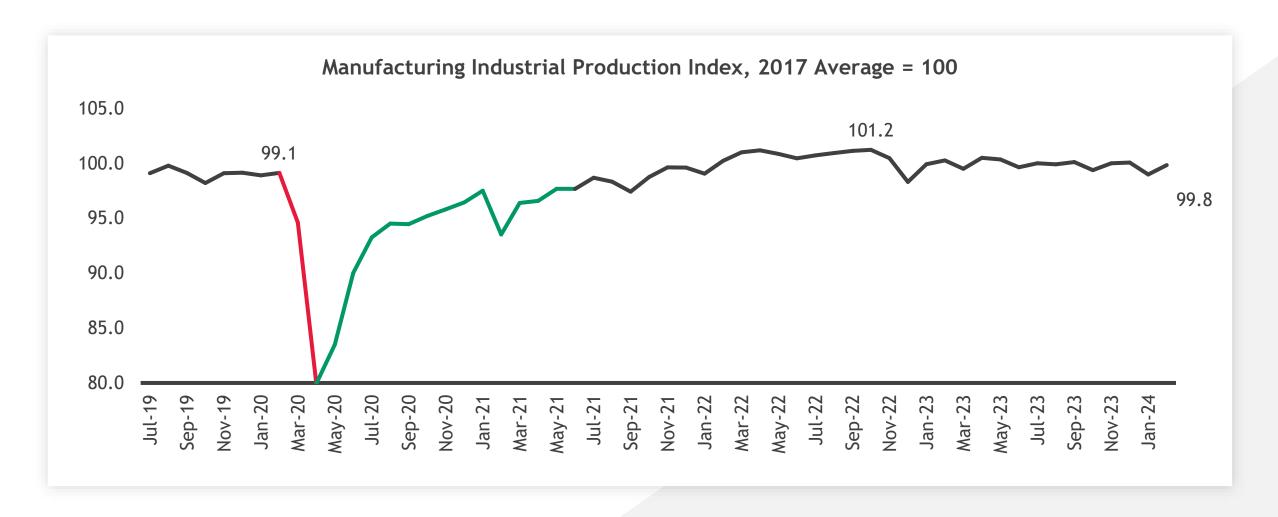
Poster Child for Mixed Signals





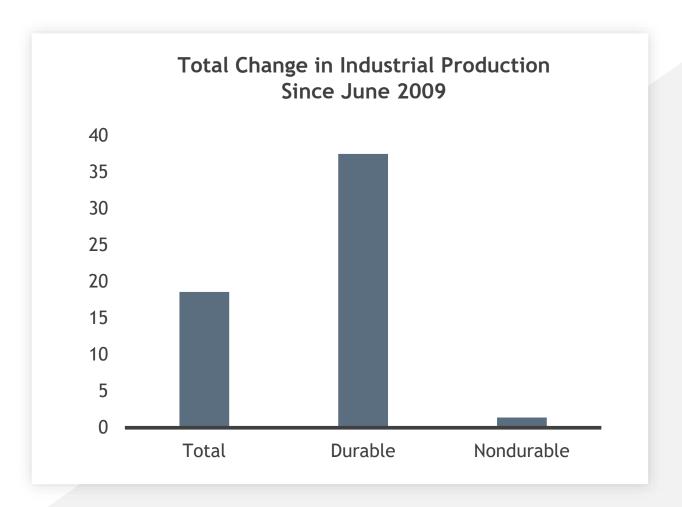
#### INDUSTRIAL PRODUCTION

### Manufacturing Production Down -0.4%, February 2024/February 2023



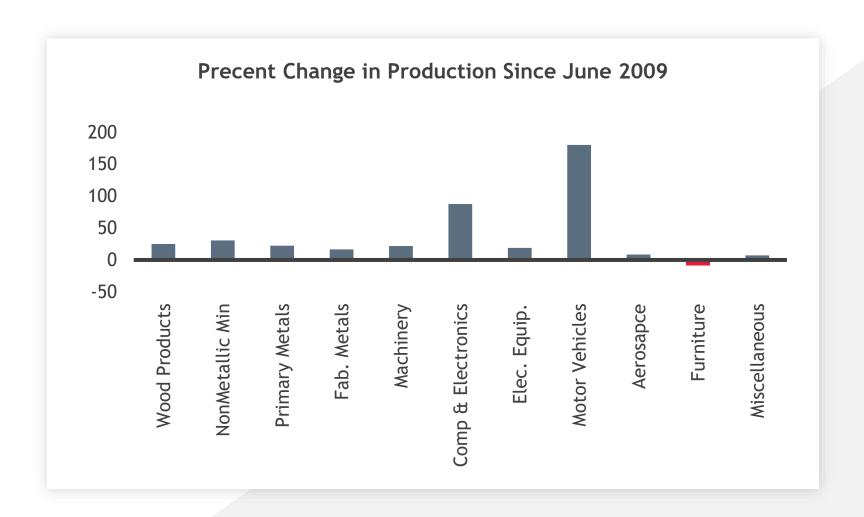
### Manufacturing Recovery Since the End of the Great Recession

- ► There are secular forces at work
- ► Since the end of the Great Recession, Manufacturing expansion centers on durable goods industries



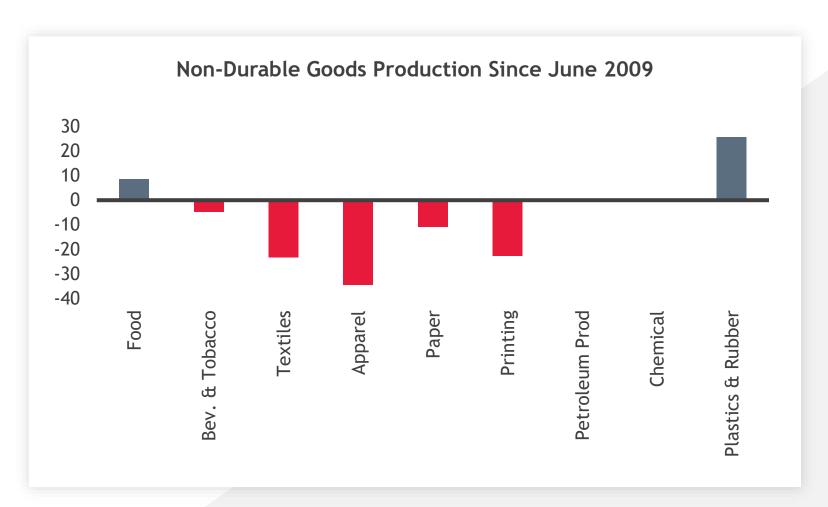
#### Durable Goods Industries Expanding Since the Great Recession

- ► The production gains in durable industries lead U.S. Industrial Recovery
- Principal gains in the continuing expansion of computers and electronics and revival of the auto industry

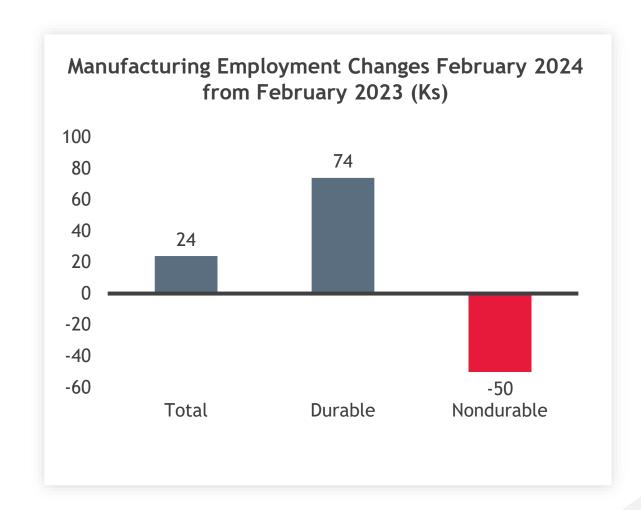


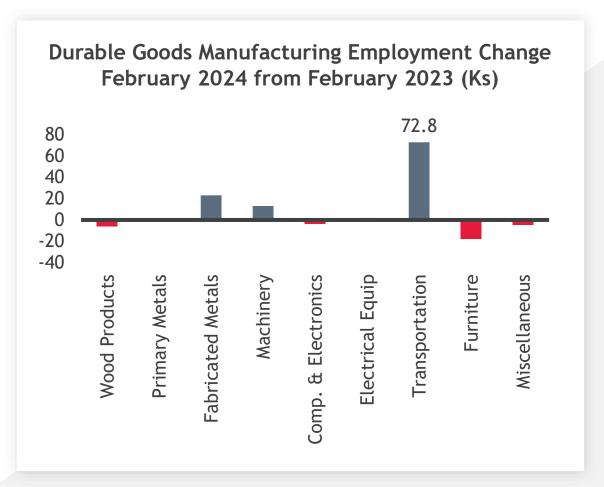
# Non-Durable Goods Industries Most Exposed to Open Trade and Secular IT Changes

- ► Two trends adversely affect non-durable industries
- Move to lower cost production countries
  - Textiles and Apparel
- Secular technological changes in consumption of information
  - Paper and Printing

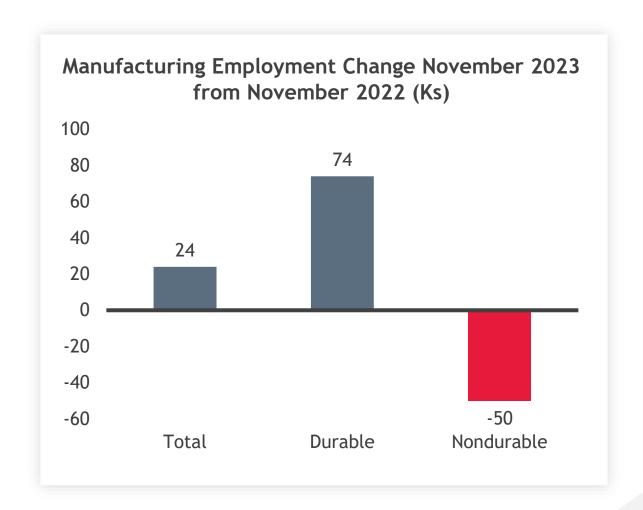


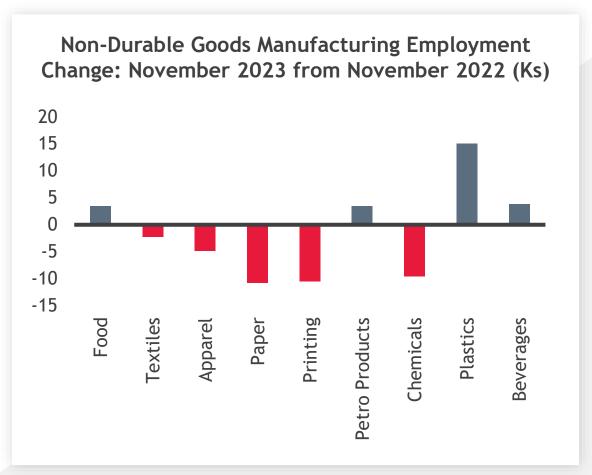
### Manufacturing Divide Carries Over to Employment





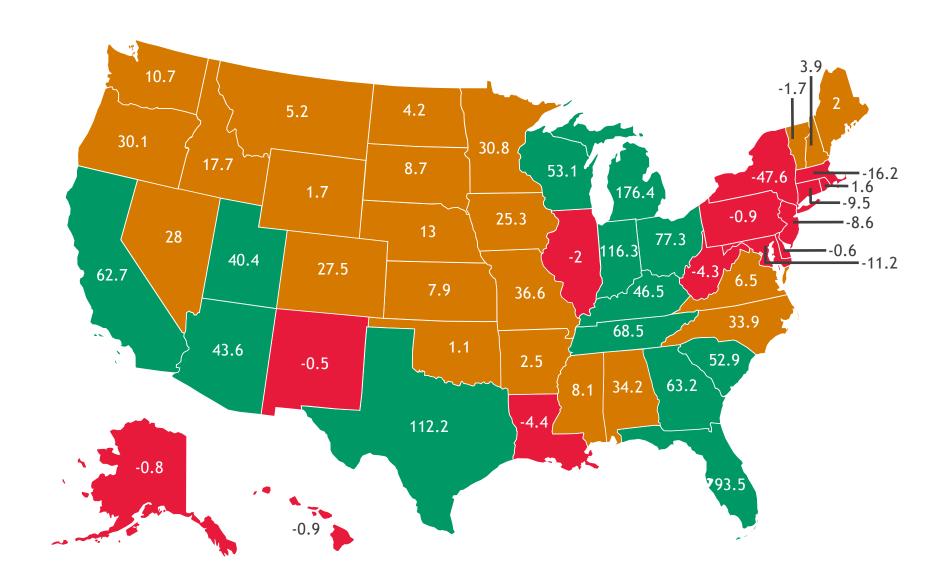
### Manufacturing Divide Carries Over to Employment





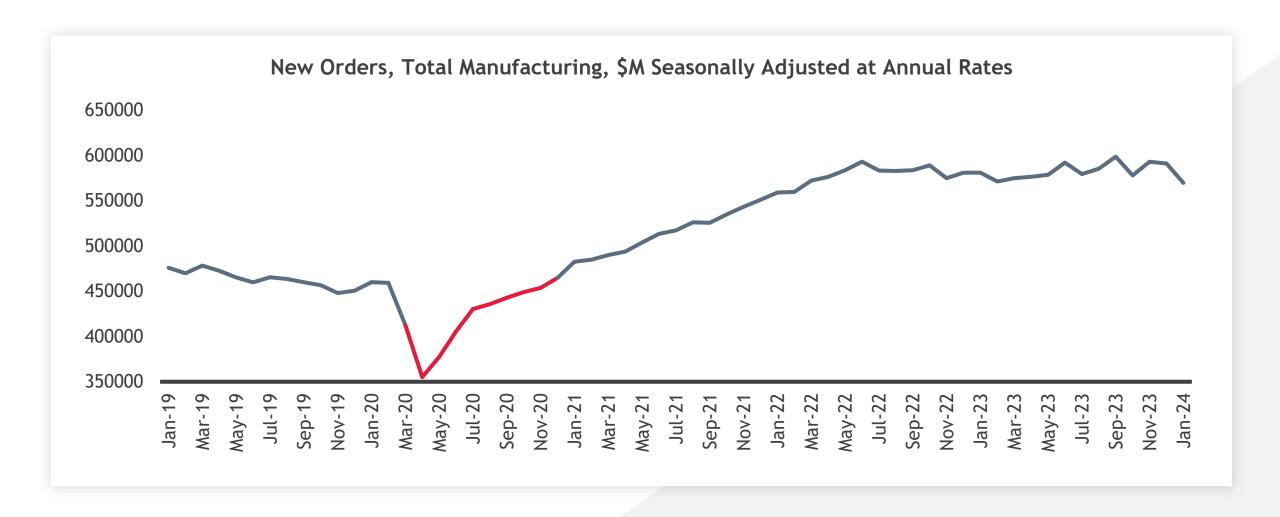
## Manufacturing Employment Gains Not Equally Shared Among States

Manufacturing Employment in Thousands Change from June 2009 to March 2023



### **Total Manufacturing Orders Sliding**

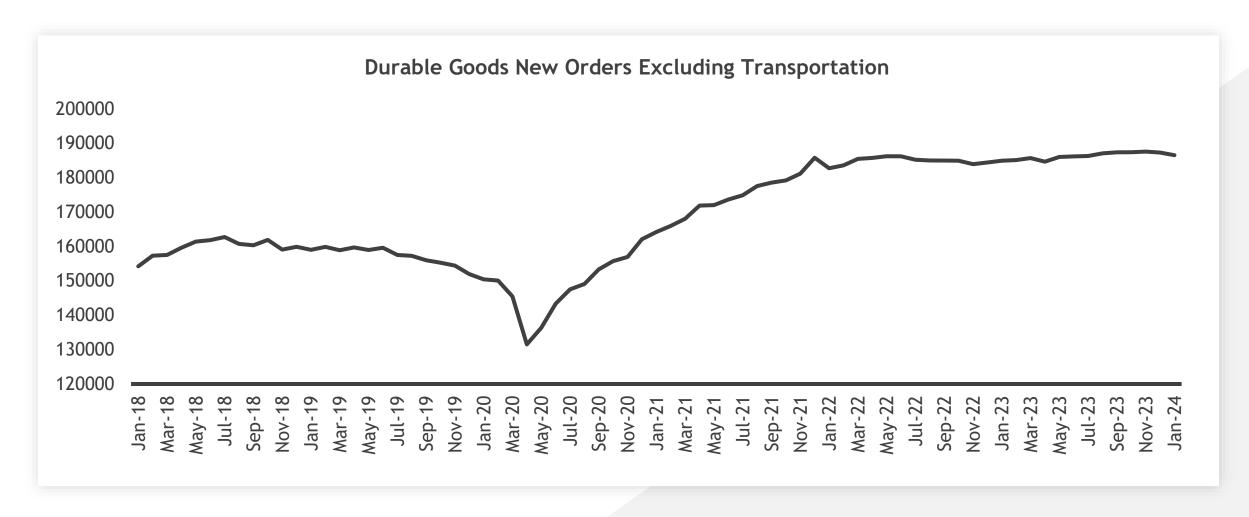
**DOWN 1.6% YTD** 



#### Durable Goods Orders Down 0.9%, January 2024 over January 2023

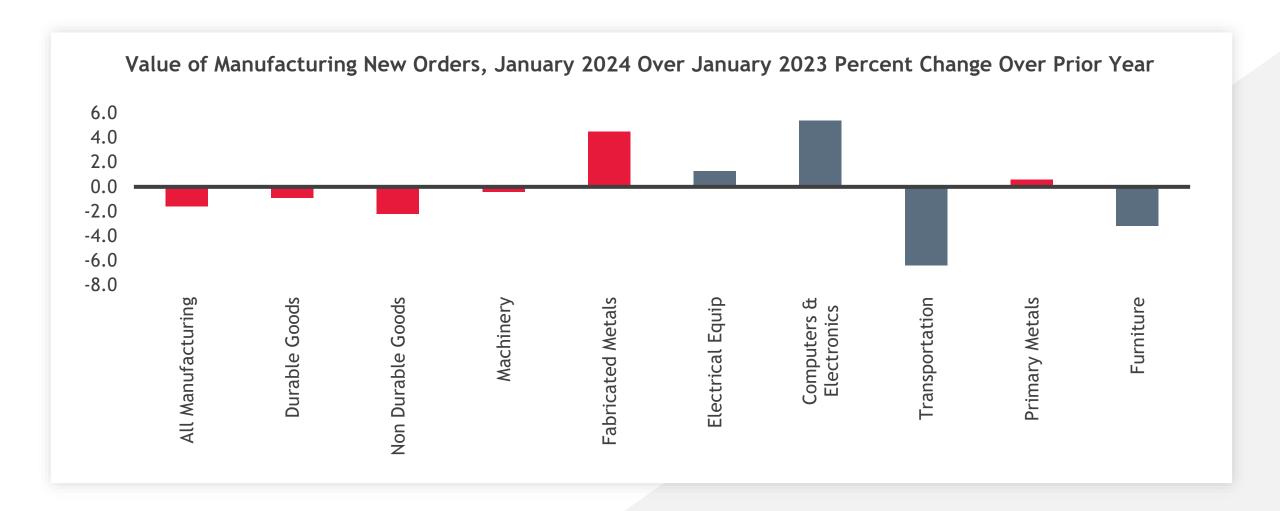


# Durable Goods Orders Excluding Transportation Up 1.6% January 2024 Over January 2023



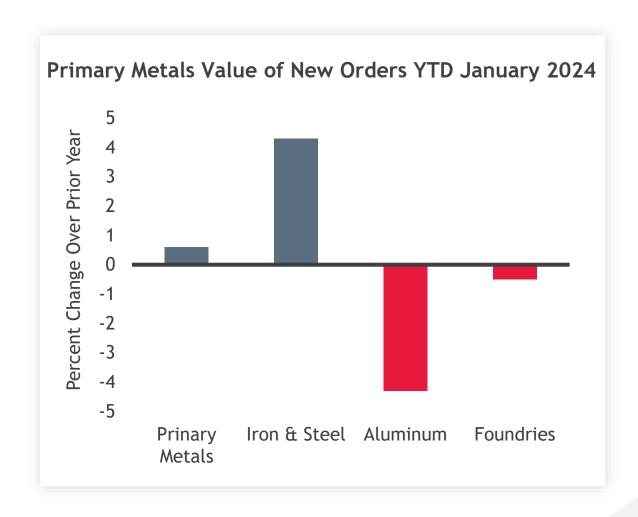
#### **NEW ORDERS**

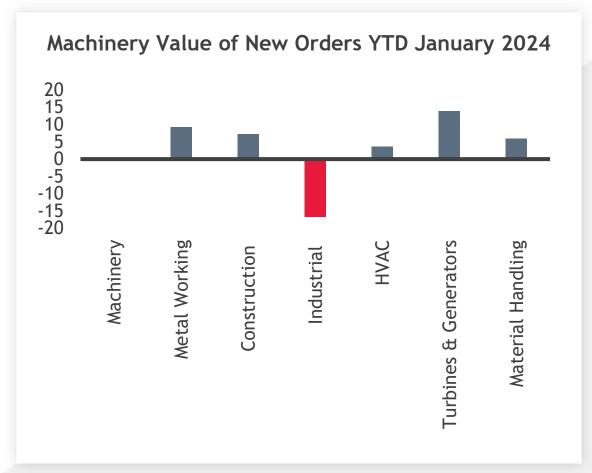
### **Durable Goods New Orders Weakening**



#### ONE SIZE DOES NOT FIT ALL

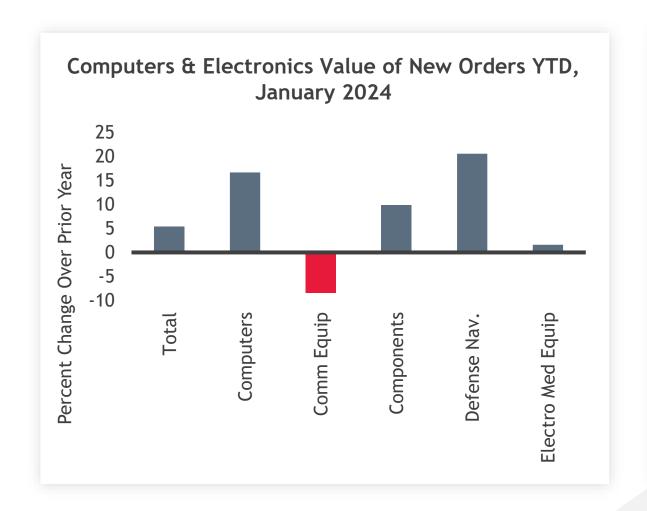
# Subsectors Experiencing Different Results

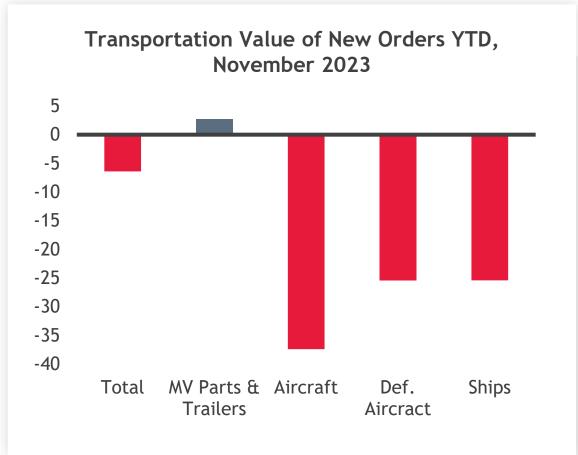




#### ONE SIZE DOES NOT FIT ALL

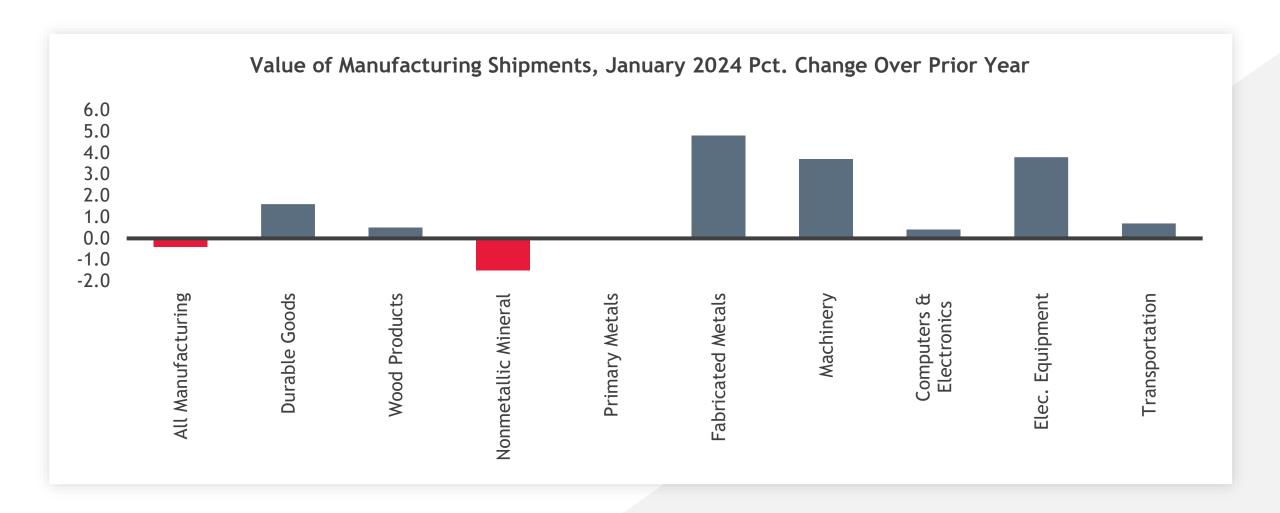
# Subsectors Experiencing Different Results





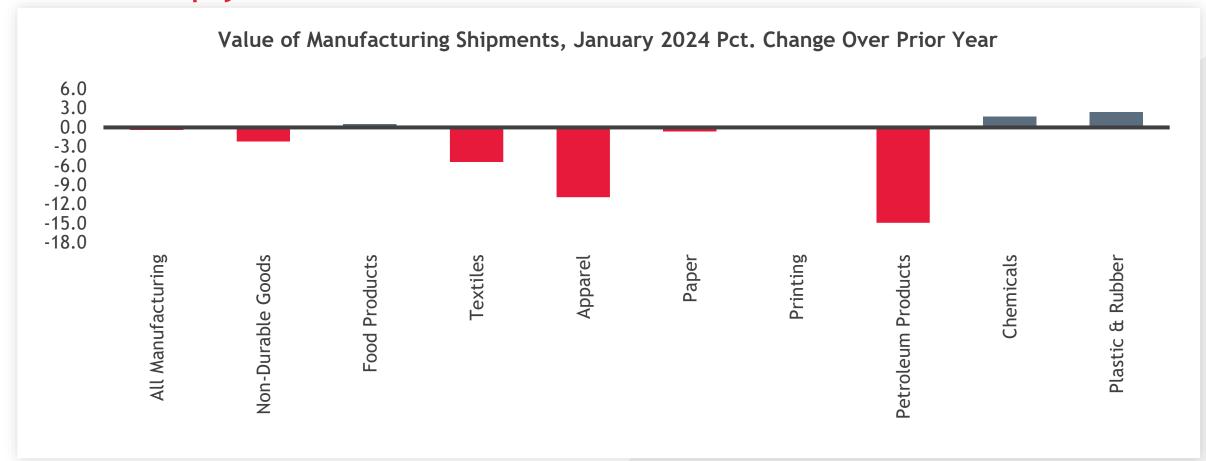
#### **SHIPMENTS**

# Durable Goods Shipments Up Over 2023



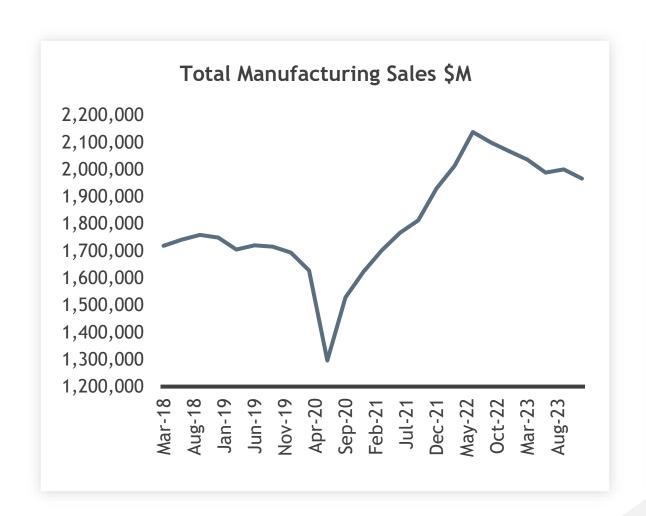
#### **SHIPMENTS**

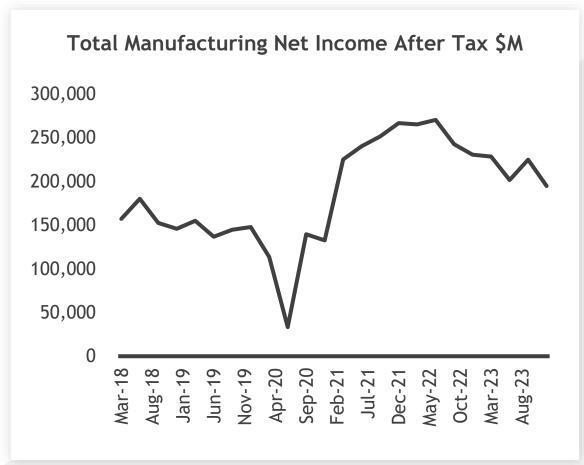
## Non-Durable Goods Shipments Declining Petroleum Products Down Sharply



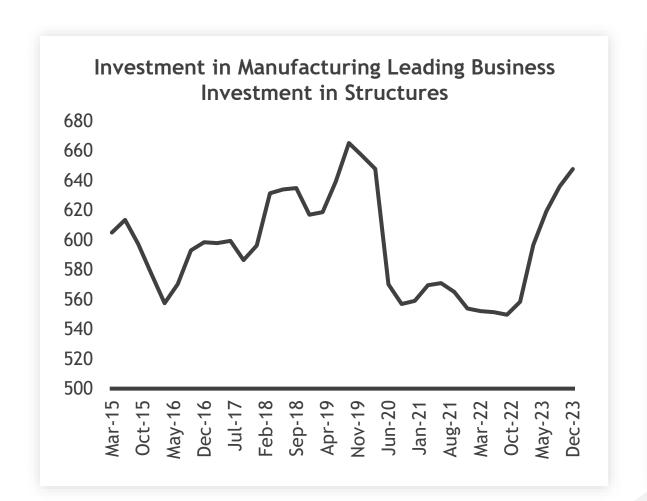
#### TOTAL MANUFACTURING SALES & NET INCOME

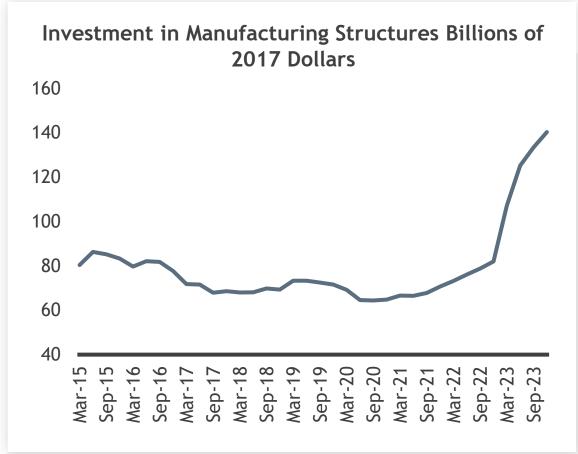
### Slow Slide From Record Highs, Ahead of Pre-Pandemic Levels



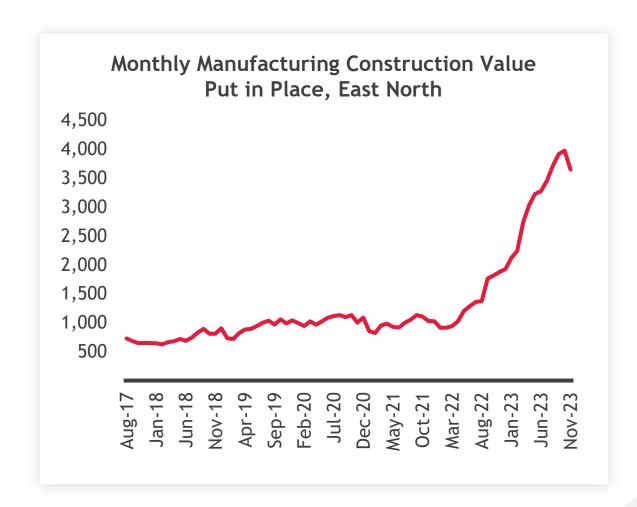


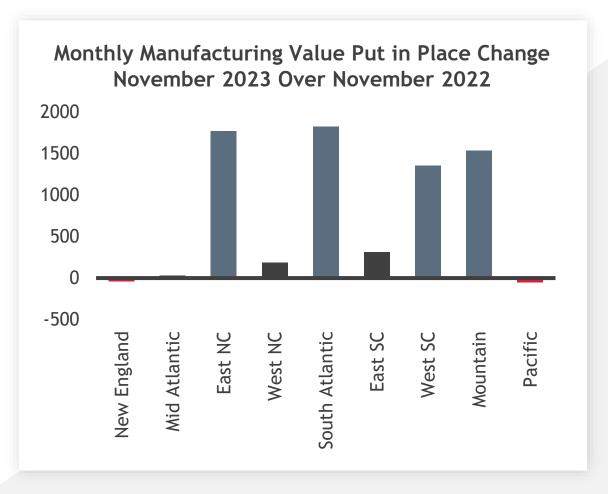
### Investment in Manufacturing Leading Business Investment in Structures





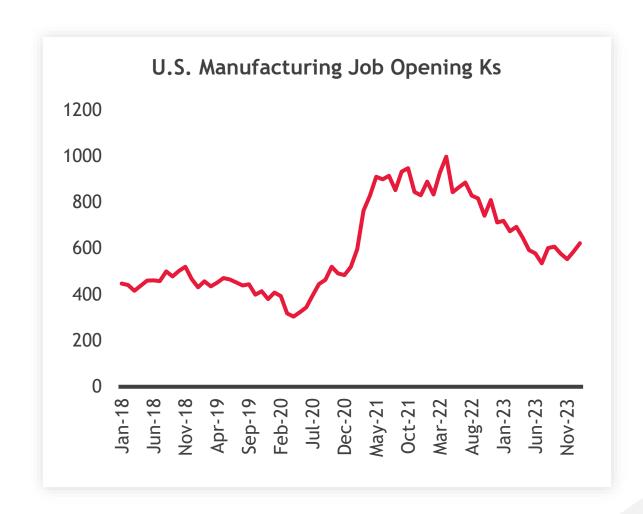
# Substantial Variance for Increase in Manufacturing Value Put in Place by Region





#### REBUILDING WORKFORCE

## Manufacturing Job Openings Decline as Hiring Increases



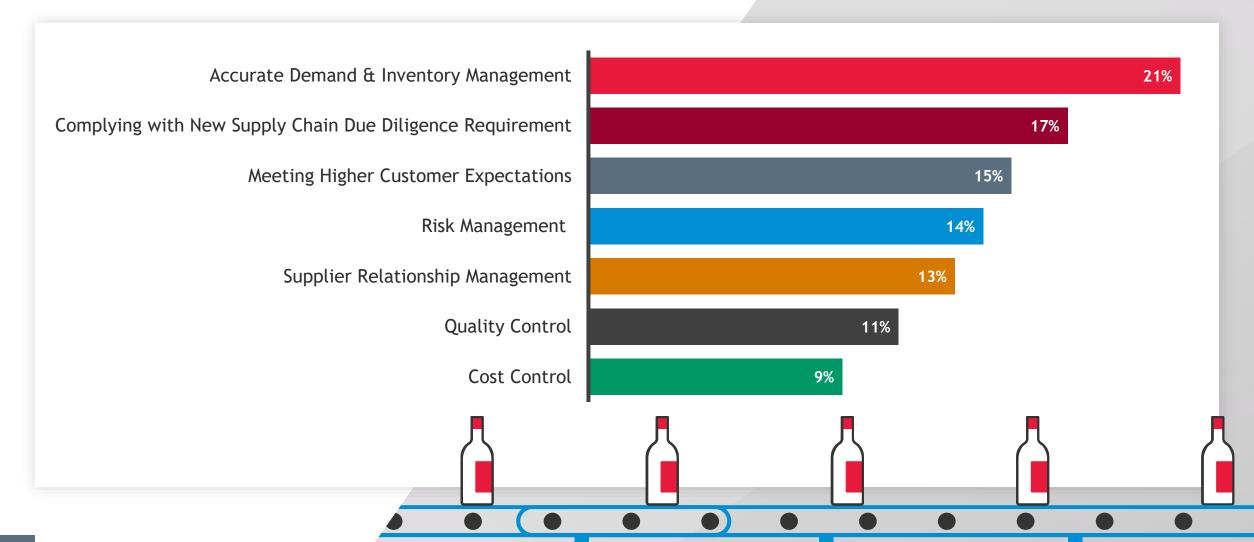


## **Evolving Supply Chains**





## Top Supply Chain Challenges for 2024



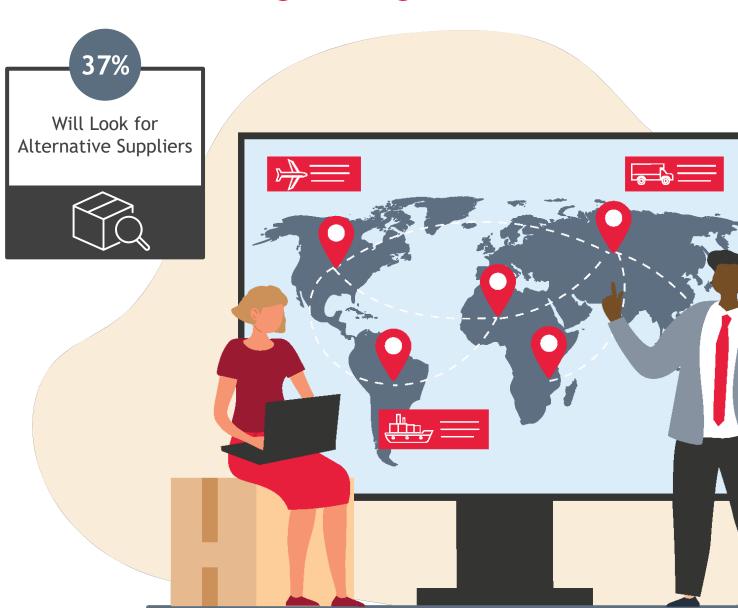
## Actions Planned in the Next 12 Months to Mitigate Higher COGS







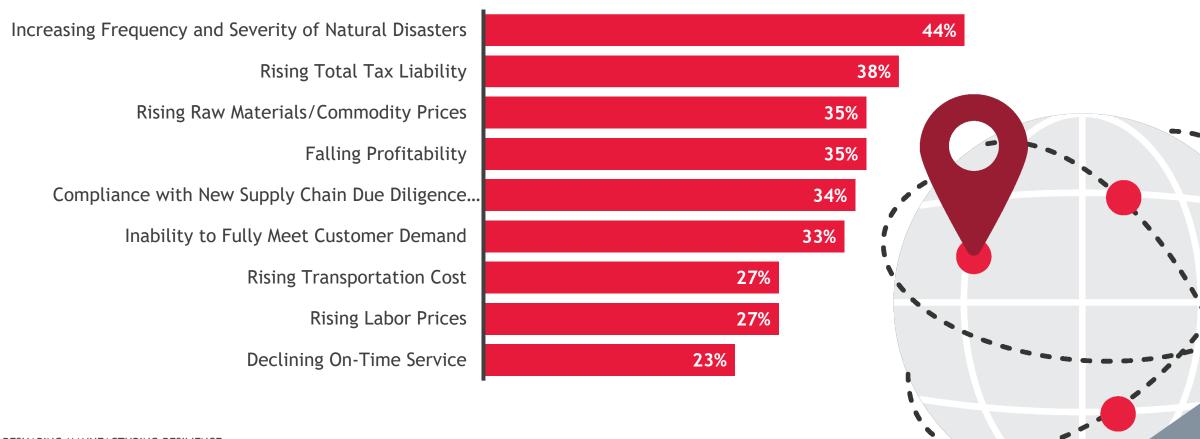




## Manufacturers Shifting Countries

- Supply chain management as a discipline is growing increasingly complex.
- ► To mitigate risks and improve profitability, manufacturers are shifting countries, but with those shifts come new challenges.

#### Motivations for Shifting Countries in 2024



## **Discussion**

**Evolving Supply Chains** 





## **Accelerating Innovation**





## 2024 Manufacturing Innovation

#### Investing in Analytics & Al

**47%** Will increase investment in Al

Will build a proprietary generative AI platform

Will increase investment in data analytics

#### **Greatest Opportunities for Al**



1. Compliance and Reporting



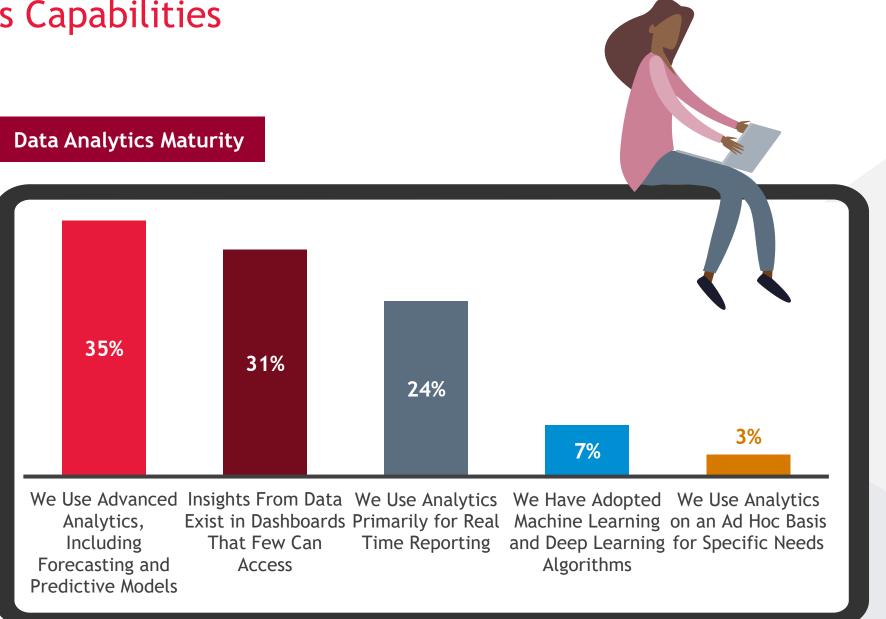
2. Safety



3. Customer Service

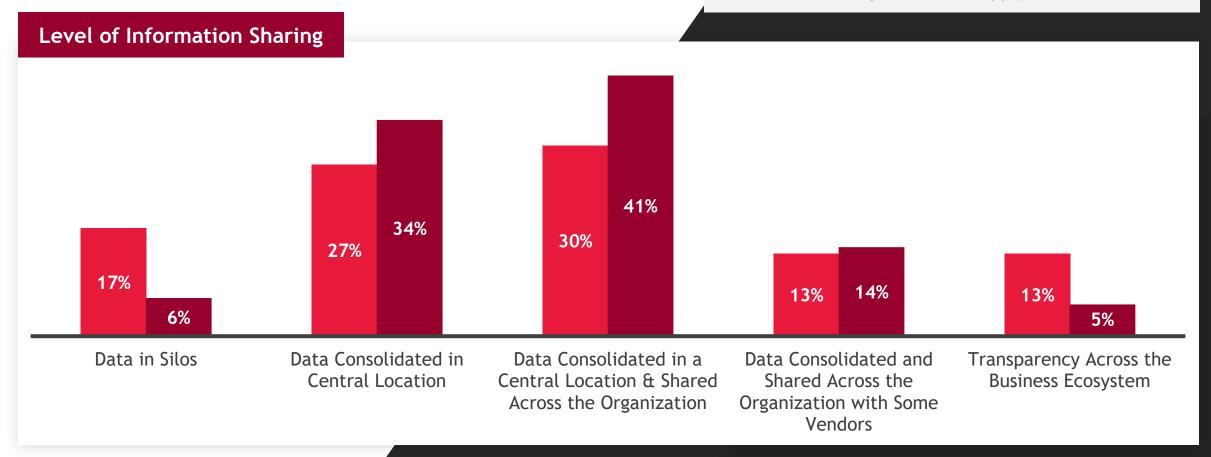
## 2024 Data Analytics Capabilities

Building the foundation for AI maturity begins by improving your ability to capture and process data from across the business.



## State of the Digital Thread

- ► The digital thread is a framework for end-to-end information transparency between manufacturers and their suppliers and vendors.
- It enables closer collaboration and enhanced decision-making across the supply chain.



## **Discussion**

Innovation





# Revitalizing U.S. Manufacturing

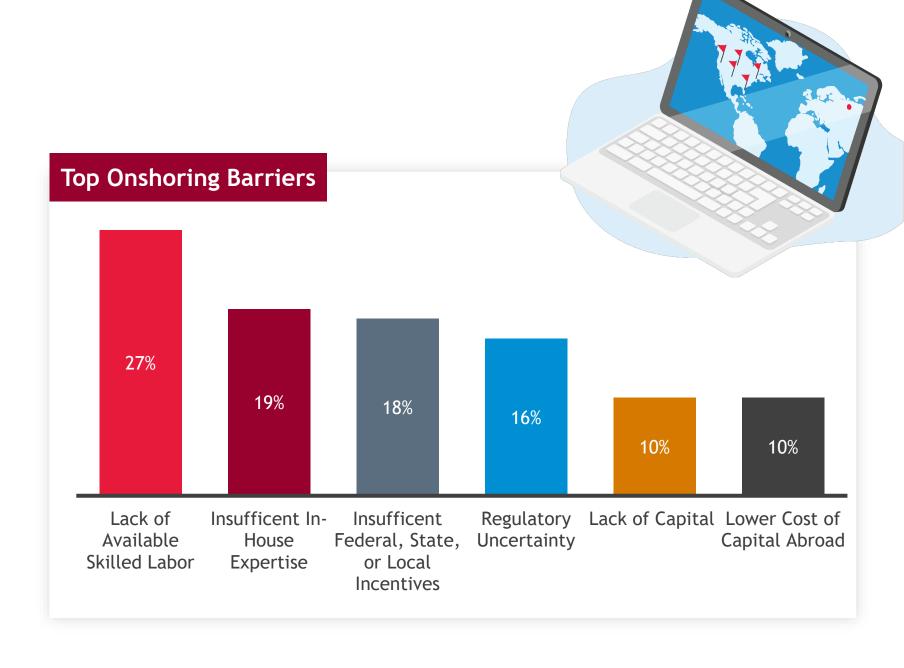




# State of U.S. Manufacturing

#### **Expansion Plans & Hurdles**

- ▶ 89% of manufacturers will expand U.S. capacity in 2024
- The labor shortage remains the top barrier to expansion
- Manufacturers need to build stronger workforce pipelines



## State of U.S. Manufacturing

#### Tax Credit Plans for 2024

Advanced Manufacturing Production Credit (45X)

Research & Development Tax Credit

Commercial Clean Vehicle Credit (45W)

State and Local-Specific Tax Credit

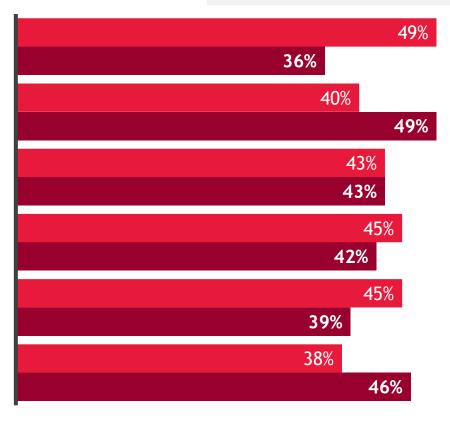
Qualifying Advanced Energy Product Credit (48C)

Work Opportunity Tax Credit

- Planning to claim/apply in next 12 months
- Already claimed/applied for in last 12 months

#### State of Manufacturing Tax Credits

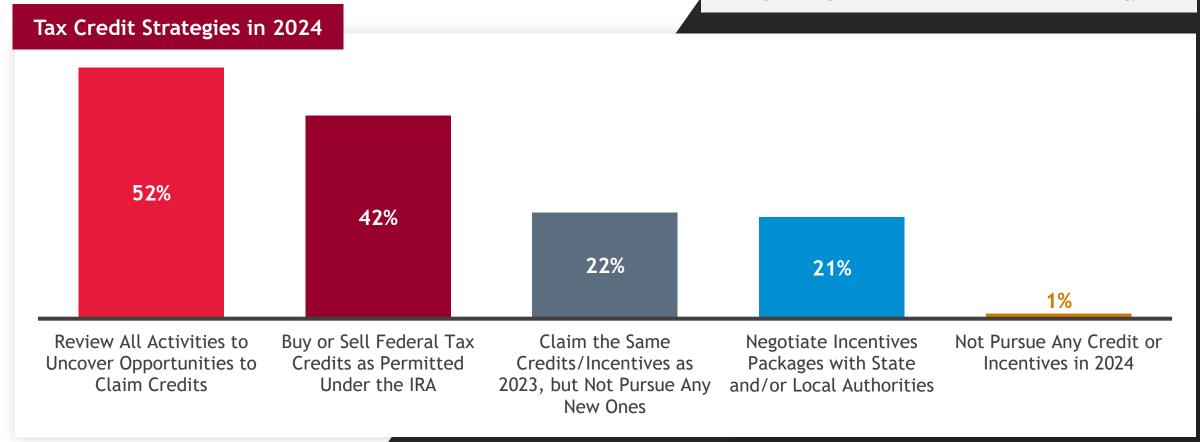
- ► Tax credits and incentives introduced by the Inflation Reduction Act (IRA) and CHIPS For America Act will play a key role in manufacturing expansion
- We expect more companies to consider onshoring in 2024





# Tax Strategies to Fuel U.S. Expansion

- Many manufacturers are not taking advantage of all the tax credit opportunities available to them
  - The credit monetization market, permitted via the IRA, will continue to grow in 2024
- Negotiating incentives is an overlooked strategy



## **Discussion**

Revitalizing U.S. Manufacturing





## Thank You!





