

# MANUFACTURING INFLECTION POINT

HOW TO SUCCESSFULLY NAVIGATE THE NEXT INDUSTRIAL TRANSFORMATION



## **WELCOME! INTRODUCTIONS**





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## **AGENDA**

<u>UHU</u>

8:00AM

Registration, breakfast, and networking

8:30AM

Industry insight: An industrial inflection point? What sectors are positioned for revolutionary growth in the next industrial transformation?

Howard S. Foote, Partner, UHY LLP

Thomas Alongi, National Manufacturing Partner, UHY LLP

8:45AM

Economic outlook: Will the election or geopolitical issues have a boom or bust impact on the U.S. economy? Hugh Johnson, Chairman and Chief Economist, Hugh Johnson Economics

9:15AM

Rise of Al: Do you have an Al strategy to unlock your organization's potential? Will you innovate or be left behind?

Cory McNeley, Managing Director, UHY Consulting

9:45AM

Refreshment Break

10:00AM

Measuring the pulse of manufacturing across the country: Are manufacturers prepared to succeed? Dr. Don P. Levy, Director, Siena College Research Institute

10:30AM

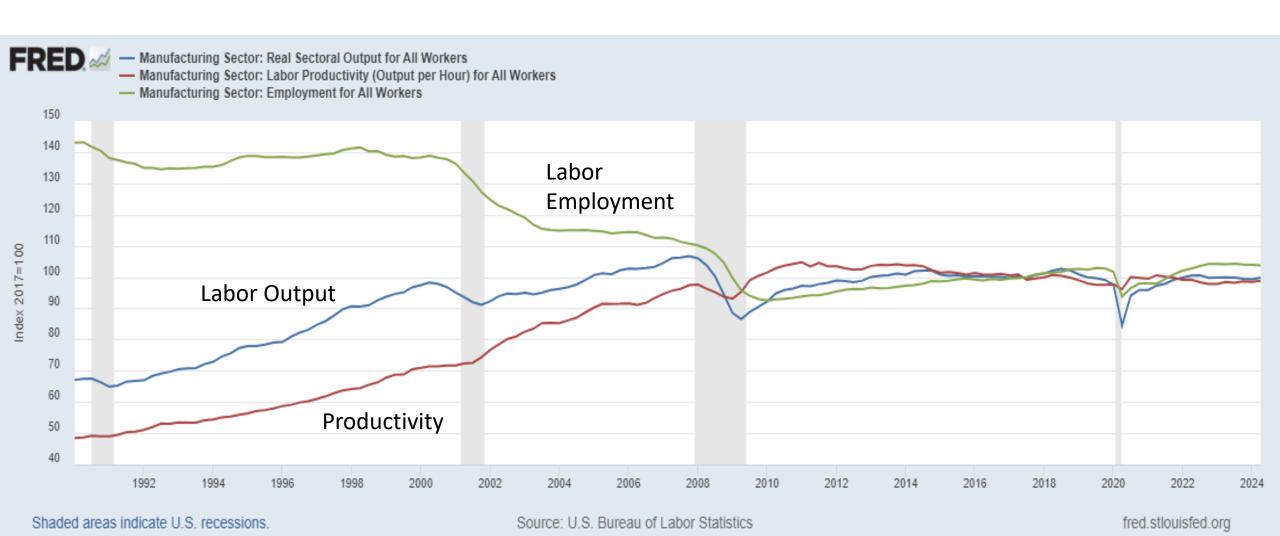
Panel discussion: How policy shift is creating opportunities and challenges for a strained manufacturing sector. Heather C. Mulligan, President and CEO, The Business Council of New York State, Inc.
Thomas Alongi, National Manufacturing Partner, UHY LLP



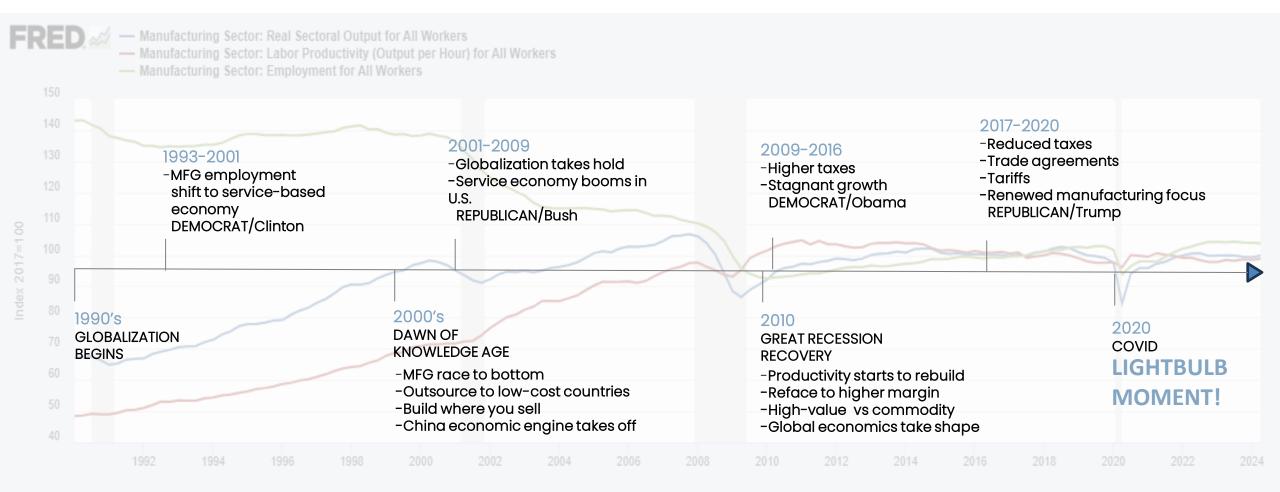
## WHAT'S BEEN SHAPING

## U.S. MANUFACTURING









## **HOLLOWING OUT OF**

## U.S. MANUFACTURING

"A robust and resilient supply chain must include a diverse and healthy ecosystem of suppliers. Therefore, we must rebuild our small and mediumsized business manufacturing base, which has borne the brunt of the hollowing out of U.S. manufacturing."

Buffalo, Detroit, Pittsburgh

**Source: 100-Day Review Under Executive Order 14017** 







## GOVERNMENT RESPONSE

## **Executive Order 14017 Key Sectors of Focus:**

- Semiconductors
- Advanced Batteries
- Critical Minerals & Materials
- · Pharmaceuticals & related

## **Governments Response**

- Chips Act \$40B
- IRA \$900B
- Infrastructure \$1.2T

## **Economic Impact**

- Construction Boom
- Employment Scarcity
- Inflation
- Return on inflation TBD

#### **Green Focus**

- Energy
- Battery
- Chips

## **NEXT INDUSTRIAL TRANSFORMATION**

## <u>UHY</u>

## **DISRUPTION**



GEOPOLITICAL TURMOIL



**CLIMATE CHANGE** 



LABOR FORCE



**BLACK SWAN EVENT** 



GLOBALIZATION AND/OR DECOUPLE



SUPPLY CHAIN BUILD OUT



TECHNOLOGY TAKEOVER



**POLITICAL CHAOS** 

## **POINT**



## Can U.S. Manufacturers Meet The Demand?





**Risks** 

Capital to Scale

**Skilled Management Teams** 

Skilled Labor







Commodity Shortage



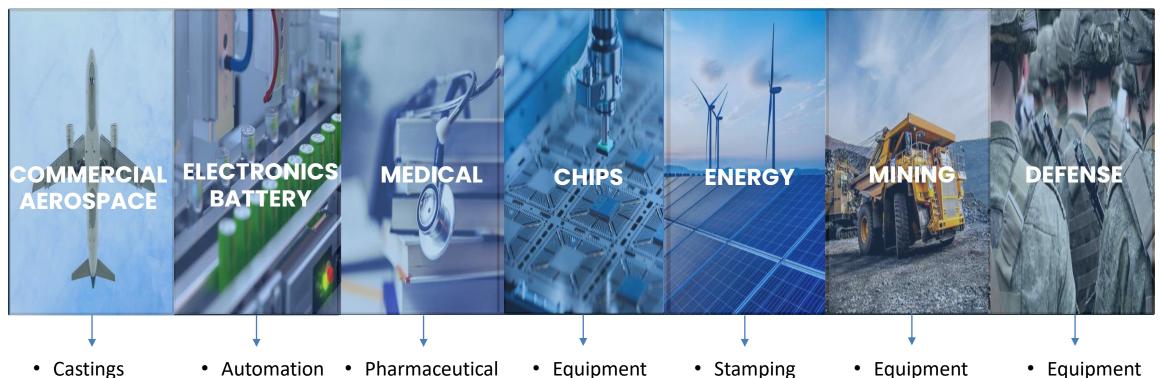
**Technology Push Down** 

**Disruption = Risk + Opportunity** 

## **INFLECTION**

## **POINT**

## **Manufacturing Sectors**



- Castings
- Machine parts
- Tooling
- Prototype

- Automation
- Equipment
- Stamping
- Pharmaceutical
- Medical devices
- National security products
- Equipment
- Automation
- AI/Software
- Stamping
- Automation
- Silicon wafers
- Equipment
- Logistics
- Fabrication Machining
- Everything!



## **POINT**

## Strategies to compete in the industrial transformation

- 1. Foster a culture of continuous cost improvement
- 2. Develop a strategy to position to new market/product opportunities
- 3. Build an operational strategy to be a leader in a HMLV environment
- 4. Reinvest! Reinvest! Develop a labor and tech strategy to build scale
- 5. Align with capital resources to grow: Recap/JV's, acquisitions/P.E./V.C.

## **Manufacturing Practice**

UHY is one of the nation's largest professional services firms providing audit, tax, consulting and advisory services to clients primarily in the dynamic middle market.

#### **TOP 10**

Fastest growing firm

125%

5 year growth model

10,000+

Loyal middle market clients



#### WE KNOW MANUFACTURING

UHY combines the strength of business and financial expertise with a hands-on, 'shop floor' approach to solve your complex business issues

#### LARGEST

Client group in firm

3000+

Manufacturing clients

1000+

Global manufacturing clients

AEROSPACE DEFENSE



AUTOMOTIVE



CONSUMER PRODUCTS



INDUSTRIAL



#### **OUR MISSION**

Provide clients with a 360degree view of their business while delivering

Next Level Service





#### GROW

Setting your growth strategy identifying new markets, revenue streams, and opportunities



#### MANAGE

Managing your business with consistent processes and resources to deliver consistent results



#### **TRANSFORM**

Focusing on improving business functions – people, process, and technology

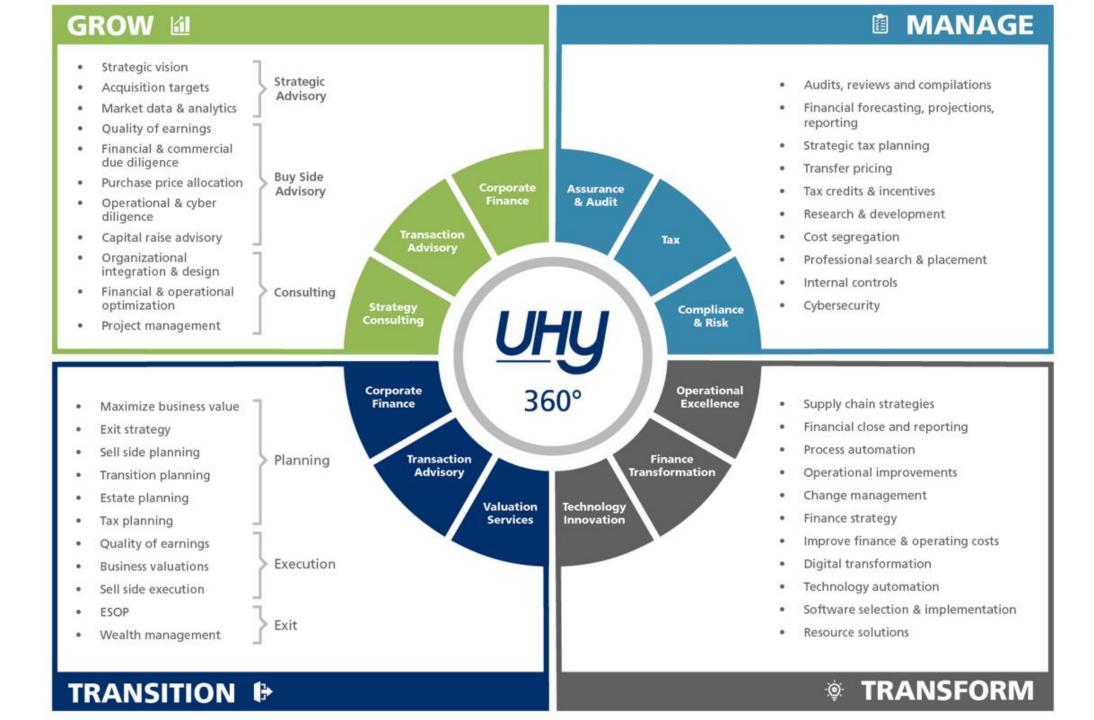


#### **TRANSITION**

Properly planning your exit to maximize value and create generational opportunity

WHERE ARE YOU ON YOUR JOURNEY?







# Economic Outlook: Will the election or geopolitical issues have a boom or bust impact on the U.S. economy?



Hugh Johnson
Chairman and Chief Economist
Hugh Johnson Economics

## **Economic outlook:**

Will the election or geopolitical issues have a boom or bust impact on the U.S. economy?



## **A Touch of Perspective**

- •Since 1890: 25 Bull Markets and 24 Bear Markets
  - •Bull Markets: +142.2% over 47.5 months
  - •Bear Markets: -39.0% over 17.6 months
- Since 1890: 26 Stock Market Corrections
  - Corrections: -18.8% over 4.7 months
- •Current Bull Market (#25): +161.7% over 55 Months.

[One Correction: January 2022 to October 2022

**-22.4% over 9 Months]** 



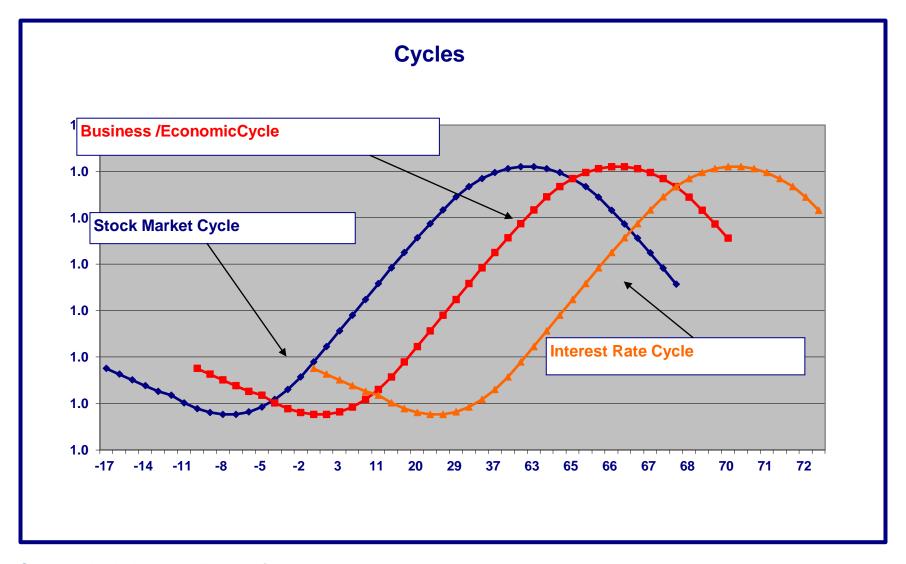
# What will be the outcome? HJ Economics Methodology

- Trends of the Financial Markets.
- Trends of Important Monetary and Economic Variables.

(To Determine if the Performance of the Financial Market Variables is Rational.)



## The Anatomy of a Cycle







## From Rational to Irrational

## The Kindleberger-Fischer-Minsky Model

- The Investment Stage
- The Stage of Speculation
- The Stage of Financial Distress
- The Stage of Revulsion



## From Rational to Irrational

"The circumstances that induce recurrent lapses into financial dementia have not changed in any truly operative fashion since the Tulip Mania of 1636-1637."

**Johns Kenneth Galbraith** 

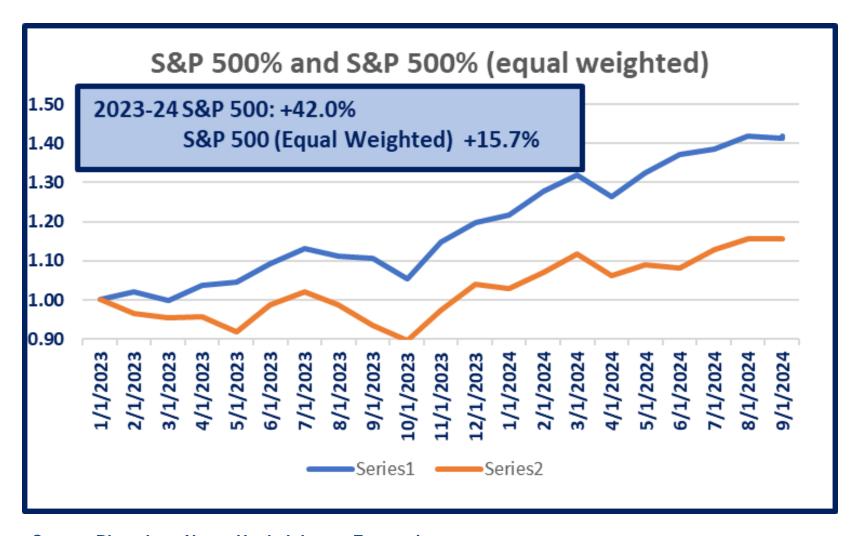


## The Defining Characteristics of "The Emotional Extreme" at the Top

Overvaluation
Optimism. Exuberance. Euphoria.
Leverage

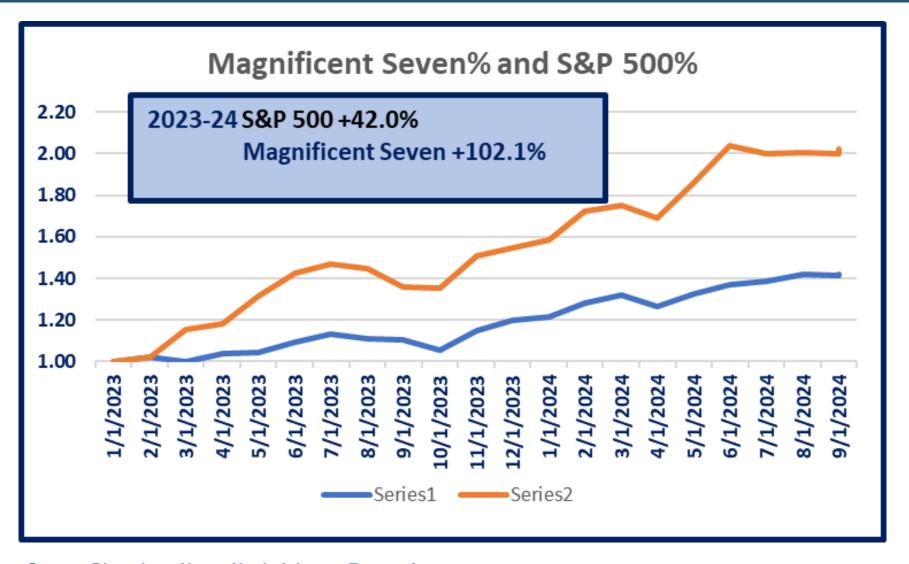


## **Rational or Irrational?**



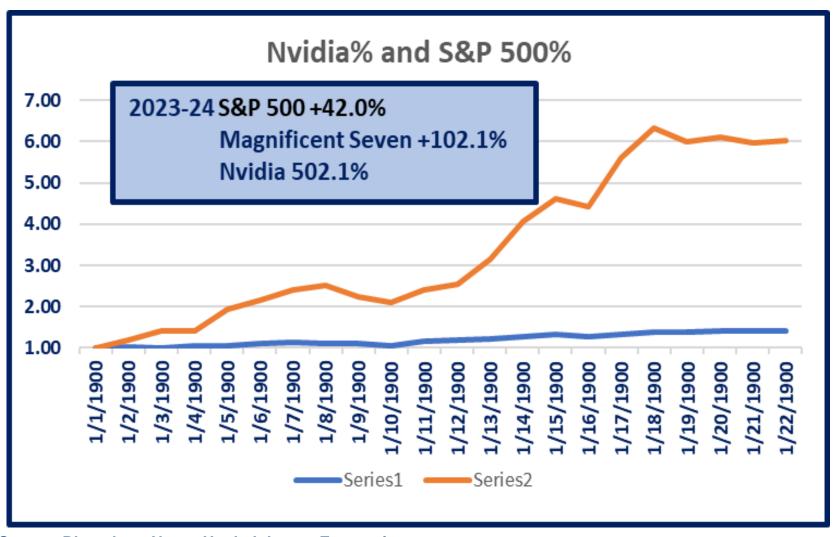


## **Rational or Irrational?**





## **Rational or Irrational?**



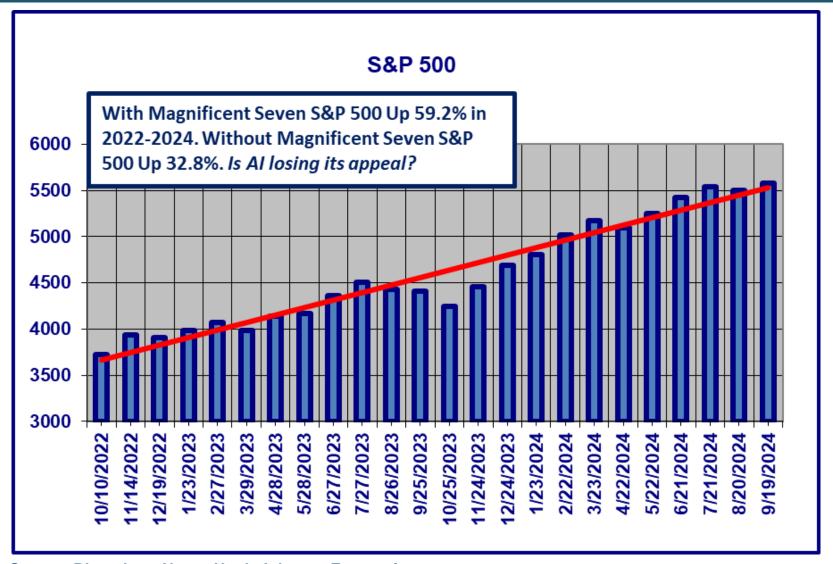




## **Financial Market Trends**



## October 2022-September 2024: S&P 500 +59.2%





## October 2022-September 2024: Bull Market Sectors Outperforming Bear Market Sectors

October 2022-September 2024	%
Technology	111.6%
Communications Services	91.5%
S&P 500	59.2%
Industrial	56.9%
Consumer Discretionary	48.7%
Financials	46.8%
Basic Materials	37.9%
Real Estate	32.1%
Utilities	28.2%
Consumer Staples	26.1%
Healthcare	25.3%
Energy	9.6%

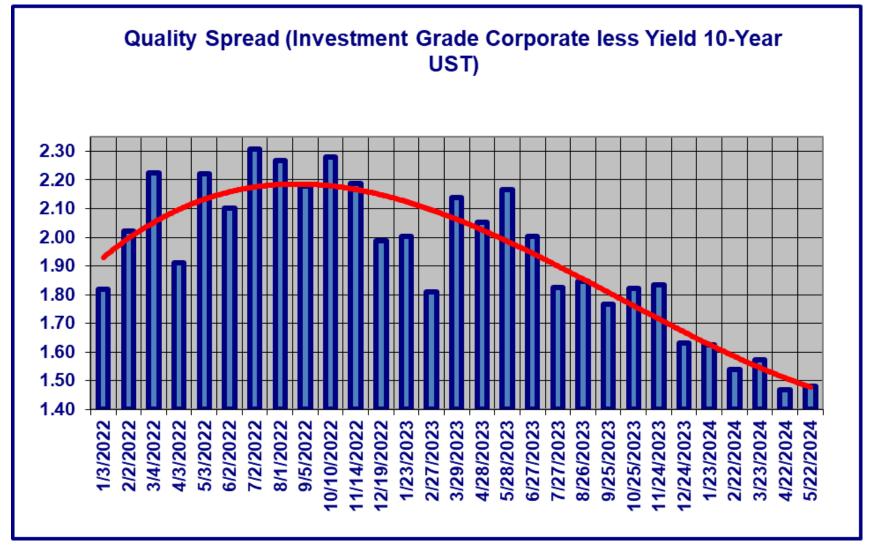


## **Growth Outperforming Value**





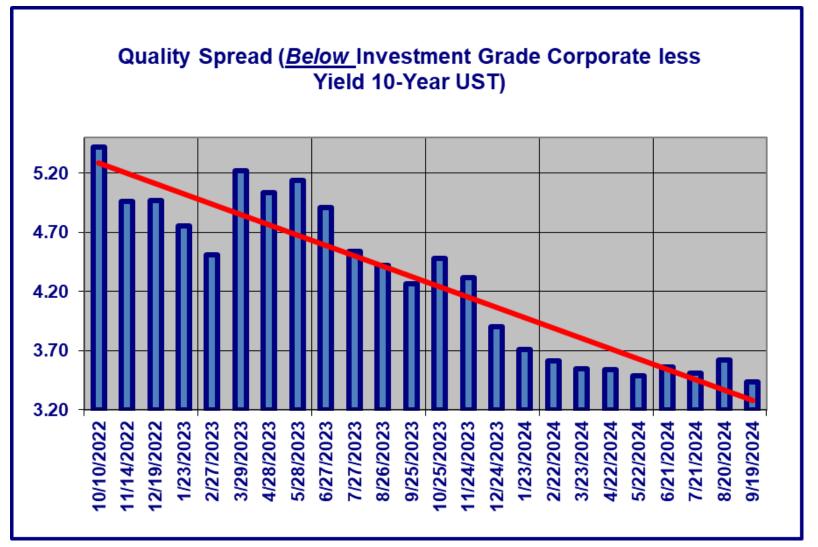
## **Investment Grade Quality Spreads Narrowing**





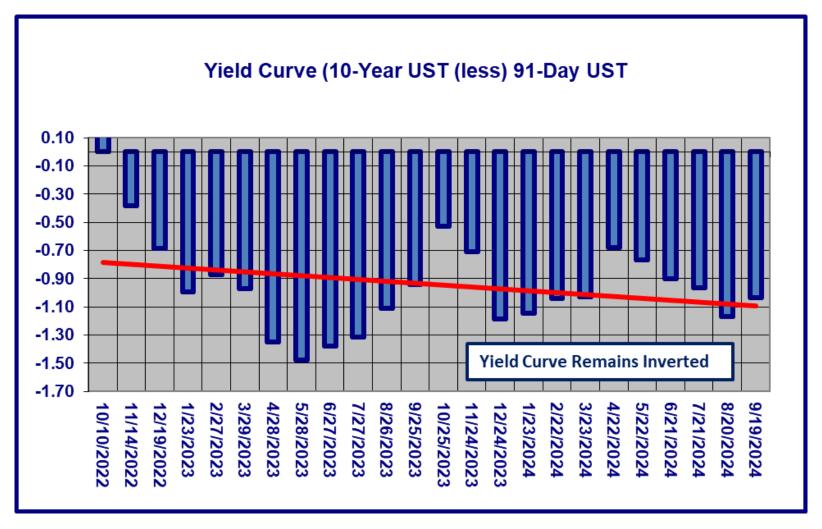


## Below Investment Grade Quality ("Junk") Spreads Narrowing





## The Yield Curve Remains Inverted



Since 1960 the yield curve has inverted 10 times. 9 have been accompanied by a hard landing or recession.



## The probability of a recession remains high

Month/Year	Probability of Recession
September-24	56.2%
October-24	46.1%
November-24	51.8%
December-24	62.9%
January-25	61.5%
February-25	58.3%
March-25	58.3%
April-25	50.0%
May-25	51.8%
June-25	55.8%
July-25	56.3%
August-25	61.8%

**Source: Federal Reserve Bank of New York** 

Since 1960 the yield curve has inverted 10 times. 8 have been accompanied by a hard landing or recession. The probability is high and increasing.



## **Are the Financial Market Trends Rational?**



#### **Excessive: But What Choice Did We Have?**

#### **Monetary Policy**

The Federal Reserve *increased* its holdings of financial assets by \$4.5 trillion. (2020-2021)

#### **Fiscal Policy**

The Federal Government *increased* its spending by \$2.1 trillion. (2020-2021)

#### **Money Supply**

M2 *increased* by \$6.2 trillion (2020-2021).

Consumer spending *increased* \$1.6 trillion. (2020-2021)

Consumer Price Index increased 1.2% (2020), 4.7% (2021) and 8.0% (2022).



#### **Excessive: But What Choice Do We Have?**

#### **Monetary Policy**

The Federal Reserve *reduced* its holdings of financial assets by \$2.1 trillion. (2022-2023)

#### **Fiscal Policy**

The Federal Government *reduced* spending by \$1.1 trillion. (2022-2023)

#### **Money Supply**

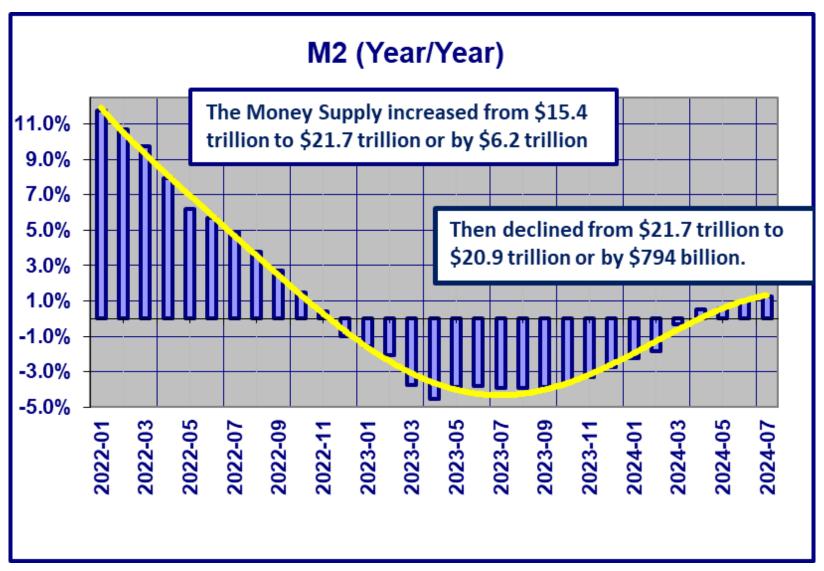
M2 declined by \$794.3 billion. (2022-2023)

Consumer spending *increased* \$2.6 trillion. (2022-2023)

Consumer Price Index Increased +4.7% (2021), +8.0% (2022), and 4.3% (2023).



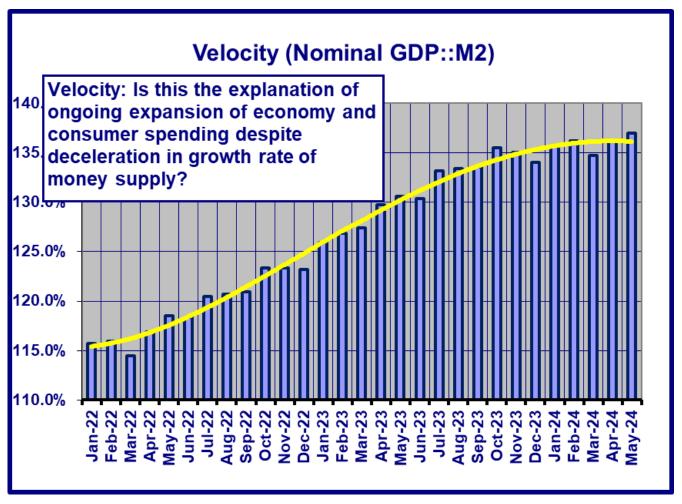
## **Money Supply**







## **Velocity**



**Source: Federal Reserve** 

Rising Inflation = Rising Velocity = Expanding Economy



## **Consumer Spending Explanation**

**Employment growth has slowed.** 

Growth rate of personal income and wages has slowed some.

The Savings Rate has declined, from an annual rate of 4.8% to 2.9%

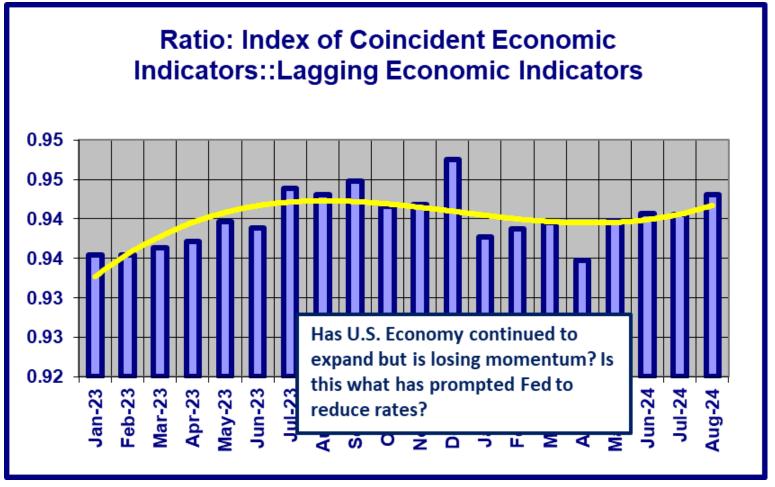
Consumer borrowing has increased.

Consumer debt delinquency rates remained unchanged

Auto and credit card debt remains elevated.



### Ratio of Coincident :: Lagging Economic Indicators *Momentum?*



**Source: Conference Board** 

The economy expanded 2.5% in July and 2.1% in August, and 3.0% in Q2.



## **Leading Economic Indicators: A Complete Puzzlement**



**Source: Conference Board** 

Leading Economic Indicators have declined for 20 of most recent 30 months.



#### Forecast for 2024 and 2025

Outlook for economy, employment, manufacturing, inflation, Federal Reserve policy, longer-term interest rates, stock prices



## **Real Gross Domestic Product**

September 2024 Forecast			
Quarter	Consensus-Real GDP	HJ Economics-Real GDP	
2024-Q1	1.4%	1.4%	
2024-Q2	3.0%	3.0%	
2024-Q3	1.7%	1.8%	
2024-Q4	1.5%	1.6%	
2025-Q1	1.7%	1.7%	
2025-Q2	1.9%	1.9%	
2025-Q3	2.0%	2.0%	
2025-Q4	2.0%	2.1%	
2023	2.5%	2.5%	
2024	2.5%	2.6%	
2025	1.7%	1.8%	
2026	2.0%	2.2%	
Source: Bloombei	g Economics; Hugh Johnson	Economics	



## **Employment**

## **Average Monthly Increase in Employment**

September 2024 Forecast			
Quarter	Consensus-NFP	HJ Economics-NFP	
2024-Q1	243	243	
2024-Q2	218	218	
2024-Q3	137	128	
2024-Q4	128	70	
2025-Q1	110	77	
2025-Q2	120	117	
2025-Q3	123	157	
2025-Q4	125	177	
2023	245	245	
2024	175	165	
2025	125	132	
2026	145	227	
Source: Bloomberg Economics; HJ Economics			



## **The Unemployment Rate**

September 2024 Forecast			
Quarter	Consensus-Unemployment Rate	HJ Economics-Unemployment Rate	
2024-Q1	3.8%	3.8%	
2024-Q2	4.1%	4.1%	
2024-Q3	4.3%	4.0%	
2024-Q4	4.4%	4.2%	
2025-Q1	4.4%	4.3%	
2025-Q2	4.4%	4.3%	
2025-Q3	4.3%	4.4%	
2025-Q4	4.3%	4.4%	
2023	3.7%	3.7%	
2024	4.1%	4.0%	
2025	4.3%	4.3%	
2026	4.2%	4.5%	
Source: Bloomber	g Economics; HJ Economics		



## Real Gross Domestic Product and Employment- Manufacturing

September 2024 Forecast		
Quarter	HJ Economics-Manufacturing Real Gross Domestic Product	HJ Economics-Real GDP Manufacturing Employment
2024-Q1	-3.8%	-9.0
2024-Q2	5.0%	-6.0
2024-Q3	1.7%	25.8
2024-Q4	2.1%	22.7
2025-Q1	2.1%	26.1
2025-Q2	2.3%	30.0
2025-Q3	2.4%	33.5
2025-Q4	2.4%	35.5
2023	2.8%	106.0
2024	1.7%	17.3
2025	2.3%	102.7
2026	2.5%	150.0
Source: Bloombe	rg Economics; Hugh Johnson Economics	

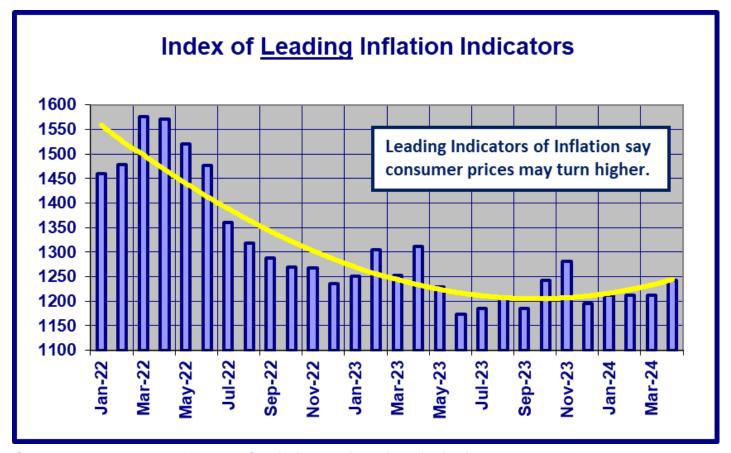


## Manufacturing (Auto, Computers, Research and Development

Septem	ber 2024 Forecast for Man	ufacturing Autos, Compute	ers, Research and Development
Quarter	Motor Vehicles	Computers	Research & Development
2024-Q1	-2.7%	-1.7%	6.1%
2024-Q2	25.6%	-23.1%	4.3%
2024-Q3	2.5%	4.5%	1.8%
2024-Q4	0.3%	4.5%	1.9%
2025-Q1	1.5%	4.5%	1.9%
2025-Q2	2.3%	4.5%	2.0%
2025-Q3	2.3%	4.5%	2.1%
2025-Q4	2.5%	4.5%	2.2%
2023	5.7%	10.1%	2.4%
2024	-0.7%	-5.7%	3.1%
2025	3.0%	2.5%	2.1%
2026	2.9%	4.5%	2.2%
Source: Bloombe	rg Economics; HJ Economi	cs	



## **Leading Inflation Indicators**



Source: HJA, Bureau of Labor Statistics; University of Michigan, Federal Reserve Bank of St. Louis, National Assoc of Purchasing Managers etc.



## Inflation

## **Personal Consumption Price Index**

September 2024 Forecast				
Quarter	Consensus-PCE Price Index	HJ Economics-PCE Price Index		
2024-Q1	2.7%	2.7%		
2024-Q2	2.5%	2.5%		
2024-Q3	2.4%	2.3%		
2024-Q4	2.4%	2.6%		
2025-Q1	2.1%	2.2%		
2025-Q2	2.0%	2.2%		
2025-Q3	2.1%	2.3%		
2025-Q4	2.1%	2.5%		
2023	3.4%	3.4%		
2024	2.5%	2.5%		
2025	2.1%	2.3%		
2026	2.1%	2.6%		
Source: Bloomberg Economics, Hugh Johnson Economics				



## Federal Reserve Policy (federal funds rate: 4.875%)

September 2024 Forecast			
Quarter	Consensus Fed Funds Rate	HJ Economics Fed Funds Rate	
2024-Q1	5.375	5.375	
2024-Q2	5.375	5.375	
2024-Q3	5.125	4.875	
2024-Q4	4.625	4.375	
2025-Q1	4.125	4.125	
2025-Q2	3.875	3.875	
2025-Q3	3.625	3.625	
2025-Q4	3.375	3.375	
2023	5.125	5.188	
2024	4.813	5.000	
2025	3.625	3.750	
2026	3.188	3.500	
Source: Bloomberg Economics, Hugh Johnson Economics			



## **Longer-Term Interest Rates (10-Year UST: 3.74%)**

September 2024 Forecast			
Quarter	Consensus 10-Year	HJ Economics 10-Year	
2024-Q1	4.20	4.20	
2024-Q2	4.40	4.40	
2024-Q3	3.95	3.74	
2024-Q4	3.89	3.48	
2025-Q1	3.80	3.56	
2025-Q2	3.75	3.51	
2025-Q3	3.73	3.35	
2025-Q4	3.70	3.16	
2023	3.90	3.94	
2024	4.11	3.95	
2025	3.75	3.39	
2026	3.71	3.28	
Source: Bloomberg Economics, Hugh Johnson Economics			



# **Stock Prices (S&P 500: 5717.23)**

Quarter	S&P 500 Operating Earnings	Y/Y%	10-Year UST	P/E	S&P 500 FCST
2024-Q1	\$226.42	3.0%	4.20	22	5012
2024-Q2	\$232.88	7.5%	4.40	23	5254
2024-Q3	\$235.91	7.8%	3.74	23	5331
2024-Q4	\$243.14	9.1%	3.48	22	5420
2025-Q1	\$251.47	11.1%	3.56	22	5416
2025-Q2	\$259.81	11.6%	3.51	21	5475
2025-Q3	\$270.12	14.5%	3.35	21	5590
2025-Q4	\$279.83	15.1%	3.16	20	5701
2026-Q1	\$288.60	14.8%	3.05	20	5864
2026-Q2	\$297.36	14.5%	3.10	21	6115
2026-Q3	\$306.13	13.3%	3.56	21	6365
2026-Q4	\$314.89	12.5%	3.41	21	6619
Sources: HJ Economics; Refinitiv Proprietary Research					



## **Population Puts Pressure On Productivity**

Variable	1980-2019	2020-2023
Economy	2.7%	2.0%
Population	1.1%	0.8%
Participation Rate	65.3	62.1
Labor Force	1.1%	0.5%
Employment	1.3%	1.0%
Productivity	1.9%	1.5%
Source: Bureau of Labor Statistics		

Bureau of Economic Analysis, Census Bureau, Bureau of Labor Statistics



#### The Election

Harris win. (5.0+ in 10)
Republicans win 51-seat Senate majority. (5.0+ in 10)
Democrats win majority in House. (5.0+ in 10).

#### Risk to Harris Win.

- 1. September nonfarm payroll employment below 100,000.
- 2. 5% decline in stock prices.
- 3. September Consumer Price Index exceeds 2.5%. results. (3+ in 10).
- 4. September core Consumer Price Index exceeds 3.2%.
- 5. September economic retail sales and industrial production each decline.
- 6. Social unrest, crisis at border, more global instability, Russian intervention.



## **Economic Policy (Penn Wharton Budget Model)**

#### **Three Important Fiscal Issues**

Trump Deficits: \$5.8 Trillion over 10 years *less* \$1.8 Trillion in growth incentives. (no tax on tips, overtime, social security.)

Harris Deficits: \$1.2 Trillion over 10 Years *plus* \$800 billion in growth disincentives. (child tax credit, corporate income tax increase from 21% to 28%, no tax on tips.)

Both will include extension of 2017 tax cuts \$2.5 Trillion over 10 years.

Trump Tariffs: 10% on all imports and 60% on Chinese imports.

**Harris: None** 

**Trump Federal Reserve Independence (unclear) Harris Federal Reserve Independence (absolute)** 





# Rise of Al:

Do you have an Al strategy to unlock your organization's potential? Will you innovate or be left behind?

Cory McNeley Managing Director, UHY Consulting





## Agenda

#### I. Background

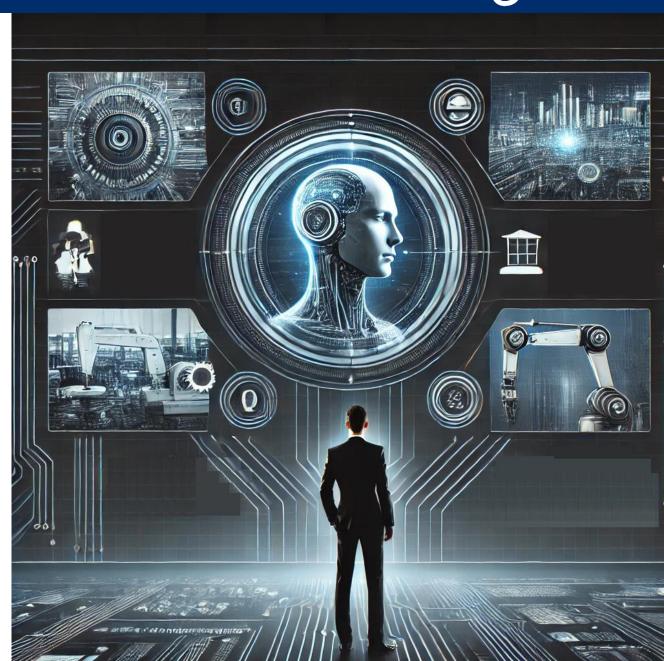
- Historical Context
- Speed of Adoption
- Al's Reach

#### **II. Practical Examples**

- Aerospace
- Quality Control
- Engineering
- Procurement

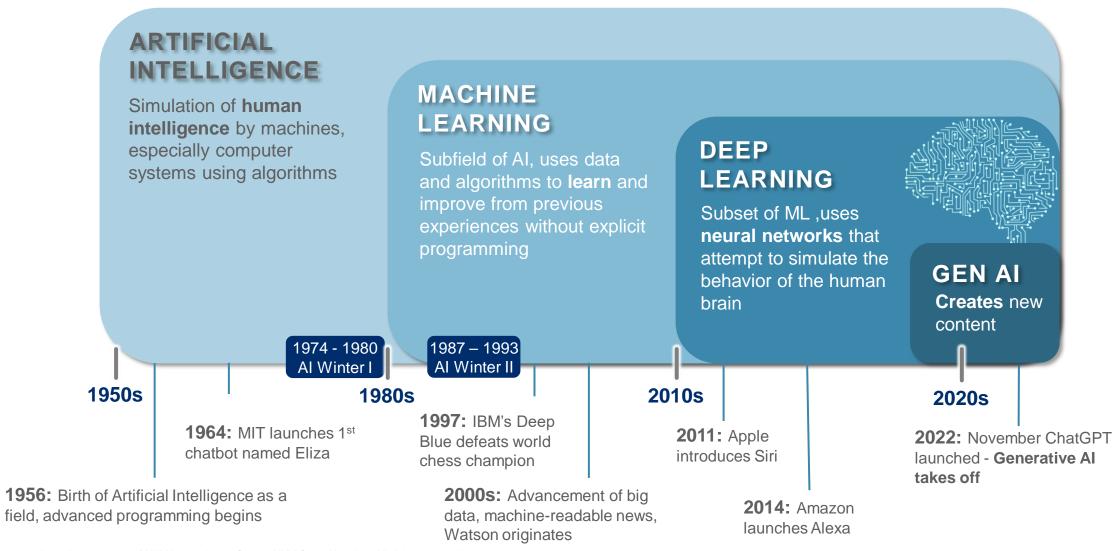
#### **III. Data Considerations**

#### **IV. Conclusion**





### The Path of Al





## Speed of Adoption: Launch → 1MM Users



ChatGPT	Year	Danamatara
Model	Teal	Parameters
GPT	2018	117M
GPT-2	2019	1.5B
GPT-3	2020	175B
GPT-4	2023	>1.7T

The Chat-GPT40 model has an estimated 1.7 Trillion parameters in it's training data! By contrast the previous version utilized only 175B.



## Reach of AI – Example Sectors



**ENTERTAINMENT** 



PUBLIC AND PRIVATE TRANSPORTATION



MANUFACTURING



**HEALTHCARE** 



SERVICE INDUSTRY



RETAIL AND WHOLESALE



HOMES



**ENERGY** 

- Early indications are that AI penetration will initially be felt most acutely in sectors such as Finance, Information Technology, and Professional Services such as Legal.
- However, sectors such as Healthcare, Energy, and in particular Manufacturing, where vast amounts of data are generated daily, hold great promise as AI models and applications improve rapidly and become more focused and honed.
- Al needs data and the data generated by Manufacturing and its' related processes provides a rich source to both train, inform, and validate Al models improving performance and the speed and quality of results.



# **How Aerospace Companies Are Deploying Al**

# **AIRBUS**





Airbus is using AI for computer vision to inspect and detect flaws (reduced inspection time and increased defect detection rates, improving overall manufacturing efficiency), anomaly detection, conversational assistance, and planning & decision-making

Lockheed Martin is using Al technology across the enterprise including HR for talent matching, IT for help ticket resolution, operations for quality control measures, engineering for faster product testing, and production to optimize daily workflows.

**Boeing** is leveraging AI for demand forecasting, supply chain optimization, anomaly detection, predictive analysis, and predictive maintenance. More recently they are using AI to sift through massive amounts of data and identify risks in its aircraft operations.



## **Quality Control Examples**



**Predictive Quality Control:** All can analyze data from manufacturing processes to predict and detect quality issues before they occur, such as identifying subtle correlations in production machinery data that are precursors to quality issues.



**Visual Inspection Systems:** Al-powered visual inspection systems can identify defects and quality issues with greater accuracy and speed than human inspectors reducing rework and customer complaints.



**Real-time Monitoring:** IoT devices combined with AI can monitor production lines and equipment performance in real-time, predicting failures and ensuring quality standards and providing proactive intervention in real-time.



# **Engineering Examples**







ALTAIR

HyperWorks



**Product Design Optimization:** Al algorithms can be integrated into systems like CATIA, helping engineers optimize design of components, while minimizing material usage, weight, and reducing manufacturing costs while maintaining performance specifications.

**Simulation and Testing:** All can simulate and test various design scenarios, reducing the time and resources required for R&D and accelerating the product development cycle. All can also recommend the most promising solution paths when confronted with a sea of possibilities and limited time.

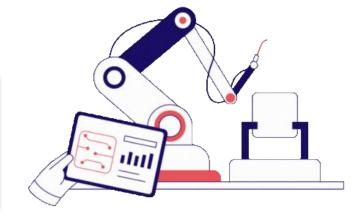
**Automation of Routine Tasks:** All can automate routine engineering tasks, such as drafting and calculations, allowing engineers to focus on more complex and innovative aspects of product development.



## **Procurement Examples**



Supplier Selection and Risk Management: Al can analyze data on supplier performance, reliability, and risk factors, helping procurement teams make informed decisions and build resilient supply chains.





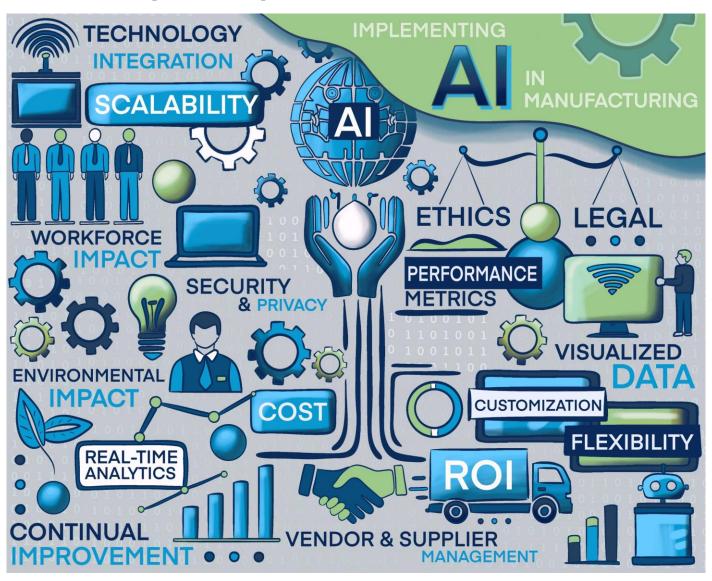
**Demand Forecasting and Inventory Management:** All can develop highly complex and detailed forecasts to predict future product demand, allowing companies to optimize inventory levels and reduce storage costs.



**Automated Negotiations:** Al systems can automate aspects of the negotiation process with suppliers, using historical data, market conditions, and the organization's objectives to secure the best terms and quality from suppliers.



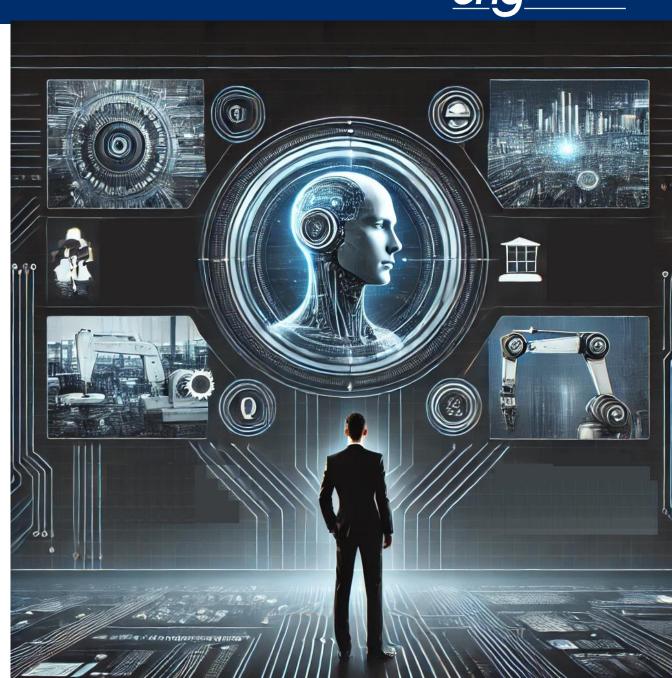
# **Al Considerations (\*Data)**





## **Conclusions**

- The use and reach of <u>AI will continue to grow</u> and yield benefits to those who adopt and use the tools to their advantage
- Manufacturing is inherently well-positioned to take advantage of Al's benefits through the availability of data and processes inherent to the sector.
- Governance and monitoring processes will be needed to avoid erosion of worker skill sets, monitor AI for inherent bias, guard against overreliance in decisionmaking, stay ahead of security and intellectual property concerns, and manage business continuity risks
- Al is not one size fits all. Some uses will require the latest Al models, while others can apply earlier models with a narrower scope.
- How good does your AI need to be to yield the expected benefits to your organization?







# Measuring the Pulse of Manufacturers Across the Country: Are Manufacturers Prepared to Succeed?

September 26<sup>th</sup>, 2024
Siena College Research Institute
Presented by: Don Levy, Director of the Siena College Research Institute





# What is SCRI?



#### Client

at&t



























**Economic** 







# #1 Rated Pollster in America





# THE NEW YORK TIMES / SIENA COLLEGE POLL RANKED #1 FOR ACCURACY SECOND YEAR IN A ROW

RANK () POLLSTER ()

538 RATING ①

POLLSCORE ①

RANSPARENCY SCORE 1 POLLS ANALYZED 1

1 The New York Times/Siena College

3.0 ★★★

-1.5

8.7

122



There are some familiar faces here. The New York Times/Siena College, for example, is the most accurate pollster in America. Due to its accuracy and transparency, it and ABC News/Washington Post are also the only two pollsters with a three-star rating

## **Nature of the Sample**





SCRI conducted the National Business Leader Survey from May 2024 – July 2024



SCRI partnered with the National Association of State Chambers, distributing the survey to members of their State Chambers located in four different regions across the country: Northeast, South, Midwest, and West. 389 respondents, 125 of which are in the Manufacturing industry.



41 of the 50 states participated in this survey with

22% of respondents in the Northeast
24% of Manufacturers in the Northeast

8% of respondents in the Midwest 24% of Manufacturers in the Midwest 58% of respondents in the South

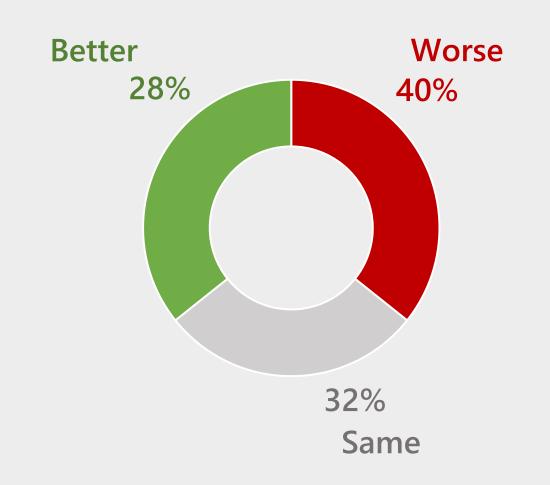
12% of respondents in the West
9% of Manufacturers in the West

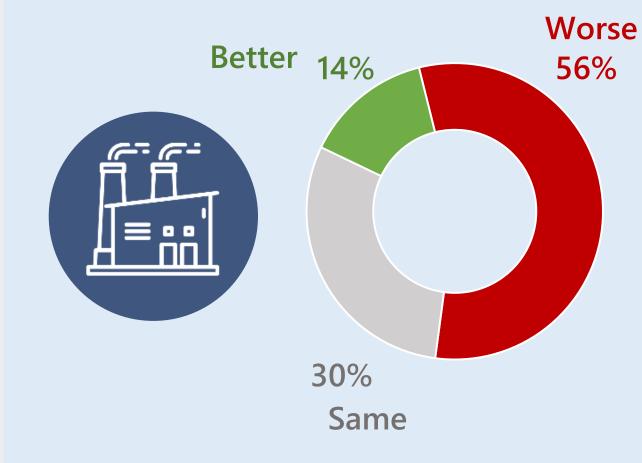
### Business Leader Sentiment: Current Conditions



As you think about the **current business or economic conditions in your state** as compared to one year ago, would you say they are considerably better, a little better, about the same, a little worse, or considerably worse?

Total: Manufacturing Industry:

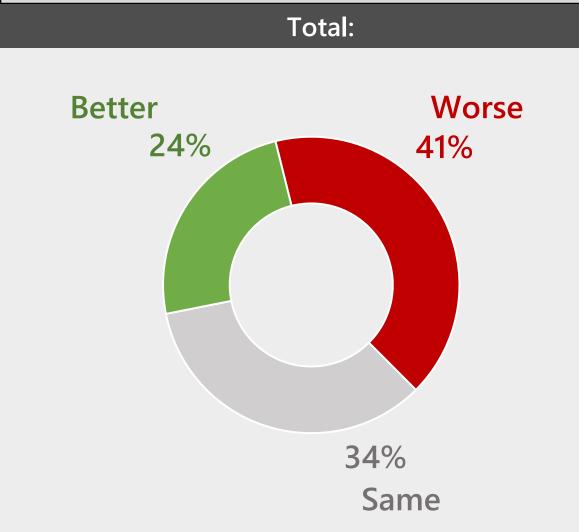




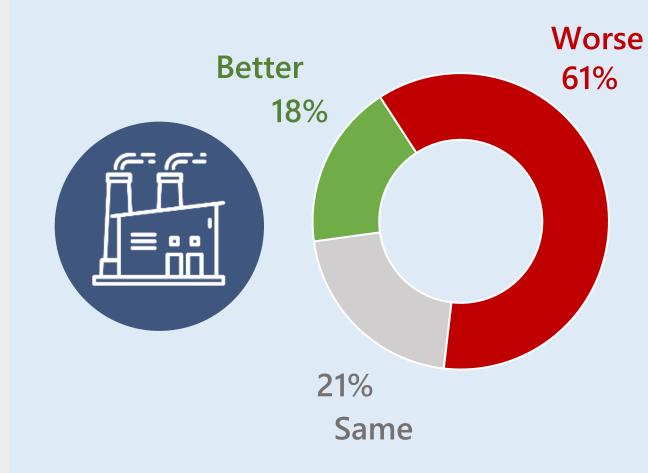
### **Business Leader Sentiment: Current Conditions**



Now thinking specifically about **your industry**, how would you describe the **current business or economic conditions in your state** as compared with one year ago?



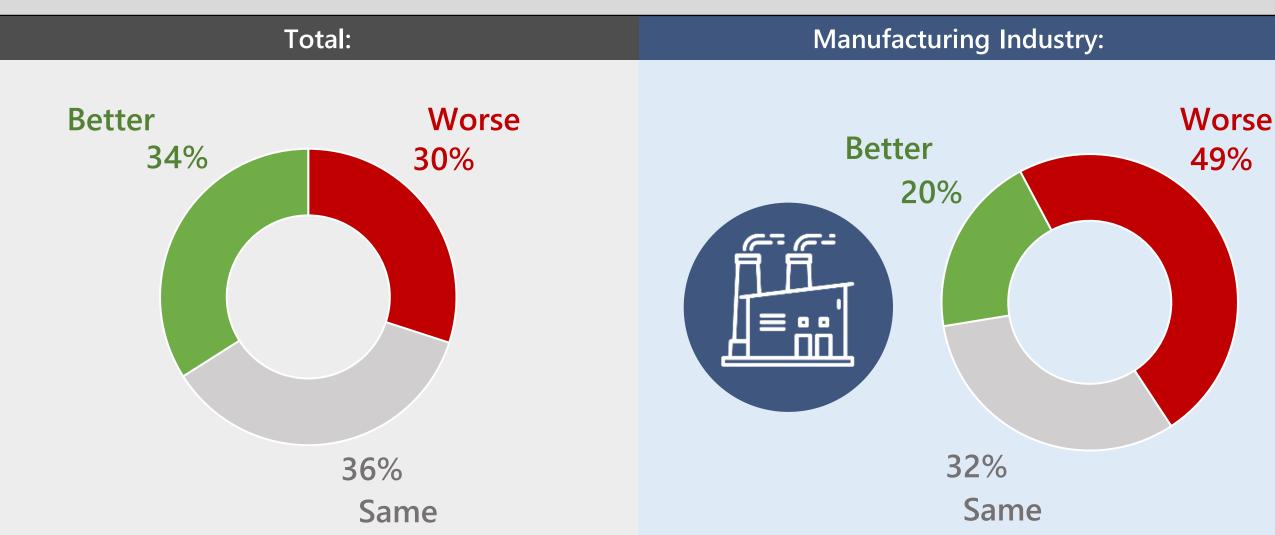
### Manufacturing Industry:



## **Business Leader Sentiment: Future Expectations**



Looking forward from today through next year how would you describe your **expectations for the economy** in your state?



## **Business Leader Sentiment: Future Expectations**



And looking forward from today through the next year, how would you describe your **expectations for your** industry here in your state?



### National Business Leader Sentiment 2024



**Total Index:** 

Overall -94.8(102.2)

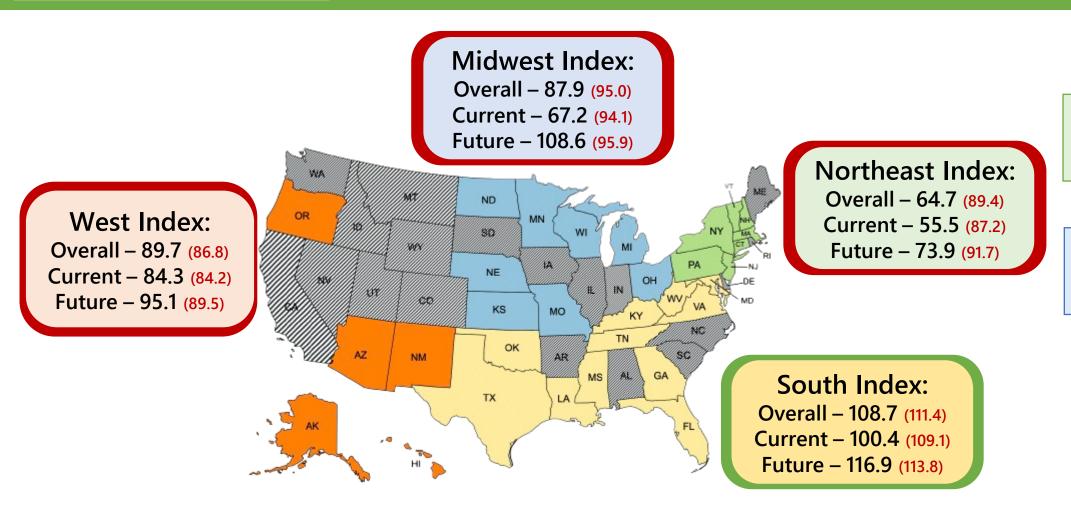
Current -85.5(99.7)

Future – 104.2(104.6)

Manufacturer's Index: Overall – 69.0

**Current – 58.0** 

**Future – 79.0** 



#### Long Island: (2023)

**Overall** – 94.1

**Current - 84.2** 

Future - 103.9

#### Upstate NY: (2023)

**Overall – 60.8** 

**Current - 55.9** 

**Future – 65.7** 

### National Business Leader Sentiment 2024: By Industry



Engineering & Construction



Overall – 88.0 Current – 77.9 Future – 98.2

#### **Financial**



Overall – 93.4 Current – 73.1 Future – 113.7

#### Manufacturing



Retail



Overall – 65.0 Current – 47.0

Future - 82.9

Leisure & Hospitality / Food & Beverage



Overall – 93.2 Current – 81.8 Future – 104.6 Professional & Business Services



Overall – 87.4 Current – 72.5 Future – 102.3

Wholesale, Distribution, Transportation & Utilities

Overall – 87.4 Current – 72.5 Future – 102.3 Education & Health Services



Overall – 92.7

Current – 95.2

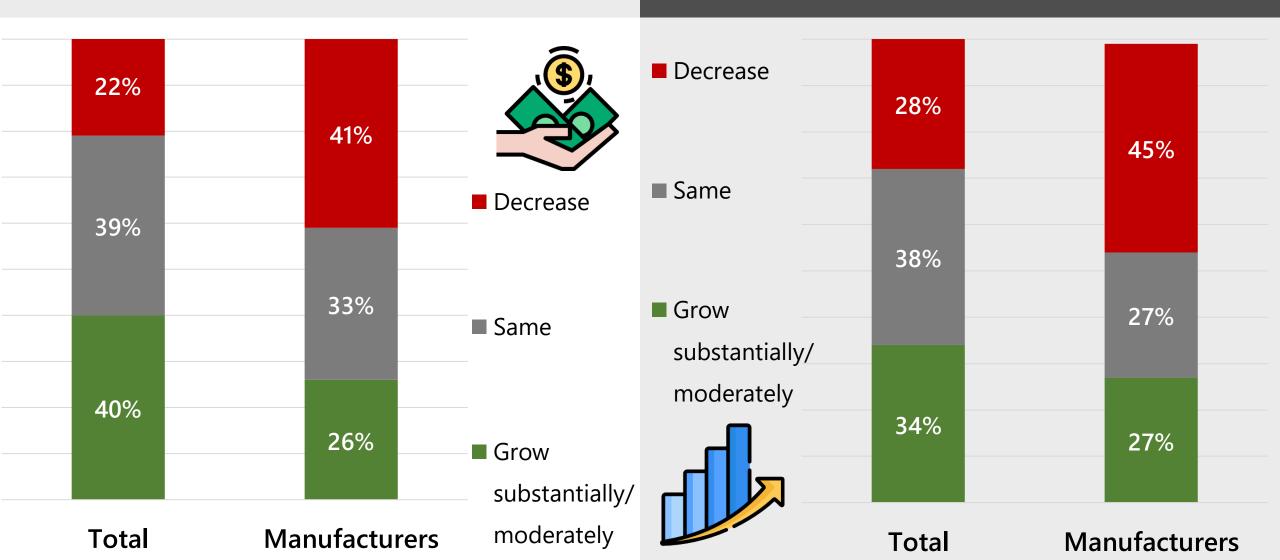
**Future – 90.2** 

## **Expectations for Revenue and Profit**



What are your expectations for revenue through the end of the next year? Do you believe your revenue will...

Please think quickly about profitability. Over the next year, do you expect your profits to...

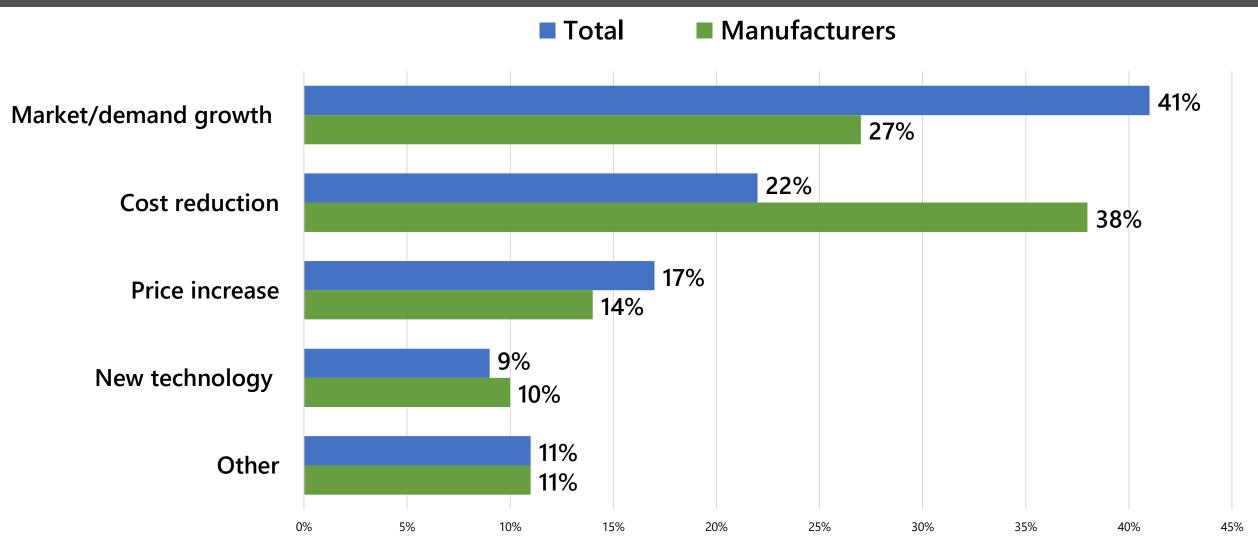


## **Profitability Enhancement Strategies**



Businesses and the executives that direct them strive to enhance profitability in many ways. Through which of the following strategies do you plan to MOST enhance your company's profitability over the next year?

Please select ONE.

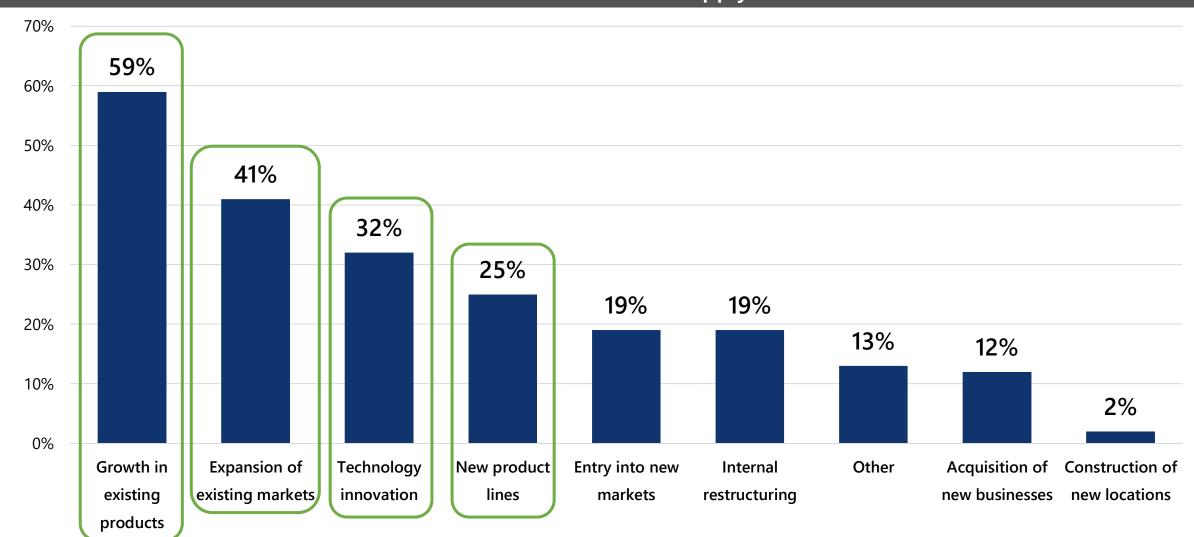


### **Areas of Concentration**



Please indicate which of the following are major areas of concentration for your company now and through the next year.

Please check ALL that apply.

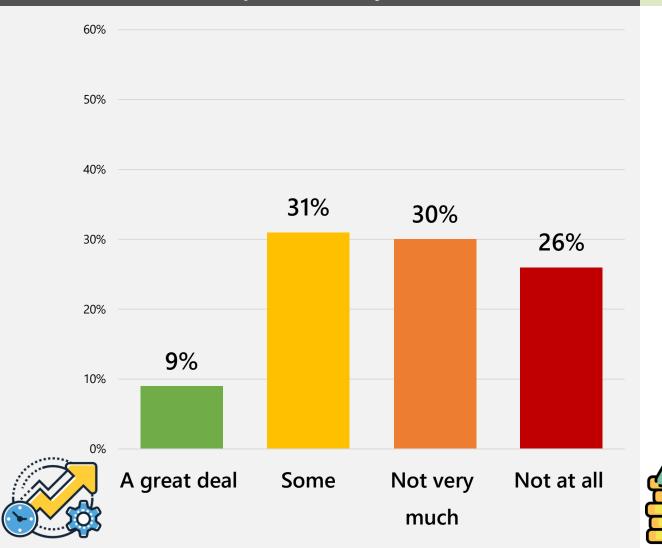


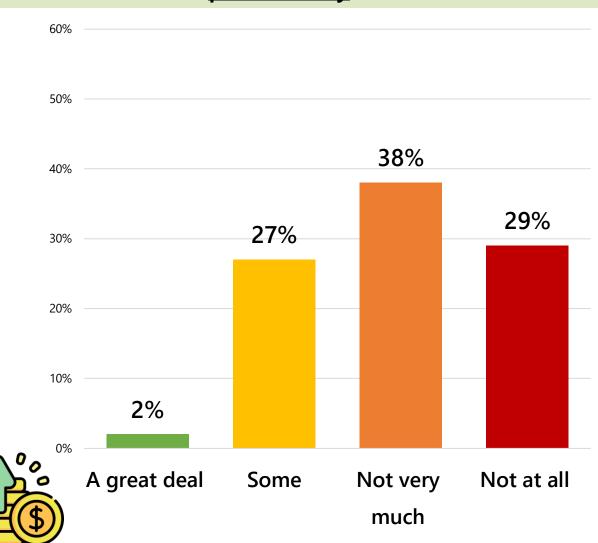
## **Artificial Intelligence + Smart Factories Impact**



To what degree do you think that in the coming years AI (artificial intelligence) and "Smart factories" will enhance your <a href="mailto:productivity">productivity</a>?

To what degree do you think that in the coming years Al (artificial intelligence) and "Smart factories" will enhance your <a href="mailto:profitability">profitability</a>?



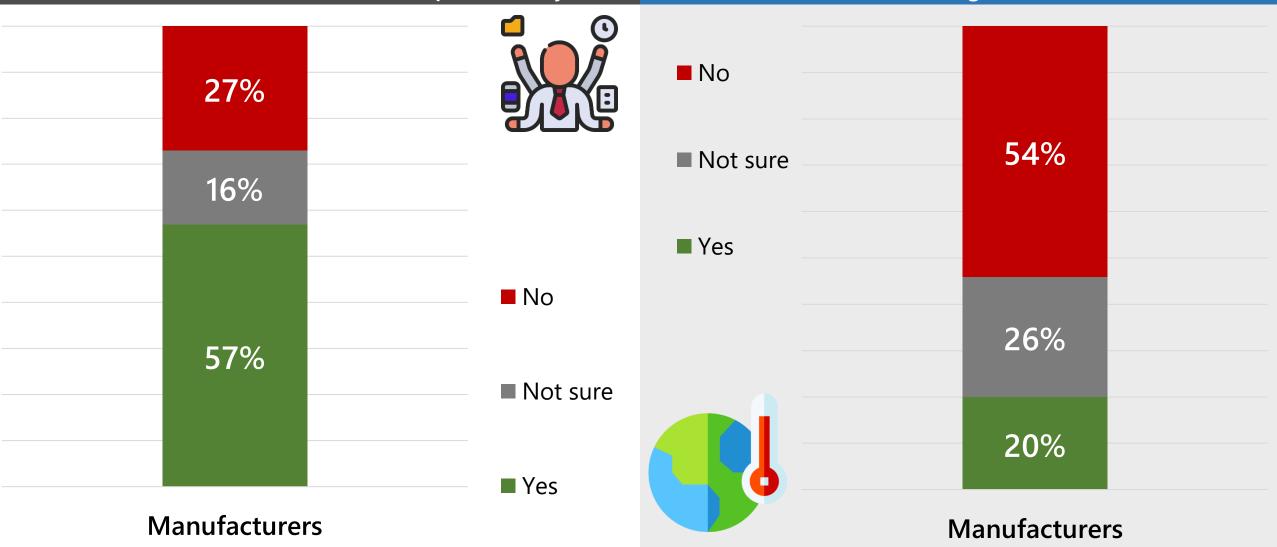


## **Expectations for Fixed Assets**



Do you intend to invest over the next year in any fixed assets for your company designed to meet growing demand, reduce costs or enhance productivity?

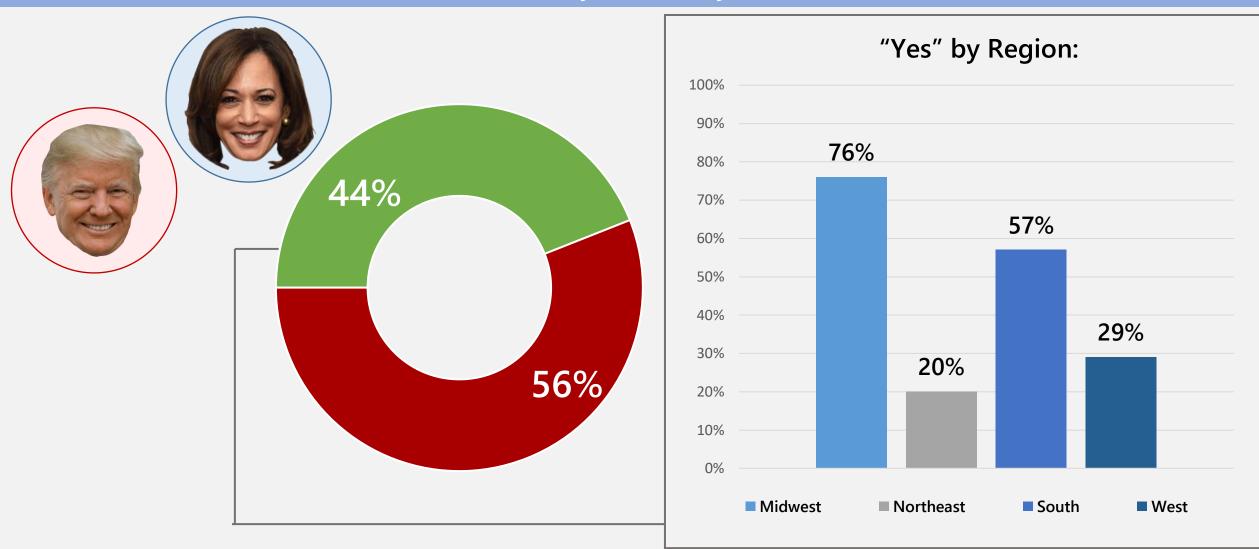
Do you intend to invest over the next year in any fixed assets for your company designed to respond to climate change?



### **2024 Election Results**



Are you waiting to see the results of the 2024 Election prior to making investment decisions or does the election outcome not have any effect on your investment decisions?

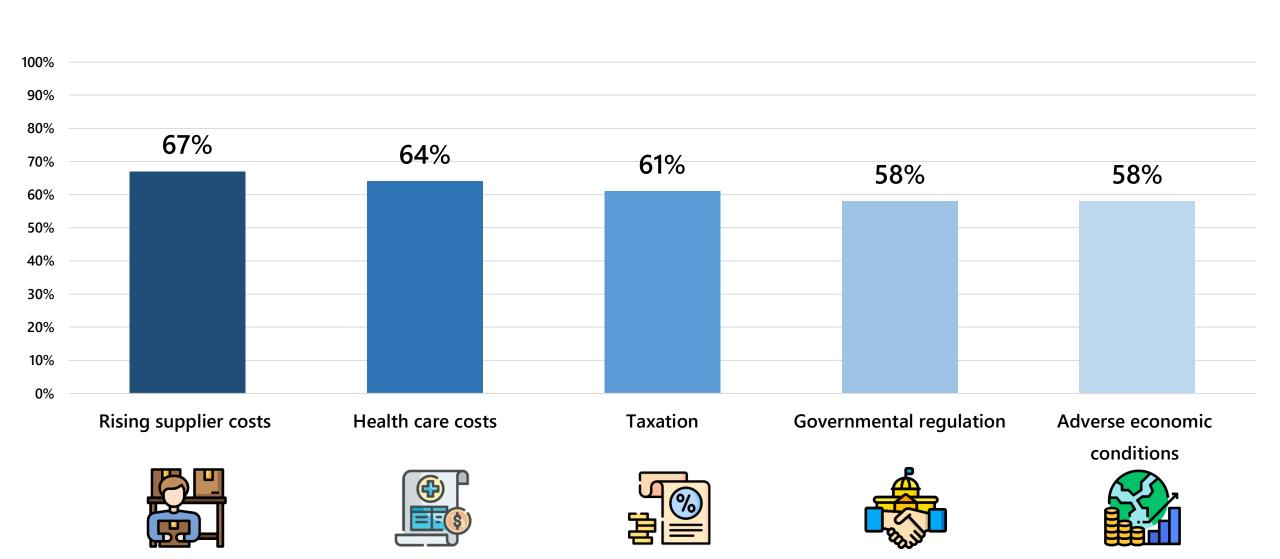


## **Concerning Challenges**



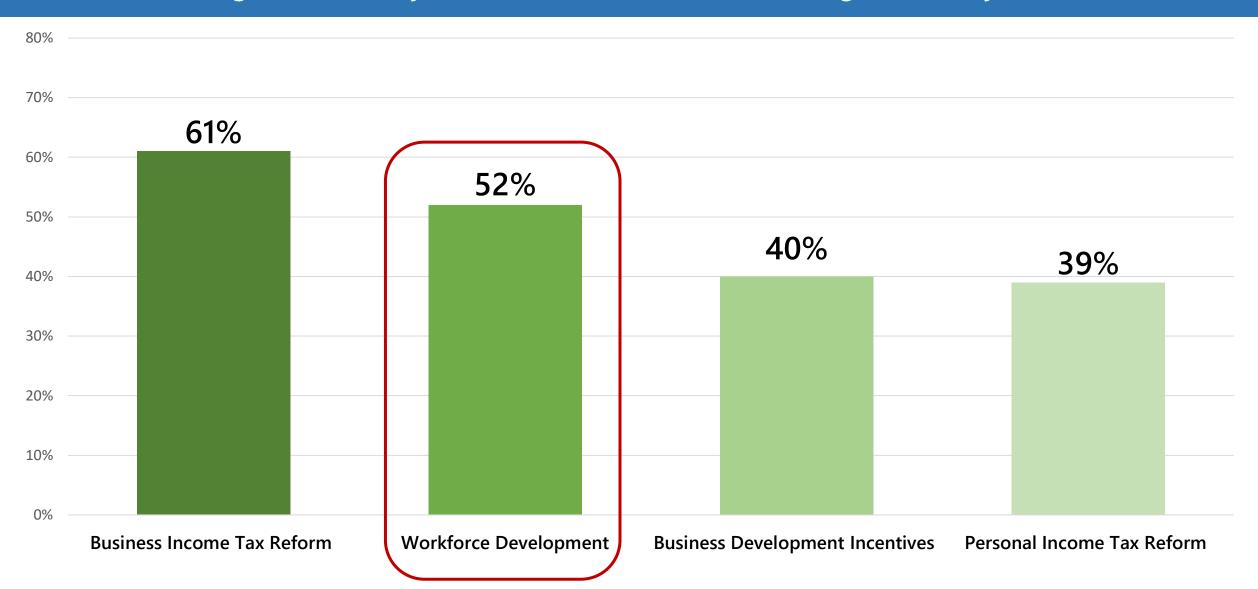
And thinking about challenges that your company faces, which of the following are you concerned with?

Please check ALL that apply.



### **State Focus**

Of the following, what would you like to see the Governor and Legislature of your state focus on?



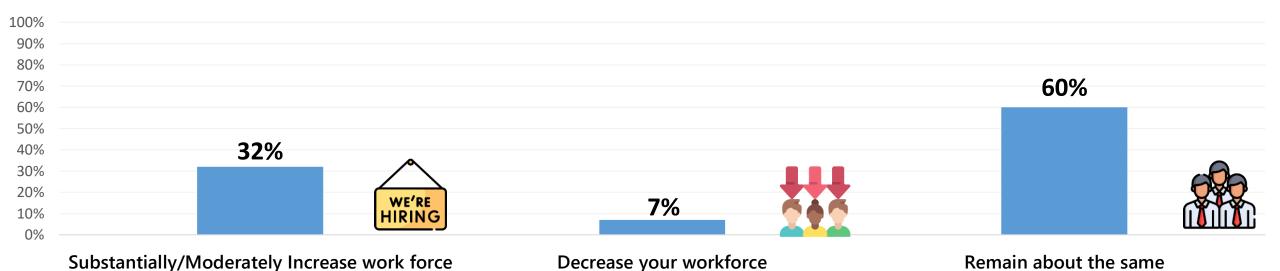
### **Future of Work for Manufacturers**



Is there an ample supply of local workers that are appropriately trained for your employment needs?



### Now thinking about the people that work for your company, over the next year, do you plan to...?

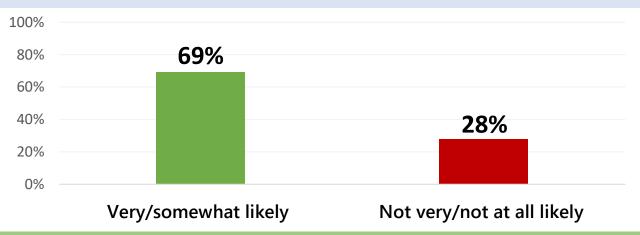


## **Workforce Development**

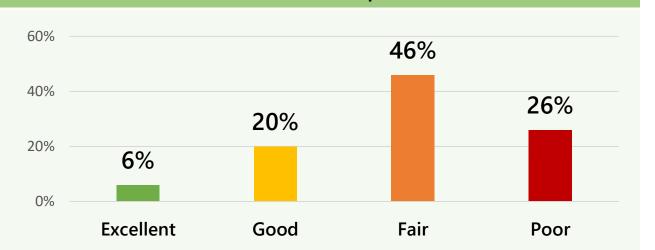


How likely would you and your company be to actively participate in a workforce development partnership program?

## Who plays the biggest role in workforce development?



How would you rate your state's overall efforts to promote workforce development?





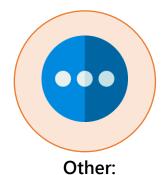
Your own company: 40%

Major employers:

7%



Local community college/trade school: 25%



9%







State government: 6%

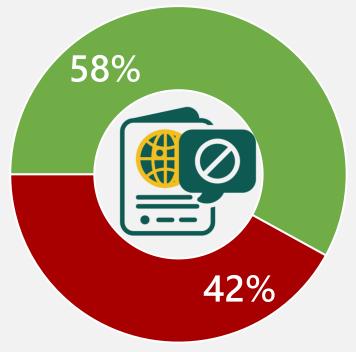
## **Labor Supply**



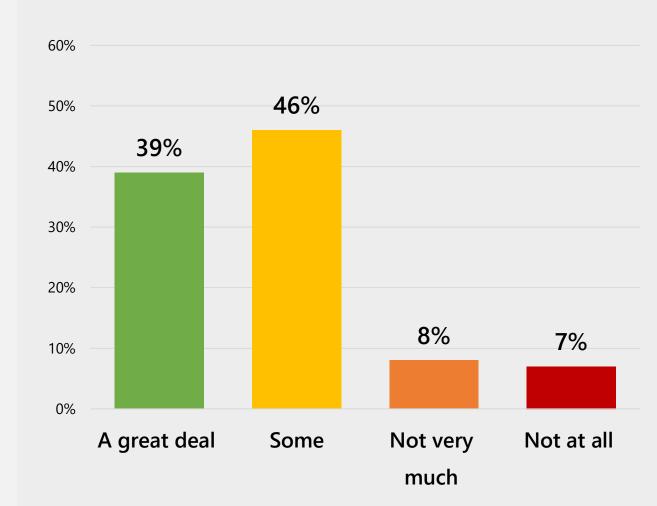
Do you think recent migrants to your state could supply businesses like yours with needed workers or not?

As you consider your company's success, to what degree has a lack of available skilled labor made it difficult for you to be successful?

Yes, migrants could supply needed workers



No, migrants could not supply needed workers



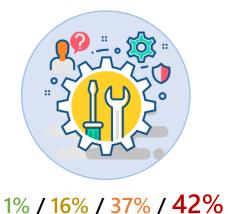
### **Assessment of Skill/Attribute**



Based on the job applicants that you have seen over the last couple of years, how would you assess those job applicants on the following skills or attributes?

(Excellent / Good / Fair / Poor)

#### **Technical skills**



Verbal skills



1% / 12% / 45% / 38%

Writing skills



1% / 6% / 21% / 60%

**Initiative** 



1% / 8% / 32% / 56%

#### Work ethic



#### Realistic about compensation



1% / 9% / 31% / 57%

#### **Professionalism**



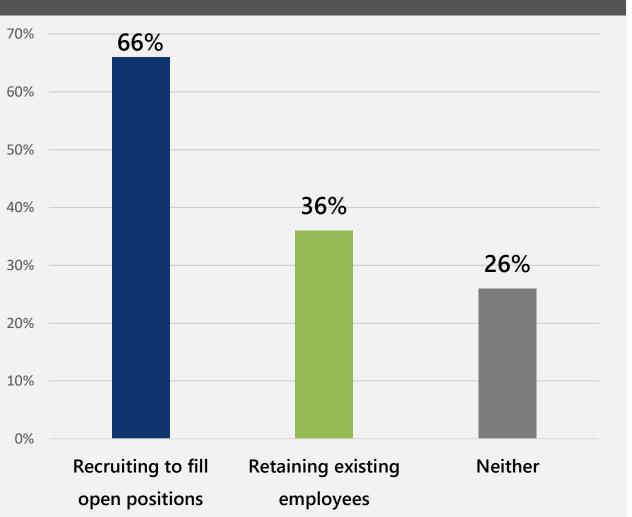
1% / 7% / 47% / 41%

## Future of Work - Recruiting and Retaining



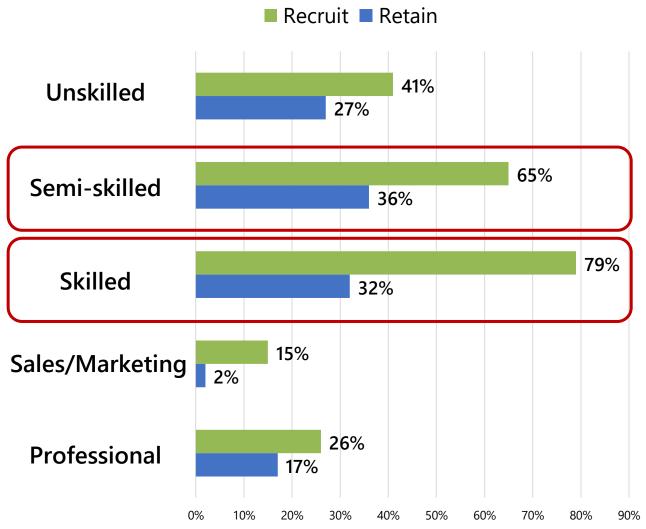
Please indicate with which, if any of the following you are currently having difficulty.

Please select ALL that apply.



Please indicate which, if any, types of workers you are having difficulty recruiting and/or retaining.

Please check ALL that apply.



## Takeaways





# 85% say lack of available skilled labor has made it difficult to be successful



#### **Challenges:**

- Government regulation and taxation
- Supplier costs
- Workforce



"Our biggest competitive/expansion challenge is workforce. We are unable to find even remotely skilled machinists these days and are leaving money on the table due to lost work. We could probably double our revenue within a year if the workforce were available."

## **Panel Discussion**



President & CEO
The Business Council of
New York State, Inc.



Thomas Alongi CPA, CMA Partner, UHY LLP



