### **107 Years of Service**



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The longest economic expansion in U.S. history followed by largest unemployment since the Great **Depression** 

# U.S. Economy Sees Sharp Downturn Amid COVID-19 Crisis

Quarterly real GDP growth in the United States\*



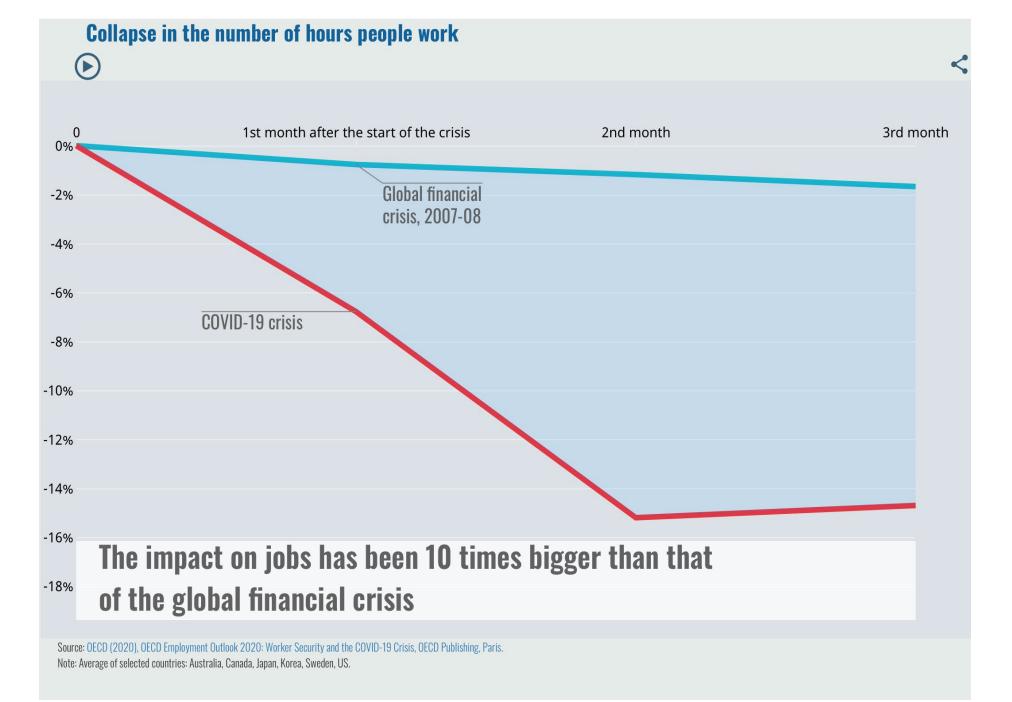
<sup>\*</sup> percent change from preceding quarter; seasonally adjusted at annual rates Source: U.S. Bureau of Economic Analysis





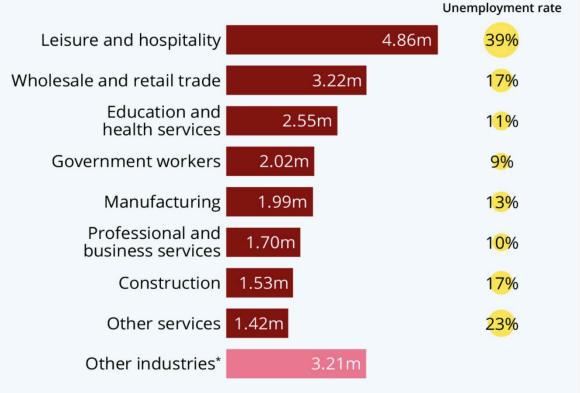






# The Industries Worst Affected by the COVID-19 Job Crisis

Number of unemployed persons aged 16 and over in the U.S. in April 2020, by industry



<sup>\*</sup> incl. persons with no previous work experience and persons whose last job was in the U.S. Armed Forces

Source: Bureau of Labor Statistics









## NAM MANUFACTURERS' OUTLOOK SURVEY THIRD QUARTER 2020

**SEPTEMBER 10, 2020** 

<b>Percentage of Respondents Positive</b>
<b>About Their Own Company's Outlook</b>
66.0%
(May: 33.9% — Lowest since Q1:2009)

Small Manufacturers: **62.0%** (*May: 42.4%*)
Medium-Sized Manufacturers: **65.5%** (*May: 27.4%*)
Large Manufacturers: **70.3%** (*May: 22.5%*)

#### Expected Growth Rate for <u>SALES</u> Over the Next 12 Months

 $\uparrow$  1.9% (May:  $\downarrow$  4.3% — Lowest since Q1:2009)

### Expected Growth Rate for <u>FULL-TIME EMPLOYMENT</u> Over the Next 12 Months

 $\uparrow$  0.7% (May:  $\downarrow$  2.2% — Lowest since Q1:2009)

### Expected Growth Rate for <u>CAPITAL INVESTMENTS</u> Over the Next 12 Months

个 0.7%

(May:  $\downarrow$  2.5% — Lowest since Q1:2009)

### Expected Growth Rate for <u>PRICES OF COMPANY'S</u> <u>PRODUCTS</u> Over the Next 12 Months

个 1.3%

(May:  $\downarrow$  0.1% — Lowest since Q1:2009)

#### Expected Growth Rate for <u>INVENTORIES</u> Over the Next 12 Months

**↓** 0.4%

(May:  $\downarrow$  2.8% — Lowest since Q2:2009)

#### **Overall Facts About the Survey**

Number of Responses: 472 In the Field: Aug. 14–28, 2020

Small Manufacturers: 107 responses Medium-Sized Manufacturers: 235 responses Large Manufacturers: 130 responses

#### NAM Manufacturing Outlook Index<sup>1</sup>

44.5

(May: 23.3 — Lowest since Q1:2009)

### Expected Growth Rate for <u>PRODUCTION</u> Over the Next 12 Months

个 2.2%

(May:  $\downarrow$  3.8% — Lowest since question was added in Q2:2015)

### Expected Growth Rate for EMPLOYEE WAGES Over the Next 12 Months

**↑ 1.4%** 

(May:  $\uparrow$  0.5% — Lowest since Q2:2009)

### Expected Growth Rate for EXPORTS Over the Next 12 Months

个 0.4%

(May:  $\downarrow$  1.4% — Lowest since question was added in Q2:2011)

### Expected Growth Rate for RAW MATERIAL PRICES AND OTHER INPUT COSTS Over the Next 12 Months

个 2.2%

(May: ↑ 0.9% — Lowest since question was added in Q2:2018)

### Expected Growth Rate for <u>HEALTH INSURANCE COSTS</u> Over the Next 12 Months

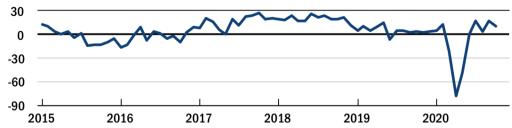
个 5.8%

(May:  $\uparrow$  5.7% — Lowest since question was added in Q3:2014)

# **Current Indicators**

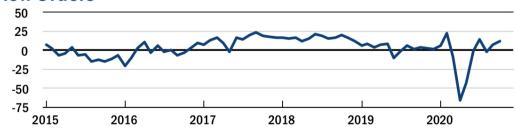
**Change from Preceding Month** 

### **General Business Conditions**



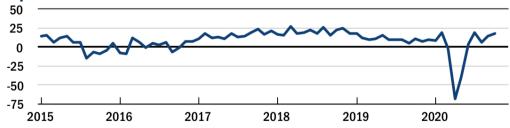
	Percent F	Reporting	
	Higher	Lower	Index
Sep	39.8	22.8	17.0
Oct	35.8	25.3	10.5
Change			-6.5

### **New Orders**



	Percent F		
	Higher	Lower	Index
Sep	34.9	27.7	7.1
Oct	38.3	26.0	12.3
Change			5.2

### **Shipments**



	Percent F		
	Higher	Lower	Index
Sep	34.0	19.9	14.1
Oct	36.5	18.7	17.8
Change			3.7

### **New York State Labor Market Overview – September 2020**

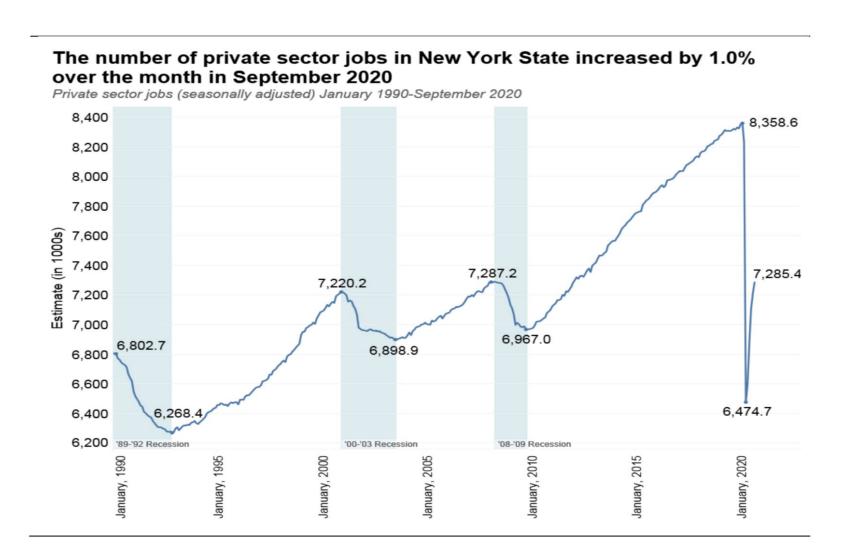


Table 2. Number of Nonfarm Jobs By Industry
New York State

(In Thousands, Not Seasonally Adjusted)

(in Thousands, i		September		ber 2020 from:
Industry	2020	2019	September 2019	
		(R)	Net	%
Total Nonfarm	8,704.4	9,777.6	-1,073.2	-11.0%
Total Private	7,298.5	8,304.2	-1,005.7	-12.1%
Goods Producing	781.4	862.9	-81.5	-9.4%
Natural Resources & Mining	4.6	5.6	-1.0	-17.9%
Construction	380.5	418.7	-38.2	-9.1%
Manufacturing	396.3	438.6	-42.3	-9.6%
Durable Goods	231.6	253.5	-21.9	-8.6%
Non-Durable Goods	164.7	185.1	-20.4	-11.0%
Service-Providing	7,923.0	8,914.7	-991.7	-11.1%
Trade, Transportation, and Utilities	1,364.7	1,542.2	-177.5	-11.5%
Wholesale Trade	291.1	326.1	-35.0	-10.7%
Retail Trade	811.4	903.3	-91.9	-10.2%
Transportation, Warehousing, and Utilitie	262.2	312.8	-50.6	-16.2%
Information	266.5	279.5	-13.0	-4.7%
Financial Activities	691.7	727.1	-35.4	-4.9%
Professional and Business Services	1,229.9	1,378.3	-148.4	-10.8%
Education and Health Services	1,985.6	2,125.7	-140.1	-6.6%
Leisure and Hospitality	618.8	975.9	-357.1	-36.6%
Other Services	359.9	412.6	-52.7	-12.8%
Government	1,405.9	1,473.4	-67.5	-4.6%

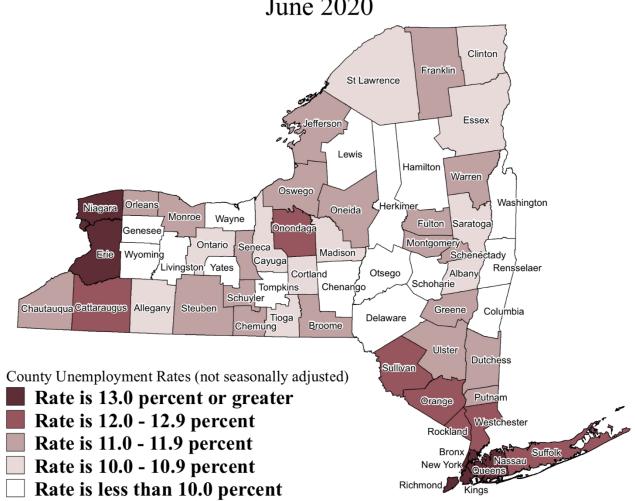
Note: Data are subject to revision. R=Revised. Net and % changes based on rounded data. Source: New York State Department of Labor, Division of Research and Statistics, 518-457-3800.

Table 1. Number of Nonfarm Jobs by Place of Work New York State and Areas

(In Thousands, Not Seasonally Adjusted)

	,		<i>'</i>	
	Septembe	September	Change to Septe	mber 2020 from:
Area	2020	2019	Septemb	per 2019
		(R)	Net	%
New York State	8,704.4	9,777.6	-1,073.2	-11.0%
	Metropolitan Ar	eas		
Albany-Schenectady-Troy Metro Area	431.4	471.4	-40.0	-8.5%
Binghamton Metro Area	96.7	103.1	-6.4	-6.2%
Buffalo-Niagara Falls Metro Area	517.8	566.6	-48.8	-8.6%
Dutchess-Putnam Metropolitan Division	134.6	147.5	-12.9	-8.7%
Elmira Metro Area	35.5	37.1	-1.6	-4.3%
Glens Falls Metro Area	50.2	55.6	-5.4	-9.7%
Ithaca Metro Area	61.1	63.4	-2.3	-3.6%
Kingston Metro Area	59.6	62.7	-3.1	-4.9%
Nassau-Suffolk Metropolitan Division	1,229.6	1,344.6	-115.0	-8.6%
New York City	4,032.0	4,652.3	-620.3	-13.3%
Orange-Rockland-Westchester	649.4	726.3	-76.9	-10.6%
Rochester Metro Area	483.9	539.5	-55.6	-10.3%
Syracuse Metro Area	289.3	322.2	-32.9	-10.2%
Utica-Rome Metro Area	117.4	127.2	-9.8	-7.7%
Watertown-Fort Drum Metro Area	37.9	41.6	-3.7	-8.9%

### Unemployment Rates by County, New York State, June 2020



## Local Area Unemployment Rates\* (%) August 2019 and August 2020

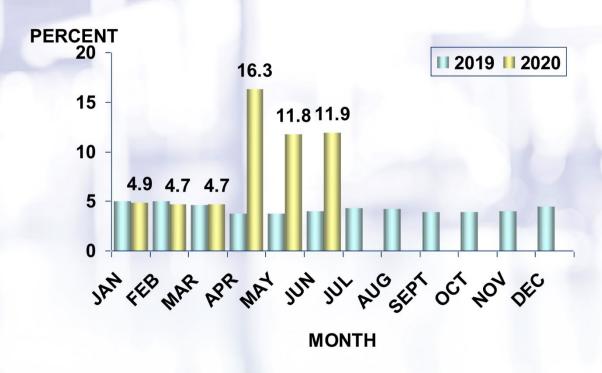
(not seasonally adjusted)

	August 2020*	August 2019
Metro Areas	12.9	4.1
Albany-Schenectady-Troy	8.8	3.8
Binghamton	9.4	4.6
Buffalo-Niagara Falls	10.8	4.5
Dutchess-Putnam	9.4	3.8
Elmira	9.6	4.3
Glens Falls	8.2	3.6
Ithaca	7.2	4.0
Kingston	9.3	4.0
Nassau-Suffolk	10.5	3.9
New York City	16.3	4.2
Orange-Rockland-Westchester	10.8	4.1
Rochester	9.9	4.3
Syracuse	9.8	4.2
Utica-Rome	9.3	4.3
Watertown-Fort Drum	9.2	5.1
Non-metro counties	8.8	4.2



# Syracuse MSA \*

## Unemployment Rates, 2019 - 2020



<sup>\*</sup> The Syracuse MSA includes Onondaga, Madison & Oswego counties.



# Change in Total Nonfarm and Private Sector Jobs August – September 2020

	Change in Total Nonfarm (private sector + go	Change in Private Sector Jobs:		
	Net %		Net	%
United States	+661,000	+0.5	+877,000	+0.7
New York State	+109,300	+1.3	+75,300	+1.0

### **Unemployment Rates (%)\***

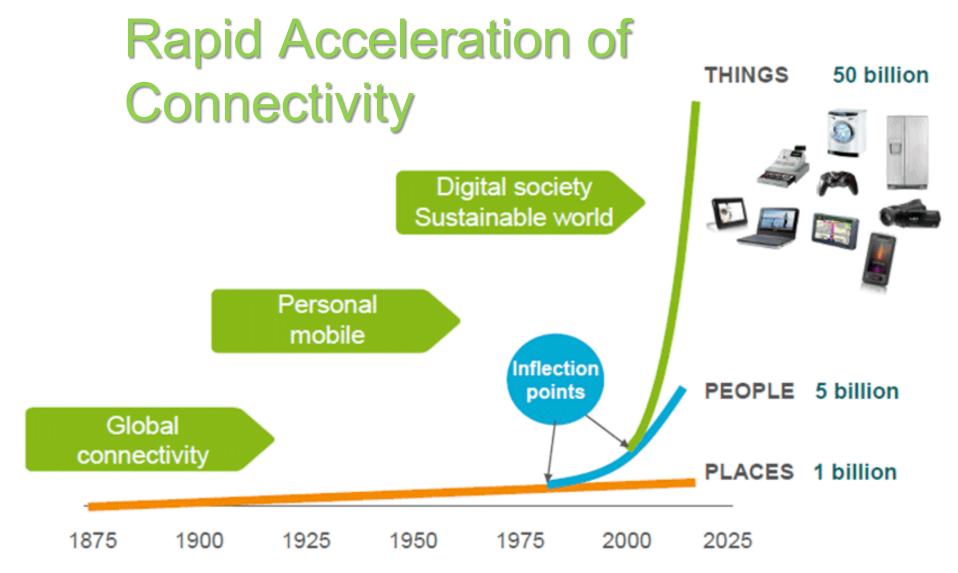
	September 2020*	August 2020	September 2019
United States	7.9	8.4	3.5
New York State	9.7	12.5	3.9
New York City	14.1	16.0	3.7
NYS, outside NYC	6.5	10.0**	4.1

<sup>\*</sup>Data are preliminary and subject to change.

<sup>\*\*</sup>Revised data.

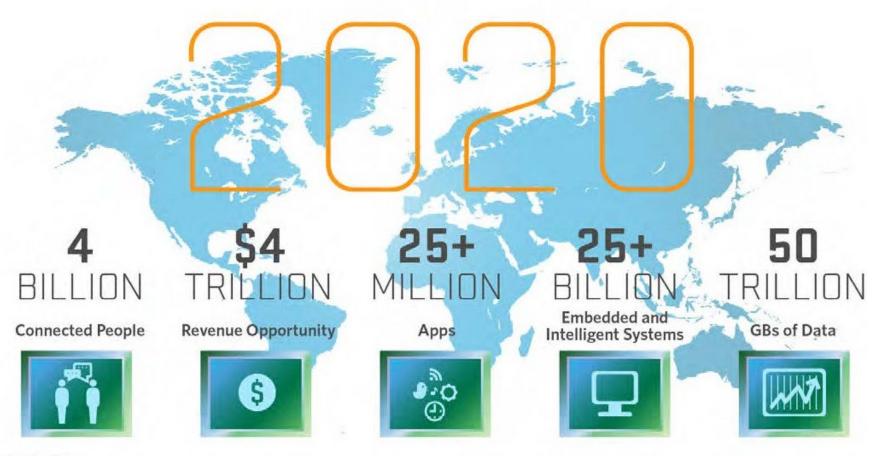
# The Future Exists Now -

It's Just Not Widely Distributed



Source: Ericsson AB, "Infrastructure Innovation - Can the Challenge be met?," Sept 2010

# Internet of Things (IoT)



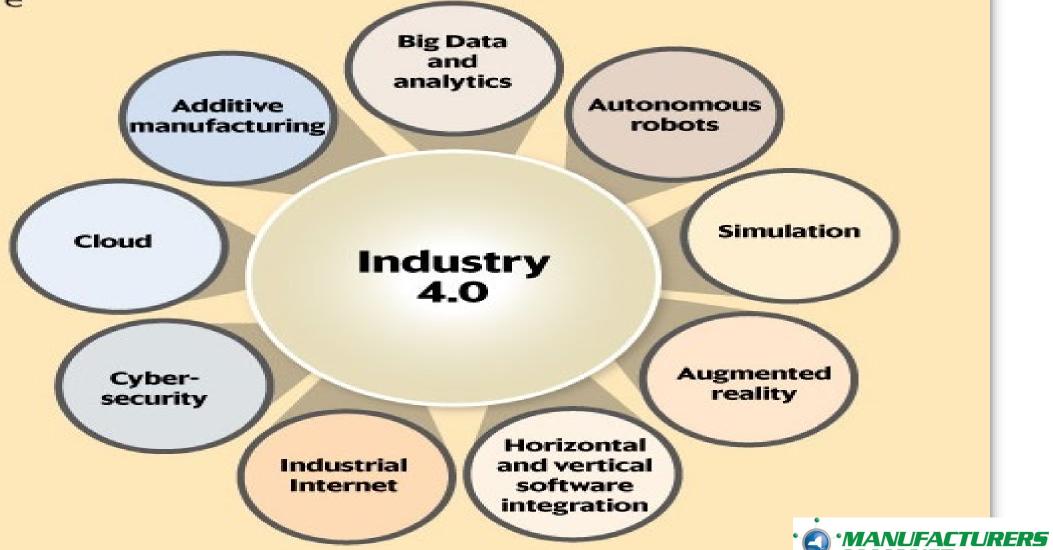
Source: Mario Morales, IDC

### **New-age production**

MACNY®
The Manufacturers Association
Est. 1913

. ALLIANCE of New York

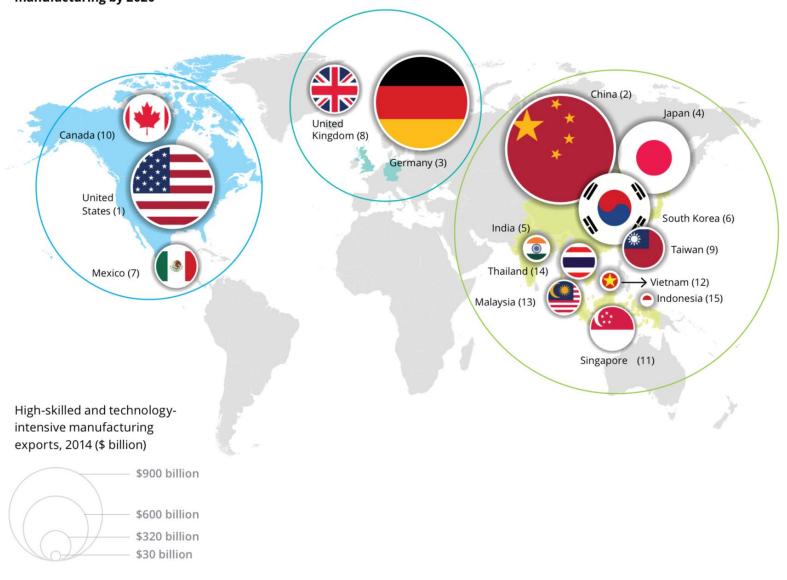
The nine technologies that will collectively drive production in the future



## **Top Ten Trends in Manufacturing**

- Workforce is Tech Savy and Diverse
- Manufacturing as Service
- IoT Explosion and 5G Assimilation
- Cyber Security
- Industry-University Collaboration
- Supply Chain Leveraging and Blockchain
- AR and VR Growth
- Data Analytics, Al and Machine Learning
- Shifting Focus from B2B to B2B2C
- Reshoring and Increase in Made in USA

Figure 5. A look at the global manufacturing competitiveness landscape: Top 15 nations projected to be the most competitive in manufacturing by 2020



Note: Figures in parentheses represent the projected 2020 GMCl rank by CEOs Source: Deloitte Touche Tohmatsu Limited and US Council on Competitiveness, 2016 Global Manufacturing Competitiveness Index

# Today!

## FACTORY OF THE FUTURE

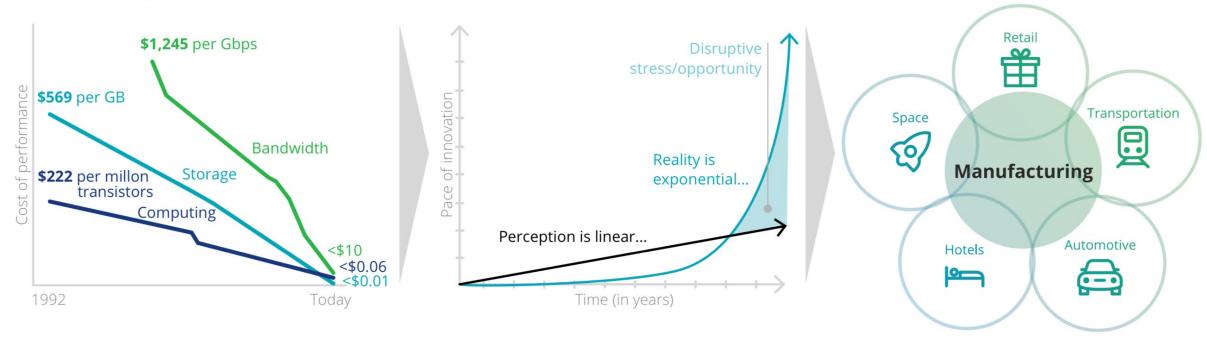


Figure 2. The pace of change is exponential, and manufacturers are not immune

Substantial cost reduction across computing power, storage, and internet usage have led to...

...exponential rate of change transcending industry barriers and national borders...

...which is creating opportunity & disruption across multiple industries...



Sources: Deloitte Insights, The rise of the digital supply network: Industry 4.0 enables the digital transformation of supply chains; Based on The Law of Accelerating Returns by Ray Kurzweil, The Age of Spiritual Machines

A persistent talent shortage is a major hurdle to the sustainability and growth of manufacturing companies. What are the reasons behind the shortage in manufacturing?



## Increasing Baby Boomer retirements:

2.7 million Baby Boomers in the US manufacturing industry are expected to retire during 2015-2025.8



### Shortage of qualified labor:

People in skilled trades, technicians, and engineers are the most difficult to recruit in the United States.<sup>9</sup>



## Changing skill sets needed for advanced manufacturing:

Companies are increasingly looking at workers with STEM skills—software engineers, process engineers, automated systems engineers, and supply chain engineers are a few key manufacturing job roles with a future.<sup>10</sup>



## Perceived attractiveness of manufacturing among public:

While the US public believe manufacturing is vital to the economy and the standard of living, many Americans are reluctant to choose careers in manufacturing.<sup>11</sup>

Many opportunities exist to attract and retain the best and brightest in manufacturing, especially with the dawn of Industry 4.0. Interviewed executives say that highlighting the future skill set that manufacturing will require, training and/or mentoring through new forms of apprenticeship and training models, and tapping into a more tech-savvy workforce and culture will help the industry become a destination of choice for top talent.

Figure 12. Addressing the manufacturing skills gap: Sharing the good news to attract and retain top talent

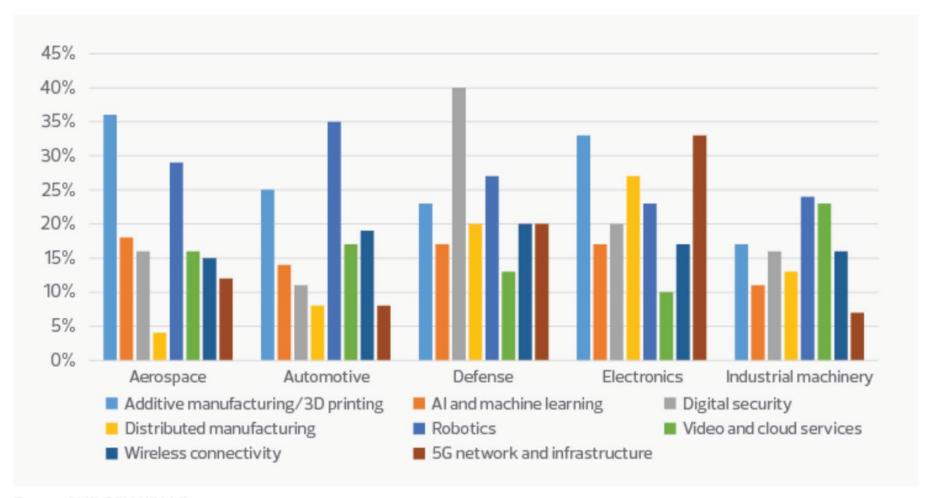


The virtuous cycle of improving the existing image and recruiting the best talent can help reshape the US manufacturing industry and better enable it to compete in these fast-paced, innovative, and transformative times.

## **Industry Leaders Are Investing In**

- Customer Connectivity
- Supply Chain Reinvention
- Talent and Culture
- Digital Assimilation
- Big Data and Analytics
- Enterprise Protection

### Investments that companies plan to make post-pandemic



Source: SME; RSM US LLP

### **107 Years of Service**



### WHAT IS MACNY DOING FOR YOU?

» Events and Learning Networks

» Workforce Initiatives

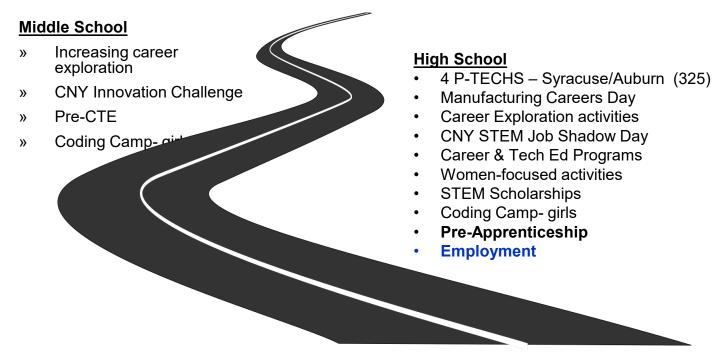
» Member Services

» Advocacy & Issues Coalitions



# **Every Job is Changing!**

## Our Pathways approach...



#### <u>Supports</u>

- Annual Awards Program- June 12
- MACNY Newsletter/Website
- CNY STEM Hub/CNY Tech Sector
- Mentoring/Career Coaching at all levels

#### Post-secondary/Career

- STEM Scholars Connection
- Internships
- Employment- JOB SIGNING DAY
- Apprenticeships

### **107 Years of Service**



### **NEW INITIATIVES**

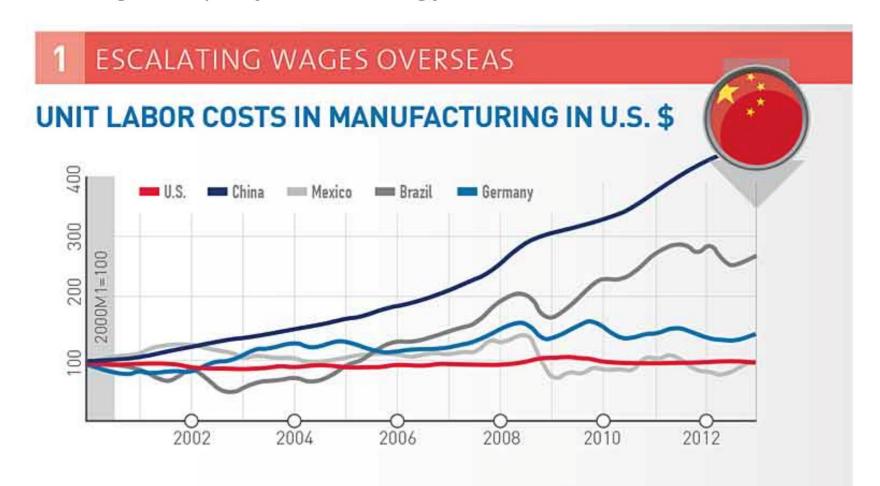
- » Individual Learning & Memberships
- » Leader Learning & Services
- » Digital Content Creation & Delivery
- » Workforce Solutions & Partnerships
- » Apprenticeships & Pre-Apprenticeships
- » Statewide Advocacy & Service Networks





### The Case for Reshoring

It's time to bring more quality manufacturing jobs back to the U.S.



As wages continue to increase overseas, particularly in China, it's becoming less cost effective to manufacture outside the United States.

Source: Oxford Economics/Haver Analytics

### **The Case for Reshoring**

It's time to bring more quality manufacturing jobs back to the U.S.



### **107 Years of Service**



# THANK YOU

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