Manufacturing Myths - Debunked!

THE TRUTHS ABOUT THE INDUSTRY TODAY -



Myth#1

U.S. manufacturing is in decline.



Truth

Employment, shipments, and exports are on the rise.



Myth#2

Manufacturing is a poor career choice.



Truth

Manufacturing is actually an excellent choice.





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Manufacturing is 11% of the U.S. GDP when narrowly defined by government statistics including only the value-added of manufacturing facilities

Longest continuous post-war

expansion of manufacturing

employment took place between

2010 and 2019 (prior to pandemic),

with modest but consistent gains.

Manufacturing is 1/3 of the U.S. economy when you include facilities **AND** everything they involve:

- Upstream raw materials
- and R&D centers







MANUFACTURING JOBS PROVIDE:



Employment for over 12 million people, as the 5th largest employment sector in the U.S.



Path to upward mobility, since more than 81% of jobs require no work experience for an entry-level position.



Manufacturing employs about 9% of the total workforce in the U.S. but almost 36% of all the engineers in the country.



More in benefits; earning 32% more in benefits per hour than employees in service industries.



7% more in salary than in service industries.

Salary Premiums paid to recruit qualified talent (as skilled machinists retire).



Stability, with lower turnover and higher tenure than overall private sector non-manufacturing jobs.



U.S. is 2nd largest manufacturer in the world, responsible for 17% of world manufacturing activity.

HOW THE MEP NATIONAL NETWORK HELPS

The MEP National Network™ contributes to the growth of U.S. manufacturing.



\$13 Billion

In **FY 2020** alone, the Network helped to

generate \$13 billion in new and retained sales and create or retain more than 105,000 jobs.



105,000 Jobs



\$127 Billion



Since its inception in 1988, the MEP National Network has helped generate over \$127 billion in new and retained sales and create or retain over 1.1 million jobs.

HOW THE MEP NATIONAL NETWORK HELPS



An event that showcases both modern manufacturing and the careers available, Manufacturing Day occurs the first Friday of every October and has attracted up to 325,000+ attendees annually across the 50 states and Puerto Rico. To facilitate industry growth, the MEP National Network hosts, coordinates, and promotes events for this occasion.

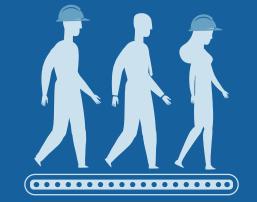
Myth#3

Automation will eliminate jobs.

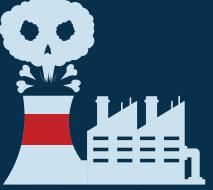


Truth

Jobs are changing, and new skills will be needed along with traditional expertise.



Manufacturing is harmful to the environment.



Truth

In manufacturing, sustainability = profitability.





"The evidence suggests structural unemployment will not increase due to automation." (Information Technology & *Innovation Foundation)*



"These disparate findings suggest that the main impact of automation in the near future may be to cause a major reallocation of jobs." (VoxEU.org/CEPR)

Jobs Displaced

by Automation:

75M

Job Growth in New Roles: (driven by new technology

133M

and automation)

One projection from 2018* says that by 2022, 133 million new jobs (worldwide) will be created, more than offsetting the 75 million displaced.

*Pre-Covid projection of global non-agricultural employment based on World Economic Forum survey



"Many manufacturers today are turning toward automation to supplement the low-skilled jobs they cannot fill and instead focus their existing workers on jobs that are either higher skilled or require uniquely human skills." (Deloitte and The Manufacturing Institute)



"Nearly 70% of manufacturers said they are creating or expanding training programs for their workforce." (Manufacturing Institute)



Automation helps the U.S. compete internationally, and the more successful it is, the more jobs will result.

manufacturing works:

Automation is changing the way

Reduced Labor — Tasks being automated

Increased Labor — Tasks that require humans

Jobs are increasing in:



- Problem Solving Adaptability
- - Creative Thinking



- + Data analytics
- + Al and machine learning specialists
- Software and application development

Myth#4



Cutting down on:



Raw Material

Consumption

Energy

Usage

THE ADOPTION OF LEAN MANUFACTURING MEANS:



Waste **Pollution**

Cost savings:

SUSTAINABILITY ALLOWS FOR:

Sustained success over time

Higher efficiency



Contributing positively to:

Workforce

Keeping the



Society

workplace healthier



Reducing energy consumption

Keeping air and



Energy management systems to optimize usage can save 30% of energy consumption

HOW THE MEP NATIONAL NETWORK HELPS



The New Mexico Manufacturing Extension Partnership helped Navajo Spirit, a manufacturer of Native American-inspired clothing, increase production and sales while creating jobs by integrating automation and retraining employees.

HOW THE MEP NATIONAL NETWORK HELPS



The Alaska Manufacturing Extension Partnership Center helped Port Chilkoot Distillery make their plant more eco-friendly, reducing waste and costs at the same time.







