

Creating New Manufacturing Capacity with SME Base



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**MEP • MANUFACTURING
EXTENSION PARTNERSHIP®**

<https://www.nist.gov/mep/mep-national-network>

NIST
**National Institute of
Standards and Technology**
U.S. Department of Commerce



MEP National Network



Centers located in all 50 states and Puerto Rico.



Public-private partnership with local flexibility.



Federal funds, state investments, and private sector fees cover services.



Market driven program that creates high value for manufacturers.



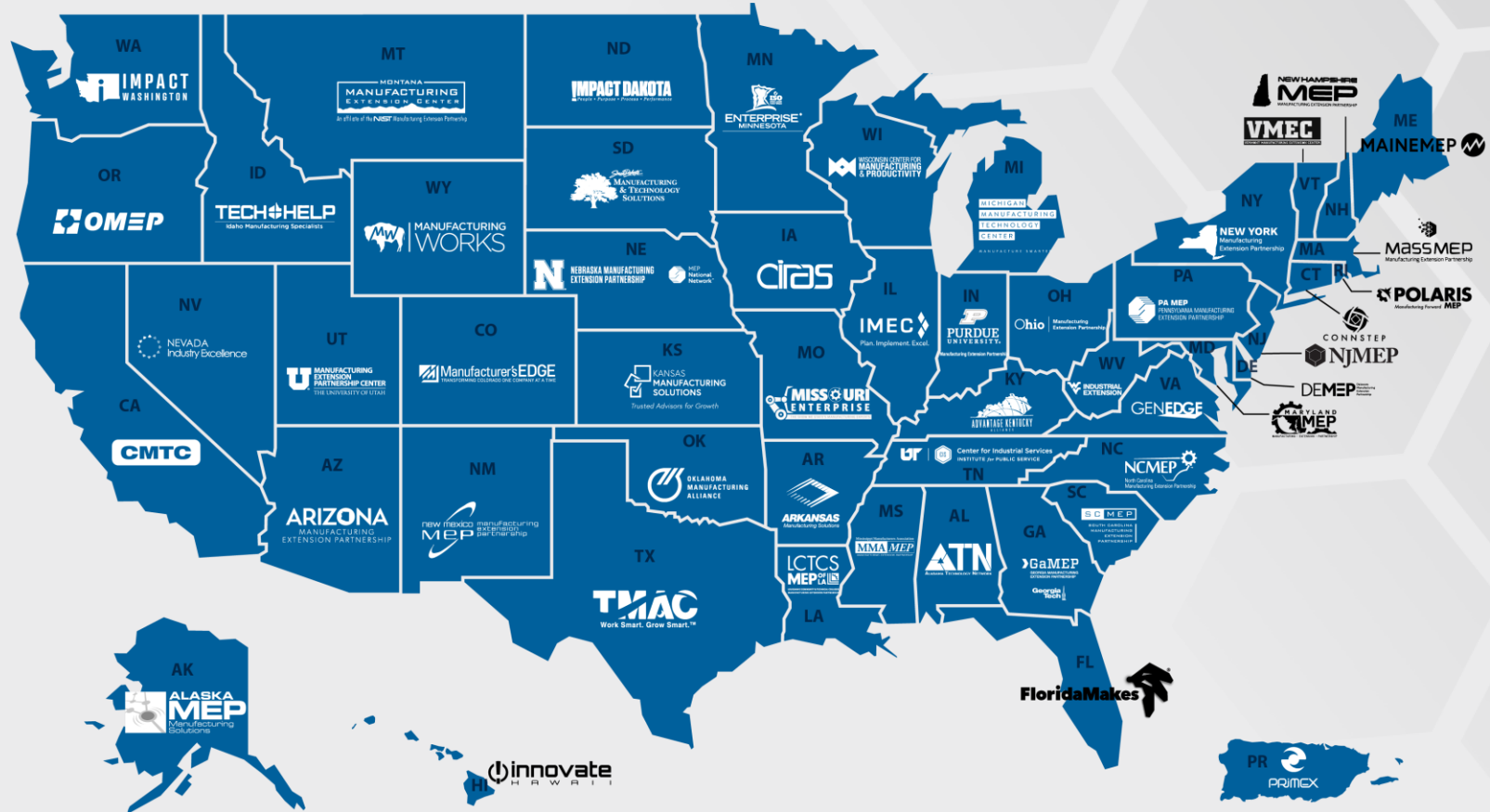
Leverage partners to maximize service offerings.



Transfer technology and expertise to manufacturers.



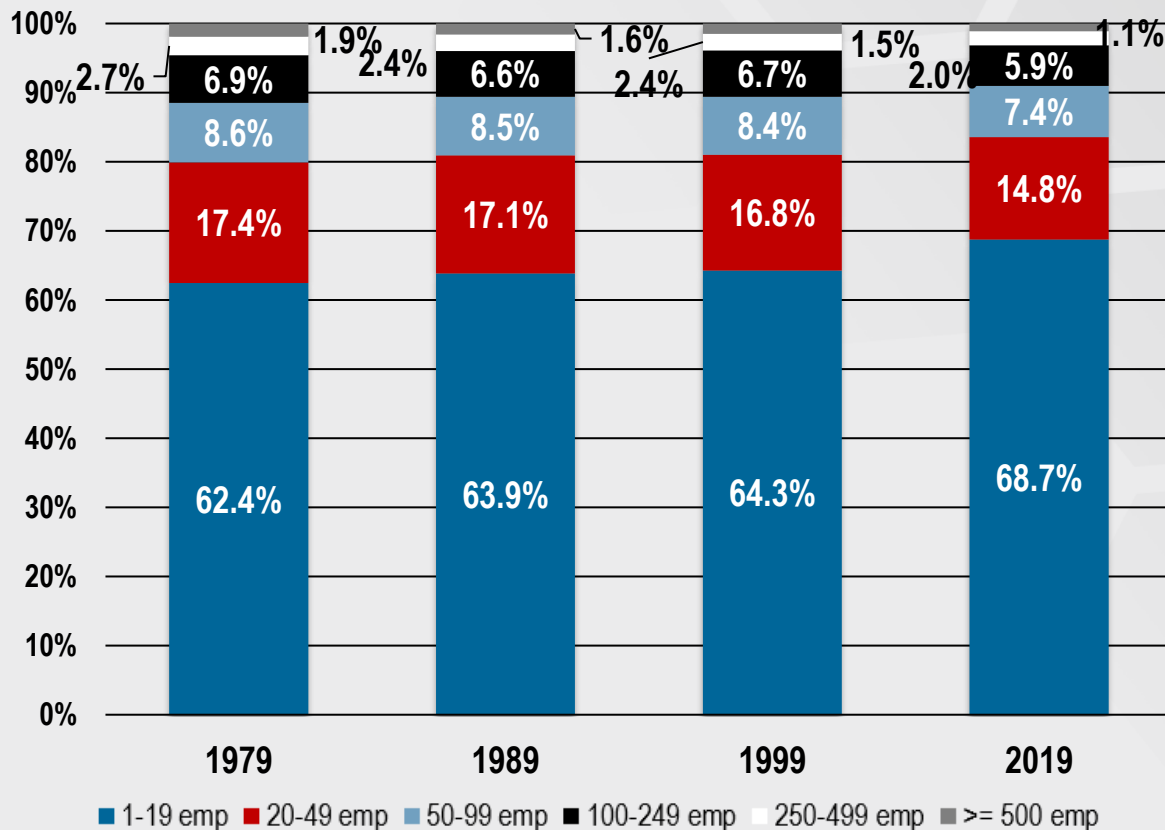
MEP National Network





Smaller Establishments:

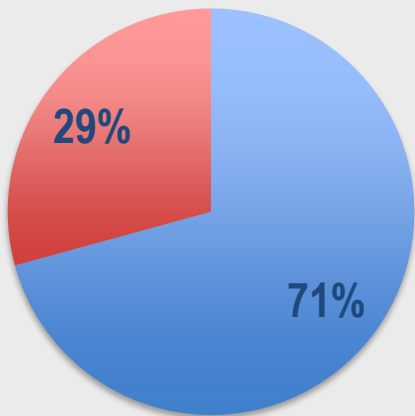
An Increasing Share of the Manufacturing Landscape





Small to Mid-Sized Manufacturers are Critical to Our Nation

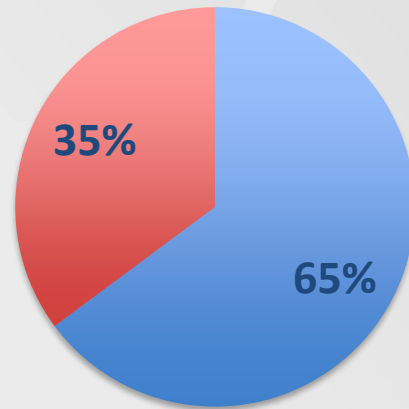
Manufacturing Employees by Size of Establishment



■ Establishments with 1-499 emp

■ Establishments with ≥ 500 emp

Annual Manufacturing Payroll by Size of Establishment



■ Establishments with 1-499 emp

■ Establishments with ≥ 500 emp



Workforce

Challenge/Need

- As many as 2.1 million manufacturing jobs will be unfilled through 2030 without strong action
- Worker shortage could cost the U.S. economy up to \$1 trillion by 2030
- Systems and resources that can support manufacturers are often not connected
- Unemployed and under-employed workers can help grow the industry
- Recruiting this untapped talent pool requires addressing systemic barriers

MEP Role

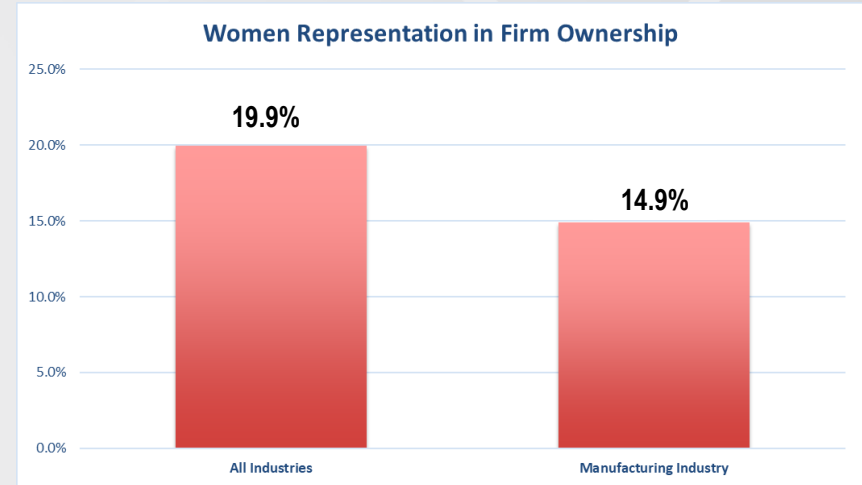
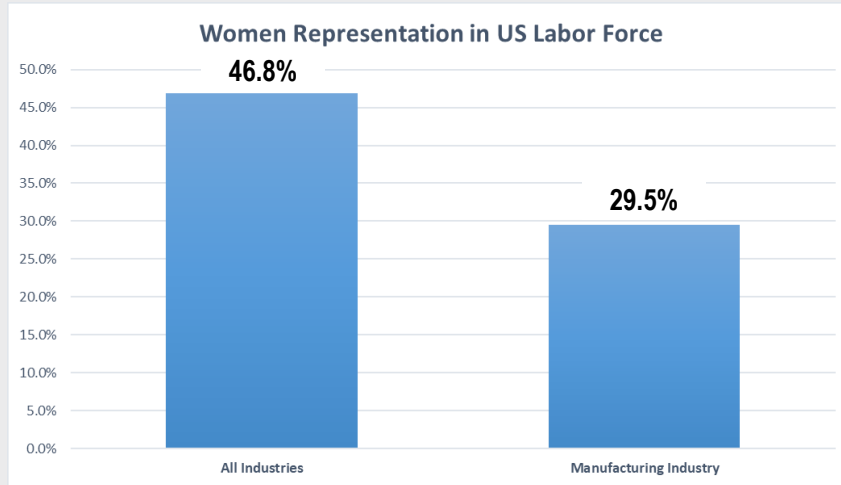
- MEP Centers will help manufacturers attract a new workforce to manufacturing, including women and other underrepresented groups
- MEP Centers will upskill the workforce to meet the technology needs of today and tomorrow

Opportunities

- Increase in manufacturers with upskilling programs
- Increase in attractiveness of manufacturing jobs to become careers of choice
- *Increase in women and other underrepresented groups in manufacturing jobs*



Challenge/Opportunity: Women are Underrepresented in Manufacturing





Supply Chain Challenges

- Several key drivers provide a unique opportunity **NOW** for the MEP program to develop and implement a nationwide, program-level approach to improving U.S. manufacturing supply chains
 - Global pandemic: sharp focus on U.S. dependence on global supply chains
 - National priorities identified by Administration: EO14017, EO14005, NDAA, Made in America Proclamation
 - Plethora of related bills introduced in Congress in 2021 (not yet signed into law)
- Significant U.S. domestic manufacturing base gaps exist, highlighting lack of resilience in manufacturing supply chains and undermining U.S. economic and national security and public health



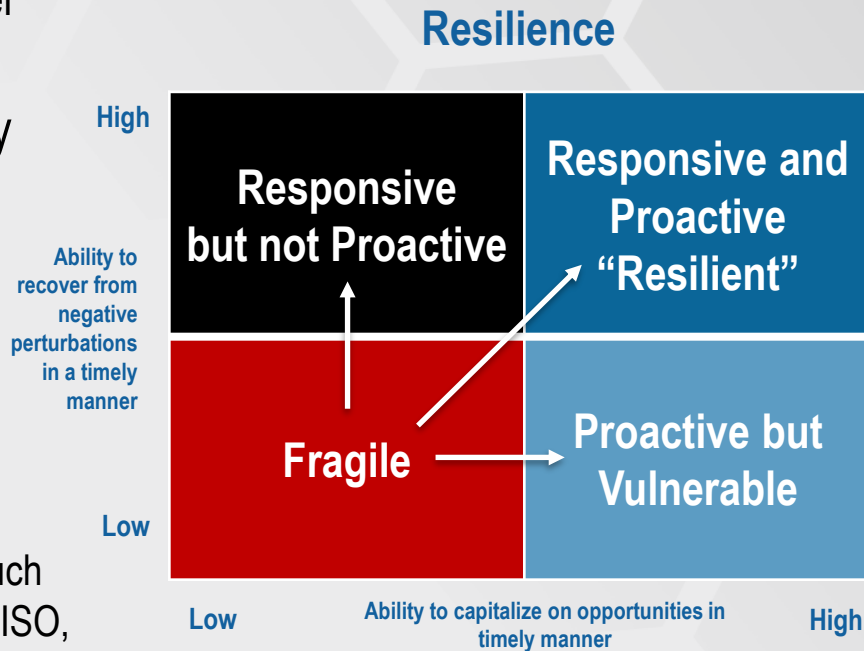
MEP Supply Chain Service Opportunities

MEP improves U.S. manufacturing supply chains so:

- U.S. supply chains will be more resilient at overall manufacturing level and at individual manufacturer level
- Key products, critical technologies (EO 14017) will be more effectively, comprehensively sourced domestically

Types of MEP Assistance:

- Supplier Scouting to ID sources of domestic supply for critical need supply chain items
- Re-shoring and exporting assistance
- Pivoting production
- Resilience
- Compliance with regulations and supply chain requirements such as cybersecurity (DFARS/CMMC), food safety (FSMA, GFSI), ISO, data exchange





In Closing...

- Small and medium-sized manufacturers are **critical** to our nation and economy.
- As the U.S. builds towards greater capacity for SMEs, workforce and supply chain issues present both challenges and opportunities for U.S. manufacturers.
- NIST MEP and the network of MEP Centers are in position to help small to medium-sized manufacturers overcome these challenges.



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