Welcome to MxD

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Exists To Increase U.S. Competitiveness
CONVENE the Ecosystem

ADVANCE Technology Innovation & Adoption

EMPOWER the Workforce
MxD Ecosystem
Collaborating to Drive Impact

DoD + Other Government
Manufacturers
Solution Providers
Academics
Non-Profits
The Makeup of the U.S. Manufacturing Industrial Base

239,607 U.S. MANUFACTURING FIRMS

178,210 Small Manufacturers
< 20 Employees

57,373 Medium Manufacturers
20 < Employees < 500

4,024 Large Manufacturers
>500 Employees

Source: https://www2.census.gov/programs-surveys/susb/tables/2020/us_state_6digitnaics_2020.xlsx
Manufacturing Industrial Base
Impact to Economy

A resilient manufacturing base is critical to economic prosperity and national security.

- **Contributes 24% of GDP**
- **Employs 9.6% of Workforce**
- **Compensation 8.8% Higher**
Manufacturing Industrial Base Is Facing Challenges

 Industial base is shrinking with 11% of the Smallest Manufacturers lost in 10 years

≈20k Lost

Since 2021, manufacturing is the top cybersecurity attacked industry

#1 Target

U.S. manufacturing jobs expected to go unfilled by 2030 due to a skills shortage

2.1M Gap
The DoD’s Challenges Align with Industry’s

The Organic Industrial Base (OIB) = 47 government-owned sites and thousands of facilities

**Need to modernize**

“The organic industrial base was designed and really implemented in World War II, and so what we have is really a 20th century capability to support a 21st century Army and joint force.”

General Edward Daly, AMC

MxD supports OIB Modernization by delivering:

- Assessments
- Pilot projects
- Roadmapping exercises
MxD Projects
Collaborating with Members to Address Industry Needs

mxdusa.org/projects
National Center For Cybersecurity In Manufacturing
Securing America’s Supply Chain

Awareness Building and Training
Cybersecurity Tools and Services
Cybersecurity Workforce Programs
Support Standards Compliance
Since 2021, manufacturing has been the top attacked industry, with ransomware accounting for 23% of the attacks of incidents at organizations with network connected operations technology (OT) were in the manufacturing industry. There has been a 2,204% increase in reconnaissance against industrial controlled operations technology and software accessible by the internet.
MxD Cyber Resource Hub
One-stop Resource for Cyber Content & Tools
mxdusa.org/cyber
The Need for Workforce Solutions

2.1 Million
U.S. manufacturing jobs expected to go unfilled by 2030 due to a skills shortage

70%
of surveyed DIB companies identified skilled workforce challenges as a significant impediment

187,862
or 75% of U.S. manufacturers employ 20 or fewer people, leaving them with limited resources

50%
of all employees will need reskilling due to adopting new technologies, by 2025
MxD Learn: Define, Develop, Do

**DEFINE**
Identify the Future of Work

**DEVELOP**
Create the Training Opportunities

**DO**
Provide Access to Hands-on Learning
MxD Learn
Virtual Training Center (VTC) Platform
Improving Access to Learning

mxdusa.org/vtc
Success in 5 years

Digitized and Secured
10,000 Manufacturers

Upskilled 1,000,000 Manufacturing Workers

Modern and Resilient
Organic Industrial Base
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