

## Welcome to MxD

Berardino Baratta MBE Summit April 16, 2024









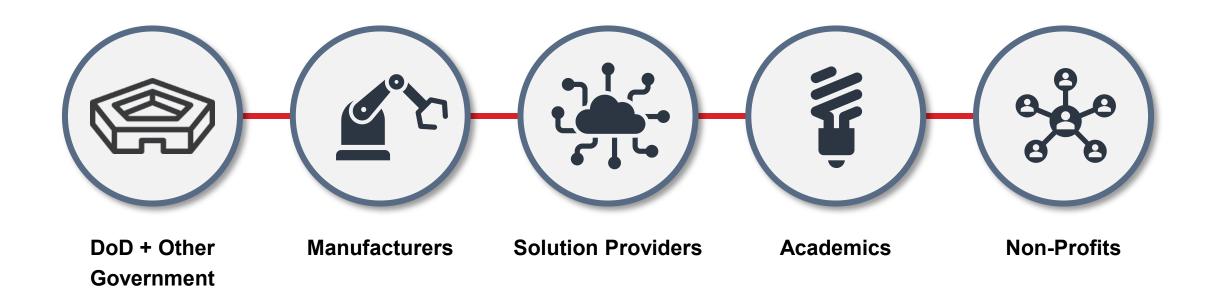


**CONVENE** the Ecosystem

**ADVANCE Technology Innovation & Adoption** 

**EMPOWER** the Workforce

## **MxD** Ecosystem **Collaborating to Drive Impact**





# 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

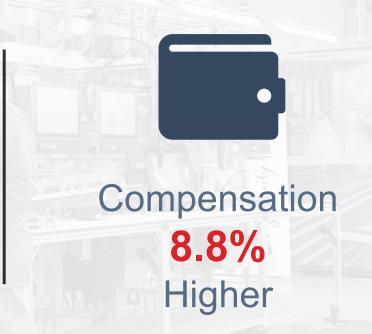
4,024 Large Manufacturers >500 Employees



## Manufacturing Industrial Base Impact to Economy







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

## **Manufacturing Industrial Base** Is Facing Challenges



### ≈20k Lost

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



## **#1 Target**

Since 2021, manufacturing is the top cybersecurity attacked industry



## 2.1M Gap

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



### 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:

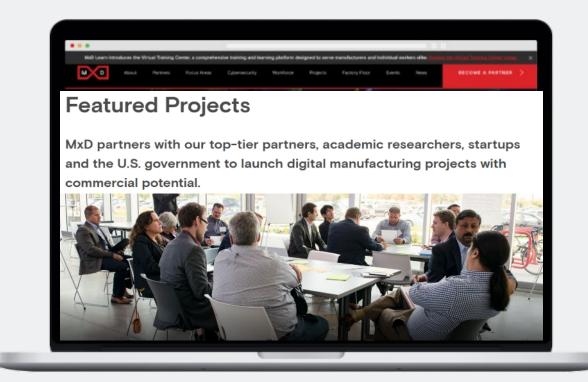
- Assessments
- Pilot projects
- > Roadmapping exercises



### **MxD Projects**

Collaborating with Members to Address **Industry Needs** 

10



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

## The Threat for Manufacturing Is Increasing

Since 2021, manufacturing has been the top attacked industry, with ransomware accounting for 23% of the attacks

61%

of incidents at organizations with network connected operations technology (OT) were in the manufacturing industry

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





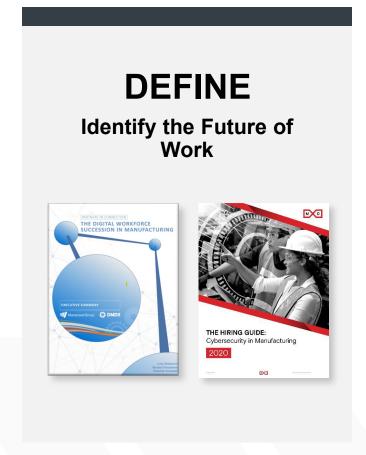
187,862 or 75% of U.S. manufacturers employ 20 or fewer people, leaving them with limited resources

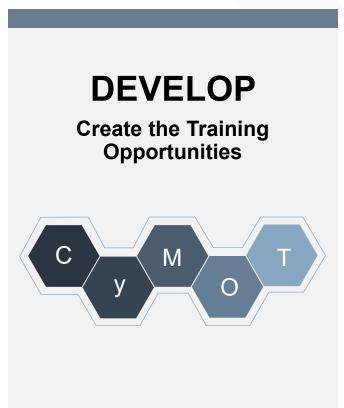
of all employees will need reskilling due to adopting new technologies, by 2025



## The Need for Workforce **Solutions**

## MxD Learn: Define, Develop, Do

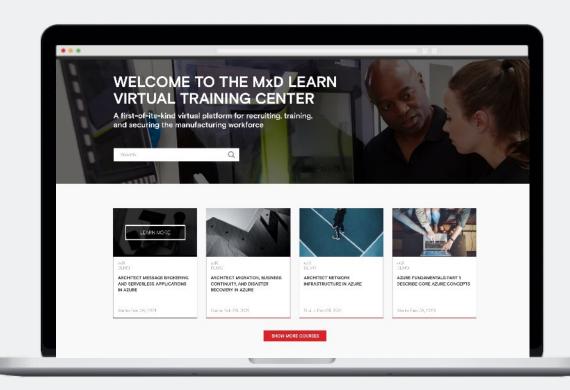






MxD Learn
Virtual Training Center
(VTC) Platform

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** 





# Keep up with all things MxD. Follow us!















/MxDInnovates