

Manufacturing Extension Partnership (MEP) National Network™

Key 2020 Initiatives

Visiting Committee on Advanced Technology
February 12, 2020

MEP National Network of Partnerships

Over
1,400



Manufacturing
Experts



85

Net Promoter
Score

Nearly

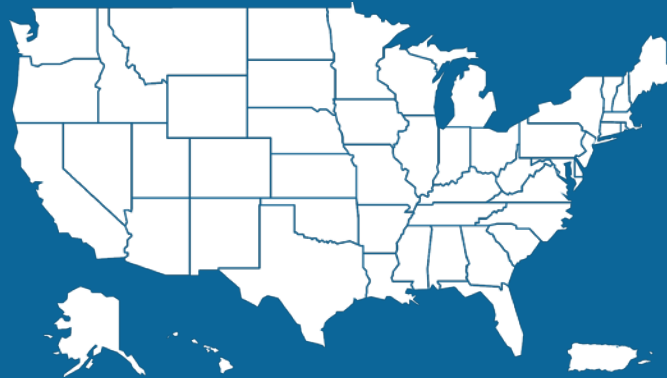
2,100



Service
Providers
& Partners

**NATIONAL
NETWORK**

One Center in
Every State and
Puerto Rico



Approx.

375

Service
Locations



60 NIST staff, plus **15** member national Advisory Board and **600** MEP Center Board members

MEP National Network FY 2019 Impacts



FY 2019 \$140M Plus \$155M Match

MEP National Network provided assistance to over 8,000 manufacturers.

114,650 JOBS Created or Retained

**\$15.7
BILLION** 
in New and
Retained Sales

**\$4.5
BILLION** 
in Total Investment in
U.S. Manufacturing

**\$1.5
BILLION** 
in Cost
Savings

Impact data collected by Fors Marsh (third party contractor) for NIST approximately 6-12 months after project completion.

Expand technical assistance in advanced manufacturing technology adoption- I

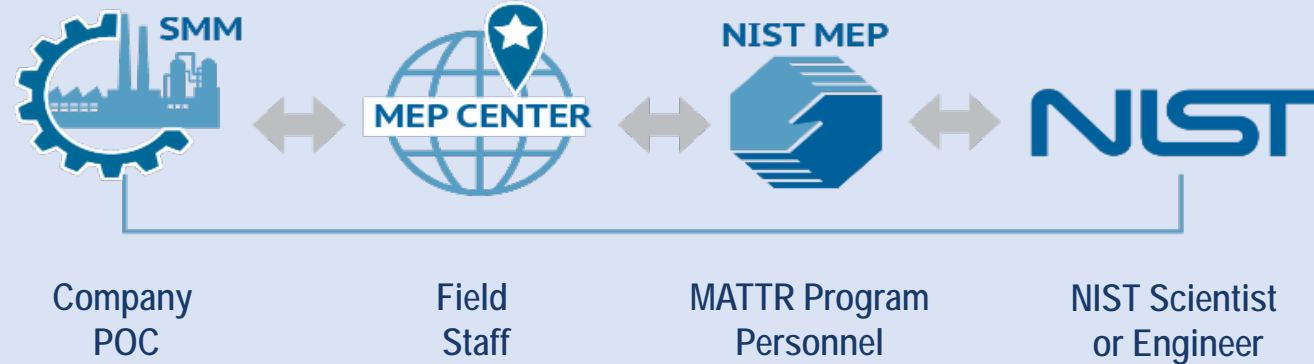
- **MEP Advanced Manufacturing Technology Services Notice of Funding Opportunity-** Build on embedding collaboration with MFG USA.
 - Focused on Industry/Manufacturing 4.0 technical assistance on state, regional or national scale.
 - Up to 3 MEP Center awards; up to \$3M total; with 4/1/20 start date.
- **MEP National Network Industry 4.0 Working Group**
 - Forum to share best practices to accelerate the development of capabilities and capacities for MEP Centers.
- **Additional Advanced Manufacturing Competitive Awards Program (CAP) initiatives**
 - Oregon MEP leading several MEP Centers to establish foundation of Industry 4.0 practice.



Expand technical assistance in advanced manufacturing technology adoption- II

MEP-Assisted Technology and Technical Resource (MATTR) enabling MEP clients to work with NIST labs

- Initiated one CRADA in 2019 and a second will be initiated this month.
- Continue \$500K investment.



- **Pursuing collaboration with American Association of Laboratory Accreditation (A2LA)**
 - MEP Centers to provide support to SMM's measurement science needs; assist and accelerate in technology adoption.

Expand national cybersecurity awareness campaign for SMMs

- Requirement in 2020 National Defense Authorization Act (NDAA) for DOD to consult with MEP program to provide education, guidance and technical assistance to SMMs to assist in meeting cybersecurity requirements.
- Engage NIST ITL and National Network of MEP Centers to provide cybersecurity Assistance.

Focus on assisting small defense manufacturing suppliers

- 30+ Awareness events nationwide with over 3,500 attendees; Over 100,000 downloads of Handbook 162.
- Work with DoD on MEP assistance with Cybersecurity Maturity Model (CMMC) implementation by DoD contractors.

Cyber for Defense Manufacturers Projects

- Funding from Office of Secretary of Defense.
- 10 companies selected for hands on technical assistance and assessments.
- 2 use cases provided to NIST Labs for development of Cybersecurity Framework (CSF) Manufacturing Profile Implementation Guidance.

National MEP Center
effort to participate in
cybersecurity awareness
campaign

MEP National Network Food Safety Compliance Services Help: Lower risk of product recall and focuses on preventative controls

Food and Drug Administration MOU signed in 2019

- Assist MEP Centers in addressing client food safety requirements
- Provide food safety technical assistance to help SMMs comply with safety requirements
- Strengthen food processing innovation and culture in the U.S.

Food Safety Preventative Control Alliance MOU signed in 2018

- Access to industry associations, academia and other major food safety experts
- Provide Centers tailored access to food safety certification curriculum
- Provides all Centers appropriate expertise to serve SMMs

Global Food Safety Initiative MOU signing in 2020

- Assist Centers in understanding and building capability to help SMMs with non-regulatory food safety and quality requirements
- Aligns appropriate Center services such as Lean to address non-regulatory requirements

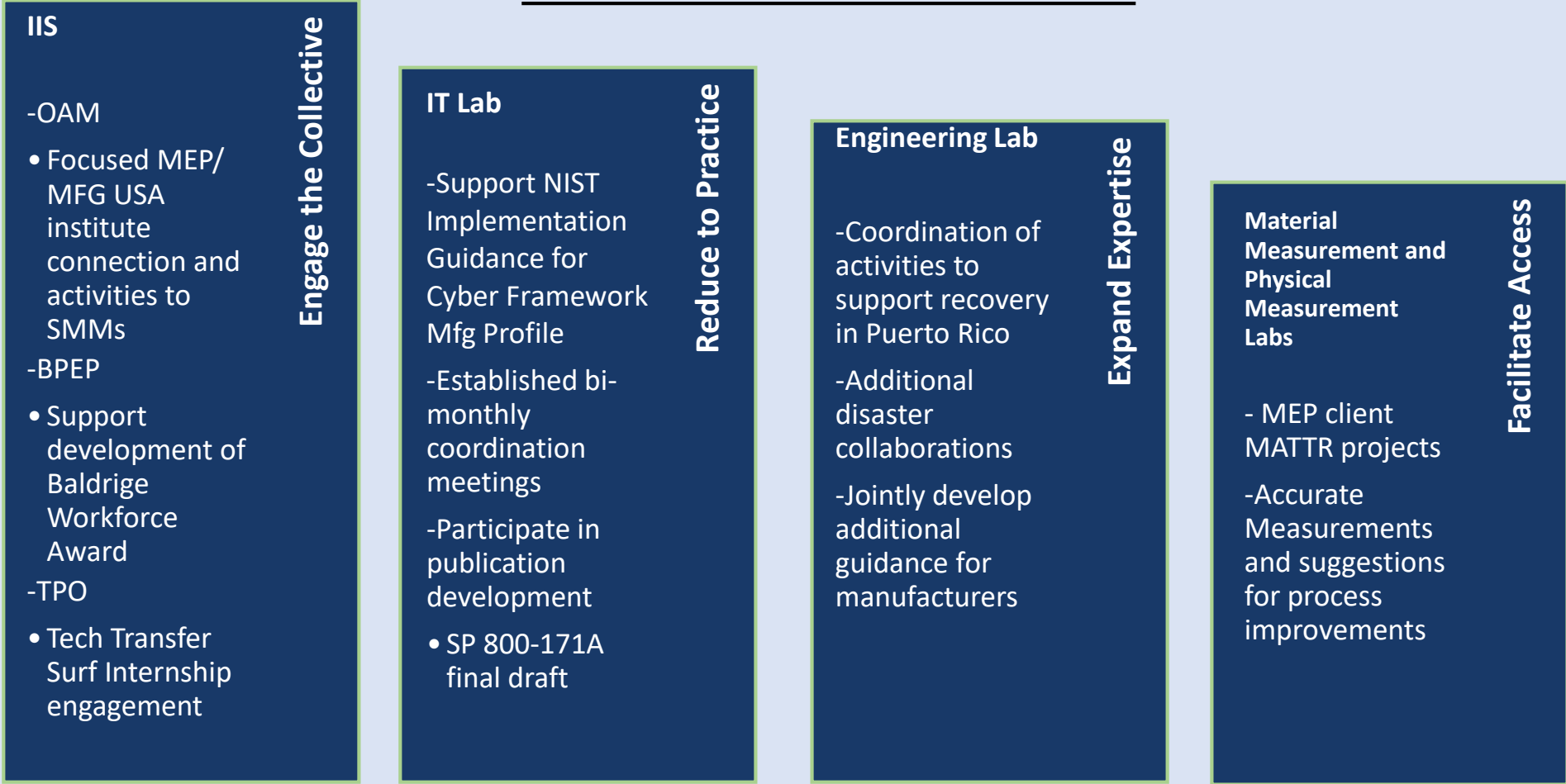
Successful Projects Turn Into National Opportunities

- ❖ Office of Naval Research (ONR) “401 Tech Bridge” in Rhode Island MEP (Polaris) brought industry, academia, foundations, and federal and state governments together to support tech transfer to small and medium-sized manufacturers in the Tech Bridge model.
- ❖ GENEDGE (Virginia MEP) work with SMMs helping address production problems to improve the production of aircraft carriers on a Navy Shipbuilding project with NAVSEA.

Follow on national partnerships:

- ONR and MEP now developing a national Memorandum of Understanding (MOU) to integrate several MEP Centers into Tech Bridge activities; targeting- CA, FL, IN, RI, SC, WA.
- NIST MEP coordinating effort with Centers- Impact Washington (WA MEP) performing study to help establish consortium of industry, government, and educational partners focused on materials innovation support for Navy.

Internal NIST Collaborations



2020 MEP Staff Move Back to Renovated Bldg 301

Transition NIST MEP staff to renovated building 301 office space with minimal productivity interruption.

- To date NIST MEP staff have been away from their workspace in Building 301 for 16 months.
- MEP Move Committee formed to help staff prepare for and make an orderly transition back into MEP-designated office space.
- Anticipated to move back into a renovated workspace within Building 301 in Fall of 2020.
- MEP staff is very grateful to the OneNIST spirit of OFPM and AMD leadership, and entire Incident Response Team for managing the process and successfully speeding up MEP move back to office space by at least 2 years!
- MEP staff is equally thankful to EL, PML, GMD, OAM, TPO and all the NIST staff around NIST for allowing us to hotel in their spaces for what will eventually be 2 years.



NIST MEP Workspace, Building 301

Thank You