



MEP Advisory Board

Tuesday, March 7, 2023
Wednesday, March 8, 2023

FACA Board Meeting

This is a simplified version of the presentation for website purposes.
A full version may be requested by emailing Cheryl.Gendron@nist.gov



FACA and the Advisory Board

- The MEP Advisory Board is authorized under Section 3003(d) of the America COMPETES Act (Pub. L. 110–69), as amended by the American Innovation and Competitiveness Act, Public Law 114–329 sec. 501 (2017), and codified at 15 U.S.C. 278k(m), in accordance with the provisions of the Federal Advisory Committee Act, as amended, 5 U.S.C., App.



Welcome and Introductions

- **Pravina Raghavan**, MEP Director
- **Secretary Gina Raimondo**, U.S. Department of Commerce
- **Matthew Newman**, MEP Advisory Board, Chair
 - Welcome New Members
 - **Sean Ketter**, Oshkosh Corporation, *Wisconsin, Feb 2023*
 - **Tyrome Smith**, Common Mission Project, *Maryland, Feb 2023*
 - Welcome MEP Advisory Board Special Guests
 - **Beth Bafford**, Calvert Impact Capital, *Washington, DC*
 - **Gail Friedberg Rottenstrich**, ZAGO Manufacturing Co. *New Jersey*
 - **Louis Foreman**, Eventys Partners, *North Carolina*
 - **Michael Garvey**, M-7 Technologies, *Ohio*
- Review the Agenda



Welcome from Board Chair

Chair: **Matthew Newman**, New Era Advisors, Inc.

Vice Chair: **Bernadine Hawes**, Econsult

Don Bockoven, Fiber Industries LLC

Miriam Kmetzo, Welding Technology Corp

Mitch Magee, Consultant

Chris Mathews, National Custom Hollow Metal Doors and Frames
& Maple Leaf Awning & Canvas

Pat Moulton, Vermont State Colleges Workforce Division

Annette Parker, South Central College

George Spottswood, Quality Filters, Inc



Day One Agenda

Tuesday, March 7, 2023

Welcome and Introductions

Briefing from Associate Director of Innovation and Industry Services,

Mojdeh Bahar

MEP Director's Update

2023-2027 MEP Strategic Plan Overview and 18-month Metrics

Welcome/Brief on Information Technology & Innovation Foundation,

Rob Atkinson

2023 Working Groups

Day One Wrap Up

With Dr. Laurie Locascio, NIST Director & Under Secretary for Standards and Technology



Day Two Agenda

Wednesday, March 8, 2023

- Welcome Back
- MEP Expansion Awards Strategy
- Recognize New Board Leadership
- Public Comments
- Meeting Wrap Up



Briefing from Associate Director of Innovation and Industry Services

Mojdeh Bahar

Associate Director,

Innovation and Industry Services, NIST



Briefing from ADIIS

- DOC, NIST and Innovation and Industry Services
- Go-To Resources for U.S. Manufacturing
- CHIPS and Science Act and NIST



NIST is part of the US Department of Commerce

The Hollings **Manufacturing Extension Partnership (MEP)** is one of four Innovation and Industrial Services programs at NIST.

DOC's Mission:
To create the conditions for economic growth and opportunity.

Innovation and Industry Services Programs

- **Manufacturing Extension Partnership (MEP)**

- 51 Centers, one in each state and Puerto Rico, with 1,400 manufacturing experts to assist small and medium manufacturers (SMMs) on various areas such as automation, cybersecurity, workforce development and supply chain scouting and resiliency.
- MEP assists the federal government agencies and private sector entities in finding suppliers and assist SMMs to pivot into new sectors.
- MATTR+ allows for small and medium manufacturers to access to NIST labs and their world-renowned scientist to solve technology problems effecting manufacturers.

Technology Partnerships Office

- Structures collaborative relationships between NIST researchers and external partners
- Manages the NIST Small Business Innovation Research (SBIR) program
- Provides R&D related economic analysis
- Administers and hosts the Federal Laboratory Consortium

Office of Advanced Manufacturing

- Manufacturing USA Program Office - coordinates program of 9 Federal agencies and 16 Advanced Mfg. Innovation Institutes
- Manages NIST NIIMBL institute on biopharmaceutical manufacturing
- Manages NIST extramural advanced manufacturing programs, including current Technology Roadmaps
- Manages Advanced Manufacturing Pandemic Response Projects - \$150 million on 45 high impact projects
- Coordinates Advanced Manufacturing for National Science and Technology Council

Baldrige Performance Excellence Program

- Maintains and promotes the use of the Baldrige Excellence Framework and Criteria for Performance Excellence
- Manages the Baldrige Award, the highest level of recognition for quality and performance excellence in the nation
- Supports and encourages performance excellence in all sectors
- Supports nationwide network of state/regional programs
- Provides assessment tools and educational offerings, including the annual Quest for Excellence conference, the Baldrige Executive Fellows Program, and the Job Quality Toolkit

Go-To Resources for U.S. Manufacturing

MEP Focus: Primarily one-on-one interactions between MEP Centers and SMMs in their states

- **Business Practices:** Lean and Continuous Improvement, Quality Management, Sustainability, Business Growth Services, Financial Services, Supply Chain services, and Risk Management
- **Technical Services:** Engineering services/plant layout. Cybersecurity and information Services, Advanced Manufacturing/Industry 4.0, Product Development support, Process Integration
- **Innovation Ecosystem:** Go-to resource for building manufacturing communities within states
- **Workforce:** Talent planning, customized skills training, including apprenticeships & industry recognized certifications, connections with states and local resources

MFG USA Focus: Large-scale collaborations with multiple organizations working together on R&D innovation projects

- **Advanced Manufacturing:**
 - Develop specific new and innovative manufacturing technologies
 - Scale-up new manufacturing technologies to produce new products and processes across entire industry sectors
- **Innovation Ecosystems:**
 - Spur creation and expansion of local and regional technology ecosystems
 - Work across the national innovation ecosystem to strengthen manufacturing
- **Workforce:** Strengthen workforce pipeline in specific technologies

Manufacturing USA Network



Digital
Manufacturing
& Design
Chicago, IL



Bio-industrial
Manufacturing
& Design
Ecosystem
St. Paul, MN



Sustainable
Manufacturing
Rochester, NY



Integrated
Photonics
*Albany, NY
Rochester, NY*



Regenerative
Manufacturing
Manchester, NH



Advanced
Fibers and
Textiles
Cambridge, MA



Flexible Hybrid
Electronics
San Jose, CA



Clean Energy
Smart
Manufacturing
*Los Angeles,
CA*



ManufacturingUSA®



Modular
Chemical
Process
Intensification
New York, NY



Bio-
pharmaceutical
Manufacturing
Newark, DE



Lightweight
Metals
Detroit, MI



Cybersecurity
*San Antonio,
TX*



Additive
Manufacturing
*Youngstown, OH
El Paso, TX*



Advanced
Composites
*Knoxville, TN
Detroit MI*



Advanced
Robotics
Pittsburgh, PA



Wide Bandgap
Semiconductors
Raleigh, NC

CHIPS for America Incentives

\$39 billion for manufacturing

- Incentivize expansion of manufacturing capacity for semiconductors
- Attract large-scale investments in advanced technologies such as leading-edge logic and memory
- Advance U.S. technical leadership
- NDAA Section 9902

\$11 billion for R&D

- National Semiconductor Technology Center
- National Advanced Packaging Manufacturing Program
- Manufacturing USA institute(s)
- National Institute of Standards and Technology measurement science
- NDAA Section 9906

Together with
CHIPS
initiatives from
other agencies,
including DOD,
State, NSF,
and Treasury

Workforce development

Note: These funds were appropriated by Congress through CHIPS..

CHIPS and Science Act: NIST

National Institute of Standards and Technology Authorization (\$9 billion total, +\$4 billion over baseline)

Support Critical Technology Research and Standards	Advances research and standards development for industries of the future, including quantum information science, artificial intelligence, cybersecurity, advanced communications technologies, and semiconductors.
Strengthen Small Manufacturers	Triples funding for Manufacturing Extension Partnership , to support small- and medium sized manufacturers with cybersecurity, workforce training, and supply chain resiliency (\$2 billion total)
Combat Supply Chain Disruption	Leverages the Manufacturing Extension Partnership to create a National Supply Chain Database , to assist the businesses with supplier scouting and minimizing supply chain disruptions (\$131 million total)
Grow Manufacturing USA	Supports the creation of new competitively-awarded manufacturing research institutes with expanded capacity for education and workforce development (\$829 million total)
Promote Competitiveness in International Standards	Expands interagency coordination and information exchange activities to support private sector engagement and ensure effective Federal engagement in the development and use of international standards

Note: Five-year authorization figures; not appropriation figures.



Job Quality Toolkit

Job Quality Toolkit was developed by the NIST Baldrige office with support from DOC.

The [Job Quality Toolkit](#), rooted in the [Baldrige Excellence Framework](#), is tool that organizations can use to improve the quality of the jobs they offer.

MEP support will include:

- NIST MEP website
- A NIST MEP Infographic for Centers to brand and post to their website
- Information webinars for Centers
- Development of an on-line self-assessment for companies that will align with the JQT



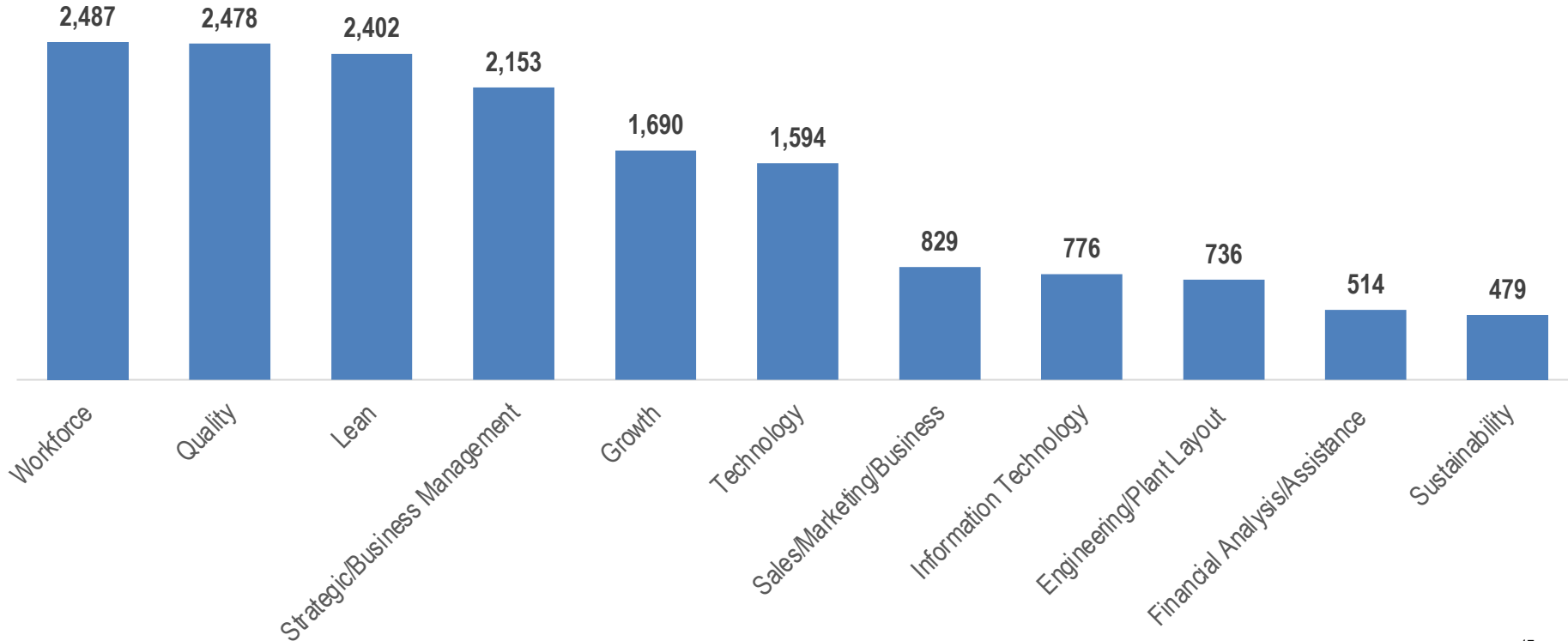
FY22 Impact Survey Results

- Over 116,700 jobs created or retained
- \$18.8 Billion in New and Retained Sales
- \$6.4 Billion in Total Investment in US. Manufacturing
- \$2.5 Billion in Cost Savings

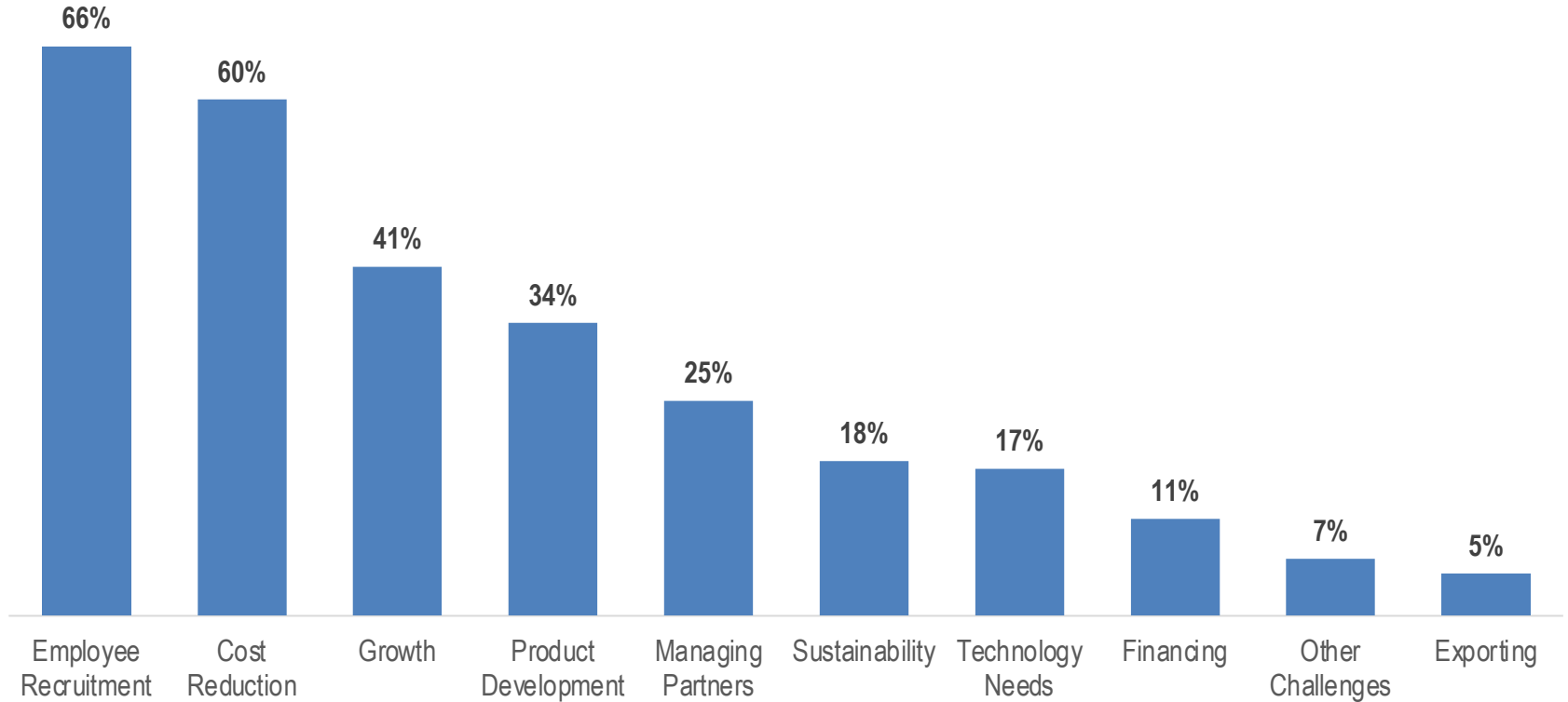
Results are based on FY 2022 MEP National Network Client Impact Survey (over 9,100 surveys completed)

FY22 Top MEP Projects

Last year, MEP Centers worked with **more than 10,200** manufacturers on **over 16,100** projects.



FY22 Manufacturer Challenges Reported



National Programs: Leveraging Technology & Empowering Manufacturers

Food Industry Services

FY22 MEP Center Sample as of Feb. 2023

- 45 Webinar presentations
- 403 Projects
- 717 Workshops/Training Sessions

Cybersecurity

- ~50% of projects help DOD contractors and subs
- 140% increase since 2020
- 705 projects completed in FY22

New Partnerships

- 4 MFG USA Institutes
- 6 Universities
- 7 Federal Labs
- 9 Federal Agencies
- 7 Other Stakeholders (e.g., NEMA, ACS, MRS)
- 7 NIST Lab Divisions within 6 OUs.

Industry 4.0

- 2,699 projects FY15-FY22
- \$501.9M New/Retained Sales
- 3 AMTS Projects completed
- MEP-MxD MOU

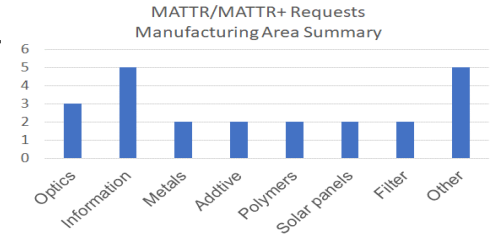
ExporTech (2006 to present)

- ~80 clients/yr
- \$469K avg sales inc./retain
- \$93K avg savings
- \$623 Million in total program sales
- 6 new jobs per company

OEM Engagement

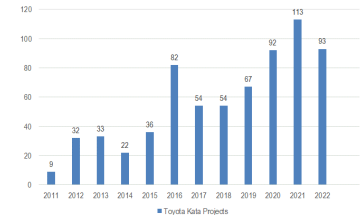
- Semiconductor (Intel, NXP, Applied Materials)
- Food (Whole Foods)
- Medical Devices (Stryker, Medtronic, Baxter, Edwards S.)
- I4.0 (Rockwell)
- Aerospace (Boeing)

MATTR/ MATTR+ Sectors Served



Toyota Kata FY22

- 10 Projects/yr Increase
- 93 Projects FY22
- \$514K saved per client



Targeted Industry Sectors

- Semiconductor
- Clean Energy
- Electric Vehicles
- Space Sector
- Medical Devices
- Biomanufacturing



Supplier Scouting

CY2021 Supplier Scouting Metrics

- **118** opportunities scouted
 - **3** opportunities from **2** federal agencies
 - **115** opportunities scouted for MEPNN
- **20** industries served
- **43** manufacturing processes
- **397** matches submitted by MEP Centers
- **\$130** million business opportunities

CY2022 Supplier Scouting Metrics

- **155** opportunities scouted
 - **65** opportunities from **8** federal agencies
 - **90** opportunities scouted for MEPNN
- **19** industries served
- **33** manufacturing processes
- **98** matches submitted by MEP Centers
- **\$33.9** million business opportunities

FY 2022 Center State Competition

Notice of Funding Opportunity

One: Complete

- Kentucky and South Dakota awarded to new host organizations
- Nebraska, Rhode Island awarded to incumbent hosts
- All awards started on Jan. 1, 2023

Notice of Funding Opportunity Two

- Arizona and Maryland with service to Washington, DC
- Selection process is complete
- Awards to be announced April 2023 for July 1, 2023 start



MEP Economic Impact Analysis

In February 2023, *Summit Consulting* and the *W.E. Upjohn Institute for Employment Research* completed a study that found the MEP Program generated a **substantial return on investment** of nearly **18.1:1** for the **\$158 million** invested in FY 2022 by the federal government.

JOBS
269,373

GDP
\$29.9 Billion

**RETURN ON
INVESTMENT**
18.1:1



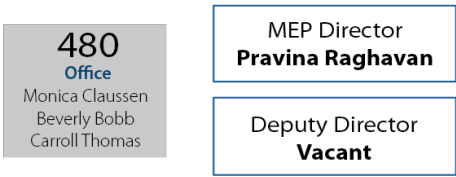
Strategies for NIST MEP From Strategic Plan FY 23-27

To execute and continue to build on the four strategic foundational pillars, the NIST MEP will:

- Recast and adapt its operations, policies, processes, practices, and structures
- Expand partnerships and strategic
- Develop its knowledge and learning capabilities and leverage its convening
- Build the MEP brand, messaging, and marketing reach



NIST MEP ORG CHART



481 Network Agreements Management	482 Performance Evaluation and Economic Impacts	483 National Programs	484 National Platforms	485 Outreach and External Affairs	486 Internal Operations
<p>Kevin McIntyre, Chief Adrienne Montague (481, 485)</p> <p>A Group (481.01) Nadine DeJesus, Group Manager Scott Dockum (NE) Tom Williams (NE) Hope Snowden (MW) Gerson Santos-Leon (MW) Gloria Solomon (M) Tony Mastalski (M)</p> <p>B Group (481.02) Mellissa Ayala, Group Manager Sekou Johnson (SE) Craig Reid (SE) Brooke Linehan (E) Andrew Nobleman (E) Julia Shriner (W) Anita Balachandra (W) <i>(On Detail)</i></p> <p>Competitions Sheena Simmons</p>	<p>Mark Schmit, Chief Megan Spangler (482, 484)</p> <p>Performance Metrics and Evaluation Steve Campbell, Group Manager <i>(On Detail with Div. 484)</i> Megean Blum Kim Coffman Missy Davis Diane Henderson Holly Jackson</p> <p>Center Business Intelligence Nico Thomas</p> <p>Data Analytics</p> <p>State Relations</p>	<p>Jyoti Malhotra, Chief Carol Shibley (483, 486)</p> <p>Food Cybersecurity Industry 4.0 MATTR/MATTR+ Semiconductors <i>Includes other MEP programs</i></p> <p>Jose Colucci-Rios Doug Devereaux Anthony Diaz <i>(On Detail with Div. 485)</i> Brian Lagas Dimitrios Meritis <i>(On Detail)</i> Celia Paulsen <i>(On Detail)</i> Andrew Peterson Kim Pinckney Michael Taylor Marlon Walker</p>	<p>Steve Campbell, Acting Chief</p> <p>Network Knowledge Management Workforce</p> <p>Ben Vickery, Group Manager Wiza Lequin</p> <p>Supply Chain Samm Webb Robert Barnes</p>	<p>Anthony Diaz, Acting Chief</p> <p>Legislative Affairs</p> <p>Press and Public Relations</p> <p>Social Media and Communications Nicole Ausherman Katie Rapp Jennifer Rosa <i>(On Detail)</i></p> <p>External Events/FACA Cheryl Gendron</p>	<p>Heather Mayton, Chief</p> <p>Program Compliance and Audit</p> <p>Budget</p> <p>Finance Tricia Faccione Autumn Hernandez Monyelle Mingo</p> <p>IT Kathy Martin Justin Mocca Bryan Wade (OISM)</p> <p>HR Facilities</p> <p>Front Desk Michele Montgomery</p>

MEP Program Budget Outlook

FY 2022

Appropriation Status

- \$158 million for MEP
- Funding not subject to cost share requirements (elective for Centers receiving state funds conditioned on federal cost share requirement)

FY 2023

Appropriation Status

- \$175 million for MEP
- \$13 million in Disaster Supplemental
- Funding not subject to cost share requirements (elective for Centers receiving state funds conditioned on federal cost share requirement)

NIST MEP Projected Spend Plan Through Sept. 30, 2023

Available Funding	\$ Millions
Appropriation	175
Disaster Supplemental	13
Carryover from FY 2022	5.6
Prior-year recoveries	0.2
Total available funding	193.8

Planned Expenditures	\$ Millions
Center renewals	134.4
MSE/MDAP	0.8
Expansion awards	20.4
State Relations - SSTI	1.2
Disaster Awards	3
Contracts	7.2
NIST MEP labor	12.4
NIST and program overhead	14.4
Total planned expenditures	193.8

Projected FY 2023 efficiency rate = 11.21%; Actual FY 2022 efficiency rate = 10.89%

Major Legislation

The President signed into law the CHIPS and Science Act of 2022 on August 9, 2022

Key provisions include:

- Creates an Expansion Award Pilot Program
- Establishes a voluntary National Supply Chain Database
- Language which doesn't require MEP Centers to enroll their clients in the GSA Advantage Program
- Triples MEP's Authorized Funding Levels: FY23 \$275 million, FY24 \$300 million, FY25-27 \$550 million

“[The Act will] strengthen American manufacturing, supply chains, and national security, and invest in research and development, science and technology, and the workforce of the future to keep the United States the leader in the industries of tomorrow, including nanotechnology, clean energy, quantum computing, and artificial intelligence.”— White House Press Release 8/9/2022



MEPNN Expansion Award Pilot Program

The group will discuss and review expansion awards to provide the following services:

- Workforce development (which may include training advanced manufacturing personnel)
- Resiliency of domestic supply chains
- Expanded support for adopting advanced technology upgrades at small and medium manufacturers
- Global marketplace projects - projects that have potential for enhancing the competitiveness of U.S. SMMs in the global marketplace
- Allow NIST to accept funding from other Federal departments and agencies for competitive MEP grants
- Require MEP to increase outreach to underserved communities
- Ensure the MEP Centers are specifically focused on supporting American manufacturing
- PLUS - Other Award amounts at the discretion of the Director

Expansion Award Pilot Programs on Supply Chains

- **Why is MEP focused on supply chain?**
 - Executive Order 14005 requests Federal Agencies to utilize MEP Supplier Scouting.
 - CHIPS ACT establishes a pilot program of expansion awards to provide services, including **resiliency of domestic supply chains** and to **build capabilities** across the Hollings Manufacturing Extension Partnership for **domestic supply chain resiliency and optimization**.
- **What is MEP doing?**
 - **\$20.4 million** investment in MEPNN on supply chain optimization and intelligence network through a Request for Application (RFA)
 - Centers may request **up to \$400,000** funding
 - Period of performance is **2 years**
 - RFA published in **March 2023**
 - Projects can start as early as **June 1, 2023**
 - Report is due to Congress by **October 1, 2025**.



National Supply Chain Optimization and Intelligence Network

Goals:

- Expand existing MEP Center and Network capabilities to provide services focused on national supply chain optimization
- Establish a National Supply Chain Intelligence Network that will:
 - Comprehensively support supplier scouting services,
 - Rigorously assess and analyze domestic manufacturing capabilities,
 - Expand the inherent knowledge of each MEP Center's local manufacturing ecosystems
 - Build an integrated knowledge of U.S. supply networks



Discussions & Questions



Discussion:

2023-2027 MEP National Network Strategic Plan Overview and 18-month Metrics

- MEP National Network Tenets
- Previous Strategic Goals and 18-month Metrics
- 2023-2027 National Network Strategies
- NIST MEP Strategies
- MEPNN in 2027
- Discussion: Achieving 2027 Goals and Updated 18-month Metrics

MEP National Network Strategic Foundational Pillars

Empower Manufacturers

Assist U.S. manufacturers in embracing productivity-enhancing innovative manufacturing technologies, navigate advanced technology solutions and recruit and retain a skilled and diverse workforce.

Champion Manufacturing

Actively promote the importance of a strong manufacturing base as key to a robust U.S. economy and for the protection of national security interests; create awareness of innovations in manufacturing; create workforce development partnerships to build a stronger and diverse workforce pipeline; and maximize market awareness of the MEP National Network.

Leverage Partnerships

Leverage national, regional, state and local partnerships to gain substantial increase in market penetration; identify mission-complementary advocates to help MEP become a recognized manufacturing resource brand; build an expanded service delivery model to support manufacturing technology advances.

Transform the Network

Maximize National Network knowledge and experience to operate as an integrated national network; increase efficiency and effectiveness by employing a Learning Organization platform; and create a resilient and adaptive MEP National Network to support a resilient and adaptive U.S. manufacturing base.

Previous Strategic Goal Areas

1. Strengthening the National Supply Chain
Increase supplier matches and clients served in critical areas

2. Serving the Manufacturing Workforce
Increase client engagement in workforce services

3. Increasing Awareness
Amplify and measure Network brand awareness

4. Leading in Technology Deployment
Increase client engagement in technology services and implementation



Previous 18-month Measures of Success



In 2027, the MEPNN...

- Has the dual capacity to excel at serving SMMs in **individual states** and to function as a powerful cohesive, collaborative network capable of impacting complex **regional and national** issues.
- Established as a **recognized national resource and expert authority** in American manufacturing.
- Is a **valued partner** with other federal agencies, state authorities, associations, and other groups working in manufacturing.
- Has the knowledge and capacity to support SMMs and manufacturing in **anticipating and being prepared for future trends**.



In 2027, the MEPNN...

- Enables consistent and cost-effective **technology adoption**.
- Annually increases its **market penetration**.
- Annually increases the **economic impacts** it creates for U.S. manufacturers.
- Enables SMMs access to a **skilled workforce**.
- Helps SMMs become nimbler in pivoting into **new markets**.
- Is engaged in the **relevant new directions** that the country is going in relation to manufacturing.



2023-2027 MEP National Network Primary Strategies

The MEP National Network Strategic Plan has three primary goals:

- **Narrow the Workforce Gap**
- **Mitigate Supply Chain Vulnerabilities**
- **Leverage Technology**

Goal 1: Narrow the Workforce Gap

- **Enable SMMs to navigate the current workforce shortage while improving productivity and profitability through:**
 - Upskilling
 - Use of technology and productivity enhancements
 - Partnerships (e.g., connect educational entities to manufacturing needs and jobs/careers)
 - Improving work conditions, job quality, career paths, etc.
 - Assessing underserved populations and integrating them into the manufacturing industry
 - Making the case for integration of underserved populations with SMMs
- **Build a pipeline of future employees for the manufacturing sector through:**
 - Rebranding and marketing the public image of manufacturing nationally and in the states
 - Broadening partnerships and connections with educational and other entities working in this space

Goal 2: Mitigate Supply Chain Vulnerabilities

- **Increase supply chain visibility**
 - End-to-end awareness (supplier's supplier and customer's customer)
 - Mapping Supply Chains (key industries; in individual states)
 - Working with OEMs to map out how SMMs fit into their supply chains
- **Assess supply chain risk**
 - Able to identify vulnerabilities
 - Able to rapidly detect risk as they emerge
 - Strengthen supplier development
 - Increase supplier scouting capacity

Goal 3: Leverage Technology

- **Increasing tech adoption**
 - ID early adopters and leverage them to move the early majority
 - Defining tech capabilities and business cases for adoption for customers to increase impact (IT and OT)
 - Educating Center staff on the different kinds of technology to increase impact with customers
- **Ensuring wholistic, comprehensive application and use of technology (not just in production but in business operations, etc.)**
 - Creation of roadmaps for customers and aligning them to customer's strategic goals
- **Strengthening cybersecurity capabilities**
 - Communicating the importance of mitigating cybersecurity risks
- **Partner with federal labs to accelerate the use of new technologies**
 - Codevelop tech capabilities and business cases for adoption to bring new insights to industry



Intersections Across Network Strategic Goals

Narrowing the workforce gap
through engagement future
technologies

Increasing technology
adoption across served
customers

Strengthen workforce
knowledge of supply chain
dependencies to help predict
supply chain risks

The strategic goals do not exist in silos.
They intersect with each other.



What are the best measurements to track progress on these goals?



2023-2027 MEPNN Strategic Goals

- 1. Narrow the Workforce Gap**
- 2. Mitigate Supply Chain Vulnerabilities**
- 3. Leverage Technology**

Goal 1: Narrow the Workforce Gap

Goal 2: Mitigate Supply Chain Vulnerabilities



Goal 3: Leverage Technology

Increasing tech adoption

- Increase clients engaged with technology services projects by 10%



Discussions & Questions



Welcome/Brief on Information Technology Information Foundation, Rob Atkinson

Rob Atkinson

Founder and President, Information Technology and Innovation Foundation (ITIF)



Discussion: 2023 Working Groups

- Working Groups and Members
- Working Group Deliverables Refresh
 - Advisory Board Executive Committee
 - Strategic Goal: Narrow the Workforce Gap
 - Strategic Goal: Mitigate Supply Chain Vulnerabilities
 - Strategic Goal: Leverage Technology
 - MEPNN Expansion Awards - Ad-Hoc
- Discussion: Proposed Working Group Structure

MAB Working Group Members

Advisory Board Executive Committee

Don Bockoven
Louis Foreman
Bernadine Hawes
*Mitch Magee
Chris Mathews
*Matt Newman
Tyrome Smith
*George Spottswood

Narrow the Workforce Gap

Beth Bafford
Don Bockoven
Louis Foreman
Gail Friedberg
Rottenstrich
Bernadine Hawes
Miriam Kmetzo
*Mitch Magee
Annette Parker

Mitigate Supply Chain Vulnerabilities

Sean Ketter
*Matt Newman

Leverage Technology

Louis Foreman
*Mitch Magee

MEPNN Expansion Awards

Don Bockoven
Bernadine Hawes
Chris Mathews
Tyrome Smith

Advisory Board Executive Committee Working Group

Deliverable

Provide guidance on future MEP Advisory Board leadership and membership recruitment, provide insights into cultivating strong Board governance as well as explore ways to expand the MEP Advisory Board's role in regard to the local MEP Center Boards.

Board Members

Don Bockoven, Louis Foreman, Bernadine Hawes, Mitch Magee, Chris Mathews, Matt Newman, Tyrome Smith and George Spottswood

NIST MEP Support

Pravina Raghavan, Wiza Lequin, Katie Rapp, Mark Schmit, Tom Williams and Cheryl Gendron

Narrow the Workforce Gap Working Group

Deliverable

Provide guidance back to full board on programming to enable SMMs to navigate the current workforce shortage while improving productivity and profitability.

Board Members

Beth Bafford, Don Bockoven, Louis Foreman, Gail Friedberg Rottenstrich, Bernadine Hawes, Miriam Kmetzo, Mitch Magee and Annette Parker

NIST MEP Support

Steve Campbell, Wiza Lequin, Heather Mayton and Gerson Santos-Leon

Mitigate Supply Chain Vulnerabilities Working Group

Deliverable

Provide guidance on programming to enable SMMs to mitigate supply chain vulnerabilities.

Board Members

Sean Ketter and Matt Newman

NIST MEP Support

Steve Campbell, Jyoti Malhotra and Ben Vickery



Leverage Technology Working Group

Deliverable

Provide guidance on programming to leverage technology.

Board Members

Louis Foreman and Mitch Magee

NIST MEP Support

Steve Campbell, Jose Colucci-Rios and Jyoti Malhotra

MEPNN Expansion Awards - Ad-Hoc Working Group

Deliverable

Provide guidance to the Board on the directive from the CHIPS and Science Act of 2022, Sec. 10251, Sec. 25B "Applications for awards under this section shall be submitted in such manner, at such time, and containing such information as the Director shall require in consultation with the Manufacturing Extension Partnership Advisory Board."

Board Members

Don Bockoven, Bernadine Hawes, Chris Mathews and Tyrome Smith

NIST MEP Support

Pravina Raghavan, Beverly Bobb, Autumn Hernandez, Kevin McIntyre and Nico Thomas

Current NIST MEP Working Groups with MEP Centers

Supplier Scouting

Manufacturer
Resilience

Workforce

Industry 4.0

Cybersecurity

Semiconductor

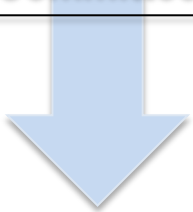
Toyota
Kata/Continuous
Improvement

Food Industry
Services

Marketing

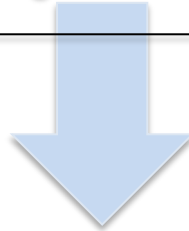
Proposed Working Group Structure

**Advisory
Board
Executive
Committee**



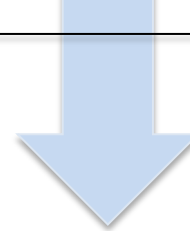
**Remains
Comprised
of MAB
Members**

**Narrow the Workforce Gap
Mitigate Supply Chain Vulnerabilities
Leverage Technology**



**Integrate MAB WGs with related
MEPNN WGs to better share
knowledge with MEPNN, expand
capacity, and expand to non-MAB
members.**

**MEPNN
Expansion
Awards**



**Transition to
regular MAB
Meeting
briefing**



Closing Remarks

Dr. Laurie Locascio

Director of NIST and Under Secretary of Commerce for Standards and Technology



Day Two Agenda

Wednesday, March 8, 2023

- Welcome Back
- MEP Expansion Awards Strategy
- Recognize New Board Leadership
- Public Comments
- Meeting Wrap Up



Recognize Outgoing MAB Members



Matthew Newman
Chair, MEP Advisory Board
New Era Advisors
Oklahoma
March 2023


Mitch Magee
Independent
Consultant
Ohio
March 2023

George Spottswood
Quality Filters
Alabama
May 2023

E. LaDon Byars
Colonial Diversified
Polymer Products,
LLC
Tennessee
February 2023


Mary Isbister
GenMet
Corporation
Wisconsin
March 2023

Leslie Taito
Taco Comfort
Rhode Island
July 2023

Jim Wright
Proof Research
Montana
March 2023


Thank you!
Class of 2017



MEP Advisory Board

Day Two

Wednesday, March 8, 2023

FACA Board Meeting



Welcome Back

Mojdeh Bahar

Associate Director, Innovation and Industry Services, NIST



Welcome Back

Pravina Raghavan, MEP Director

Matthew Newman, MEP Advisory Board, Chair



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Discussion:

MEP Expansion Awards Strategy

- Expansion Award Pilot Program National Supply Chain Optimization and Intelligence Network
- Discussion: Prioritization for Future Expansion Award Pilot Program



MEPNN Expansion Award Pilot Programs

The group will discuss and review expansion awards to provide the following services:

- Workforce development (which may include training advanced manufacturing personnel)
- Resiliency of domestic supply chains
- Expanded support for adopting advanced technology upgrades at small and medium manufacturers
- Global marketplace projects - projects that have potential for enhancing the competitiveness of U.S. SMMs in the global marketplace
- Allow NIST to accept funding from other Federal departments and agencies for competitive MEP grants
- Require MEP to increase outreach to underserved communities
- Ensure the MEP Centers are specifically focused on supporting American manufacturing
- PLUS - Other Award amounts at the discretion of the Director



Expansion Award Pilot Programs on Supply Chains

- **Why is MEP focused on supply chain?**
 - Executive Order 14005 requests Federal Agencies to utilize MEP Supplier Scouting.
 - CHIPS ACT establishes a pilot program of expansion awards to provide services, including **resiliency of domestic supply chains** and to **build capabilities** across the Hollings Manufacturing Extension Partnership for **domestic supply chain resiliency and optimization**.
- **What is MEP doing?**
 - **\$20.4 million** investment in MEPNN on supply chain optimization and intelligence network through a Request for Application (RFA)
 - Centers may request **up to \$400,000** funding
 - Period of performance is **2 years**
 - RFA published in **March 2023**
 - Projects can start as early as **June 1, 2023**
 - Report is due to Congress by **October 1, 2025**.



National Supply Chain Optimization and Intelligence Network

Goals:

- Expand existing MEP Center and Network capabilities to provide services focused on national supply chain optimization
- Establish a National Supply Chain Intelligence Network that will:
 - Comprehensively support supplier scouting services,
 - Rigorously assess and analyze domestic manufacturing capabilities,
 - Expand the inherent knowledge of each MEP Center's local manufacturing ecosystems
 - Build an integrated knowledge of U.S. supply networks



2023-2027 MEPNN Strategic Goals

- 1. Narrow the Workforce Gap**
- 2. Mitigate Supply Chain Vulnerabilities**
- 3. Leverage Technology**



Mitigate Supply Chain Vulnerabilities

Exploring topics including but not limited to the following:

- Increase supply chain visibility
- End-to-end awareness (supplier's supplier and customer's customer)
- Mapping supply chains (key industries, in individual states)
- Working with original equipment manufacturers to map out how SMMs fit into their supply chains
- Assess supply chain risk
- Able to identify vulnerabilities
- Able to rapidly detect risk as they emerge
- Strengthen supplier development
- Increase supplier scouting capacity

Review Goal 2: Mitigate Supply Chain Vulnerabilities



Leverage Technology

Exploring topics including but not limited to the following:

- Increasing technology adoption
- Identify early adopters and leverage them to move the early majority
- Defining tech capabilities and business cases for adoption for customers to increase impact (IT and operational technology, or OT)
- Educating Center staff on the different kinds of technology to increase impact with customers
- Ensuring wholistic, comprehensive application and use of technology (not just in production but in business operations, etc.)
- Creation of road maps for customers and aligning them to customer's strategic goals
- Strengthening cybersecurity capabilities
- Communicating the importance of mitigating cybersecurity risks
- Partner with federal labs to accelerate the use of new technologies
- Co-develop tech capabilities and business cases for adoption to bring new insights to industry

Goal 3: Leverage Technology

Increasing tech adoption

- Increase clients engaged with technology services projects by 10%

Narrow the Workforce Gap

Exploring topics including but not limited to the following:

- Upskilling
- Use of technology and productivity enhancements
- Partnerships (e.g., connect educational entities to manufacturing needs and jobs/careers)
- Improving work conditions, job quality, career paths, etc.
- Assessing underserved populations and integrating them into the manufacturing industry
- Making the case for integration of underserved populations with SMMs
- Build a pipeline of future employees for the manufacturing sector through:
- Rebranding and marketing the public image of manufacturing nationally and in the states
- Broadening partnerships and connections with educational and other entities working in this space



Goal 1: Narrow the Workforce Gap



If we received more resources, how should we prioritize future expansion award pilot programs?



Recognize New Board Leadership



2023 MEP Advisory Board Leadership Transition

Bernadine Hawes

New Chair, March 22, 2023

Econsult Solutions, Inc.

Pennsylvania

Donald Bockoven

New Vice Chair – March 22, 2023

Fiber Industries LLC

South Carolina



E. LaDon Byars
Colonial Diversified Polymer
Products, LLC
Tennessee
February 2023

Mitch Magee
Independent Consultant
Ohio
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March 2023

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Taco Comfort
Rhode Island
July 2023



Thank You
Members Leaving Service
2023



MEP Advisory Board

2023 Dates

Next MEP Advisory Board Meeting

Planning continues – details coming soon

- Tues, June 13- Wed, June 14, 2023*
 - Location TBD
- Wednesday, September 13, 2023*
 - Buffalo, NY
 - Collocated with a National MEPNN Meeting