

MEP Advisory Board

June, 2021

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 from Board Chair

- Matthew Newman, MEP Advisory Board, Chair
 - Welcome New Members
 - Review the Agenda

MAB Meeting Details

- **Wednesday, June 30, 2021**
- Board Meeting Opening/Logistics
- Welcome and Introductions
- Opening Remarks
- Welcome from NIST and NIST MEP Leadership
- Board and Audience Introductions
- NIST MEP Senior Management Update
- Presentation: 2021 Legislative Update
- Working Group Update
- MEP National Network™ Strategic Plan 2023-2028

MAB Meeting Details

- **Wednesday, June 30, 2021**
- Working Group Update, Extended: MEP National Network Strategic Plan 2023-2028
- Focus Group – Overarching Resilience
- Focus Group – Reshoring
- Focus Group – National Supply Chain
- Focus Group – Workforce
- Working Group Update: Supply Chain Development
- Working Group Update: Executive Committee

Welcome and Introductions

- **Mojdeh Bahar**, NIST, Associate Director, Innovation and Industry Services
- **Rob Ivester**, Acting Director, NIST MEP

NIST MEP Director's Update

- MEP Program Budget Outlook/Spend Plan
- MEP National Network Update
- NIST MEP Operational Update
- MEP National Network Current Strategic Plan Update
- MEP National Network Expansion: Planning for the Future

MEP Program Budget Outlook

(as of 6/30/2021)

FY 2021 Appropriation Status	FY 2022 Appropriation Status
<p>Base funding: \$150 million</p> <ul style="list-style-type: none">• \$4 million increase over FY20.• Center funding not subject to cost share requirements; elective for Centers receiving state funds conditioned on federal cost share requirement.	<ul style="list-style-type: none">• President's budget includes \$275 million appropriation for MEP.• Cost share provision similar to FY21 might be included in FY22 appropriation.

NIST MEP FY 2021 Projected Spend Plan

<u>Available Funding:</u>	\$ Millions
Full Year Appropriation	150.0
Carryover from FY 2020	7.3
Recoveries from Deobligations (anticipated)	1.4
Funding from Other Agencies*	0.0
Total Available Funding	158.7

<u>Planned Expenditures:</u>	
Center Renewals	128.9
Strategic Competitions	4.2
Contracts	4.7
NIST MEP Labor	11.2
<u>NIST and Program Overhead</u>	<u>9.8</u>
Total Planned Expenditures	158.7

Estimated FY 2021 Efficiency Rate = 11.84%; actual FY 2020 Efficiency Rate = 9.03%.

* Funding from DOD for contracts and project support

CARES Act Update

Centers reporting progress quarterly

- Reporting for 2021 Q1 (March 30 end)

Manufacturers Contacted	138,468
Client Projects Completed	3,601
Supplier Searches	807
Supplier Matches	276
Multi-Center Engagements	299

CARES Act funding in review

- CARES Act 60-day report – March (GAO-104526)
 - Review started in March 2021
 - Several meetings to answer questions
 - April 1 final report: no findings for MEP

OIG audit on CARES Act funding

- Exit briefing completed
- No findings for

CARES Act Update

Highlights of CARES Act funding initiatives:

- **Working directly with state governments**
 - Linking state government policies and programs to manufacturers by participating in emergency task forces to address challenges and issues.
 - Connecting the manufacturing industry and state procurement efforts.
 - Managing state-level supply chain portals, linking manufacturers to demand and organizing them to deploy as needs change.
- **Addressing specific issues with manufacturing PPE, medical supplies and medical devices**
 - Helping manufacturers meet the country's urgent needs for PPE and medical devices by guiding them to information and solutions about testing protocols, quality testing and required certifications.
 - Helping address issues of potential legal liabilities arising from the production of PPE and medical supplies and devices.
- **Maintaining base operations and serving all manufacturers**
 - MEP Centers are helping companies engage with customers in new and different ways: providing cybersecurity assistance — addressing new kinds of threats as employees work in new ways, and examine ways to use technologies to improve productivity.

Strategic Competition Update

State Partnership Award

- Current award with State Science and Technology Institute (SSTI) ending June 30, 2020
- New five-year award confirmed for SSTI
 - \$4,999,847 for the period of July 1, 2021 to June 30, 2026 (5 years)
- Project activities will do the following:
 - Identify and understand the goals and personalities of individuals in key stakeholder groups
 - Build and enhance relationships with policymakers and leaders
 - Execute partnership strategies

Strategic Competition Update

- **New CAP NOFO released Dec. 28, 2020**
 - 14 eligible applications in review
- **Revised themes:**
 - Industry/manufacturing 4.0
 - Manufacturing workforce services to include employee recruitment, retention and employee development
 - Supply chain management and resiliency
 - Artificial intelligence (AI) application

Strategic Competitions and Network Learning

- **Close-out meetings for concluding CAPs will be open to the Network**
 - Communicate programs and materials for the benefit and use of the Network
- **Projects that have been highlighted or will be in the coming months**
 - FloridaMakes: AeroFlex Apprenticeship, held final presentation on June 22
 - NY MEP: Capital Region Innovation Resource Center
 - Georgia MEP: Food Safety Compliance and Management for Small Food and Beverage Processors
 - Innovate Hawaii: Smart Talent
 - University of South Dakota: Technology Adoption Center for Increased Competitiveness
 - Missouri Enterprise: Food Safety in the Heartland
 - Montana MEP: NW Food Safety Modernization Act

Network Learning

Tab Wilkins Emerging Leaders

- Cohort 1.13 started April 2021
- 14 participants from 12 Centers
- NIST MEP is working with a contractor for a refresh of the program
 - Topic workshops being developed: Influence, entrepreneurship, developing solutions to challenges, leading people

New Center Director Orientation

- Completed June 2-3
 - 10 new Center Directors (new within the last 18 months) and 4 SRA Directors
 - Included a virtual lab tour: MATTR CRADA project
 - Marlon Walker, Andrew Peterson and Ako Chijioke

New Center Staff Orientation

- May 27
- Over 80 participants

NIST MEP: National Network Support Center Reviews: 2021

Panel Reviews

Third and Eighth-Year

- Eighth-year panel reviews for AZ/MD completed (February 2021)
- Coming up: eighth-year panel review – NE (August 2021)

Secretarial Reviews

Conducted during fifth-year (determination for second five-year cooperative agreement).

- Round 3 and 4 Centers (total of 24 Centers) will have their year five annual/secretarial Reviews – Spring/Fall 2021

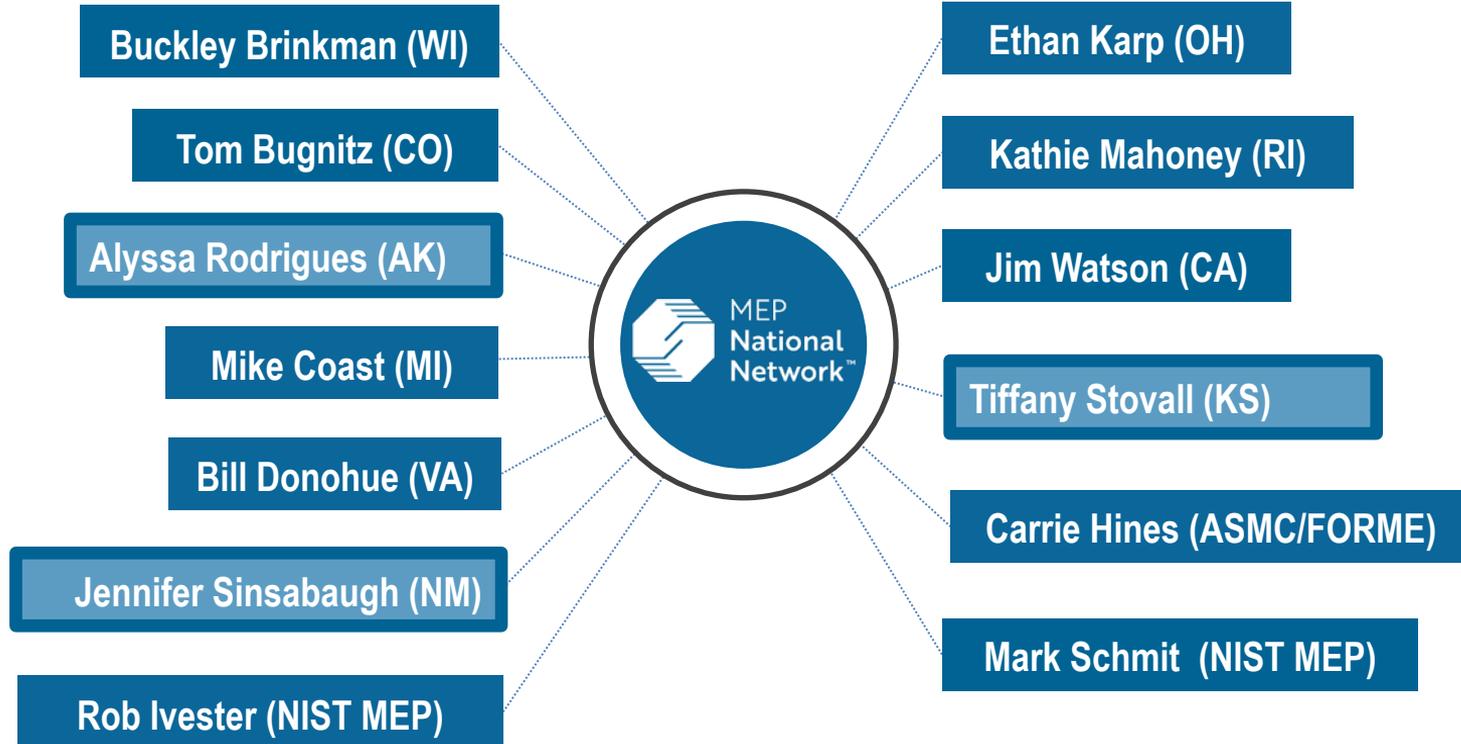
Annual Reviews

48 Centers (includes 24 going through a year five/secretarial review)

MEP National Network Center Leadership Team (CLT)

- Defined priority areas for the year.
- Recent discussion at CLT Regional Nodes calls include Center's business updates, expansion of MEP, diversity and inclusion and addressing the workforce problem at the manufacturer level.
- The structure improves access directly to CLT members and ensures that everyone in the National Network has a voice.

MEP National Network Center Leadership Team (CLT)



FY21 Center Leadership Team Priorities

- **Multi- State Engagements**

How can Centers, working together, better exploit opportunities for increased market penetration, increase reported economic impacts and improved efficiencies in service delivery? **Bill Donohue**

- **Go-To Center Collaboratives**

Go-To Centers are Centers that have expertise and capacity in a technology or service to share with the Network. Go-To Centers are ready to provide assistance remotely or in-person to Centers in need of their expertise or service to use as a solution for local SMMs. A Go-To Center will also have the responsibility for their area of expertise to maintain and update Center capabilities, tools and services for the Network. **Mike Coast**

- **Creating Greater Network Alignment**

To establish a collaborative environment between NIST MEP staff, partners and the CLT, representing MEP Centers, creating a unified approach to developing and implementing National Network strategies, priorities, programs and initiatives. **Co-leads Jim Watson/Mary Ann Pacelli**

- **Leveraging MEP's Convening Power**

Understand, benchmark and share how MEP Centers can lean into the role of convener. Enable more MEPs to convene, and to do so in a way that enhances their mission, clients, financial strength and the overall health of American manufacturing and the National Network. **Ethan Karp**

- **Creating a Collaborative Vision/Strategy on Behalf of the National Network**

How will we reconcile the multiple visions and strategies active throughout the MEP National Network? How do we create a vision big enough and a strategy strong enough to pull together the entire National Network? **Buckley Brinkman**

MEPNN Extension Services: Historically

- NIST MEP, MEP Centers and partners/stakeholders work together to identify and develop technical assistance services that are delivered by MEP Centers to U.S. manufacturers.
 - Primary focus on MEP Center services to manufacturers.
 - NIST MEP provide **subject matter expertise and national/strategic guidance** in key technical/service areas.
 - Operate **MEPNN Working Groups** in program-wide strategic focus areas (e.g., advanced manufacturing technology/Industry 4.0, cybersecurity, food industry services, MATTR, supplier scouting, Toyota Kata).
 - Identify and develop **new opportunities** to help U.S. manufacturers.
 - Identify, develop and maintain **partnerships at national, state and local levels.**

MEPNN Extension Services: Going Forward

- Continue National Network service offerings and support in needed areas
- Evolve to emphasize new focus on supporting the needs of U.S. **manufacturing** in addition to U.S. **manufacturers** via the primary areas of anticipated MEP program expansion:

Expanding the base program

- Doing more of what Centers currently do for more manufacturers.

Focusing on new MEP program initiatives:

- Supply chain development
- Manufacturing technology demonstration facilities
- Workforce services

MEP National Network Extension Services: Going Forward

Supply Chain Development

- Develop more resilient supply chains in industries determined to be critical to U.S. national/economic security or public health.
 - Provide MEP assistance to companies in these supply chains at all tiers to increase resilience of both individual companies and overall supply chains.
- Leverage MEP Supplier Scouting to increase domestic content in supply chains for federal procurements.

Manufacturing Technology Demonstration Facilities

- Establish and operate manufacturing technology demonstration facilities (MTDFs) around the nation as part of state-based manufacturing ecosystems.
 - Each MTDF focused on a specific key product/technology area determined to be critical to U.S. national and economic security or public health.

Workforce Services

- Focus on MEP Center provision of services to recruit, retain and retrain the workforce needed by the U.S. manufacturing sector.

Expanding the base MEP program

- Continue to provide traditional MEP Center services to SMMs.
- Improve/increase service portfolio of all Centers.
- Increase clients served nationally.
- Increase projects conducted nationally.
- Increase impacts generated by the MEP program.



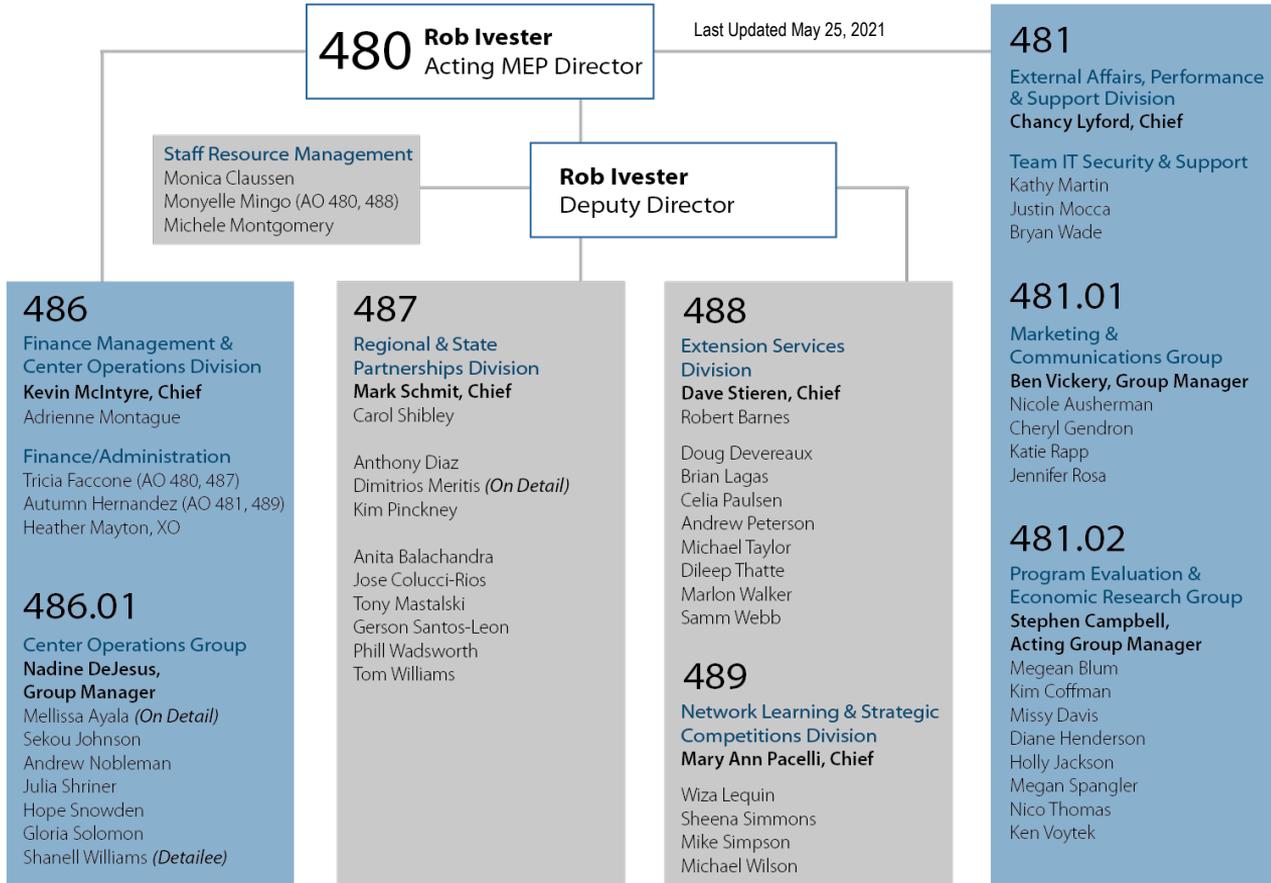
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EXTENSION PARTNERSHIP®

NIST MEP: Operational Update

NIST Campus Locations Status

- All NIST staff including NIST MEP staff were on **mandatory telework** from **mid-March** until **early July 2020**, and now on **maximum telework** through at least **July 19, 2021**.
- NIST phased re-opening emphasizes **employee safety** and focuses on laboratory staff having access to labs.
- NIST staff remain on *maximum* telework; **90% of all staff** for an extended period returning in later phases, with on-site access limited to 25% or less.
- NIST MEP Move Back In Committee has met **monthly** and 301 office **construction has nearly concluded**.

NIST MEP Org Chart FY21





Current Strategic Plan Update

Strategic Plan Update

- **Empower Manufacturers**
- **Champion Manufacturers**
- **Leverage Partnerships**
- **Transform the Network**

18 Month Measures of Success 9/2019-3/2021 Progress to Date

1. **Consensus Within Integrated National Network**

Reach Network consensus on definition of Project and CME (client manufacturing establishment) interaction.

2. **Center and Program Office Operational Excellence**

Operationally improve reporting via measurement of on-time and accurate reporting.

3. **Increased Visibility**

Amplify and measure Network brand awareness by at least 10%.

4. **Increase Projects and New Clients**

Increase reported projects by 10% and reported new clients by 5%.

18 Month Measures of Success — Progress to Date

Measure 1: Consensus Within Integrated National Network

Define:

- Client/project
- Client manufacturing establishment interaction
- Working Group of Center Directors established

Historic Program definitions of terms have been identified and catalogued. Currently working to determine path forward in light of programmatic growth.

Measure 2: Center and Program Office Operational Excellence

Four Elements Measured:

- Progress plan
- Progress data
- Success story
- Survey confirmation

Baseline (Q2 2019):

- 40 Centers reported on time with the first three elements.
- 24 Centers reported on time across all four elements.

Progress to Date (Q1 2021):

- 44 Centers reported on time with first three elements. Positive increase of **10%**.
- 33 Centers reported on time across all four elements. Positive increase of **38%**.

18 Month Measures of Success — Progress to Date

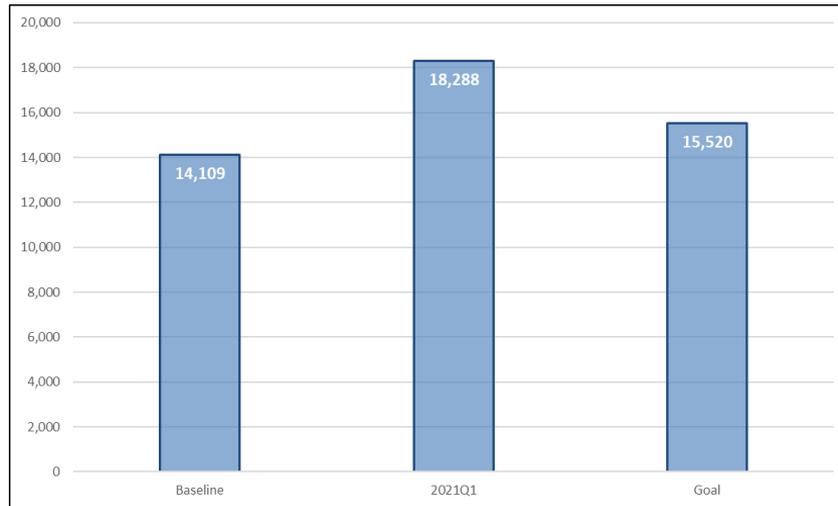
Measure 3: Increased Visibility by Amplifying Network Brand Awareness by at Least 10%.

Brand Measure	Baseline	Progress To Date*	Goal	Change
#MEPNationalNetwork Hashtag Occurrences	334	674	367	+102%
Brand Mentions	125	280	138	+124%
Manufacturing Innovation Blog Subscribers	24,920	38,555	27,412	+55%
Backlinks	104	183	114	+76%
Social Media Followers	16,240	18,248	17,864	+12%

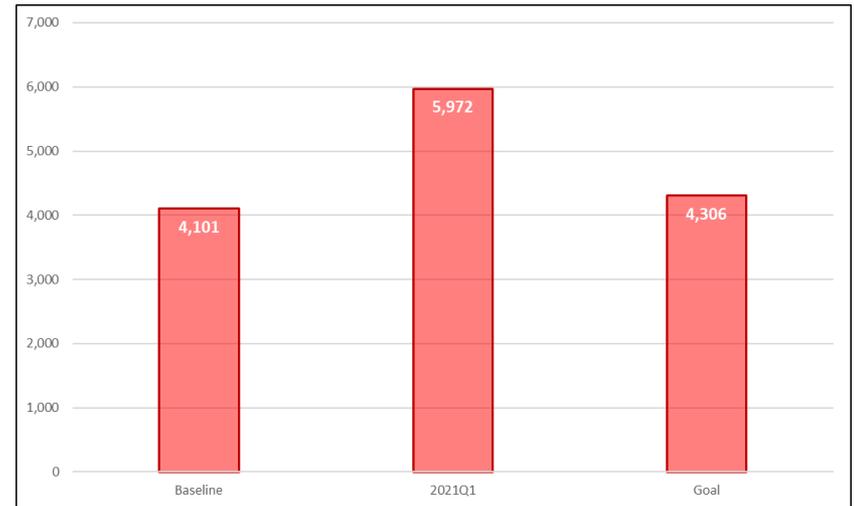
*Progress to date for Jan. 1, 2021 – March 31, 2021

18 Month Measures of Success — Progress to Date

Goal: Increase Projects by 10%
Outcome: Increase of 30%



Goal: Increase New Clients by 5%
Outcome: Increase of 46%



Measure 4: Increase Projects and New Clients

National Network Expansion Planning for the Future

Manufacturing at NIST: Positioned for Growth

Manufacturing a Key Priority: Expand MEP and Manufacturing USA

- Executive Orders call for more Federal purchases to be Made in America (EO 14005) and shoring up America's key supply chains (EO 14017).
- National Defense Authorization Act of 2020 – authorizes Manufacturing USA Institute on semiconductor manufacturing, calls for NIST analysis of potential MEP national supply chain database.
- American Rescue Plan appropriated \$150 million to NIST for Manufacturing USA Pandemic Response Projects.
- Administration has proposed to increase FY22 MEP investment to \$275 million and Manufacturing USA to \$166 million.
- American Jobs Plan and the President's Budget Request call for long-term investment increases in manufacturing at NIST, including \$7 billion for MEP and \$3 billion for Manufacturing USA.

MEP Program's Planned Expansion: Why and How We Will Grow

Challenge/Need

- U.S. manufacturing is critical to the nation's economic recovery.
- The president has proposed historic levels of infrastructure investment.

MEP Role

- Increase capabilities to respond to manufacturing needs (EO 14017).
- Identify initiatives for recruiting and retaining workers.
- Initiate a national supply chain initiative (EO 14005).
- Create Manufacturing Technology Demonstration Facilities.

Impact

- More manufacturers will receive critical assistance.
- MEP Centers can provide expanded services.
- MEP will lead the way to building a new manufacturing ecosystem.

Increase Core Funding to MEP Centers at Least 25%

Challenge/Need

- MEP Centers lack resources to serve all the needs of all manufacturers.
- Proposed infrastructure investment demands greater U.S. manufacturing.

MEP Role

- Provide direct support that better enables manufacturers.
- Enable MEP Centers to deliver more diverse and comprehensive services.
- More effectively partner with and leverage other key stakeholders.

Impact

- MEP Centers will provide services to at least 25% more manufacturers.
- More materials and products will be made in the U.S.
- U.S. manufacturing economy will be stronger and more resilient.

MEP National Workforce Development Initiative

Challenge/Need

- As many as 2.1 million manufacturing jobs will be unfilled through 2030.
- U.S. could have more than 2.1 million unfilled 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.
- MEP Centers will upskill the workforce – focus on women and underrepresented groups.

Impact

- Increase in manufacturers with upskilling programs.
- Increase manufacturing companies on “Best Places to Work” list.
- Increase women and people of color in manufacturing jobs.

MEP National Supply Chain Initiative

Challenge/Need

- Pandemic emphasized U.S. dependence on global supply chains for goods.
- Significant U.S. domestic manufacturing base gaps exist.

MEP Role

- Partner with federal agencies and private top-of-supply chain entities to identify supply chain gaps.
- Expand MEP National Supplier Scouting.
- Assist individual U.S. manufacturers to become more resilient.

Impact

- Key products and critical technologies (EO 14017) will be more effectively and comprehensively sourced domestically.
- U.S. supply chains will be more resilient:
 - ✓ More robust domestic supply strategies.
 - ✓ More visibility into lower tiers.
 - ✓ Increased diversification of manufacturers' customers and markets.
 - ✓ Improved risk management.
 - ✓ Improved manufacturer operational agility.

MEP Manufacturing Technology Demonstration Facilities

Challenge/Need

- U.S. Manufacturing: 11.4% U.S. economic output, employing >8.5% of the workforce.^[1]
- Nearly 99% of all U.S. manufacturing establishments <500 employees; ~91% have <100 employees. SMMs employ ~71% of domestic manufacturing workforce.^[2]
- SMM technical sophistication lags that of large companies.
- SMMs need assistance to bridge the gap between their state of practice and the state of the art available in supply chains.

MEP Role

- Establish Manufacturing Technology Demonstration Facilities.
- Expand the MEP Assisted Technology and Technical Resource (MATTR) service.

Impact

- Higher technology adoption by SMMs for key products and technologies (EO 14017) such as:
 - ✓ Industry 4.0, AI, IIoT, additive manufacturing
 - ✓ Advanced materials
 - ✓ Broadband technology
 - ✓ Cybersecurity
 - ✓ Semiconductors
 - ✓ Food
 - ✓ Medical equipment / supplies
- More technically skilled workers.
- Increased SMM productivity.

MEP Advisory Board Featured Presentation

Legislative Update

Chancy Lyford, NIST MEP, Division Chief for External Affairs,
Performance & Support

Congress and the Administration has kept us very busy—And THAT'S A
GOOD THING!

**Three major overall legislative initiatives among many as well as
Executive Orders**

1. U.S. Innovation and Competition Act (USICA)
2. Cost Share
3. Supply Chain Database

Congress and the Administration has kept us very busy—And THAT'S A GOOD THING!

1. **The Endless Frontier Act (EFA), is now the U.S. Innovation and Competition Act (USICA) Senate Bill—S. 1260**

- The USICA allows for a substantial increase in the NIST MEP budget authorization of \$330 million.
- The president's budget request released recently also proposes an increase of \$125 million.
- These increases are indeed historic and are being negotiated at unprecedented highest levels.

Status of USICA as of presentation

Within the USICA, a new Expansion Awards program allows NIST MEP to commence to issue additional funds.

Congress and the Administration has kept us very busy—And THAT'S A GOOD THING!

2. The Need for Cost Share Relief

- Centers have waived the cost share under the current statutory authority for the specialty awards and have historically accounted for a tiny amount of NIST MEP's budget.
- Allocated \$50 million in CARES Act funding did not require cost share.
- With a substantial increase for NIST MEP it is imperative that Centers be given the opportunity to scale up these services without the burden of match.

Congress and the Administration has kept us very busy—And THAT'S A GOOD THING!

3. A National Supply Chain Database — not just a NDAA issue

- S.849, Supply Chain Vulnerability Assessment Act of 2021
- S.869, National Manufacturing Guard Act of 2021
- H.R. 1024, Supply Chain Resiliency Act of 2021
- H.R. 1186, Supply Chain Security and Pharmaceutical Authentication Act of 2021
- S. 1556, a bill to require a report on the feasibility and benefits of establishing a supply chain center of excellence

And there are 33 others...

Including addressing the supply chain, more than 139 separate pieces of legislation have been introduced in the past 5 months alone!!

Congress and the Administration has kept us very busy—And THAT’S A GOOD THING!

Examples of just a few of the bills introduced when the bill was known as the ENDLESS FRONTIER ACT

- S. 289, Research Investment to Spark the Economy (RISE) Act
- S. 637, Supporting Early-Career Researchers Act 3. S. 710, Sister City Transparency Act (Blackburn, Hawley, Cramer, Tillis, Rubio, Marshall, Daines)
- S. 725, Advanced Technological Manufacturing Act (Wicker, Cantwell, Rosen)
- S. 996, Improving Minority Participation and Careers in Telecommunications (IMPACT)
- S. 997, Office of Manufacturing and Industrial Innovation Policy Act
- S. 1044, National Manufacturing Advisory Council for the 21st Century Act
- S. 1106, Shark Fin Sales Elimination Act of 2021
- S. 1161, Quantum Network Infrastructure and Workforce Development Act
- S. 1213, National Strategy to Ensure American Leadership (SEAL) Act
- S. 1240, Manufacturing USA Expansion Act of 2021
- S. 1257, AI Scholarship for Service Act
- S. 1374, Rural STEM Education Act
- S. 1395, Advancing Precision Agriculture Capabilities Act
- S. 1379, Combatting Sexual Harassment in Science
- S. 1418, Bioeconomy Research and Development Act
- S. 1563, Telecommunications Supply Chain Diversity Promotion Act
- S. 4827 (116th), Space Preservation And Conjunction Emergency Act (SPACE) Act
- S. 2800 (116th), National Aeronautics and Space Administration Act
- S. 3707 (115th), Country of Origin Labeling Online Act (COOL) Online Act
- S. 1166 (115th), Internet Exchanges and Submarine Cable Act of 2020

MEPNN Strategic Plan Working Group 2023-2028—EXTENDED

- Committee Members

- Board Leadership

Kathay Rennels

- Board Members

Don Bockoven, Kevin Heller, Mary Isbister, Willie May, Matt Newman, Jim Wright

- Ex-Officio Support

Bernadine Hawes (immediate past-Chair)

- NIST MEP Support

Rob Ivester, Wiza Lequin, Cheryl Gendron

- Deliverable

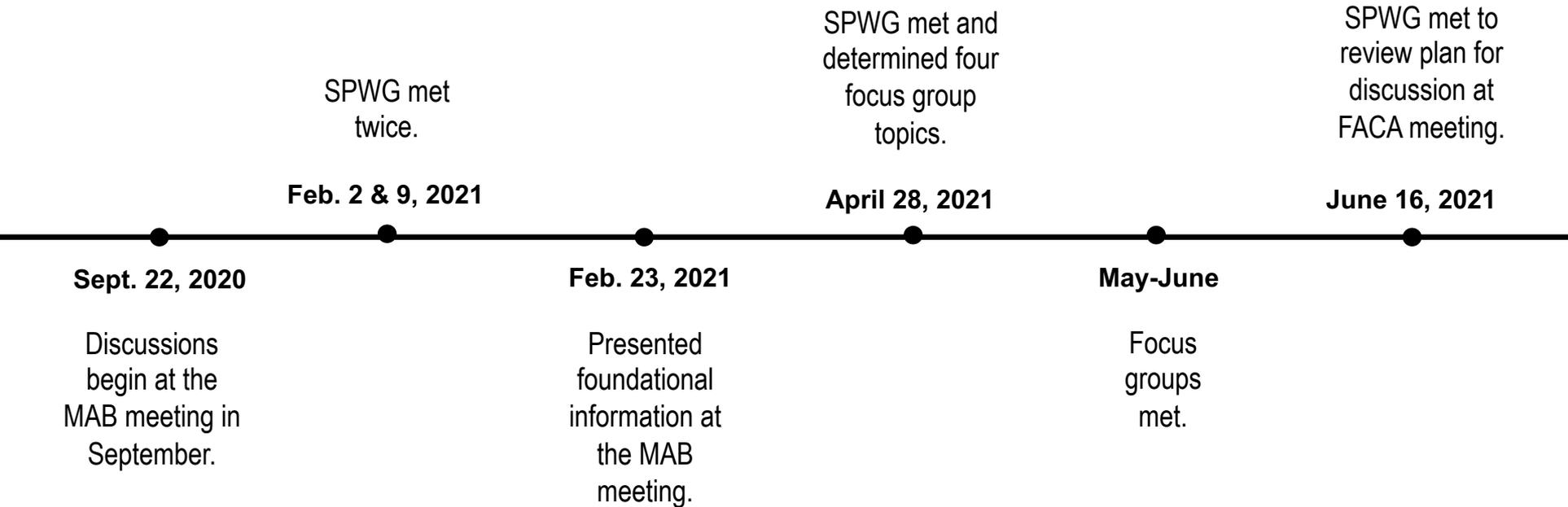
- To provide long-term program direction, guidance and perspectives for the MEP National Network Strategic Plan for 2023-2028. The WG will consider feedback from Centers, stakeholders, partners, management and staff as the plan is developed.

Strategic Planning the Foundation to Support MEP Program's Planned Expansion

- Increase core funding to MEP Centers at least 25%
- MEP national workforce development initiative
- MEP national supply chain initiative
- MEP manufacturing technology demonstration facilities

NIST MEP seeks ongoing Advisory Board perspectives on these MEPNN focus areas, approaches, challenges.

Strategic Planning Timeline



Today's Discussion: MEP into the Future

Focus Groups

Overarching Resilience, 1:00 – 1:30 p.m.

- David Stieren, LaDon Byars, Bernadine Hawes

Reshoring, 1:30 – 2:00 p.m.

- Rob Ivester, Don Bockoven, George Spottswood

National Supply Chain, 2 – 2:30 p.m.

- Mark Schmit, Matthew Newman, Mary Isbister

Workforce, 2:45 – 3:15 p.m.

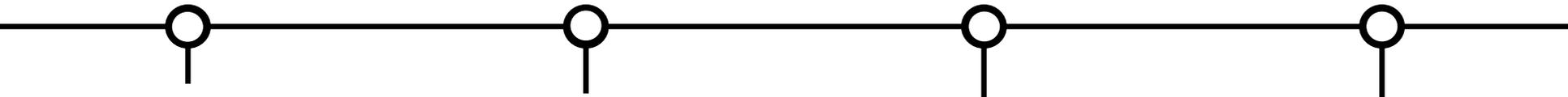
- Mary Ann Pacelli, Jose Anaya, Mitchell Magee

Things to think about...

- How will we know we are successful?
- How will we know when to pivot?
- What are the global/national cues to monitor?
- Who/what are our greatest leverage points?
- How can we hold ourselves accountable?
- How will we measure progress towards success?

How would progress towards success be reflected in the IMPACT scorecard (as is)?

Next Steps



Continued focus group meetings through the summer.

Next set of 18-month goals for the current strategic plan developed with input considered from MAB and other internal and external groups.

Next set of goals shared and continued discussion at the end of August during the MEPNN Update & MAB Meeting.

Continuing to organize and plan for the next iteration of the MEPNN Strategic Plan 2023-2028.

Focus Groups: MEP into the Future

Overarching Resilience

- Advisory Board discussion led by the following:
 - LaDon Byars
 - Bernadine Hawes
 - David Stieren

Focus Groups: MEP into the Future

Reshoring

- Advisory Board discussion led by the following:
 - Don Bockoven
 - George Spottswood
 - Rob Ivester

Focus Groups: MEP into the Future

National Supply Chain

- Advisory Board discussion led by the following:
 - Matthew Newman
 - Mary Isbister
 - Mark Schmit

Supply Chain

- Mary Isbister
- Matt Newman
- Steve Campbell
- Michael Wilson
- Mark Schmit

Consider the Elements Comprising the Manufacturing Ecosystem

- What are the top elements to enable **resilient and flexible supply chains** in areas of national importance?
- Are the elements for supply chains **different** from other priorities such as workforce, productivity, advanced manufacturing, etc?
- How is MEP “uniquely” positioned to address supply chain challenges and **not be duplicative** of other federal and state efforts?

Focus Groups: MEP into the Future

Workforce

- Advisory Board discussion led by the following:
 - Jose Anaya
 - Mitchell Magee
 - Mary Ann Pacelli
 - Kathay Rennels*

**Contributing member of focus group, unable to attend 6/30/21*

MEP Workforce Development

- **Current state**
 - Apprenticeships
 - Leadership development
 - Supervisory skills, communicating, etc.
 - Skills training
 - Lean, specific operation, etc.
 - Smart Talent
 - Recruitment, engagement, etc.
 - Training within industry (TWI)
 - A specific job training methodology
- **MEP workforce database**

Brainstorm the Future

- **Begin with the end in mind (strategic):**
 - What does “workforce development” mean - especially to MEP clients?
 - What roles do MEP Centers, NIST MEP or MAB play?
- **Execution (tactical):**
 - How to keep focused - both national and MEP Centers?
 - MEP scorecards and measures - how do they help or hurt?
 - How do Centers get “credit” for programs that don’t necessarily generate sales?

Supply Chain Development Working Group

- Committee Members

- Board Leadership

Don Bockoven

- Board Members

Ray Aguerrevere, LaDon Byars, Mary Isbister, Matt Newman

- NIST MEP Support

Rob Ivester, Dave Stieren, Mark Schmit

- Deliverable

- Guidance and perspectives on the MEPNN support and development of manufacturing supply chains with an emphasis on defense suppliers regarding Defense Industrial Base gaps; and expertise on who should be brought into the discussion to provide insight on defense supplier gaps.

Discussion Topics for the Board Meeting

MAB Supply Chain Working Group will update the Board on relevant MEPNN efforts relating to supply chain development, emphasizing support for defense manufacturing supply chains, as well as other current work and plans in the broad space of supply chain development.

NIST MEP seeks ongoing Advisory Board perspectives on these MEPNN focus areas, approaches, challenges.

MEP National Network Extension Services

Historically

- NIST MEP, MEP Centers and partners/stakeholders work together to identify and develop technical assistance services that are delivered by MEP Centers to U.S. manufacturers.
 - Primary focus on MEP Center services to manufacturers.

Going Forward

- Continue National Network service offerings and support in needed areas.
- Evolve to emphasize new focus on supporting the needs of U.S. **manufacturing** in addition to U.S. **manufacturers** via the primary areas of anticipated MEP program expansion, which includes Supply Chain Development.

Supply Chain Development: One Primary Aspect of MEPNN Extension Services Going Forward

Develop more resilient supply chains in industries determined to be critical to U.S. national/economic security or public health.

- Provide MEP assistance to companies in these supply chains at all tiers to increase resilience of both individual companies and overall supply chains.
 - **Impact manufacturers from the bottom up; impact manufacturing from the top down.**
- Improving manufacturer resilience at the individual company level is necessary to improve overall supply chain resilience – representing a unique opportunity for the MEP Program.

Leverage MEP Supplier Scouting to increase domestic content in supply chains for federal procurements.

Working Group Discussion

- Manufacturer resilience involves operating in a situationally aware state across a company's entire business environment (supply chain, factory processes, customers/markets) that positions a company to be both responsive and proactive regarding change.
 - **How might MEP Centers be successful in garnering attention of reactive-only companies who aren't receptive to transformational approaches?**
- MEP assistance focused on improving the resilience of individual manufacturers contributes to the improved resilience of overall supply chains.
 - **Impacts would combine bottom-up approach for manufacturers with top-down approach for manufacturing.**
 - **How might this be demonstrated?**
- There are key supply chains identified via Executive Order 14017 calling out semiconductors, high-capacity batteries, critical materials and pharmaceuticals.
 - **In addition to these, what other supply chains might the MEP program target?**

Executive Committee Working Group

- **Committee Members**

- Board Leadership

Mary Isbister

- Board Members

Mitch Magee, Pat Moulton, Matt Newman, George Spottswood

- NIST MEP Support

Rob Ivester, Cheryl Gendron, Phill Wadsworth, Wiza Lequin

- **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.

MEP Advisory Board: Center Board Outreach Program

The goal is to create a board-to-board exchange of information and communication that will strengthen the MEP National Network.

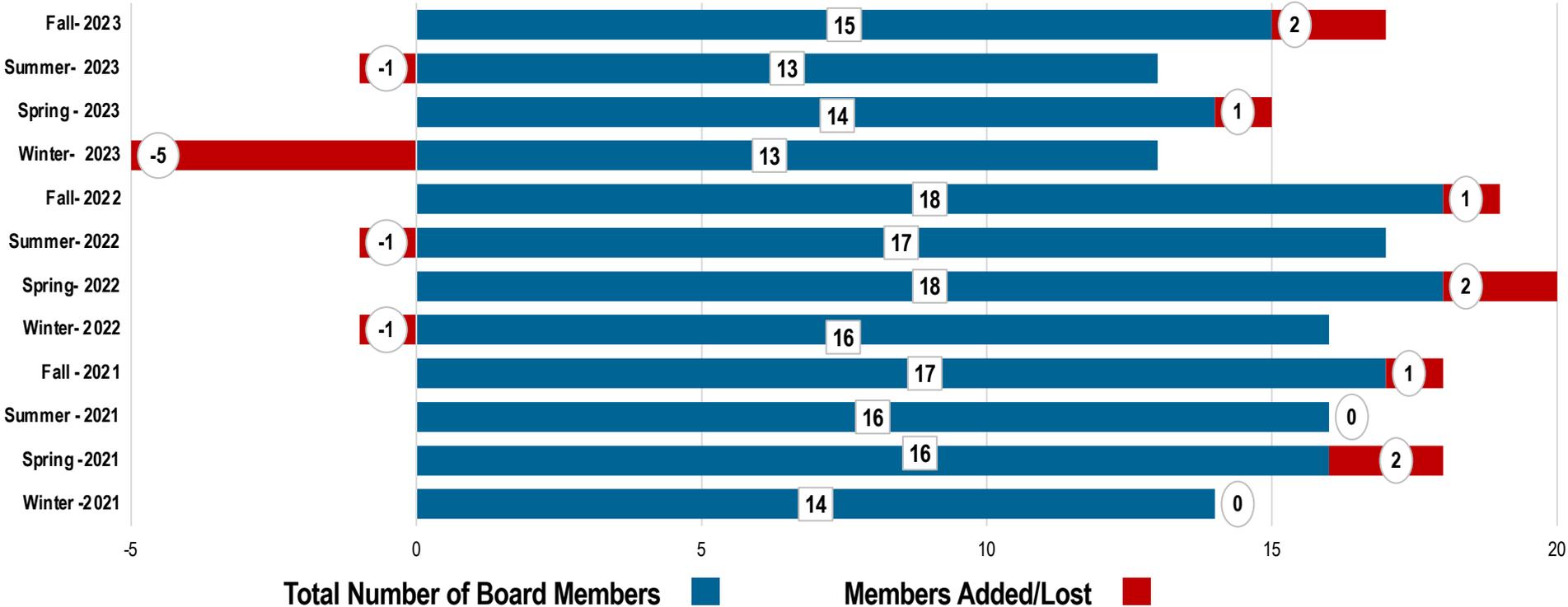
- Creation of subset of working group for outreach
- Coaching and mentoring to assist with efforts
- New questions developed into the summer/fall

MEP Advisory Board: Succession Planning for Membership

Growing list of candidates: qualifications/federal statutes/various demographics are reviewed by NIST MEP leadership.

- Two candidates currently in the vetting pipeline
- One or two additional candidates to be added in the fall
- Large cohort leaving in 2023 (seven members)

MEP Advisory Board: Loss/Gain 2021-2023



GOAL: 15 members with members starting service and rolling off in sync each year, spring and fall

2020 MEP Advisory Board Report

Spread the Good News!

- Unprecedented year
- Share with your industry network
- On the MEP Advisory Board website
 - <https://www.nist.gov/mep/about-nist-mep/advisory-board/annual-advisory-board-reports>

NIST MEP is here to support our National Advisory Board

Are there things we can do to better support you?

Future Meeting Schedule

- **Aug. 31, 2021**
 - Virtual or Phoenix, Arizona (*getting closer to clarity!*)
 - Mark your calendar for **Aug. 30-31, 2021**
 - MEP's National Network Update Meeting plus the Board Meeting

Option to stay for the Foundation for Manufacturing Excellence (FORME's) Best Practice Conference through Thursday at 12:00 p.m.

2022 Meeting Schedule* Planning is Underway: Details Coming Soon

MEP Advisory Board

Wed., March 9, 2022

Gaithersburg, Maryland & NIST
Campus/prior to Hill Day

MEP Advisory Board

Wed., June 8, 2022

Tulsa, Oklahoma – Finally!!

MEP Advisory Board

Sun., Sept. 18, 2022

Location TBD/Co-located with
the MEPNN Summit

Thank You

For the Full Presentation, Please contact Cheryl Gendron at
Cheryl.Gendron@nist.gov

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