

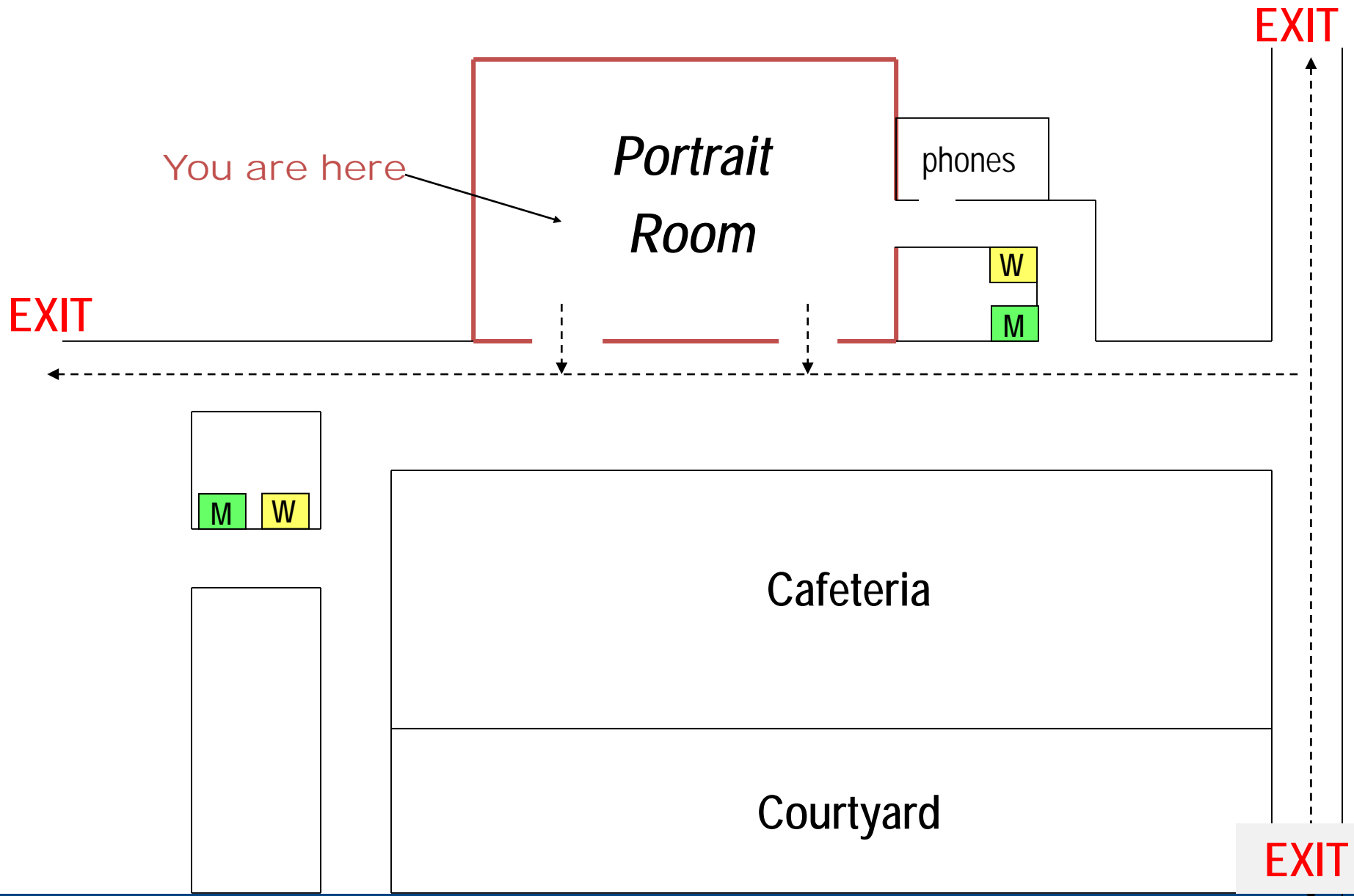


MAKING AN IMPACT ON U.S. MANUFACTURING

NIST
National Institute of
Standards and Technology
U.S. Department of Commerce

MEP Advisory Board Meeting

Wednesday, September 27, 2017



Wednesday, September 27, 2017

Non-FACA programming*

8:00 – 8:05 a.m.	Board Meeting Logistics
8:05 – 8:45 a.m.	Welcome and Introductions <ul style="list-style-type: none">• Opening Remarks• Board and Audience Introductions• Welcome New Board Members
8:45 – 9:45 a.m.	MEP National Network Strategic Plan 2017-2022 and Future is Now (FIN) <ul style="list-style-type: none">• <i>Board Feedback & Discussion</i>
9:45 – 10:00 a.m.	Break* <ul style="list-style-type: none">• <i>Board Feedback & Discussion</i>



Wednesday, September 27, 2017 Non-FACA programming*

Continued...

10:00 – 10:30 a.m.	Working Group Wrap Up - <ul style="list-style-type: none"> Connecting User Facilities and Labs with SMMs MEP National Network Learning Organization <i>Board Discussion</i>
10:30 – 11:15 a.m.	Board Governance/Open Items <i>Board Discussion</i> <ul style="list-style-type: none"> Future Topics and Working Groups
11:15 – 11:30 a.m.	Wrap-up/Public Comments
11:30 – 12:15 p.m.	Lunch* <ul style="list-style-type: none"> Building 101, Dining Room A/B (<i>food from cafeteria</i>)
12:15 – 5:00 p.m.	MEP Advisory Board – Visits on the Hill* <ul style="list-style-type: none"> NIST Legislative Affairs to facilitate visits with Congressional staff for interested Board Members <ul style="list-style-type: none"> <i>Senate Subcommittee on Space, Science and Competitiveness staff</i> <i>House Subcommittee on Research and Technology staff</i>



Welcome and Introductions

- **Jeffrey Wilcox**, MEP Advisory Board Chair
- **Dr. Phil Singerman**, NIST Associate Director for Innovation and Industry Services
- **Dr. Kent Rochford**, NIST Acting Director and Acting Under Secretary of Commerce for Standards and Technology
- **Carroll Thomas**, NIST MEP Director



Welcome, Dr. Phil Singerman

NIST Associate Director for Innovation and Industry Services



Welcome, Dr. Kent Rochford

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



Welcome New Members



George Spottswood
Quality Filters
Alabama
May 2017



Leslie Taito
Hope Global
Rhode Island
July 2017



NIST MEP FY 2017 Spend Plan

(as of 9/15/17)

	(\$ millions)
Enacted Appropriation	\$128.0
Recoveries and Carryover	\$ 20.3
<u>Total Available Funding:</u>	<u>\$148.3</u>
Center Renewals /a	\$103.4
Strategic Competitions /b	\$ 21.4
Contracts	\$ 3.8
NIST MEP Staff/Overhead	<u>\$ 15.5</u>
Estimated remaining /c :	\$ 4.2

- a) Renewals for all Centers provide at least 12 months funding from FY 2016 / FY 2017 funds.
 b) Strategic competitions include first through third round embedding projects, new performance-based rolling NOFO, and Hurricane Harvey awards, using recoveries and carryover funding plus some unexpended contracts funding.
 c) Unexpended Center funding from FY 2017 will be proposed for Strategic Competition funding in FY 2018.



Legislative Outlook

(as of 9/15/17)

President's FY 2018 Budget Request

- Program proposed for elimination with \$6 million for wind-down

FY 2018 Appropriations Status

- Continuing Resolution funding of \$24 million through 12/8/17
- Appropriation Committee Actions
 - House Omnibus at \$105 million
 - Senate Mark at \$130 million
- Final Appropriation TBD



NIST MEP FY 2018 Projected Spend Plan

(In the Continuing Resolution)

	(\$ millions)
Continuing Resolution Funding (thru 12/8/17)	\$24.0
Estimated Carryover from FY 2017	<u>\$ 4.2</u>
Total Available Funding	\$28.2
 <u>Planned Expenditures:</u>	
Centers Renewals	\$21.0
Strategic Competitions	\$ 4.2
Contracts	\$ 0.0
NIST MEP Staff/Overhead	<u>\$ 3.0</u>
Total Planned Expenditures	\$28.2



NIST MEP FY 2018 Projected Spend Plan

(Full Year at Senate Mark)

(\$ millions)

Full Year Appropriation	\$130.0
Estimated Carryover from FY 2017	\$ 4.2
Total Available Funding	<u>\$134.2</u>

Planned Expenditures:

Centers Renewals	\$110.0
Strategic Competitions	\$ 4.2
Contracts	\$ 5.0
NIST MEP Staff/Overhead	<u>\$ 15.0</u>
Total Planned Expenditures	\$134.2



MEP National Network 2017 – 2022 Strategic Plan

Bernadine Hawes, Vice-Chair, MEP Advisory Board

Carroll Thomas, MEP Director



Mission Statement—Core Purpose



- Current Mission – Enhance the productivity and technology performance of U.S. manufacturing.
- ***Proposed Mission – Strengthen and empower U.S. manufacturers.***



Vision Statement



Driving Force

U.S. Manufacturing pre-eminence to ensure long-term strength of the U.S. economy and dominance in our national security.

Current Vision Statement:

Changing the way the world defines manufacturing.

Proposed Vision Statement:

We are the go-to resource for America's manufacturers ensuring U.S. manufacturing is resilient and leads the world in advanced manufacturing innovations.



Core Values (from the Brand Project)



The core values are the few strong and enduring beliefs that the MEP National Network holds to be true. They are the beliefs that are most important to the MEP National Network brand and require no external justification.

- Needs of Industry:** We are passionate about advancing manufacturing.
- Customer Focus:** We care deeply about serving manufacturers.
- People:** We empower one another through collaboration.
- Excellence:** We are rooted by our deep experience in manufacturing.
- Results Driven:** We are not afraid to roll up our sleeves.
- Accountability:** We shape the future of manufacturing.



Future is Now Initiative

Manufacturing is Transforming

- New technologies are driving Change
- Solutions to complex challenges created by technology will be necessary for SMMs to compete and grow
- Only Centers leveraging their capabilities and partnerships as a Network can provide SMMs access to new technologies and workforce skills



MEP Program Sustainability

- Network sharing will provide more services increasing penetration and impacts
- Network knowledge sharing enables all Centers to provide expert advice to be a “Go-To” resources for manufacturers
- Consistent Network branding and delivery enhances funding through improved performance and visibility



Network Principles and Behaviors: Based on both a Center and Network focus

Key Principles

Behaviors

Cooperation between Centers

Ready to assist for in-state and multi-state projects

Obligation to share resources and Best Practices

Actively providing assistance to solve another Center's business issues

Responsibility to adopt a common culture

Share values and approaches to support rapid network development

Support the use of "Go-To" Centers for expertise

Comfortable asking another Center for expertise to solve a client problem

Commitment of large Centers to actively help smaller Centers

Readiness of large Centers to support a smaller Center with resources and expertise

Willingness to take risks to develop the Network

Proactively engage in the Network knowing that it is new with open questions



Integrated Mission and Vision for the MEP National Network

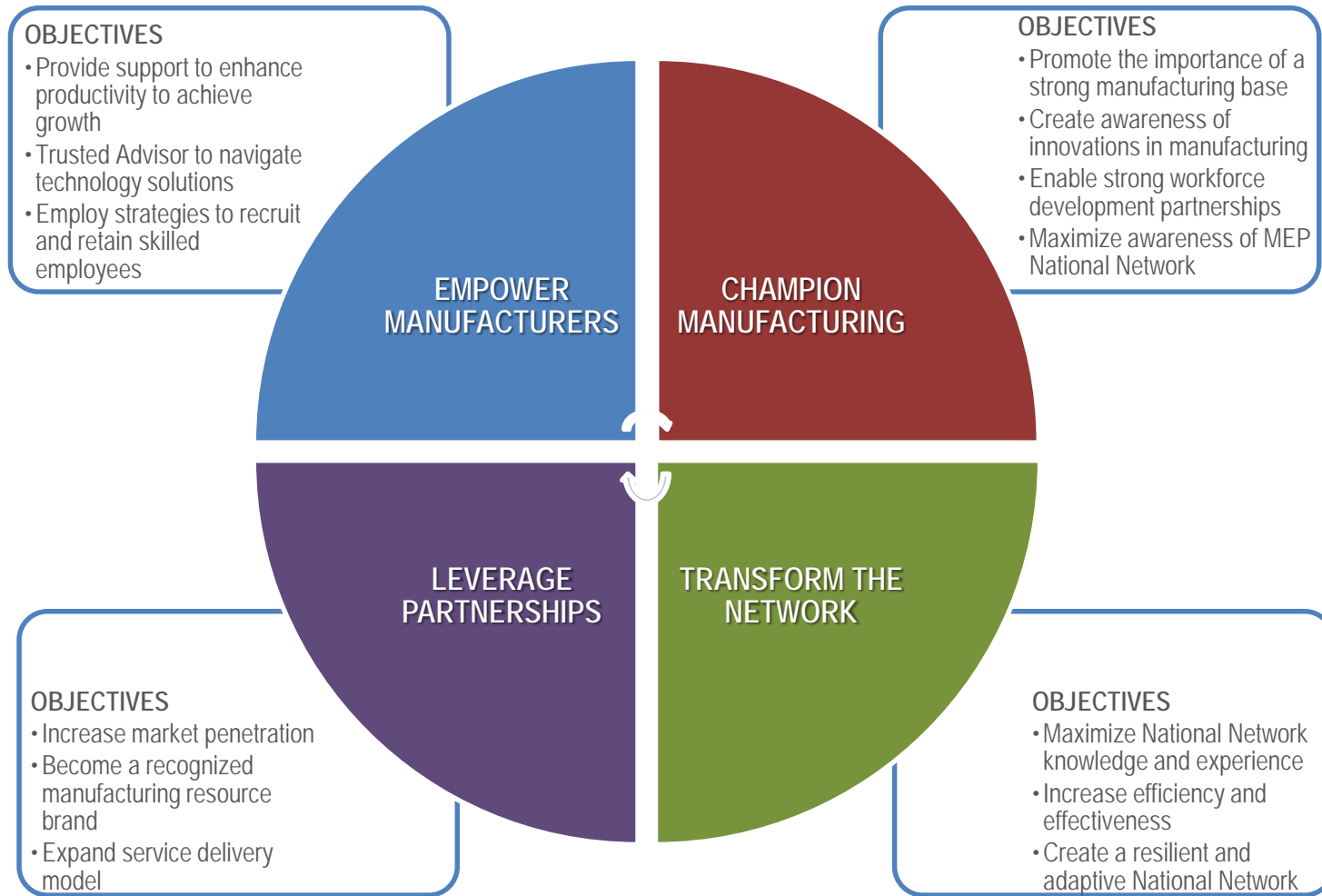
Integrating strategic focus areas into our vision of who we will be...



The go-to trusted resource for growing U.S. manufacturing today and in the future!

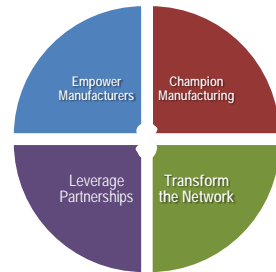


MEP National Network 2017-2022 Strategic Plan



Network Priorities for the Next 18 Months:

- ▶ Create an integrated National Network Service Delivery System
- ▶ Update National-level Partnerships and Performance Support Services
- ▶ Define Areas of Focus for Manufacturing Technology Advances
- ▶ Develop Supply Chain National Services and Information and Technology Access
- ▶ Build Infrastructure for National Network Learning Organization



MEP National Network Significant Long-Term Goals

Who we will be in 10 years...



- 1. The MEP National Network is known and recognized by U.S. manufacturers as the go-to resource.*
- 2. The MEP Centers triple the number of manufacturers served annually.*
- 3. The MEP National Network impact numbers are increased four-fold.*



Five -Year Measures of Success



As the go-to resource for U.S. manufacturers...

1. Recognized by small and medium-sized manufacturers as a valuable and essential resource for delivering advanced technology solutions and cited by key manufacturing stakeholders (local, state, federal) as integral to growing U.S. manufacturing ecosystems.
2. We have increased our market penetration as an integrated national network by 20%.
3. As leaders delivering integrated digitalization and cybersecurity assistance to dispersed supply chains, we have embraced Industry 4.0 in our own operational excellence.



Eighteen-Month Measures of Success



- Piloted integrated national networked approach to delivery system engaging 50% of Centers in multi-center delivery projects.
- Increased small/rural engagements through 3rd party partnerships by 10% and increased longer-term impactful projects with these smaller firms by 5%.
- Attained Operational Excellence in 25% of Centers' operations and in 50% of NIST MEP administrative support.
- Increased awareness of the MEP National Network brand by 10% over base brand recognition measurement a year after the Network launches the brand.



What is Next?

September 27

- Advisory Board Ratifies Strategic Plan/New Working Groups

November

- Baseline Current Status of the MEP National Network

Jan-Feb
2018

- NIST MEP Champions Initiate Working Groups

February
2018

- Progress on MEP National Network Presented

March
2018

- Engage Center Boards



Morning Break



Working Group Wrap Up

Jeffrey Wilcox, Chair, MEP Advisory Board

Carolyn Cason, MEP Advisory Board

(Mary Ann Pacelli, NIST MEP stepping in for Carolyn Cason)

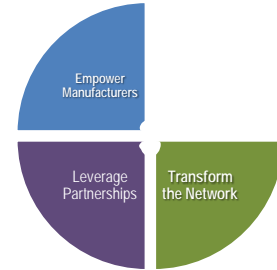


Discussion

- Connecting User Facilities and Labs with SMMs
- MEP Learning Organization
- Board Feedback & Discussion



Discussion Topics for the Board



MATTR

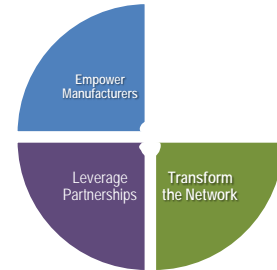
- Success will take on many different forms as MATTR progresses going forward
 - ✓ Solving problems of MEP Center client small manufacturers via NIST Lab staff, capabilities, research, services
 - ✓ Providing manufacturer / market intelligence to NIST Lab research via MEP Center queries of small manufacturing clients
 - ✓ Potential expansion to include other tech resources (outside NIST)

Embedding MEP Centers into Manufacturing USA Institutes

- As Embedding projects progress, numbers of small manufacturers engaged in work and markets related to Institute technology areas will continue to increase
- Projects are working toward sustainable relationships beyond NIST MEP 2 year project investments and development of nationally networked capabilities for MEP Centers to be able to serve small manufacturers in these areas

BOARD: *Any guidance on priority focus areas and/or areas to avoid for MATTR, or guidance on Embedding sustainability and national capability development?*





Discussion Topics for the Board

Define and Implement MEP-U type System

Will include

- ✓ Learning content for National Network
- ✓ Continuous Learning: Communities of Practice, Working Groups
- ✓ Opportunity for Networking

Current Actions

- ✓ Request for Information (RFI) to inform Statement of Work

For Discussion

After review of the RFI draft (included in Board Packet)

- ✓ What other questions might we ask?
- ✓ What experience do any of you have with Learning Systems?
- ✓ What organizations might we benchmark?

What other questions might we ask? What experience do any of you have with Learning Systems?
What organizations might we benchmark?



Board Governance/Open Items

Jeffrey Wilcox, Chair, MEP Advisory Board

Matthew Newman, MEP Advisory Board



Board Advocacy

Matthew Newman, MEP Advisory Board



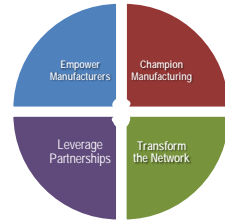
Discussion

Carroll Thomas, MEP Director

- Future Working Groups
- Board Development Initiative



Looking Forward: MEP Advisory Board Working Groups



Working Group	Leadership	Focus
Advisory Board Executive Committee Working Group	Jeff Wilcox, Chair	Related to Board governance; includes future chair and vice-chair
DOD Partnership Working Group	TBD	Establishment of MEP National Network role in manufacturing as it relates to defense industrial base
Performance, Research and Analysis Working Group	TBD	Creating performance-based diagnosis and feedback to Centers service, enabling applications to Center self-assessment, Center-to-Center sharing.



NIST MEP Board Development Initiative

Update on Center Boards & Plan for NAB Meeting in March

Assistance for MEP Center Boards

- 30 centers have engaged NIST Board Development support
- **BoardSource** Self-Assessments:
 - 15 completed (6 stand alone, 9 combined with Action Planning)
 - 2 in progress; 2 more interested
- Facilitated Action Planning Sessions:
 - 6 complete
 - 4 scheduled/planned
- Training for new or reconstituted Boards:
 - 6 completed
 - 5 scheduled/planned

Proposed Plan for NAB

- Participate in **BoardSource** Self-Assessment in January
 - Results in February
- Conduct interviews with each NAB Board Member (February)
 - Feedback about Assessment
 - Identify what they would personally like to achieve as part of the NAB
- Facilitate Action Planning session in March (in conjunction with Hill Day)
 - Also share findings from center board assessments



Wrap Up/Public Comments

Jeffrey Wilcox, Chair, MEP Advisory Board

Bernadine Hawes, Vice-Chair, MEP Advisory Board



Future Meeting Schedule



2018

- March 7, 2018 – Washington, DC
- June 13, 2018 – Location TBD
- September 25, 2018, with FORME's Best Practice & MEP National Network Update

2019

- February 26, 2019 – Location TBD
- June 18, 2019 – Location TBD
- September 11, 2019 – Possible Post-Summit **New Date**

Calendar invites to follow once confirmed



Thank You

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