



**MEP • MANUFACTURING
EXTENSION PARTNERSHIP®**

MEP Advisory Board

March 29, 2019 Board Meeting

NIST

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





Meeting Agenda Details

8:00 a.m. – 8:05 a.m.

Board Meeting Opening/Logistics

8:05 a.m. – 8:25 a.m.

Welcome and Introductions

- Opening Remarks
- Welcome from NIST Leadership
- Board and Audience Introductions

8:25 a.m. – 9:10 a.m.

Director's Update, including the MEP National Network™ 2017-2022 Strategic Plan Update

9:10 a.m. – 9:55 a.m.

Working Group Update

- Supply Chain Development Working Group
 - *Board Feedback & Discussion*

9:55 a.m. – 10:10 a.m.

Break



Continued...

10:10 a.m. – 10:50 a.m.

Presentation: Critical Needs in the Area of DoD's Manufacturing Industrial Base

- Robert Gold, Director, Technology and Manufacturing Industrial Base, Office of the Undersecretary of Defense for Research and Engineering, Department of Defense (DoD)
 - *Board Feedback & Discussion*

10:50 a.m. – 11:20 a.m.

Presentation: Cornerstone and the MEP National Network

- Carrie Hines, Executive Director, Foundation for Manufacturing Excellence / FORME

11:20 a.m. – 11:45 a.m.

Working Group Update

- Performance/Research Development Working Group
 - *Board Feedback & Discussion*

11:45 a.m. – 12:10 p.m.

Working Group Update

- Executive Committee Working Group
 - *Board Feedback & Discussion*

12:10 p.m. – 12:30 p.m.

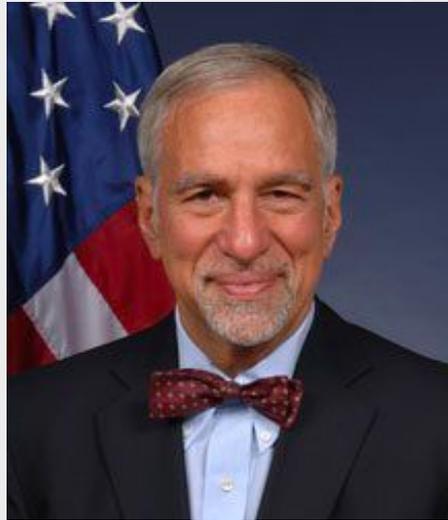
Wrap-up/Public Comments



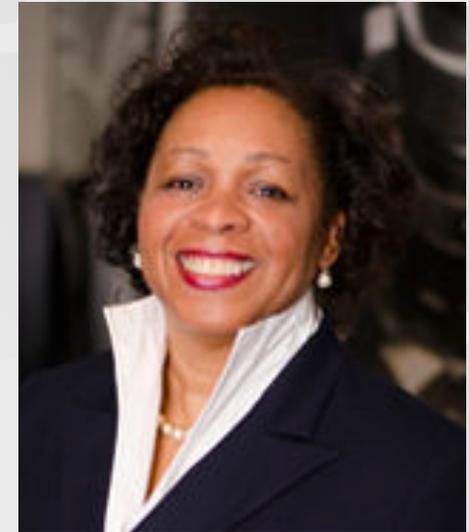
Welcome and Introductions



Jeffrey Wilcox
MEP Advisory Board Chair



Dr. Phillip Singerman
NIST Associate Director for
Innovation and Industry Services



Carroll Thomas
NIST MEP Director

Guests

- Name
- Name of organization
- How many years involved with MEP



MEP Director's Update

- 1 MEP Program Budget Outlook/Spend Plan
- 2 Legislative View/Update
- 3 MEP National Network Strategic Plan Update
- 4 MEP Program 'By the Numbers'
- 5 Center Leadership Team Update
- 6 MEP National Network Summit
- 7 MEP on the M.O.V.E.



MEP Program Budget Outlook

(as of 3/11/2019)



FY 2019 Appropriation Status

Appropriation approved 2/15/2019



FY 2020 Appropriation Status

Proposed for elimination in the President's Budget



NIST MEP FY 2019 Projected Spend Plan

(\$ millions)

Available Funding:

Full Year Appropriation	\$140.0
Carryover from FY 2018	\$ 6.8
Funding from Other Agencies	<u>\$ 2.8</u>

Total Available Funding **\$149.6**

Planned Expenditures:

Center Renewals	\$120.0
Strategic Competitions	\$ 4.5
Contracts	\$ 7.1
NIST MEP Labor	\$ 9.8
NIST and Program Overhead	<u>\$ 8.2</u>

Total Planned Expenditures **\$149.6**



Legislative View

GAO



Report was completed and issued on March 7, 2019

Pursuant to the AICA, (P.L. 114-329), the GAO, **in consultation with the MEP Advisory Board**, submitted to Congress a report analyzing the effectiveness of the change in cost share, the engagement and characteristics of Center services and what effect the cost share change has had on Center services. This report is now public.

NIST

Report

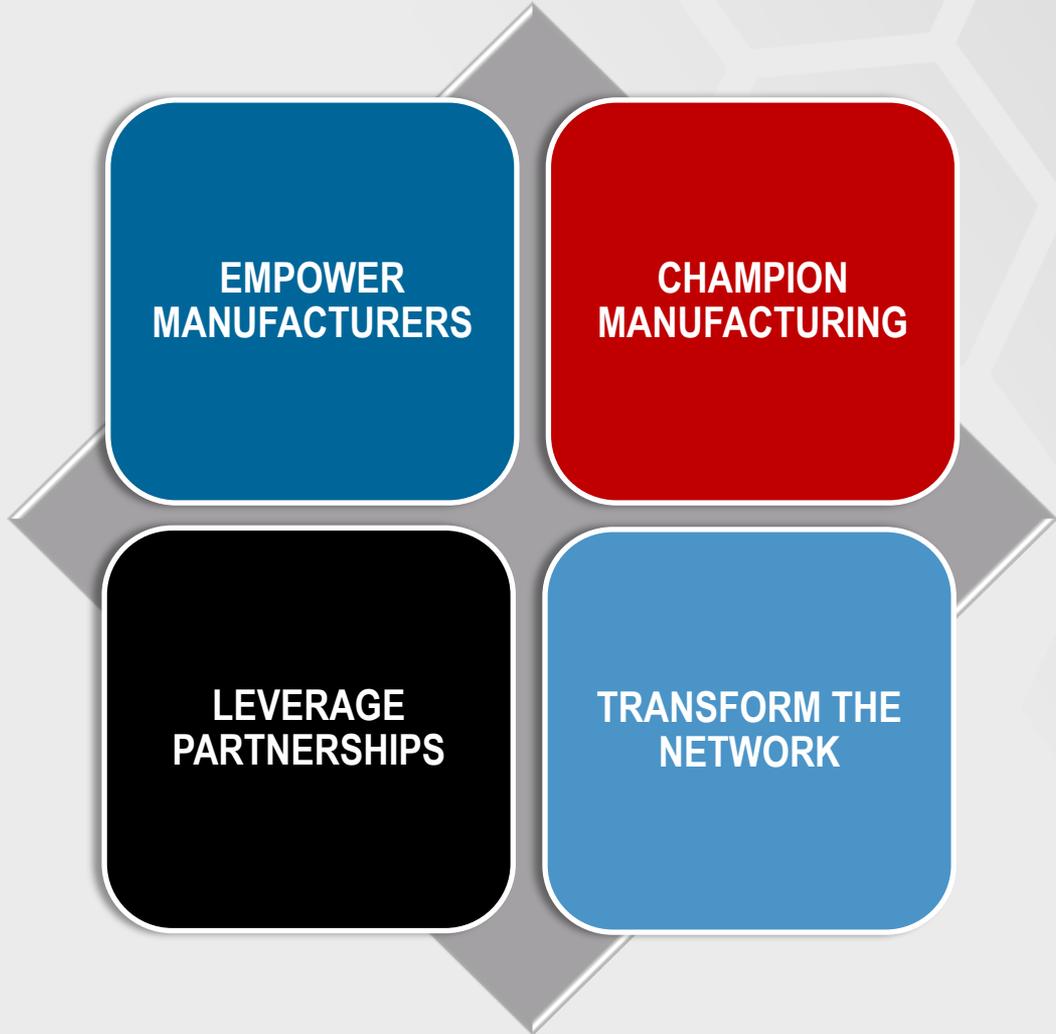


Draft completed and expected delivery to Congress by early April

Pursuant to the AICA, (P.L. 114-329) the Director shall submit to Congress a report on the 1st and 2nd years of operations for Centers from the recompetition. The report provides details on the engagement in services provided by Centers, the characteristics of services provided, and the volume and type of services.



MEP National Network™ 2017-2022 Strategic Goals



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

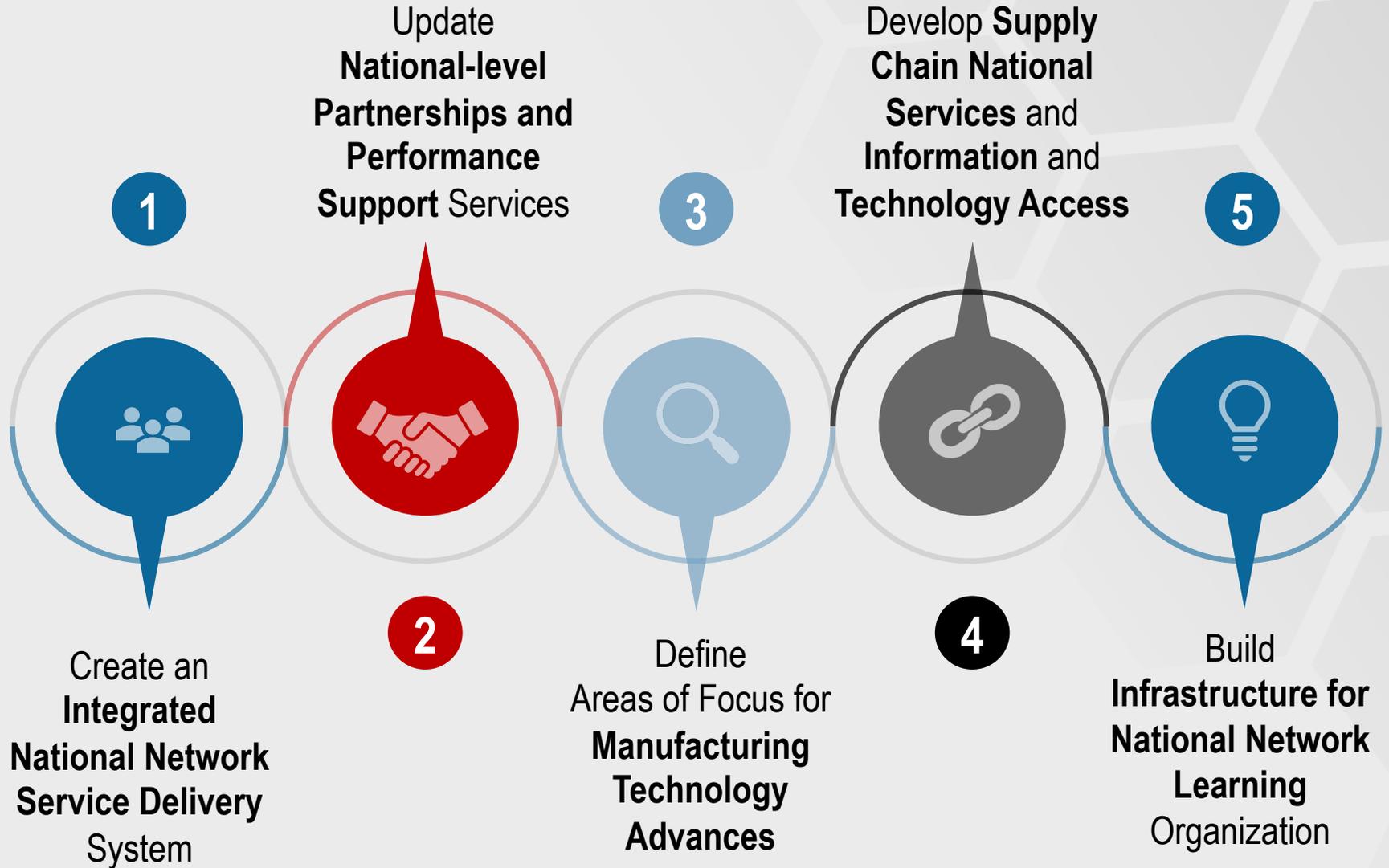
Objective— leverage national, regional, state and local partnerships to gain substantial increase in market penetration; identify mission-complementary advocates to help MEP become a recognized manufacturing resource brand; build an expanded service delivery model to support manufacturing technology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

Objective— 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.

Objective— 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.



18-Month Network Priorities





18-Month Measures of Success - Baselines

Dashboard

Integrated National Network:

Engaging **50%** of Centers in multi-Center delivery projects
Increase market penetration as an integrated national network by **20%**

Efficiency in Small/Rural Engagements:

10% increase of engagements through 3rd party partnerships and
5% increased longer-term impactful projects

Center and Program Office Operational Excellence:

Attained Operational Excellence in **25%** of Centers' operations and in
50% of NIST MEP administrative support

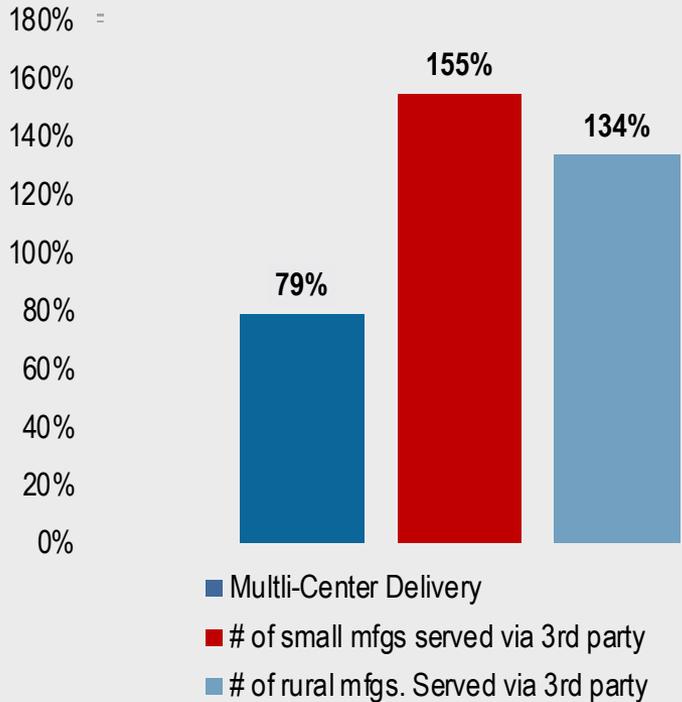
Increased Visibility:

Increased MEP National Network brand awareness by **10%**
over baseline

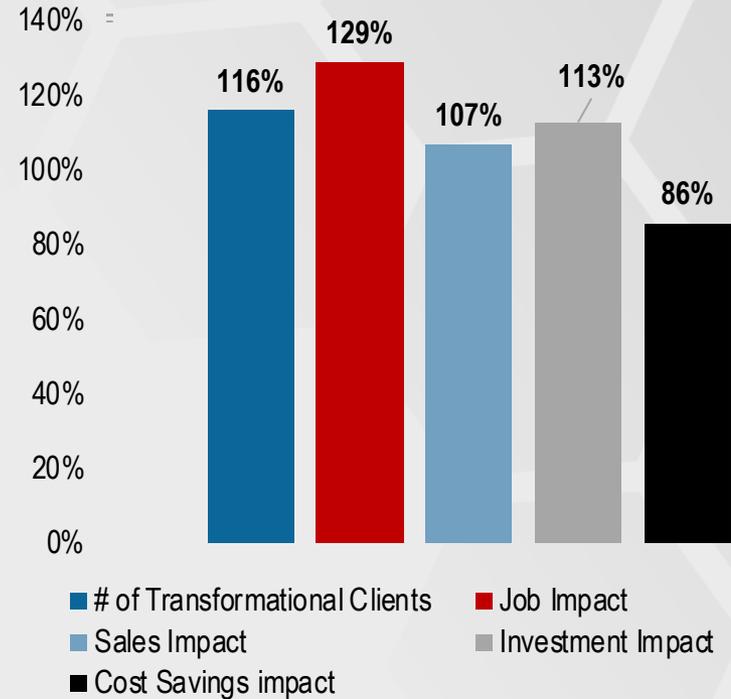


Progress on 18-Month Measures of Success to Goals

Percent of Goal as of Q4



Percent of Goal as of Q3



Increased awareness of the MEP National Network brand by 10% over base brand recognition measurement a year after the Network launches the brand.

- For Q4 MEP National Network had **370 instances of branded searches vs baseline of 350**
- For Q4 MEP National Network webpage received **838 page views vs baseline of 695**
- For Q4 MEP National Network webpage had **61 backlinks vs baseline of 14**



18-Month Measures of Success to Goals Operational Excellence

MEP Centers - Tons of incredible work happening

- **IL, ND, SD, WI** - All are hosting Manufacturing Conferences this year to attract new clients
- **IA, MI** - Developing Industry 4.0 demonstration facilities
- **SC** - Launched a TV commercial to expand their marketing efforts
- **NJ** - Expanding internship training programs
- **VA** - Executing the new, more efficient process for Prospect-to-Client conversion
- **HI** - Increased the number of manufacturing companies getting Hawaii SBIR funding
- **CT** - Aligned with CT Business & Ind Assn for outreach & new products/services and vice versa
- Across the board – **37 Centers engaged in 14 CAP proposals**

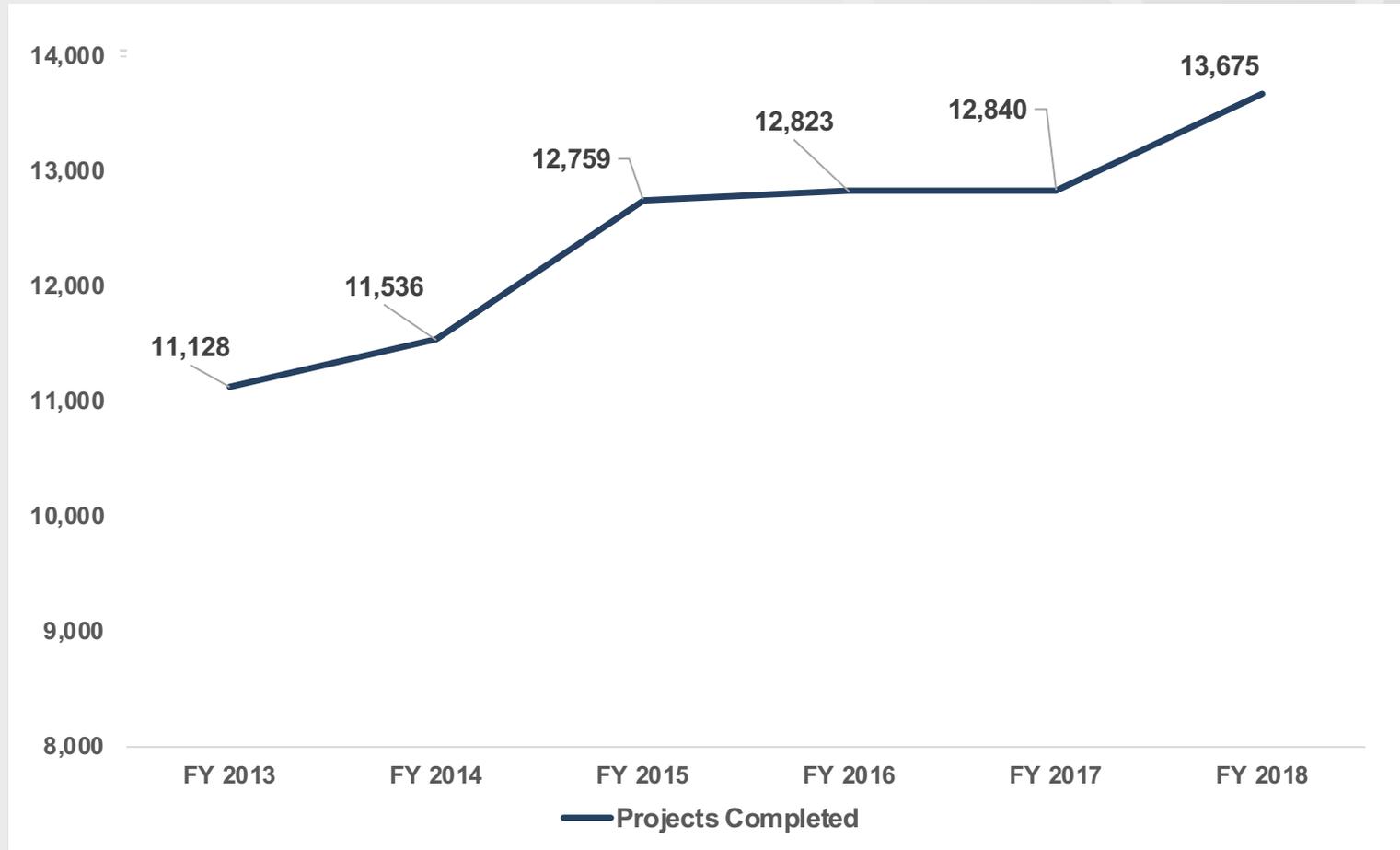
NIST MEP - Not to be outdone!

- Aligning Panel Review feedback with RM coaching
- Complete a draft of the Center Compliance Guidelines
- Establish and implement SOPs for competitive and non-competitive awards and train staff
- Reduce reporting burden on MEP Centers by 10%



Growth in Projects Completed

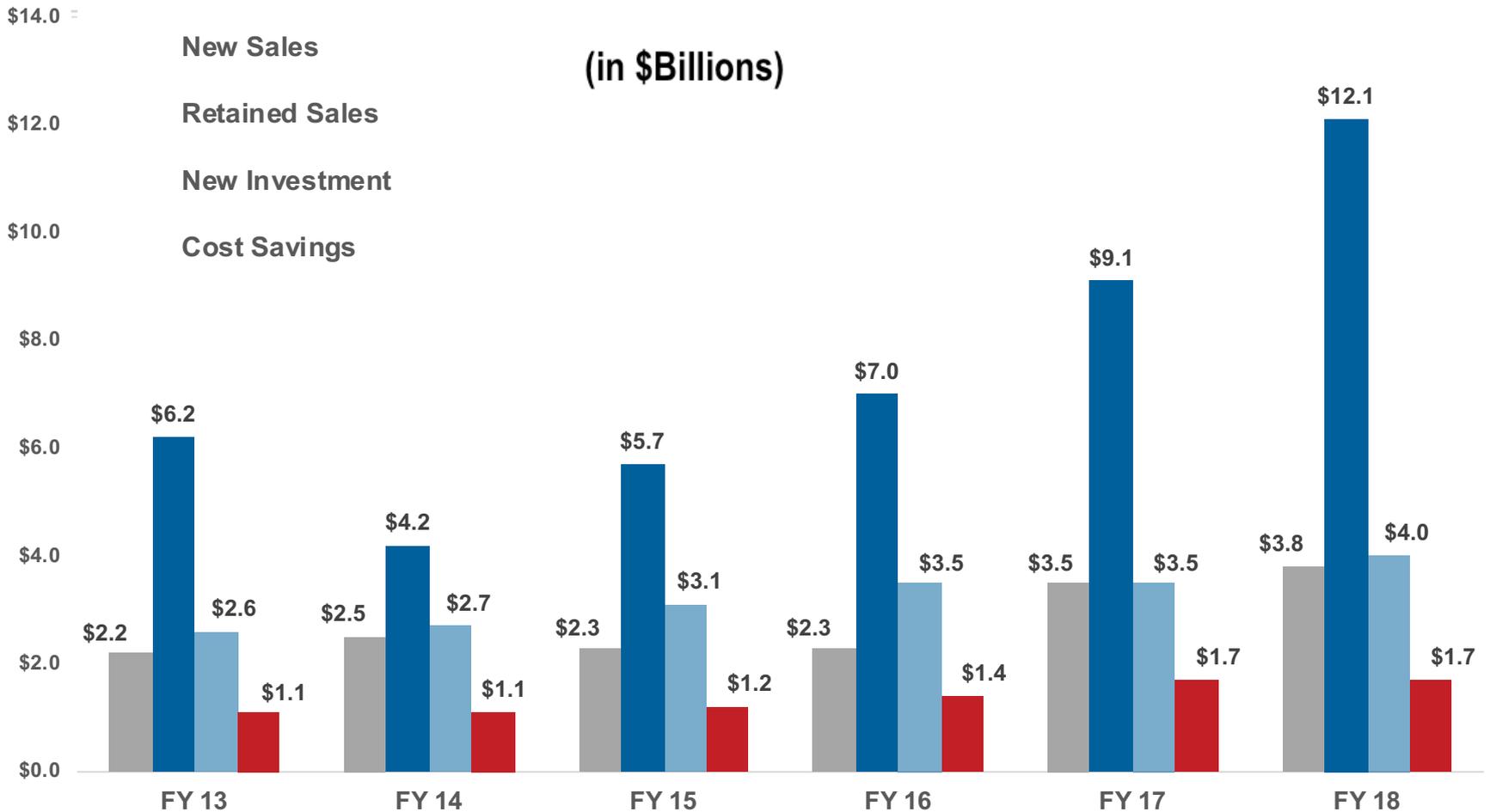
FY13 - FY18





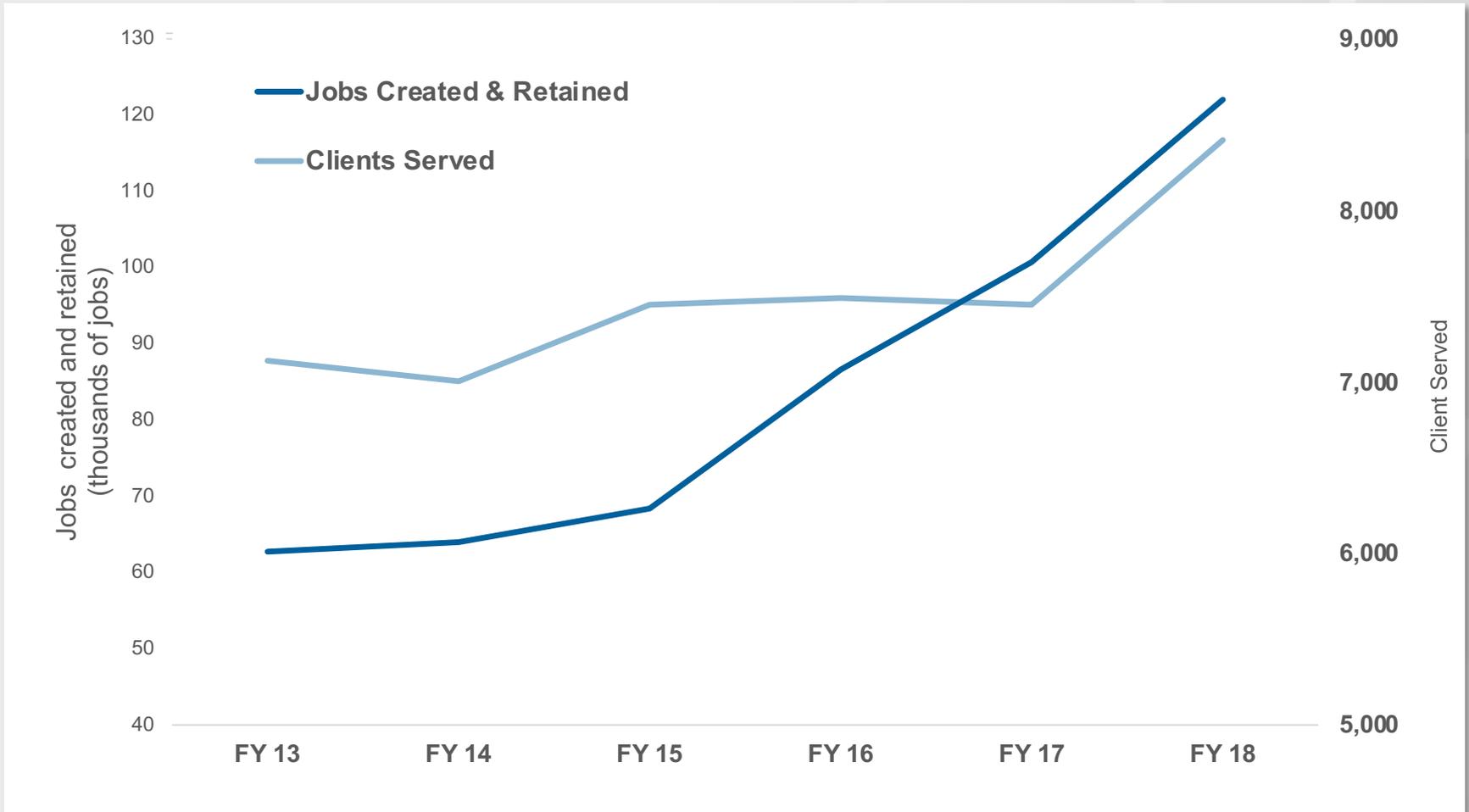
MEP Program Impacts Grow Over Time

FY13 - FY18





Growth in Jobs Created & Retained & Clients Served FY13 - FY18





Current 3 Year Market Penetration (FY16 – FY18) By Establishment Size Category Based on Current Program Funding (\$130M)

Size Category	Total # Of Establishments (% of Total) 2016	Total # of Employees (% of Total) 2016	Market Penetration with Current Funding
1-19 employees	202,208 (69.4%)	1,146,176 (9.9%)	5,369 (2.7%)
20-49 employees	43,646 (15.0%)	1,366,125 (11.8%)	3,966 (9.1%)
50 – 99 employees	20,891 (7.2%)	1,470,753 (12.7%)	2,840 (13.6%)
100-249 employees	16,421 (5.6%)	2,520,270 (21.7%)	2,675 (16.3%)
250-499 employees	5,397 (1.9%)	1,859,072 (16.0%)	947 (17.5%)
>= 500 employees	2,980 (1.0%)	3,228,024 (27.9%)	522 (17.5%)
TOTALS	291,543	11,590,420	16,319

Source: 2016 County Business Patterns and NIST MEP Administrative Data. *Based on 38,120 projects completed.



MEP National Network: Center Leadership Team

Bill Donohue (VA)



Tom Bugnitz (CO)



Ethan Karp (OH)



Chuck Spangler (SC)



Jim Watson (CA)



Bonnie Del Conte (CT)



Jim Shillenn (PA)



Buckley Brinkman (WI)



Jennifer Hagan-Dier (TN)



Mike Coast (MI)



Carroll Thomas – Director

Dave Cranmer – Deputy Director



MEP National Network: Center Leadership Team

Major Themes: Go-to Collaborative Center, Operating Principals

Working Committees:



Outreach Initiative (Tom Bugnitz)

- Regional Meetings, Summit
- One-Pager



Multi-state Engagement (Bill Donohue)

- MOU
- Multi-state engagement project and process



Knowledge Sharing (Buckley Brinkman)

- Leveraged Learning Framework: Moving from Knowledge Sharing to Learning
- Mapping Knowledge Sharing/Learning Platforms



MEP National Network: Center Leadership Team

Working Committees Continued:



- **Network Evolution (Bonnie Del Conte)**
 - Understanding the sequence of healthy evolving of the National Network



- **Manufacturing Technology Solutions (Mike Coast)**
 - Determining how to handle manufacturing technology requests to partner, share and leverage other Centers



- **Communication (Jim Shillenn)**
 - Determining communication process
 - Documenting communication channels
 - Highlighting Centers collaborating on projects; CLT activities



Around the MEP National Network

Industry 4.0 Activity

- **Growth of Cybersecurity Practice Area Across Network**
 - Almost all MEP Centers (49 of 51) participating in Cybersecurity Working Group
 - Numerous workshops, webinars and other interactions to provide cybersecurity awareness materials and training to MEP Centers and SMM clients: over 3,100 SMMs served, over 170 awareness/training events and over 500 projects conducted
- **MEP Centers Partnering with Manufacturing USA Institutes**
 - 14 Lead MEP Centers Piloting Embedding Projects, one with each Manufacturing USA Institute; many more MEP Centers participating
 - Training and assessments, development and deployment of expert Network resources
 - Development of sustainable business models
- **Industry 4.0 Center Training and Events**
 - Awareness workshops and training in a wide variety of Industry 4.0 technology focus areas for both MEP Center practitioners and SMMs
 - MEP Centers featured at Industry 4.0-related conferences and events



Around the MEP National Network

Performance-based Peer Panel Review Update

Round 1

Completed
Dec 2017 - Feb 2018

CO, CT, FL, IN, MI,
NH, NC, OK, OR, TN,
TX, and VA

Round 2

Completed
May 2018 - July 2018

AK, ID, IL, MN, NJ,
NY, WA, WV, and WI

Round 3

Underway
Mar 2019 – May 2019

AL, AR, CA, GA, LA,
MA, MO, MT, OH, PA,
PR, UT, and VT

Round 4

To be completed
Fall 2019

DE, HI, IA, KS, ME,
MS, NV, NM, ND, SC
and WY

- Round 3:
 - Schedule adjustments resulting from partial government shutdown
 - Center Performance & Profile Report (CPPR) reviews
- 6 of the 7 legacy Centers (AZ, KY, MD, NE, RI and SD) have undergone the 5th year legislatively required Secretarial evaluation; FL to undergo evaluation this year
- Wrap up Best Practices from Round 1 & 2
 - Adding more quantitative results as a result of the Best Practice



Around the MEP National Network

MEP Extension Services Division

- **Cybersecurity**
 - Strong ongoing focus on defense manufacturing supplier assistance
 - 49/51 MEP Centers in MEPNN Cybersecurity Working Group (WG)
- **Food Industry Services**
 - MEPNN Steering Team sharing leading national capabilities development
 - National Memoranda of Understanding in process with Food and Drug Administration (FDA) and the Food Safety Preventive Controls Alliance (FSPCA)
- **Connecting MEP Center Clients with NIST Labs – MATTR**
 - Expanding to provide NIST MEP compensation to NIST Labs to deepen NIST Lab assistance to small manufacturer clients of MEP Centers
 - MEPNN WG forming to broaden MEP Centers' leverage of NIST Labs
- **Toyota Kata**
 - MEPNN WG leading national capabilities development
- **Workforce**
 - Ongoing focus on leveraging MEPNN in workforce connections with Mfg. USA Institutes
 - MEPNN WG leading national capabilities development



Around the MEP National Network

MEP Special Services and Awards

- **Policy Academy on *Strengthening Your State's Manufacturers***
 - 18 month-long cohort with KY, NJ, PR and UT began in August
 - Midpoint meeting held March 20-21, 2019 in Washington, DC
 - Second cohort to be selected in 2019-2020
- **Disaster Assistance Update – Results**
 - NIST MEP facilitated 5 awards to MEP Centers (TX, LA, FL, GA, PR) between Sept 2017 – Jan 2018, \$6.2 million total funding
 - Numerous services provided, including assessments, tools, and workshops for currently impacted and potential future impacted manufacturers
- **Competitive Awards Program (CAP)**
 - NIST MEP awarded 15 multi-center projects to MEP Centers, \$12.5 million total funding
 - Topics: Cybersecurity, food safety, medical devices, supply chain, robotics, sales/marketing for Centers, small machine shop services, and innovation
- **State Competition for MEP Center in Alaska**
 - MEP Center in Alaska awarded to University of Alaska Anchorage, start date is April 1, 2019



MEP National Network Summit

General:

- Board Meeting, Pre-Summit Programming and Networking Kick off event planned for Sunday, September 15, 2019
- Over 50 educational sessions throughout the three and one half days of program
- Anticipate 500+ Attendees

Presentations:

- MEP Center staff and partners are invited to submit session ideas by Friday, April 5, 2019. Online form being used to collect submissions:
<https://www.surveymonkey.com/r/MEPSummitSessionProposal19>
- Keynotes Proposed and Being Secured

Sponsorships:

- Sponsor/exhibitors will be in attendance to show their support for the MEP National Network and to communicate their offerings to Summit attendees
- If your company is interested or if you have suggestions for potential sponsors, please contact Cheryl Gendron



September 15-18, 2019
Atlanta, Georgia



NIST MEP on the M.O.V.E.

MEP On Virtual Engagement

- Discovered in June 2018, our HVAC system within NIST MEP's office space was deemed ineffective, **creating indoor mold levels high enough to remove all NIST MEP staff** due to health and safety
- Since the fall of 2018, 55 NIST MEP staff and contractors have been **sharing temporary space** throughout the Building 301 **with heavy telework**
- Approximately **two years are expected** to allow for the remediation and replacement of the HVAC system. The work has yet to begin
- At this time, NIST MEP staff will continue **heavy telework** until approximately **mid-May** when NIST expects to temporarily place staff within 2 or 3 buildings on campus
- Efforts to locate a longer term appropriate **temporary space** until approximately **June of 2021** for the NIST MEP Program Office have not been resolved



Supply Chain Development Working Group

- **Committee Members**

- Board Leadership

- **Matthew Newman**

- Board Members

- **LaDon Byars, Bernadine Hawes, Mary Isbister, Chris Weiser, Jeff Wilcox**

- NIST MEP Support

- **Dave Stieren, Phil Singerman, Mark Schmit**

- **Deliverable**

Guidance and perspectives on the MEP National Network 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

MEP National Network supports DOD Supply Chains in many areas, highlighted by:

- Cybersecurity assistance
- Working with the DOD-sponsored Manufacturing USA Institutes

NIST MEP seeks ongoing Advisory Board perspectives on these MEP National Network focus areas, approaches, challenges



Supply Chain WG Deliberation Highlights

Manufacturing USA Institutes

- Round 1, 2 awards operating on no-cost extensions in 2019; Round 3 awards operate through Aug 31, 2019
- Initial results and learnings summarized in March 2019 report
- Ongoing MEP – Institute partnerships evolving

LEAD MEP CENTER		MFG USA INSTITUTE & SPONSORING AGENCY
CA MEP	Round 2 Award	CESMII - DOE
CA MEP	Round 1 Award	Next Flex – DOD
DE MEP	Round 3 Award	NIIMBL – NIST
Illinois Mfg Excellence Center	Round 1 Award	DMDII – DOD
Mass MEP	Round 2 Award	AFFOA – DOD
Mass MEP	Round 3 Award	BioFab USA – DOD
Michigan Mfg Tech Center	Round 2 Award	LIFT – DOD
NC MEP	Round 1 Award	Power America – DOE
NY MEP	Round 1 Award	AIM Photonics – DOD
NY MEP	Round 3 Award	REMADE – DOE
OMEP	Round 3 Award	RAPID – DOE
PA MEP	Round 3 Award	Advanced Robotics – DOD
PA MEP	Round 2 Award	America Makes – DOD
TN MEP	Round 1 Award	IACMI - DOE



Embedding MEP into Manufacturing USA Institutes

Programmatic results and learnings documented in March 2019 NIST MEP White Paper.

- SMMs tend to explore opportunities before making decisions to commit or implement
- SMMs interested in demonstration sites and interactive experiences that help them understand technologies
- SMMs interested in state-of-the-art technologies that can be leveraged in the very near term, as opposed to R&D-based intellectual property (IP) – SMM needs must match Institute outputs
- Local resources (< 2 hour drive) are particularly helpful for engagement

LEAD MEP CENTER		MFG USA INSTITUTE & SPONSORING AGENCY
CA MEP	Round 2 Award	CESMII - DOE
CA MEP	Round 1 Award	Next Flex – DOD
DE MEP	Round 3 Award	NIIMBL – NIST
Illinois Mfg Excellence Center	Round 1 Award	DMDII – DOD
Mass MEP	Round 2 Award	AFFOA – DOD
Mass MEP	Round 3 Award	BioFab USA – DOD
Michigan Mfg Tech Center	Round 2 Award	LIFT – DOD
NC MEP	Round 1 Award	Power America – DOE
NY MEP	Round 1 Award	AIM Photonics – DOD
NY MEP	Round 3 Award	REMADE – DOE
OMEP	Round 3 Award	RAPID – DOE
PA MEP	Round 3 Award	Advanced Robotics – DOD
PA MEP	Round 2 Award	America Makes – DOD
TN MEP	Round 1 Award	IACMI - DOE

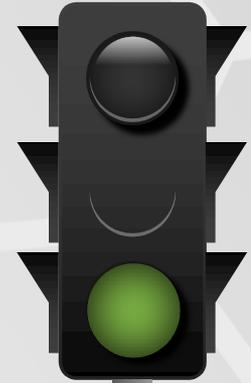


Supply Chain WG Deliberation Highlights

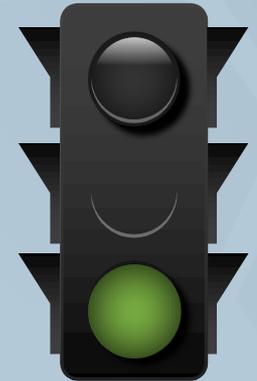
Cybersecurity

Development of Network cybersecurity assistance for small manufacturers continues to progress

- Continues to be spurred by strong partnerships w/DoD programs, OSD – still mainly driven by DFARS requirements for defense sector
- Market still not showing urgency in non-defense manufacturing sectors
- Closely also monitoring other supply chains: auto, food, e.g.
- MEP Center Leadership Team using Cyber to demonstrate operation of MEP National Network
- Also engaging NIST Labs



MEP Centers
Cyber-in-a-Box
Available



49 MEP Centers in
MEP National Network
Cybersecurity WG

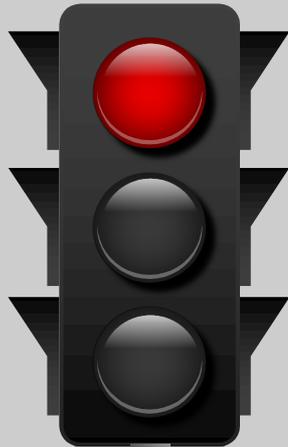


Cybersecurity and U.S. Small Businesses

Small businesses are **less likely** to have strategies in place to:

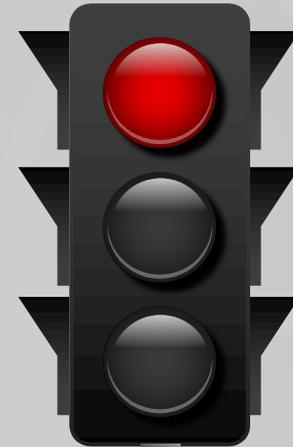
- Prevent cyber attacks
- Detect early if they occur
- Reduce damage
- Withstand financial impact of a hack or breach

Small mfgs are especially vulnerable and attacked in significant numbers.



70% of small businesses not prepared for a cyber attack*

*According to the 2018 HISCOX Small Business Cyber Risk Report



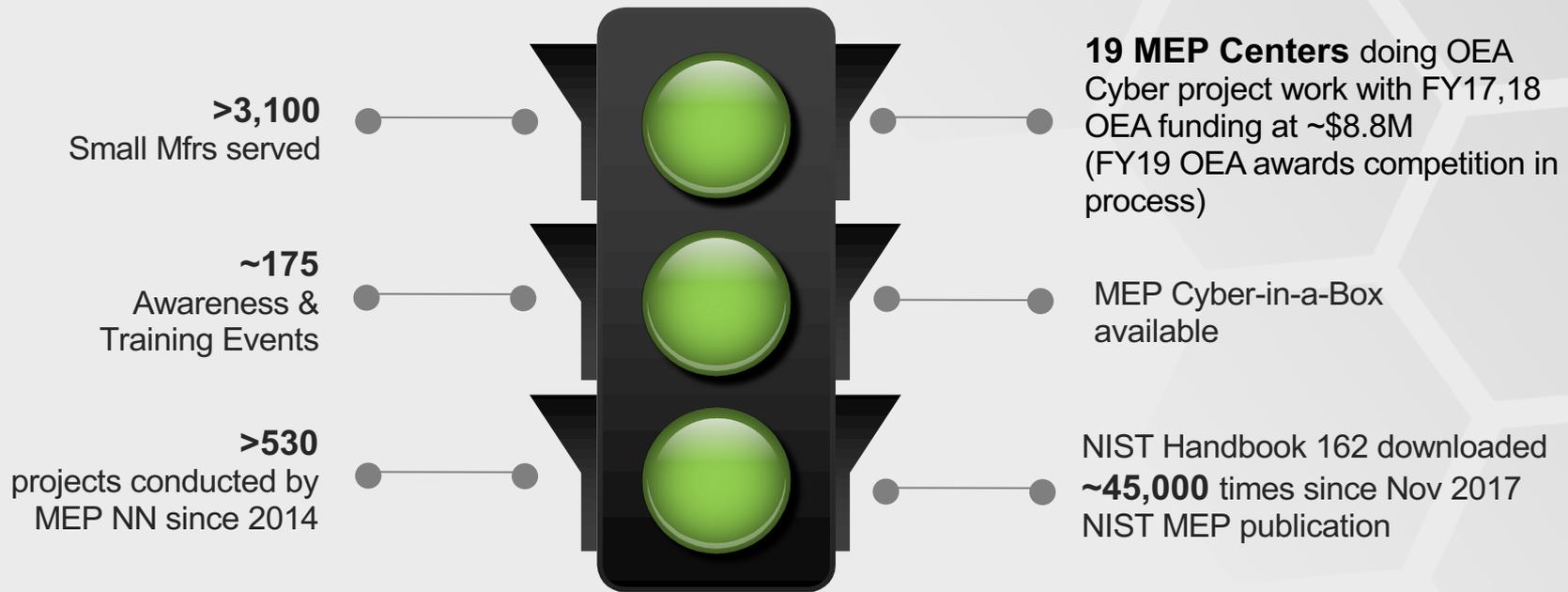
1 in 369 emails received by users in the mfg sector are malicious. 3rd highest rate among key industry sectors.**

**From the Feb 2019 Symantec Internet Security Threat Report



MEP National Network Progress: Cybersecurity Assistance Practice

March 2019

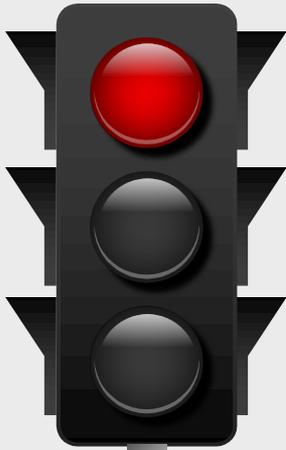


Expanding Capabilities Across the Network

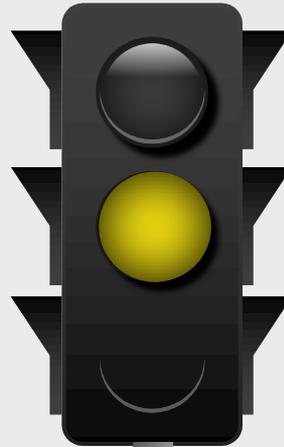


MEP National Network Cybersecurity Progress Summary

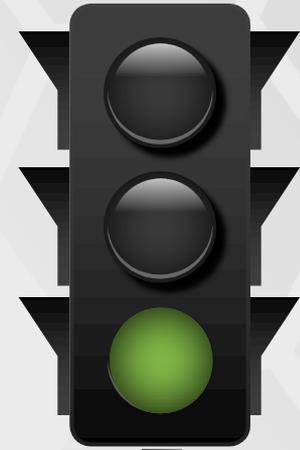
March 2019



**Defense Contractor
DFARS Compliance**



with Cyber Practice



**49 MEP Centers in
Cybersecurity WG**

**The MEP National Network has made significant progress ...
but a great deal of work remains**



Morning Break





Critical Needs in the Area of DoD's Manufacturing Industrial Base



Robert A. Gold

U.S. Department of Defense

Director, Technology and Manufacturing
Industrial Base

Office of the Undersecretary of
Defense for Research and Engineering ((OUSD(R&E))





Cornerstone and the MEP National Network



Carrie Hines
Executive Director
Foundation for Manufacturing Excellence



FOUNDATION for
MANUFACTURING
EXCELLENCE

Cornerstone and the MEP National Network

March 29, 2019

Agenda

- ASMC and Foundation Overview
- Cornerstone Organization and Mission
- Cornerstone and the MEP National Network

American Small Manufacturers Coalition:

- The American Small Manufacturers Coalition (ASMC) is a trade association of manufacturing extension centers that work to improve the innovation and productivity of America's manufacturing community.
- ASMC advocates for legislative and programmatic resources that allow our small manufacturing clients to better compete in the global marketplace. The Coalition and its members do this by increasing awareness of the importance of American small manufacturers, the challenges which they face, and the federal legislation and programs which affect them.
- One program of primary focus is the National Institute of Standards and Technology (NIST), Manufacturing Extension Partnership (MEP).

How Does ASMC Advocate?

- **Nationally:**
 - Via ASMC (and its contracted lobbying firm, K&L Gates) whom have direct contact with key Committees and members of Congress
 - Following legislation and directing local action when necessary
- **Locally:**
 - Via its MEP Center Members whom maintain ongoing, regular communications with local Congressman
 - Via its MEP Center Member clients whom visit with local Congressman in DC on Hill Day and by hosting Congressional plant tours in their districts

ASMC Board of Directors:

□ Board of Directors

- Chairman: Dave Boulay | Illinois Manufacturing Extension Center
- Vice-Chairman: Mike Coast | Michigan Manufacturing Technology Consultants
- Buckley Brinkman | Wisconsin Center for Manufacturing and Productivity
- Tom Bugnitz | Manufacturer's Edge (CO)
- Eric Esoda | Northeast PA Industrial Resource Center
- Karen Fite | Georgia MEP
- Keith Phillips | Alabama Technology Network
- Ben Rand | Insyte Consulting (NY)
- Chuck Spangler | South Carolina MEP
- Tiffany Stovall | Mid-America Manufacturing Technology Center

□ Staff

- Carrie Hines, President & CEO

Foundation for Manufacturing Excellence:

- ❑ Foundation for Manufacturing Excellence established as a 501c3 subsidiary of the American Small Manufacturers Coalition in May 2015
- ❑ Mission: The Foundation for Manufacturing Excellence mission is to be the educational foundation for NIST-MEP Centers and Trade Adjustment Assistance Centers (TACC) by providing continuing education to the nationwide network of manufacturing center members.

Who We Are:

□ Board of Directors

- Chairman: John Lloyd | MANTEC
- Vice-Chairman: Michael R. O'Donnell | Center for Industrial Research and Service
- David Snow | Purdue University Technical Assistance Program
- Ethan Karp | MAGNET
- Wes Kelly | South Dakota Manufacturing & Technology Solutions
- John Kennedy | NJMEP
- Michelle Fusak | Oregon MEP
- Tim Israel | GAMEP
- Jennifer Sinsabaugh | New Mexico MEP

□ Staff

- Carrie Hines, Executive Director (contracted)
- Kelly Buchanan, Director of Membership Services

What We Offer:

□ Membership Services

- Salary Survey of Centers
- Re-competition Services
- Manufacturing Studies and Reports (e.g. NGM Study)
- Center Best Practice Conference
- Center Connectivity Calls
- Core Consulting Skills Certification Program
- MEP University (MEPU) – on-line community platform and learning management system

□ **Website:** mfgfoundation.com

What We Offer:



Ask Questions. Answer Questions. Learn More.

A peer-to-peer collaboration and education community for the MEP National Network.



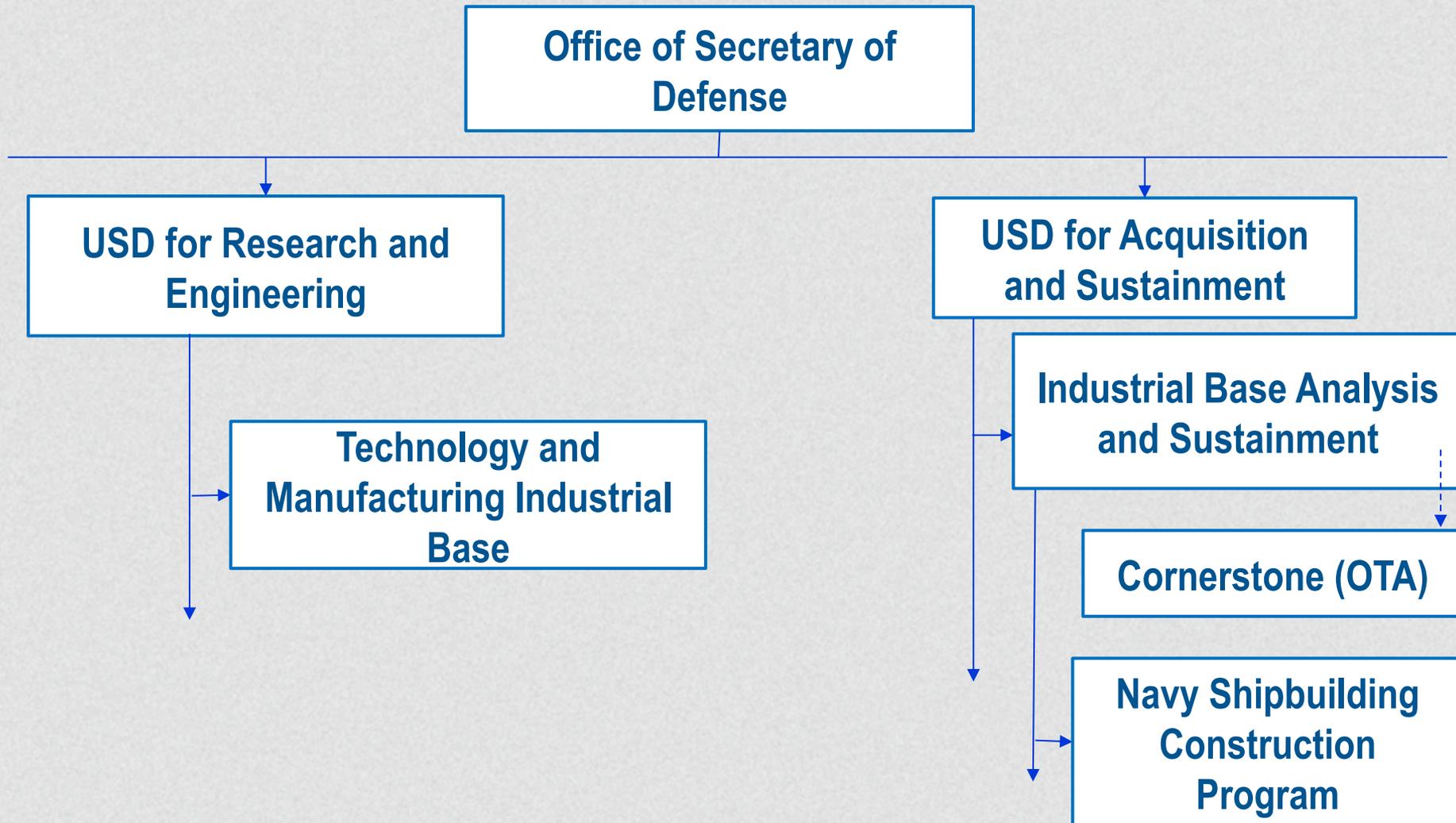
□ Website: www.mepuniversity.org/

Current ASMC and Foundation Membership:

- ❑ Current Members (42 states, including Puerto Rico)

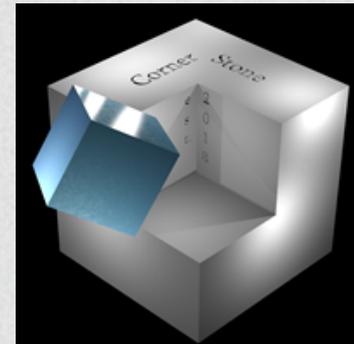
- ❑ Non-members include:
 - Alaska
 - Arkansas Manufacturers Solutions
 - FloridaMakes
 - MEP of Louisiana
 - Enterprise Minnesota
 - New Hampshire MEP
 - Polaris MEP (RI)
 - University of Utah MEP Center
 - Manufacturing Works (WY)

Cornerstone's Relationship to DOD



Cornerstone

- **“Other Transactional Agreement” (OTA):** a flexible mechanism for a public-private collaboration across a range of specific Industrial Base sectors and requirements in order to strengthen the US Industrial Base and improve US competitiveness.
- **Membership**
 - Private industry (small to large businesses and private capital)
 - Sector specific industry consortiums and associations
 - US non-profit organizations
- **Purpose**
 - Monitor and assessment of US Industrial Base
 - Address Critical Issues in the Industrial Base related to urgent operation needs
 - Support efforts to expand the Industrial Base
 - Address supply chain vulnerabilities

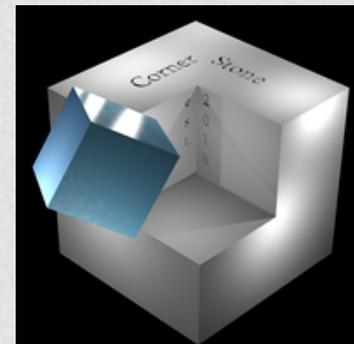


Cornerstone

- **Vision:**

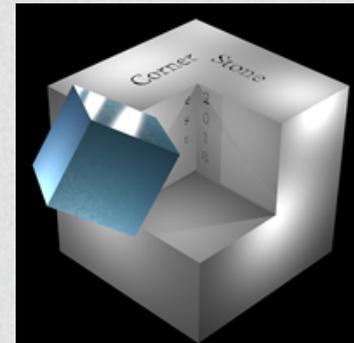
A modern Industrial Base that integrates traditional and emerging sectors to respond at will to National Security Requirements

Cornerstone will accelerate research, development, prototyping, demonstration, qualification and integration of manufacturing capabilities and capacities into the US Industrial Base and supply chains. Cornerstone will address Industrial Base resiliency, assurance and a robust manufacturing innovation ecosystem.



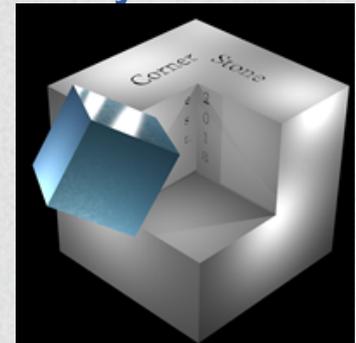
Cornerstone Sectors of Focus

- Aircraft (Area 1)
- Radar and Electronics Warfare (Area 2)
- **Shipbuilding (Area 3)**
- Ground Vehicles (Area 4)
- Soldier Systems (Area 5)
- Space (Area 6)
- Chemical, Biological, Radiological & Nuclear (CBRN) (Area 7)
- Materials Industry (Area 8)
- Machine Tools (Area 9)
- Cyber for the Industrial Base (Area 10)
- Optics (Area 11)
- Advanced Technology and Advanced manufacturing (Area 12)
- Electronics (Area 13)
- Command, Control, Communications, and Computers (C4) (Area 14)
- Munitions and Missiles (Area 15)
- Industrial Base & Manufacturing Skills (Area 16)
- Private Equity (Area 17)
- Other: (Area 18)



Cornerstone and the MEP National Network

- Foundation for Manufacturing Excellence (Foundation) is a member of Cornerstone as the MEP National Network Representative
- Foundation will respond on behalf of the National Network to applicable Cornerstone solicitations
- Foundation will subcontract with Centers members directly to execute Cornerstone tasks as appropriate with initial focus expected to be shipbuilding (Area 3)

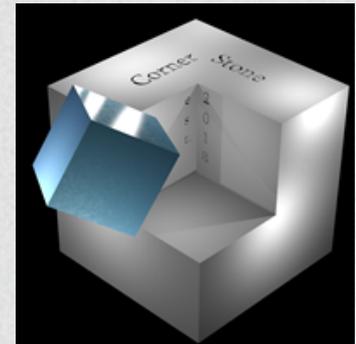


MEP Shipbuilding Team



Cornerstone and the MEP National Network

- **Current Status:** The Foundation is poised and ready to respond when an applicable Cornerstone solicitation is available
- Foundation will staff up as necessary upon successful attainment of Cornerstone task



Questions?



Performance & Research Development Working Group

- **Committee Members**

- Board Leadership

- **Leslie Taito**

- Board Members

- **Jose Anaya, Joe Eddy, Kathay Rennels, Jim Wright, Bernadine Hawes, Jeffrey Wilcox**

- NIST MEP Support

- **Ken Voytek, Chancy Lyford**

- **Deliverable**

Input and guidance on the management portfolio and Program performance measurement processes of the MEP National Network. In addition, the Working Group will provide feedback and suggestions for establishing a research agenda that will support and enrich NIST MEP's performance and evaluation management system through improved Center evaluation processes, the promotion of system learning and by enhancing the portfolio of Network information services for Centers.



Final Report for Review

- Final draft completed and Chair Review done
- Draft shared with Working Group on August 2, 2018 (feedback incorporated)
- Final report to Board for approval (MEP Connect)
 - Final approval to vote on 3/29/2019
- Report consists of 4 Sections:
 - Background
 - Observations
 - Continuous Improvement in Performance Management
 - Recommendations for Research and Development
 - Research on NIST MEP
 - Research on the manufacturing landscape
 - Supporting research and evaluation



Executive Committee Working Group

- **Committee Members**

- **Board Leadership**

- **Jeffrey Wilcox, Chair of MEP Advisory Board**
 - **Bernadine Hawes, Vice-Chair of MEP Advisory Board**

- **Board Members**

- **Mitch Magee**
 - **George Spottswood**

- **NIST MEP Support**

- **Carroll Thomas, Cheryl Gendron, Wiza Lequin**

- **Deliverable**

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.



Discussion Topics for the Board

- MEP Advisory Board Annual Report
 - Final report to be provided to Board by **March 29, 2019**
- Succession planning
 - Chair & Co-Chair current terms expire **May 31, 2019**
 - New Members on the Horizon, bring our numbers back to 15
- Next face-to-face meetings
 - Torrance, California: Tuesday, **June 18, 2019**
 - Board dinner on **Monday, June 17, 2019**
 - Possible tours being discussed
 - Atlanta, Georgia: Sunday, **September 15, 2019** (Summit!)
 - Board Dinner, Saturday, **September 14, 2019**
 - Meeting with Center Leadership participation



Future Meeting Schedule

2019

(dates subject to change)

- **Tuesday, June 18, 2019**
 - El Camino Community College, Torrance, CA
- **Sunday, September 15, 2019**
 - In conjunction with the MEP National Network Summit

2020

(timing subject to change)

- **Early March**
 - Washington, D.C.
- **Middle of June**
 - Location TBD
- **Middle of September**
 - In conjunction with the MEP National Network Update Meeting and FORME Best Practice Conference

Calendar invites sent once confirmed



Thank You

Stay Connected



VISIT OUR BLOG

<https://www.nist.gov/blogs/manufacturing-innovation-blog>

Get the latest NISTMEP news at:

www.nist.gov/mep