

MAKING AN IMPACT ON U.S. MANUFACTURING

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

MEP Advisory Board Members: High-Level Orientation to MEP

Carroll Thomas, Director of MEP

April 13, 2017

Let's Get Started!

- Welcome New Members
- Introduce you to the MEP Program
- Provide context for understanding the MEP
- MEP Advisory Board Guidance and Expectations

Welcome New Members



LaDon Byars



Joe Eddy



Mitch Magee



Gary Groleau



Matt Newman



Chris Weiser



Mary Isbister



James Wright

GETTING TO KNOW THE MANUFACTURING EXTENSION PARTNERSHIP PROGRAM



MEP Program in Short



Program Started in 1988

At least one center in all 50 states and Puerto Rico by 1996.



National Network

51 centers with nearly 600 Field Locations. Nearly 1,300 non-federal staff nationwide, with over 2,500 partners.



Partnership Model

Federal, State, University, and Industry



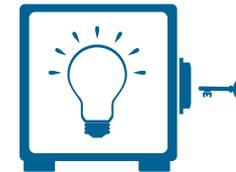
MEP System Budget

\$130 Million Federal Budget with Cost Share Requirements for Centers



Global Competitiveness

Program was created by the 1988 Omnibus Trade And Competitive Act



Evolving Role

Program continues to evolve in order to support manufacturers during changing economic situations.



Program Evolution



Build a System

Optimize Performance and Accountability



Deliver High Value

Deliver Higher Value Added Services



Focus on Management

Developing Leaders to Focus on Strategic Management



Foster Innovation

Develop and Deploy Technology



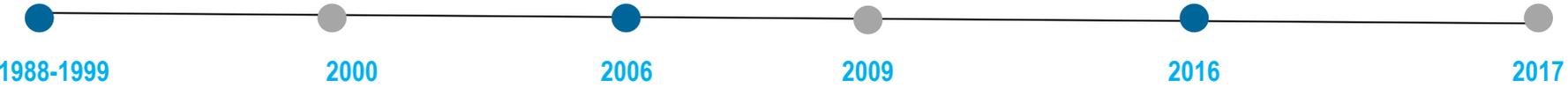
Increase Economic Impact

Technology Based Economic Development

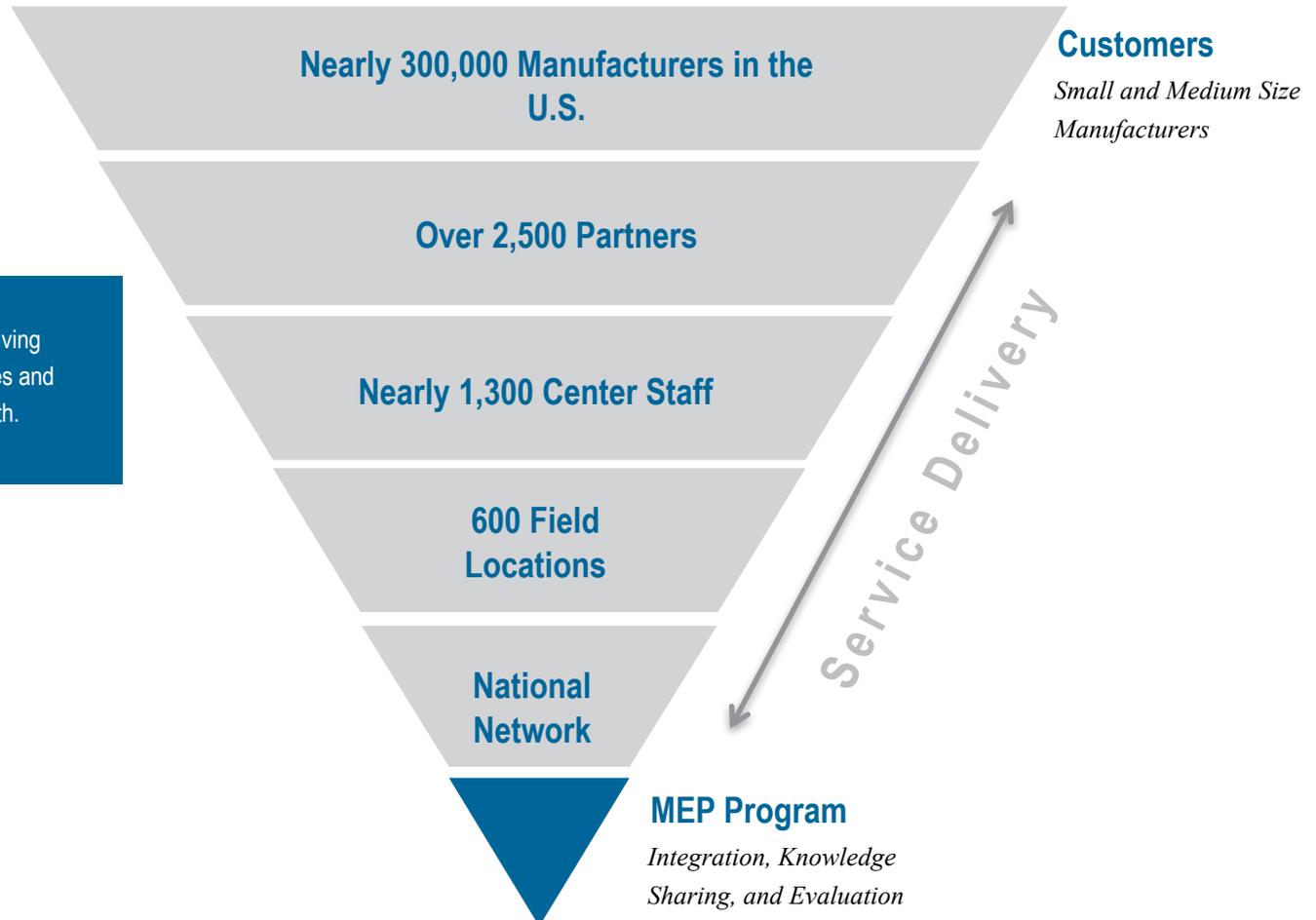


Enabling Manufacturing 4.0

Next Chapter in MEP



Partnering to Drive a National Program



The MEP network focuses on solving manufacturers' biggest challenges and identifying opportunities for growth.



Partnership: it's in our name

State and local governments

Federal agencies and laboratories

Universities, community colleges and technical schools

Trade associations

Industry leaders and think tanks

Economic development organizations

Consulting firms



MEP's Strength Lies in its Collaborations



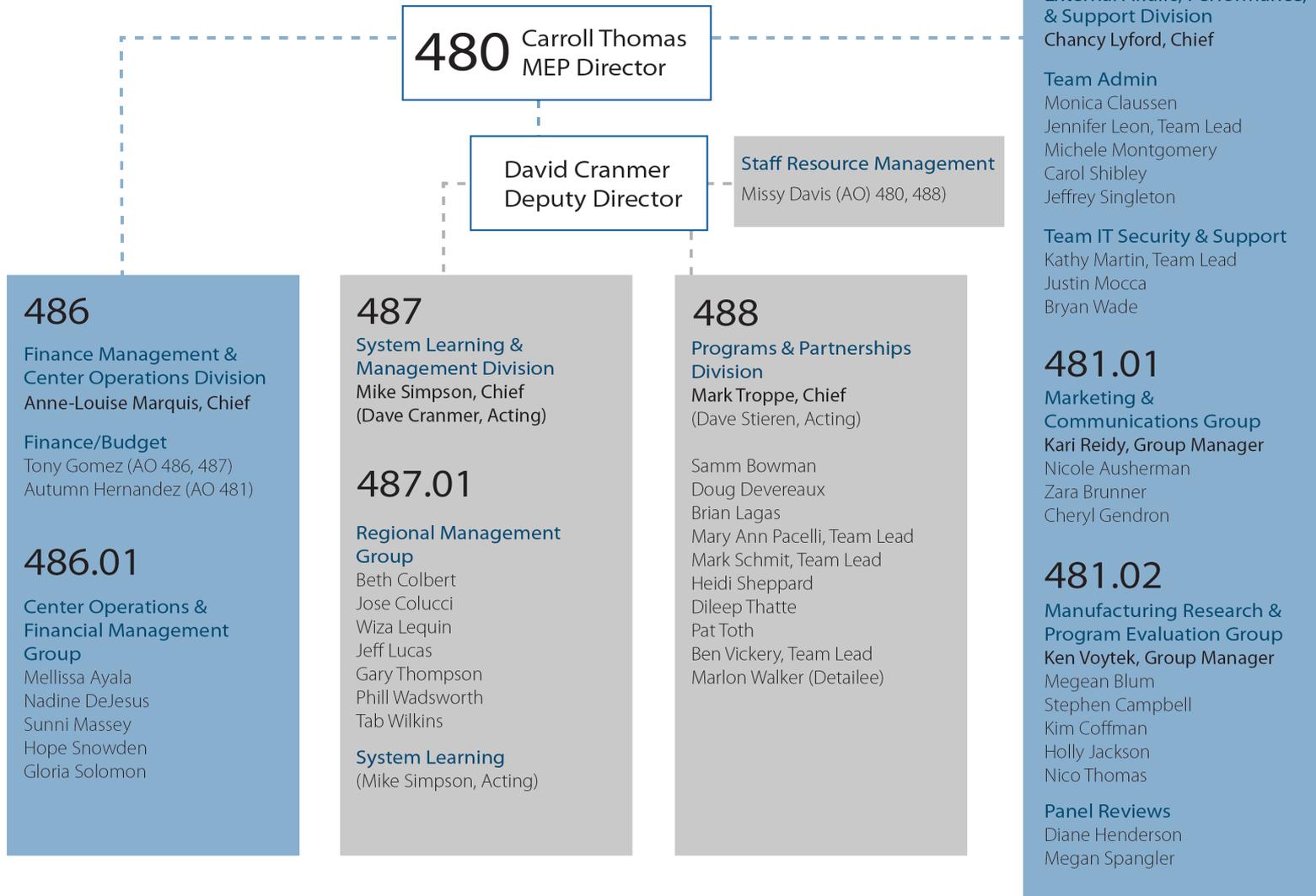
THE MEP PROGRAM OFFICE

Division	Focus
Finance Management & Center Operations	Programmatic and financial oversight of Federal funding Operational assistance with cooperative agreement Overall management of administrative, budgetary and financial matters
Systems Learning and Management	Collaborates with the Leadership and Staff of all Centers in the system Component of the MEP Learning Organization, developing strong partnerships with MEP Center, State, and Industry Supports the Development of strong local manufacturing ecosystems.
External Affairs, Performance & Support	Establishes and provides comprehensive policy, communications, and performance support Coordinates national marketing & communications functions Manufacturing Research & Performance Evaluation Provides administrative & IT for program office
Programs and Partnership Divisions	Develops technical and business assistance programs delivered by the national network of MEP Centers. Identifies and develops new opportunities with and for Centers Identifies, develops and maintains partnerships of national significance on behalf of MEP

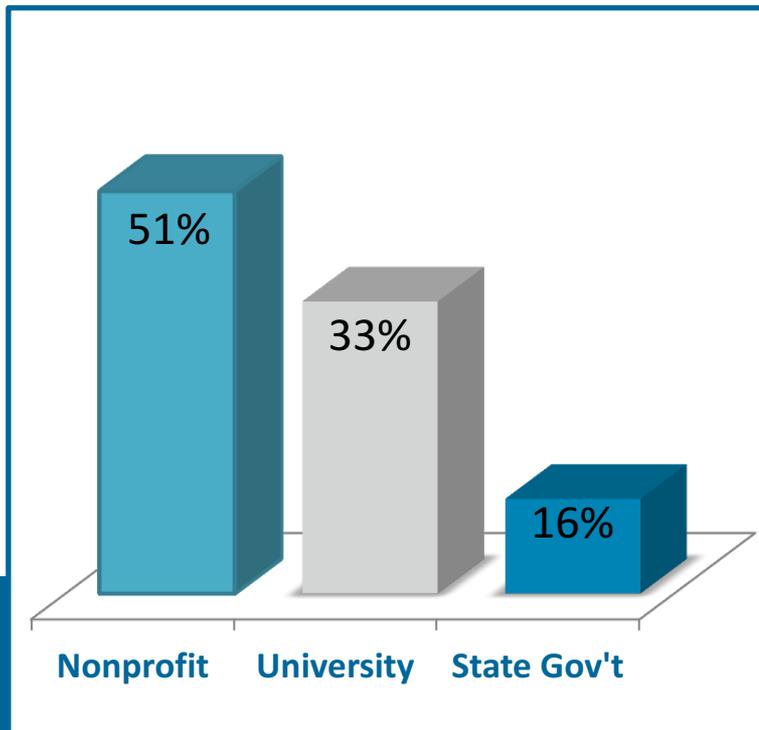


MEP • MANUFACTURING
EXTENSION PARTNERSHIP

MEP ORG CHART (FY17)



THE MEP CENTER PARTNER MODELS



Partnerships

Utilizes existing local resources to provide manufacturing extension services **relies heavily on partnerships**

Geography

Urban and Rural Areas. Centers are never more than 2 hours away from a manufacturer.

Public & Private Sector

Staff are employees of the Center and its partners – **not** the Federal Government

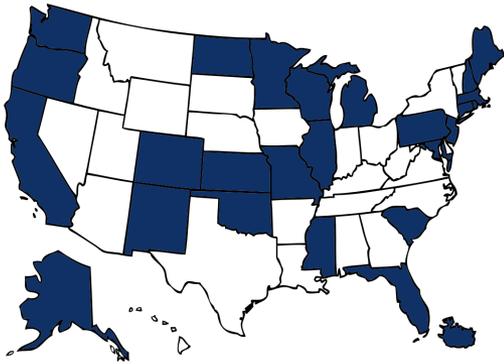
Organization Type

- Nonprofit
- University
- State Government

Organizational Structure

- Single location
- Principal organization with independent partner organizations
- Central office with regional offices
- Headquarters operation with multiple field offices

MEP Centers Organizational Structure



501(c)(3) (24)

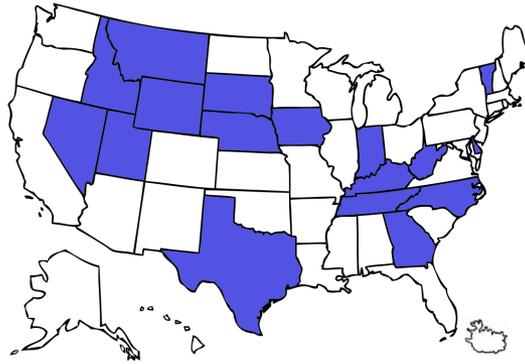
- | | |
|---------------|----------------|
| California | North Dakota |
| Colorado | New Hampshire |
| Connecticut | New Jersey |
| Florida | New Mexico |
| Illinois | Oklahoma |
| Kansas | Oregon |
| Massachusetts | Pennsylvania |
| Maryland | Puerto Rico |
| Maine | Rhode Island |
| Michigan | South Carolina |
| Minnesota | Washington |
| Missouri | Wisconsin |

501(c)(6) (1)

Mississippi

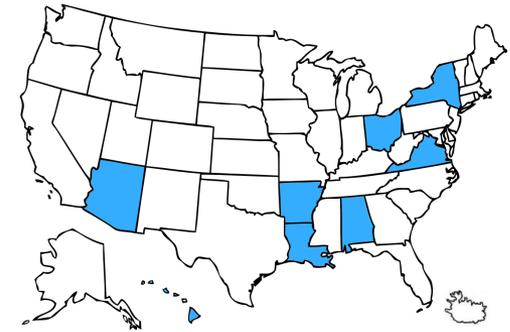
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Alaska



University (17)

- | | |
|----------------|---------------|
| Delaware | Nebraska |
| Georgia | Nevada |
| Iowa | South Dakota |
| Idaho | Tennessee |
| Indiana | Texas |
| Kentucky | Utah |
| Montana | Vermont |
| North Carolina | West Virginia |
| | Wyoming |

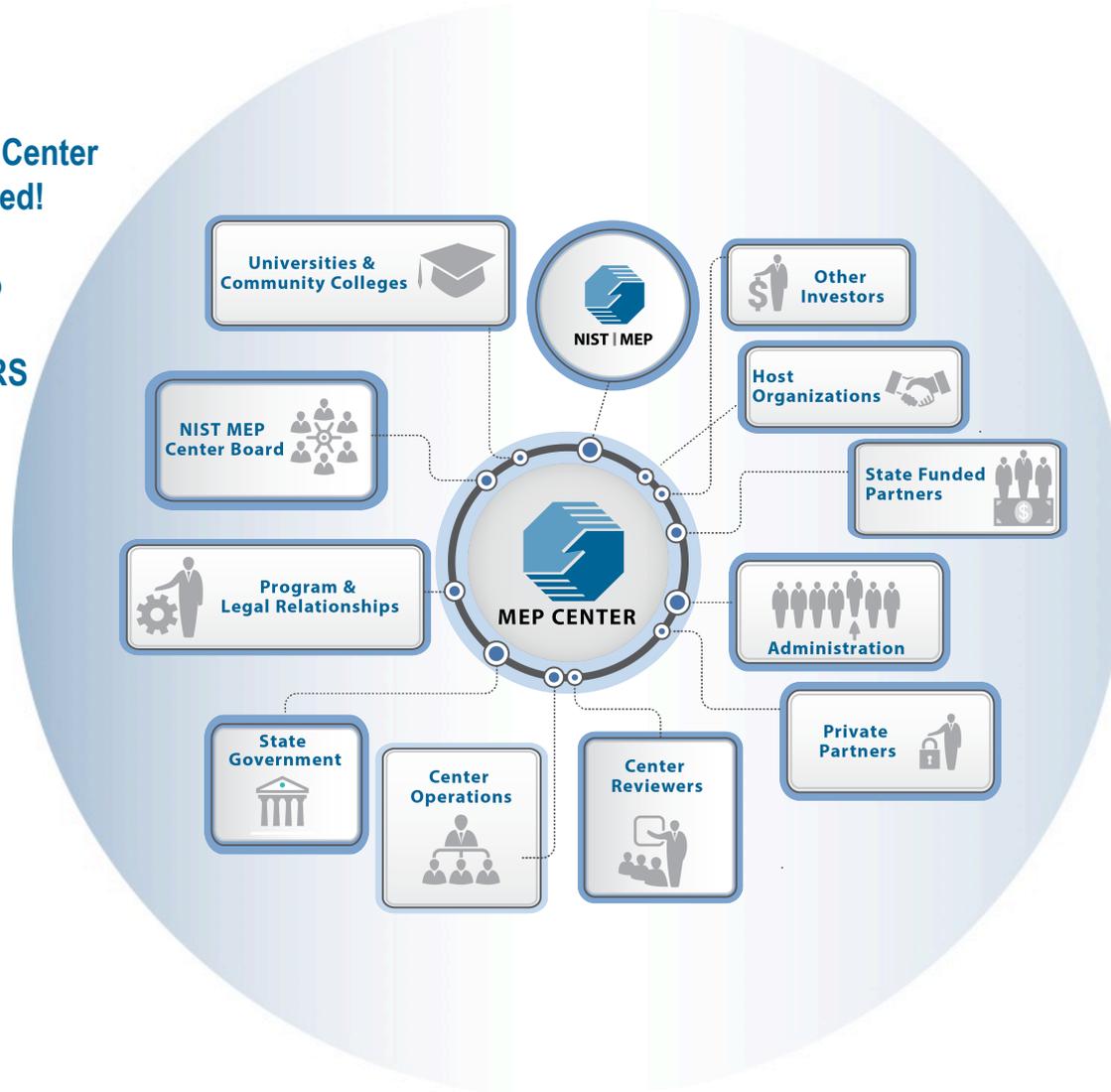


State (8)

- | | |
|----------|-----------|
| Alabama | New York |
| Arkansas | Ohio MEP |
| Arizona | Virginia |
| Hawaii | Louisiana |

Environment of an MEP Center

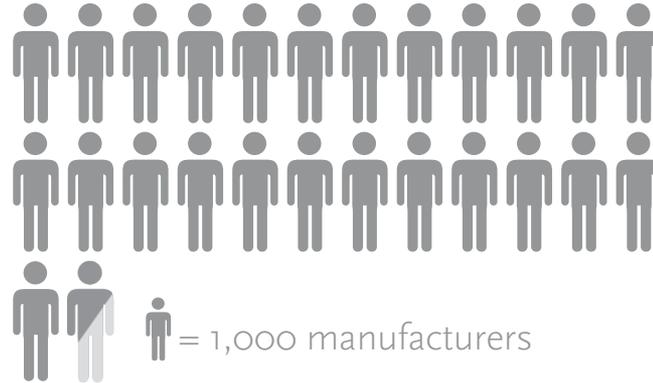
- Running an MEP Center can be complicated!
- Overall Goal is to support U.S. MANUFACTURERS



PROGRAM EFFECTIVENESS: METRICS

25,445

Manufacturers
reached in FY16



JOBS RETAINED

66,922



JOBS CREATED

19,680



NEW CLIENT
INVESTMENTS

\$3.5
Billion



COST SAVINGS

\$1.4
Billion



RETAINED SALES

\$7
Billion



NEW SALES

\$2.3
Billion



What MEP Centers Do

- ✓ Work with small and medium size manufacturers to help them create and retain jobs, increase profits, and save time and money.
- ✓ Focus on meeting manufacturer's short term needs, but in context of overall company strategy.
- ✓ Reach over **25,000 manufacturers** and complete over **8,000 projects** per year.
- ✓ Provide companies with tailored services including:



Supply Chain



Technology



Workforce



Lean and
Quality



Innovation and
Growth



Sustainability



Export



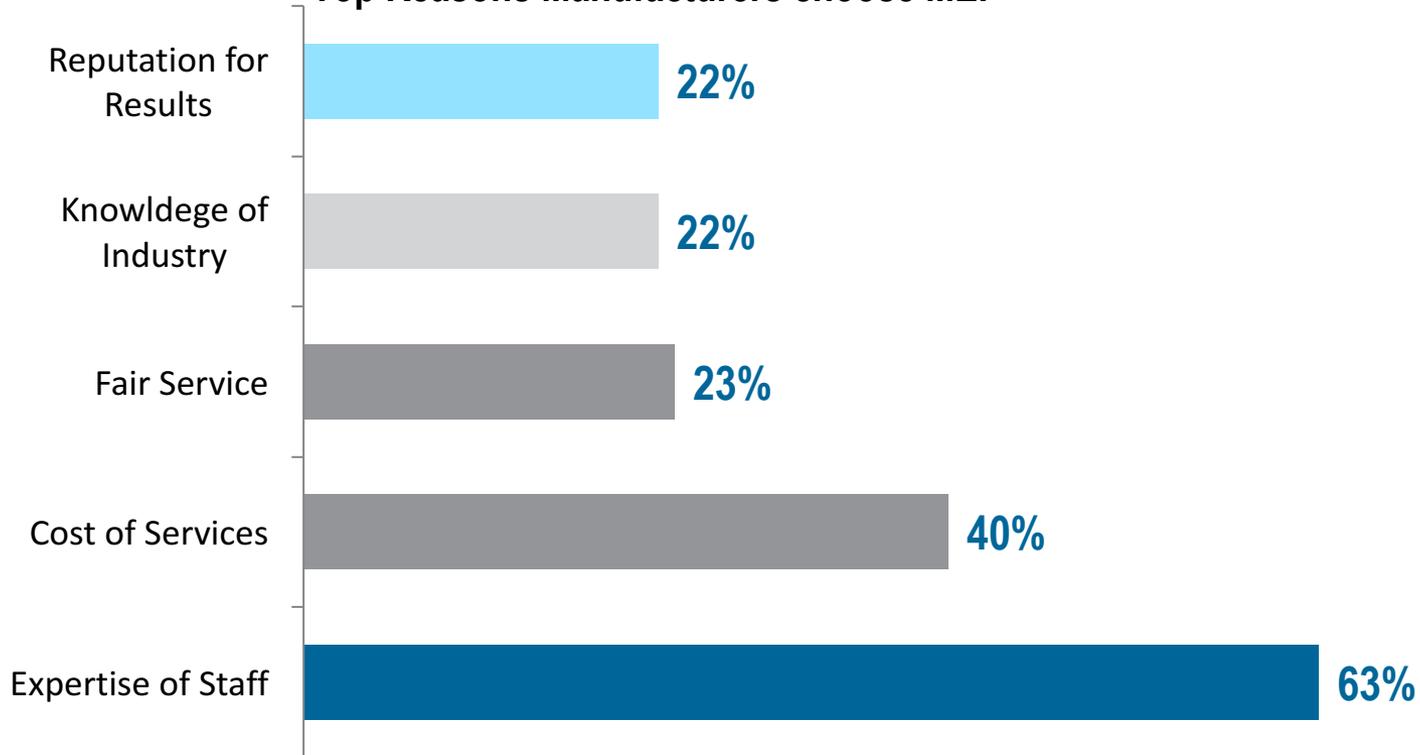
Product Development



Why MEP?

National Network Net Promoter Score: 79%

Top Reasons Manufacturers choose MEP



MEP: HISTORY LEGISLATIVE/FUNDING & PUBLIC SIDE OF PARTNERSHIP



Congress passes Omnibus Trade and Competitiveness Act 1988 (P.L. 100-418), creating a program geared to help U.S. manufacturers.

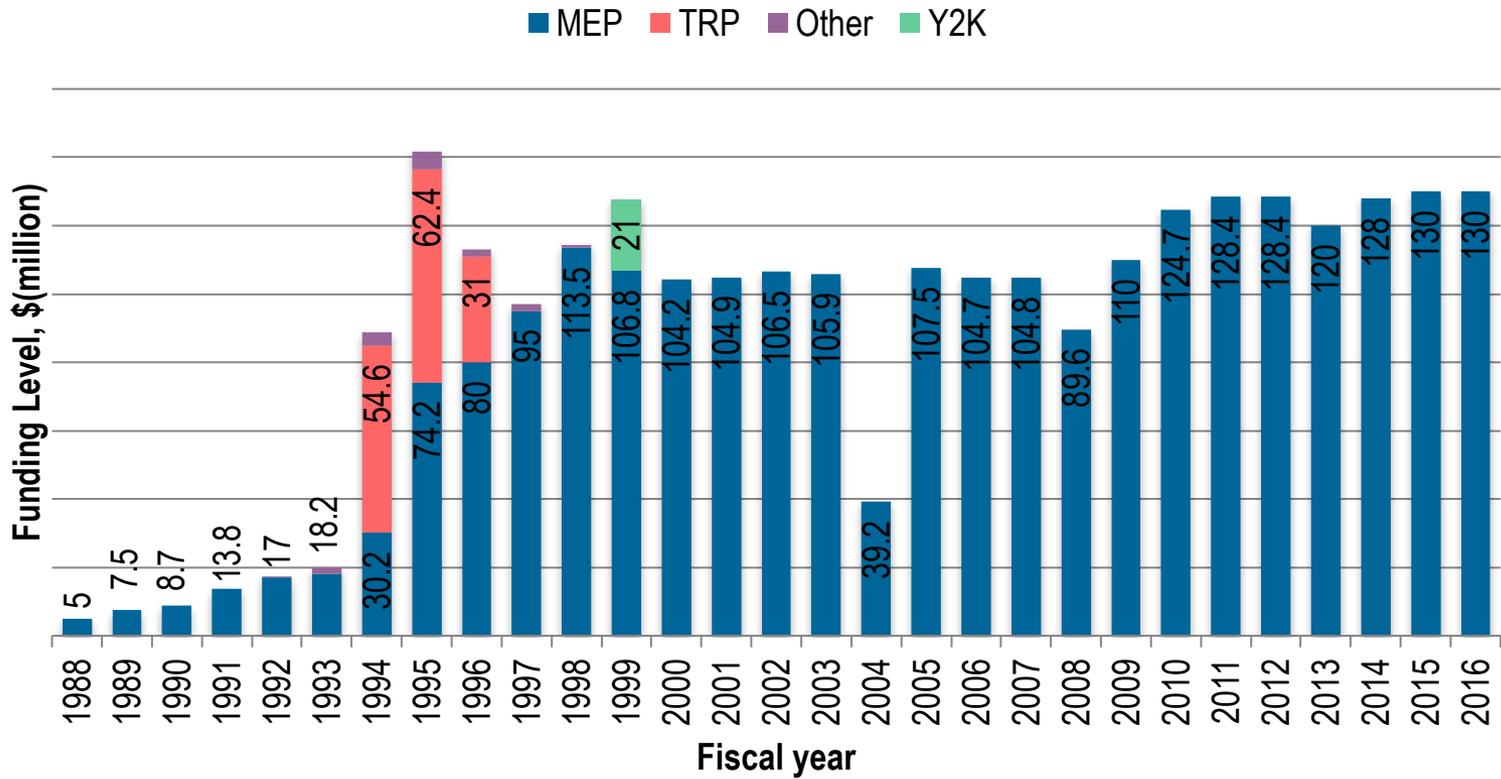


The Consolidated Appropriations Act of 2005 (P.L. 108-447) renamed the program to Hollings Manufacturing Extension Partnership (MEP) - in honor of Senator Ernest Hollings who introduced the Omnibus Trade and Competitive Act.

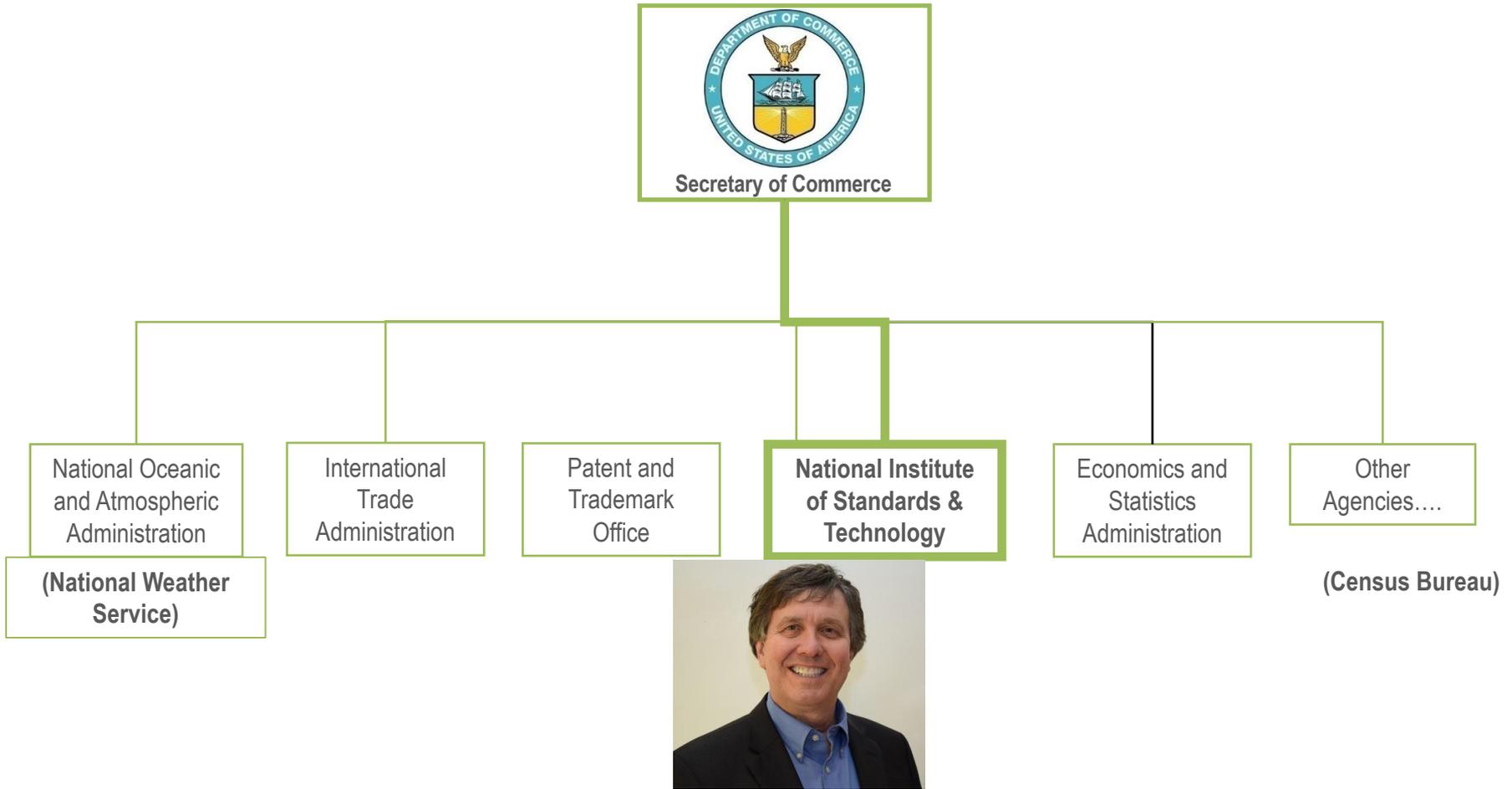


The American Innovation and Competitiveness Act of 2017 (P.L. 114-329) made the 1:1 cost share permanent and formalized the recompetition process after 10 years

MEP Funding History

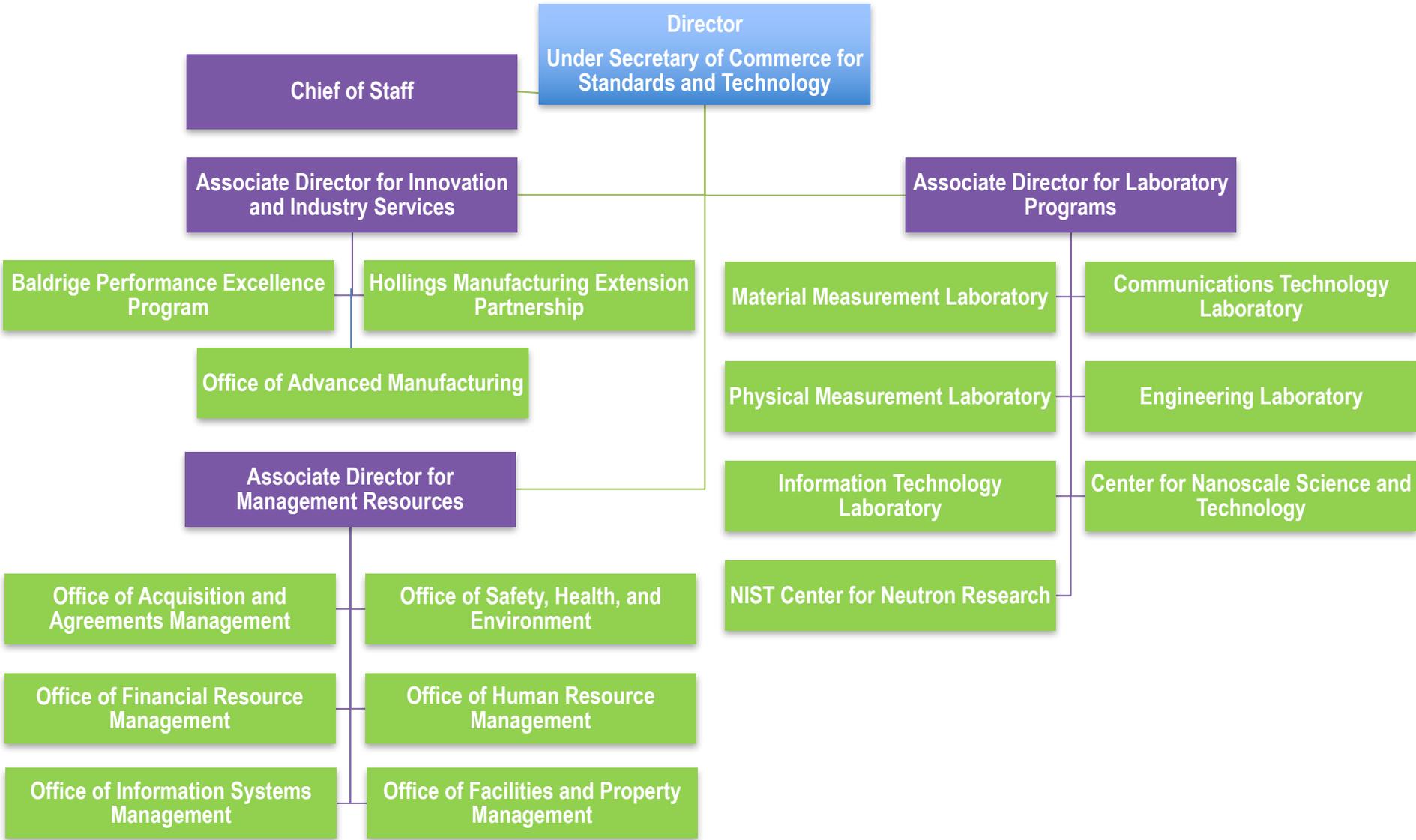


NIST is in the Department of Commerce



Kent Rochford

Acting Undersecretary of Standards and Technology and Director, National Institute of Standards and Technology



Department of Commerce

Strategic Goals

The Department is comprised of 12 bureaus that work together to drive progress in five business facing key goal areas:

- Trade and Investment
- Innovation
- Environment
- Data
- Operational Excellence



U.S. Secretary of Commerce
Wilbur Ross



NIST FY 2015-17 Budget (\$ in Millions)

	FY 2015 Enacted	FY 2016 Enacted	FY 2017 Request
Scientific and Technical Research and Services (STRS)	675.5	690.0	730.5
Industrial Technology Services (ITS)	138.1	155.0	189.0
Advanced Manufacturing Technology Consortia (AmTech)	8.1	0.0	0.0
Hollings Manufacturing Extension Partnership (MEP)	130.0	130.0	142.0
Nat'l Network for Mfg Innovation	0.0	25.0	47.0
Construction of Research Facilities	50.3	119.0	95.0
Total, NIST Discretionary*	863.9	964.0	1,014.5

NIST Programs



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NIST Laboratories

- Provide measurement solutions



Marten Czamanske/shutterstock

Hollings Manufacturing Extension Partnership

- Helps smaller manufacturers compete globally



Sharp

Baldrige Performance Excellence Program

- Promotes and recognizes performance excellence

MEP ADVISORY BOARD

AUTHORITY:

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.



MEP Advisory Board

2017 MEP Advisory Board

Ms. Vickie Wessel, Chair (Term ending May 2017)

Mr. Jeff Wilcox, Vice Chair (Chair beginning May 2017)

Members

Mr. Jose Anaya, CA

Mr. Tommy Lee, AL (term ending May 2017)

Ms. LaDon Byars*, TN

Mr. Mitch Magee*, DE

Dr. Carolyn Cason, TX

Mr. Matthew Newman*, OK

Mr. Joe Eddy*, WV

Ms. Kathay Rennels, CO

Ms. Eileen Guarino, NY (term ending May 2017)

Mr. Chris Weiser*, AR

Mr. Gary Groleau*, NH

Mr. Ed Wolbert, IL (term ending May 2017)

Ms. Bernadine Hawes, PA (Vice-Chair beginning May 2017)

Mr. Jim Wright*, MT

Ms. Mary Isbister*, WI

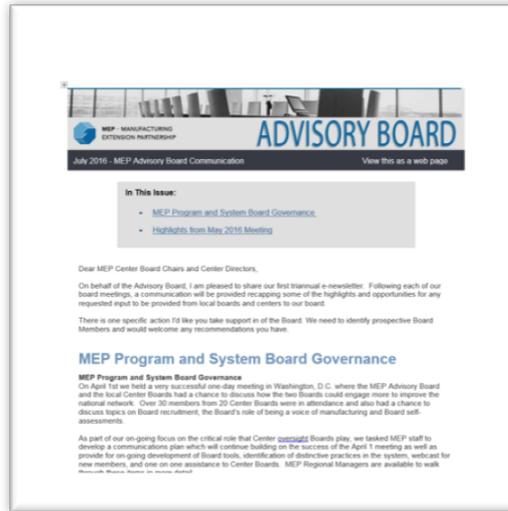
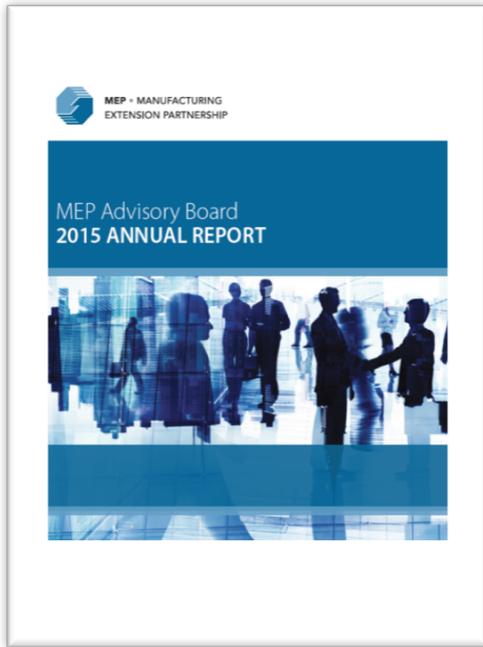
***New Members**



Role of the MEP Advisory Board

- Provide advice to MEP Director on MEP activities, plans, and policies
- Assess the soundness of MEP plans and strategies
- Assess current performance against MEP program plans
- Function solely in an advisory capacity, in accordance with the provisions of the Federal Advisory Committee Act, as amended, 5 U.S.C.

MEP Advisory Board Support



MEP Advisory Board Resources, Documents and Discussion can be found on MEP Connect. MEP Director and Marketing and Communications staff provide support for an Annual Report and Triannual newsletter.

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NIST MEP ADVISORY BOARD

access to
RESOURCES

search for
DOCUMENTS

join the
DISCUSSION

Group Information

Name MEP National Advisory Board

Privacy The group is visible to anyone. In order to join the group, people must either be invited or have their request to join approved by a group manager

Managers mepnationaladvisoryboard-manager@mepconnect.nist.gov

What's New

Key References Related to MEP Cost Share - One Pager
 Created by Mandy Malloff yesterday at 1:07 pm

Upcoming Events

No events in the next 90 days.

Calendar

September 2013

Mon	Tue	Wed	Thu	Fri	Sat	Sun
				5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29						

Expectations of the Advisory Board

- Active and informed participation
- Provide program recommendations
- Participate in strategic planning and help set strategic direction of the program
- Educate others about **MEP**
- Approve **MEP** Advisory Board Annual Report

Board Operations

- **Board meets three (3) times a year**
 - Additional meetings may be called by the NIST Director
 - Meetings generally held in conjunction with other MEP national network events
 - Includes updates by Board subcommittees and discussion
- **Balanced membership**
 - A minimum of 10 members
 - At least 2 serve on advisory boards from MEP Centers
 - At least 5 members represent small manufacturing establishments
 - One member representing a community college
 - Additional members represent industrial extension through academia, technology deployment and workforce activities

MEP Advisory Board Past Activities

- Provided guidance on the development of the **MEP strategic plan FY 2014-2017**.
- Recommendations regarding **MEP** cost share adjustment from **2:1 to 1:1**.
- In 2014 and 2015, the Board developed two subcommittees to provide recommendations on **MEP's efforts in technology acceleration and board governance**.
- The Board reviewed the process to be used for the **MEP system-wide state competition**.

Advisory Board Charge Topics

Recap and Review of Current MEP Strategic Plan 2014-2017 (where we left off December 2014)

Defining NIST Director's Charge: Connecting User Facilities and Labs with SMMs

Defining NIST Director's Charge: MEP Learning Organization

Current Advisory Board Subcommittees

Committee	Members	Focus
Strategic Plan	Vickie Wessel, Chair Bernadine Hawes Eileen Guarino	MEP 2017-2022 Strategic Plan refresh and update
Establish MEP as a Learning Organization	Carolyn Cason Kathay Rennels Tommy Lee	Establishment of MEP as a Learning Organization
Lab Connectors	Jeff Wilcox Bernadine Hawes Ed Wolbert Jose Anaya	Connecting user facilities, research and technologies at NIST and other federal laboratories with SMMs

FUTURE PRIORITIES FOR MEP

Industry 4.0 is Upon Us



“A full convergence of digital and physical manufacturing is underway...”

The stakes for companies to successfully navigate this transition are high!”

The U.S. hearing aid industry converted to 100% additive manufacturing in less than 500 days, according to one industry CEO, and not one company that stuck to traditional manufacturing methods survived.



Richard D'Aveni, Harvard Business Review May 2015

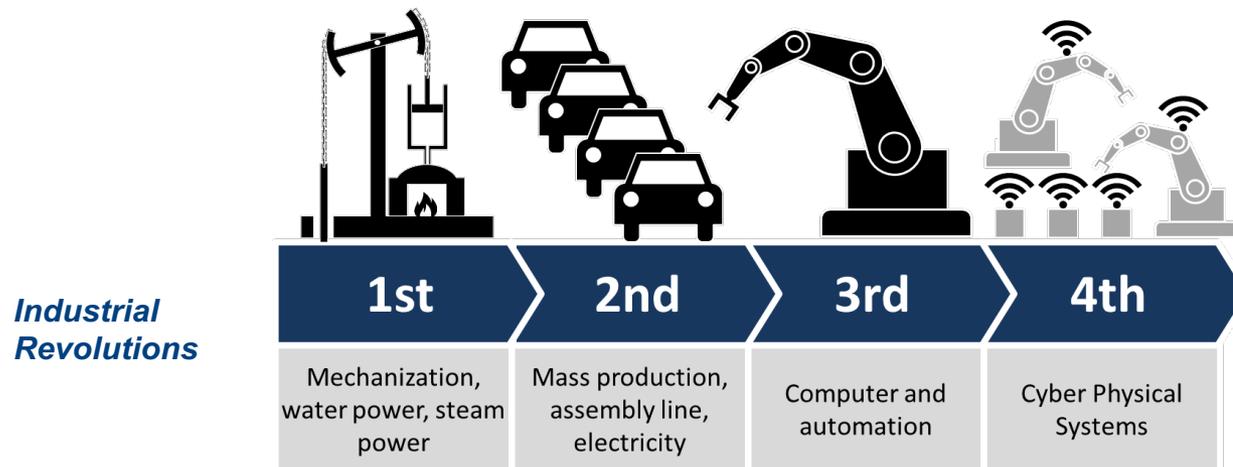
New Perspective on Strategic Goals

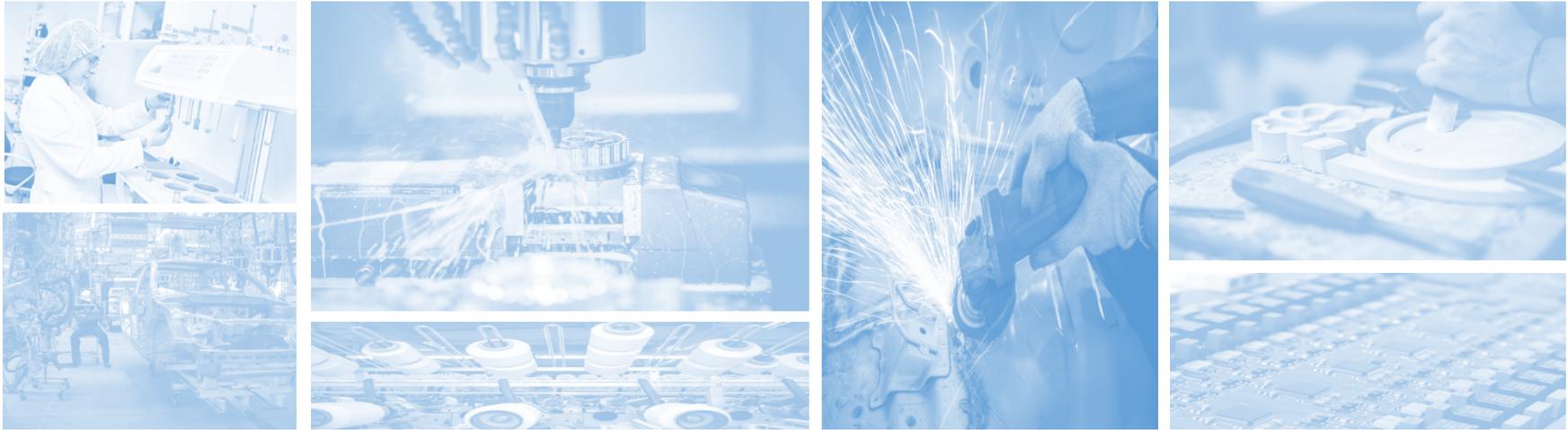
Supporting our Vision and Footprint as We Update Our Strategic Plan for 2017-2022



Near-Term Focus

- National program emphasis on MEP being a GO-TO Trusted Advisor for U.S. manufacturers
- Focused on infusing *technology, interconnectedness, and disrupted perspectives* into:
 - ✓ Production
 - ✓ Business Strategy
 - ✓ Manufacturing Infrastructure Connections



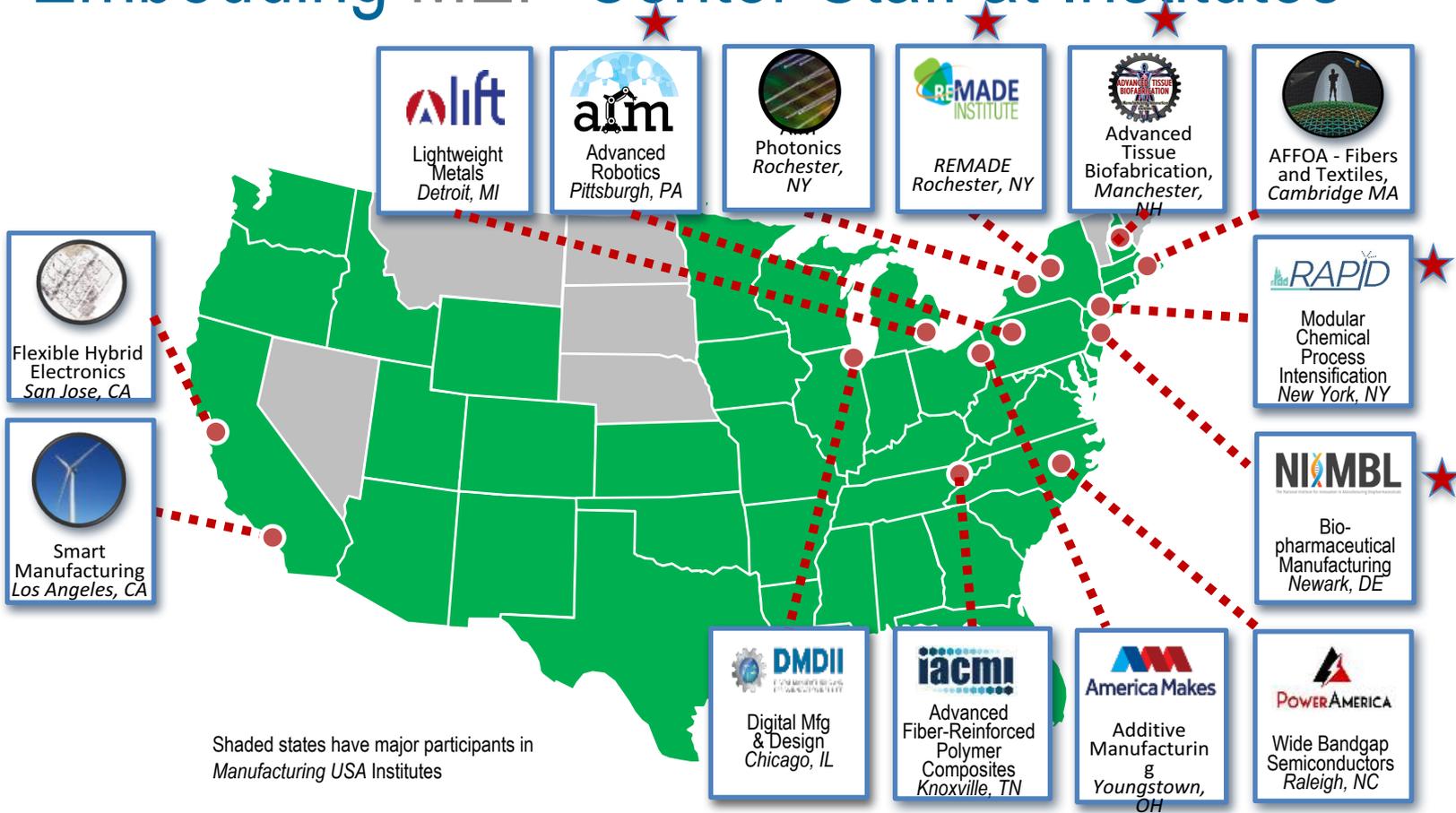


EXECUTIVE SUMMARY: MEP Economic Impact Analysis

W.E. UPJOHN INSTITUTE



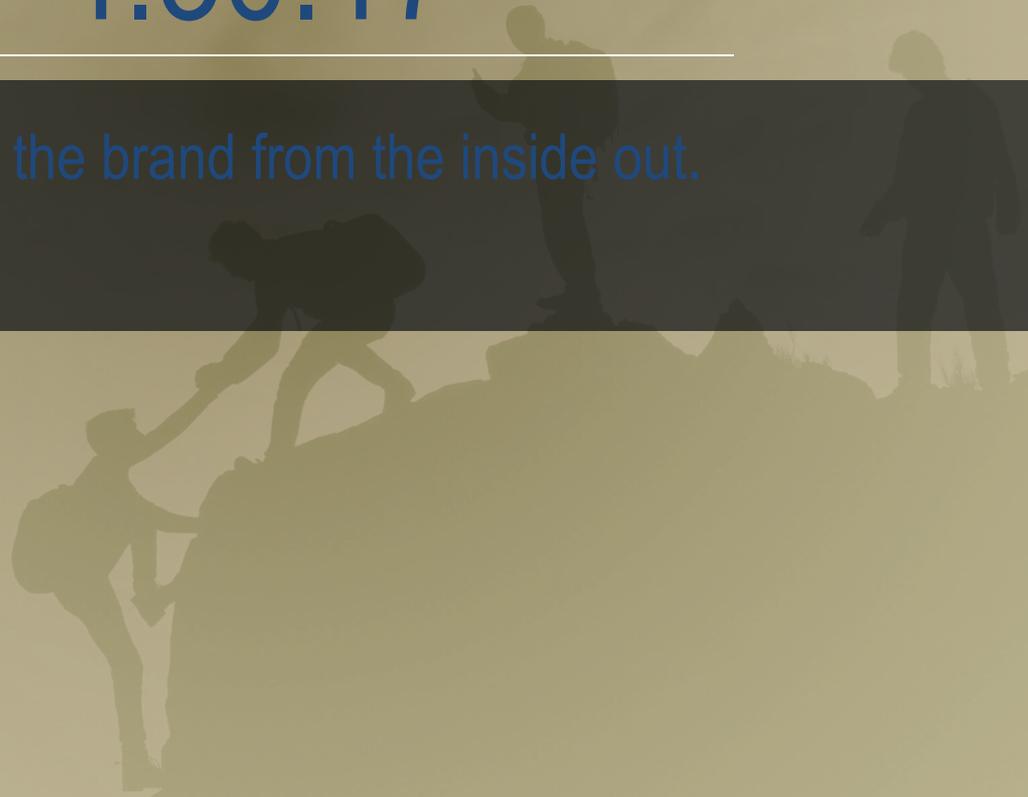
Manufacturing USA: Partnership through Embedding MEP Center Staff at Institutes



★ MEP Embedding projects underway

Brand Reveal, National Summit 4.30.17

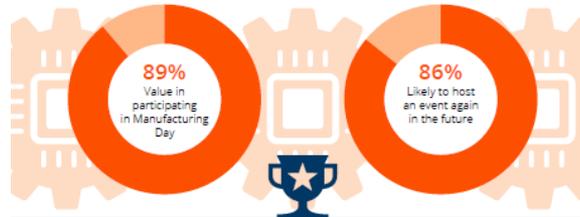
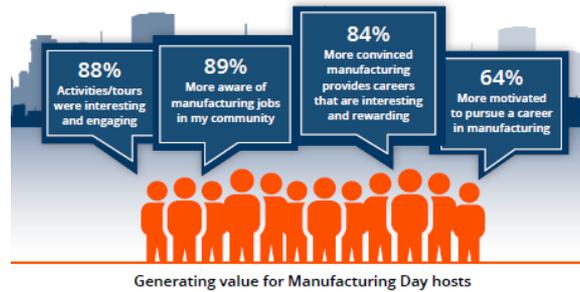
Building the brand from the inside out.



Manufacturing Day 2017

- October 6, 2017
- Ways to participate
 - Become an endorser or sponsor
 - Host a tour
 - Communicate to schools and the public
 - Issue proclamations
- www.mfgday.com

Manufacturing DaySM 2016 at a glance Developing positive perception of manufacturing with students



Deloitte.

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MFG DAY

MANUFACTURING Institute

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