

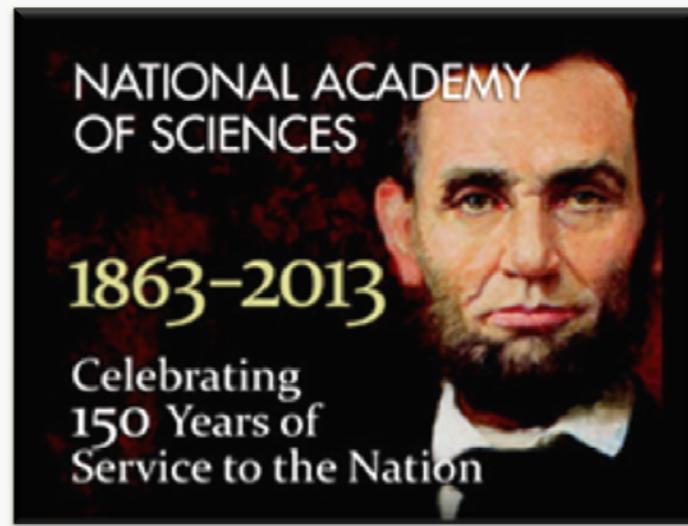
# Evaluating the Implications of the MIT Final Report on Advanced Manufacturing



The National Academy of Sciences  
Washington DC  
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Charles W. Wessner, PhD.  
Director, Technology, Innovation, and Entrepreneurship  
The National Academies

# Welcome to the National Academies



**National Academy of Sciences (NAS)**



**National Academy of Engineering (NAE)**



**Institute of Medicine (IOM)**



**National Research Council (NRC)**

# The Academies' Board on Science, Technology, and Economic Policy is Globally Recognized as a Center of Expertise on Innovation

- For over 20 years, STEP has identified ways to:
  - Accelerate innovation,
  - Advance U.S. competitiveness through better policy,
  - Improve our understanding of the nation's economic performance, and
  - Learn from other nations' policies and practices.

# STEP's recent reports highlight the major challenges to U.S. Innovation and Manufacturing

- Rising to the Challenge: U.S. Innovation Policy for the Global Economy (2012)
- 21<sup>st</sup> Century Manufacturing: The Role of the MEP Program (2013)
- Best Practices in State and Regional Initiatives: Competing in the 21<sup>st</sup> Century (2013)

# The “Rising to the Challenge” Report Highlights the Importance of U.S. based Manufacturing for U.S. based Innovation

- Anchoring more production in the US secures:
  - More high paying, quality jobs
  - Applied Research geared to Industrial Needs
  - Local Production and Local Learning
  - A Healthy and Reliable Supply Chain
  - Synergies for further innovation
- Research, Training, Expertise, Supply Chain, and Tax Revenues are all Linked to a Dynamic Manufacturing Base

# The Review of MEP and Global Programs to Support Manufacturing

- Assesses the performance of the Manufacturing Extension Partnership
- Reviews Leading National Programs to Support Applied Research and Manufacturing
  - Canada's Industrial Research Assistance Program
  - Germany's Fraunhofer Institutes
  - Taiwan's Industrial Technology Research Institute
  - Britain's Catapult Initiative
  - France's Carnot Institutes
- Discusses current needs and initiatives in light of the global focus on advanced manufacturing.

# Competing in the 21st Century: Best Practice in State and Regional Innovation Initiatives

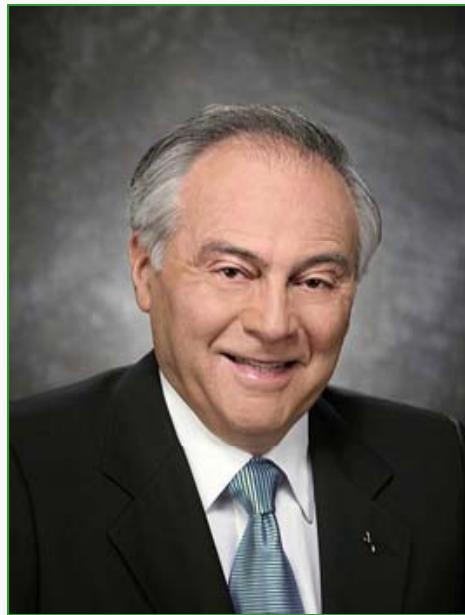
- This study by the Academies STEP Board:
  - **Highlights new state and regional initiatives** to strengthen existing industries and develop new technology focus areas.
  - **Identifies best practices** with regard to goals, structures, instruments, modes of operation
  - **Calls for** effective public-private partnerships, committed leadership, and substantial and sustained funding.

# These 3 Major Reports Identify Core Goals for U.S. Innovation Policy

- Reinforce U.S. leadership in innovation and manufacturing.
- Capture greater value from public investments in research.
- Monitor and learn what the rest of the world is doing.
- Cooperate more actively with other nations on mutually beneficial areas.
- Defend U.S. Economic Interests.

# We welcome MIT's new initiative: Production in the Innovation Economy

- Analyzes the state of production in the United States.
- Proposes new routes from innovation through manufacturing to jobs and growth in the United States.
- We look forward to learning more about this report and discussing its recommendations.



It is now my pleasure to  
introduce  
**Dr. Luis Proenza**

Co-chair, Innovation Policy Forum,  
Member, STEP Board,  
President, University of Akron

# Thank You



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