Evaluating the Implications of the MIT Final Report on Advanced Manufacturing

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Charles W. Wessner, PhD.
Director, Technology, Innovation, and Entrepreneurship
The National Academies

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Welcome to the National Academies

National Academy of Sciences (NAS)
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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

- 21st Century Manufacturing: The Role of the MEP Program (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

Charles W. Wessner, Ph.D.
Director, Program on Technology, Innovation and Entrepreneurship
Board on Science, Technology, and Economic Policy
The National Academies
500 Fifth Street NW
Washington, D.C. 20001
cwessner@nas.edu
Tel: 202 334 3801
http://www.nationalacademies.org/step