

Advanced Manufacturing Partnership (AMP) 2.0 ***Northeast Regional Meeting***

Scale-up Breakout Session

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Rensselaer



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AMP 2.0 How'd we get here?

- 2010 – Advanced Manufacturing Partnership formed to identify and tackle the most pressing challenges facing the American manufacturing sector
- 2011 – Released a report citing 3 pillars of importance: Enabling Innovation, Securing the Talent Pipeline and Improving the Business Climate.
- 2013 - The Partnership was renewed with the report
- 2014 – AMP is focused on furthering priorities of the original partnership in five key areas:
 1. *Demand-Driven Workforce Solutions*
 2. *Transformative Technologies*
 3. *Implementation of the National Network for Manufacturing Innovation (NNMI)*
 4. *Technology Scale-Up Policy*
 5. *Improving the Image of Manufacturing*



- To compete we need to get better at rapid scale of production
- AMP will investigate potential solutions to address connectivity within the supply chains for new technologies, improvements to the technology identification, sourcing and implementation process, and access to capital sources



Our Job Today

- Identify strengths that can be leveraged and solutions to key barriers to accelerate and amplify the value of technology commercialization in the U.S. manufacturing sector and with a special focus on SMEs, including start-ups and mature enterprises Access to Capital
- Develop clear solutions for core manufacturing policy issues
- Investigate and propose specific solutions to the unique barriers that inhibit firms from adopting and scaling new technologies in the U.S.
- Identify the challenges and solutions to rapidly deploy new technologies and processes across the U.S. supply chain



Scale-up Team #4 - Progress Update

- Focus Areas:
 - Supply chain development,
 - Technology diffusion,
 - Capital sources/access, and
 - Connectivity and transparency between partners
- Preliminary emerging recommendation areas:
 - A) Qualified intermediary solutions and technology platforms to direct and connect SMEs to resources required for scale up
 - B) Minimizing barriers to technology adoption created by industry-imposed rigidity in the production and supply chain
 - C) Affordable and accessible market insight for SMEs to spur advanced manufacturing innovation and risk-managed investments.



Northeast Regional Strengths – What is happening today?

- Innovation Culture
 - University Clusters and High Tech capability, proactive
- High value manufacturing
 - Power Gen, Aerospace, Defense, and Shipbuilding
- Advanced Manufacturing Supplier Base
 - Software, Sensors, Robotics, ‘Big Data’, Cloud Computing, Machining, Aerospace, Power Gen
- Government, MEP, Support
- Community College systems



Now it's your turn...

What are unique barriers that inhibit firms from adopting and scaling new technologies in the U.S? What are potential solutions to these unique barriers?

What are challenges and solutions to rapidly deploy new technologies and processes across the U.S. supply chain?

What types of intermediary solutions exist to direct and connect SMEs to technologies, customer and supply chains?

What can / should policy makers do to maximize market insight for SMEs to spur advanced manufacturing innovation and risk-managed investments?

How will your supply chain strengths and challenges impact your strategic growth plans? How can policy makers help maximize the strengths and minimize the challenges?

