

NIST Smart Manufacturing Survey

Workshop on Smart Manufacturing Systems Design and Analysis for enabling Am...

This is a short Survey for participants and stakeholders to the forthcoming Workshop on Smart Manufacturing Systems Design and Analysis for enabling American Competitiveness; facilitated by Sustainability A to Z; and held at NIST Gaithersburg on June 16 & 17, 2014.

It should take you no more than 15 minutes to complete.

Your responses to the questions posed will be analyzed and presented as results in aggregate - neither your name or organization will be attributed. The results may also be used in the workshop report and to guide some of the discussion points at the workshop itself.

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Smart Manufacturing: Barriers and Solutions

In the context of manufacturing, "Smart" systems are adaptive systems with differing levels of autonomy. A Smart Manufacturing System (SMS) is a highly complex network of manufacturers using advanced manufacturing capabilities and digital technologies to collaborate and create highly customizable products. Integrating these capabilities and technologies for designing and improving the overall system performance requires measurement science and standards for broad industry implementation. To facilitate efficient integration and effective use of new and emerging technologies, industry needs an open infrastructure for data and information. SMS has clear implications for manufacturing industries through improved resource efficiency, economic competitiveness, and job creation.

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1. Is your organization actively involved in Smart Manufacturing today? If so, please briefly describe the activities.

- Supporting financially
- Researching
- Manufacturing
- Standards development
- Education/Training
- R&D
- Technology development

Other (please describe)

2. What do you perceive as the most significant barriers currently to advancing smart and sustainable manufacturing in the U.S.?

3. For the barriers that you identified in Question 2, do you see effective solutions in place in other countries? If so, please briefly describe them.

4. Are there specific advances or initiatives you know of that could be solutions to some of these barriers? Please briefly describe them.

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5. In 10 years time, do you expect Smart Manufacturing to significantly add to US competitiveness?

- It will be the main driver for US Manufacturing Competitiveness
- It will contribute to US Manufacturing Competitiveness
- It will play a small role within US Manufacturing Competitiveness
- It will still be in R&D in 10 years time
- Other (please specify)

Workshop Input for June 16 and 17

6. What would you most like to get out of the workshop at NIST on June 16 & 17?

- Gain insight into current and intended NIST programming on the topic
- Build relationships
- Learn more about Smart Manufacturing
- Share expertise and knowledge with peers
- Discover solutions
- Help shape the Smart Manufacturing agenda
- Other (please describe)

Contact information: for Survey Administration and Analysis Purposes only

7. What type of organization do you work for?

Other (please specify)

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8. Your contact information

Name	<input type="text"/>
Company	<input type="text"/>
City/Town	<input type="text"/>
State/Province	<input type="text"/>
Country	<input type="text"/>
Email Address	<input type="text"/>
Phone Number	<input type="text"/>

End of Survey

Thank you very much for your input to the workshop and to the topic at large. If you have any questions about the workshop, please contact either Matthew Eckelman at Matt@sustainabilityatoz.com or Sudarsan Rachuri at sudarsan@cme.nist.gov