Digital Manufacturing and Design Innovation Institute

DMC Workshop – Sept. 23, 2015

Some Key Questions We're Often Asked…

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What's the Big Picture?

DMDII a **UI LABS** Collaboration

What's the Big Picture?

- Decline in U.S. manufacturing

- Obama administration's solution

- National Network of Manufacturing Innovation (NNMI)

- DMDII -- Digital Manufacturing & Design Innovation Institute

What does DMDII aim to do?

What does DMDII aim to do?

Encourage adoption of digital manufacturing & design technologies in one hundred thousand factories across the U.S.

Three main missions:

- R&D Projects

- Outreach to SMEs

- Workforce Development

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What *exactly* is digital manufacturing and digital design?

What *exactly* is digital manufacturing and digital design?

- **Clever use of data at every stage of production**

- **Advanced Manufacturing Enterprise (AME) -- "Digital Thread"**

- **Intelligent Machining -- sensors on machines to enhance performance**

- **Advanced Analytics -- crunching Big Data to make better mfg. decisions**

How do you choose your R&D projects?

How do you choose your R&D projects?

- **Partners send representatives to Technical Advisory Committee (TAC)**

- **Approximately 150 business-oriented problems that need solutions**

- **Group reached consensus on priorities**

- **Technology Roadmap developed**

- **Strategic Investment Plan flows from road map**

Who gets to work on your R&D projects?

Who gets to work on your R&D projects?

- **Any DMDII partner (except Tier 4 academic/nonprofit)**

- **Need not be a signed partner to submit a proposal**

- **Must be a signed partner before receiving an award**

- **50/50 cost-share between DMDII and winning team**

- **Team must determine who on the team pays the cost-share**

- **Team also determines who owns the Intellectual Property (IP)**

Why would an organization become a partner in DMDII?

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Why would an organization become a partner in DMDII?

Large OEMs

- Contribute to a national goal
- Help drive the train
- Participate in cutting-edge, important research
- Network with innovative SMEs
- Gain access to IP from *all* DMDII projects for internal R&D and operations
- Access to $120 million+ in research for $5 million over 5 years

Why would an organization become a partner in DMDII?

SMEs

- Win R&D project work

- Meet OEMs (sales, investments, acquisition)

- Educate themselves in digital manufacturing & design

- Contribute to a national goal

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Why would an organization become a partner in DMDII?

Academic

- Win R&D project work for faculty members
- Challenges for grads and undergrads
- Research leads to publications
- Competition with other universities
- Contribute to a national goal

Why would an organization become a partner in DMDII?

State or Local Government

- Boost local economy
- Stay abreast with competing cities and states
- Assist SMEs in state and win "friends"
- Create jobs
- Establish "regional hub"
- Educate workforce of the future

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How can my organization get involved with DMDII?

How can my organization get involved with DMDII?

- **R&D Projects – networking, workshops, submit proposals, receive contracts, perform research**

- **Advisory Committees – SMEs, WFD, Communications, thought-leadership, others**

- **Help us recruit new members -- "open doors"**

- **Identify and support new regional clusters, leading to "Chapters"**

- **We're engaged in a national effort -- We can't do it alone!**

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What's new?

Most recent steps...

* **Fourth project call issued on July 14th**

* **Project Call workshop on July 21st presented 14 kick-off briefings on DMDII's initial projects**

* **Technical Advisory Committee met on July 22nd to begin updating DMDII's Strategic Investment Plan for 2016**

* **"Road Show" event in Indianapolis on July 30th, supported by Rolls-Royce, Purdue University and State of Indiana**

* **Executive Committee recently approved R&D projects, dozens of new members and Version 3.1 of DMDII's Membership Agreement**

* **First meeting of DMDII's Workforce Development Advisory Committee held on Goose Island on August 10th and 11th**

What's coming?

Upcoming Events

- **Digital Manufacturing Commons (DMC) workshop scheduled at Goose Island on September 23rd**

- **DMDII's Executive Director, Dr. Dean Bartles, to address IoT Conference organized by Bosch in Chicago on September 22, 2015**

Contact us!

For further information about joining DMDII or participating actively as a member of DMDII, please contact:

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