Update on the Public-Private Initiative to Support University-Industry Partnerships
Presentation to the University of Illinois Board of Trustees
December 13, 2013
Today’s Discussion

- History and Formation
- Mission and Vision
- Launching Our First Program
- 2014 & Beyond
History + Formation

Chicago Council on Global Affairs
Spring 2011

Chairman Kennedy's Call to Action
Spring 2011

World Business Chicago Strategic Vision, Spring 2012

OVPR BOT “American Research University”
Summer 2011

OECD Tri State Report
Spring 2012

Illinois Innovation Council
Spring 2011

NRC Report on American Research Universities
Spring 2012
“Business and industry have largely dismantled the large corporate research laboratories that drove American industrial leadership in the 20th century (e.g., Bell Labs), but have not yet fully partnered with research universities to fill the gap at a time when the new knowledge and ideas emerging from university research are needed by society more than ever.”

Public + Private Partnerships for the New Millennium

The University of Illinois has been answering “big questions” for nearly 150 years.

With UI LABS, we’re setting our course for generations to come, embracing our responsibility to address the global challenges through innovation and our technological prowess.

Partnering with one of the world’s most vibrant cities and industry to do so simply makes sense.

Dr. Larry Schook, University of Illinois Vice President for Research
Presentation to the Board of Trustees, January 2013
Mission + Vision
Platform for University + Industry Partnerships

R&D funding landscape is shifting

- Federal funding for R&D over next 10 years is stable at best
- Limited sources of federal funding for applied R&D
- University of Illinois – like most others – receives 80% of its $1 billion research budget from federal sources
- Most industry growth from SME & technology business models with limited R&D resources

Average percentage of industry funding for R&D at universities and colleges, FY2000–2011

Source: National Science Foundation

Illinois Innovation Index, October 2013
Mission + Vision
Platform for University + Industry Partnerships

How does UI LABS uniquely fill the need?

✓ “Honest broker” for industry-university-government partnerships
✓ Curator of complex R&D and training partnerships, leveraging replicable framework, valuable connections, and scalable infrastructure
✓ Designer and manager of flexible and agile engagement models, minimizing operating constraints and optimizing efficiencies

Why is it compelling?

✓ Positive economic development
✓ New sources for R&D and innovation
✓ More competitive industrial base
Mission + Vision
Destination for Talent

More than 9,000 engineering undergrads enroll across University of Illinois campuses each year.

That's more than Stanford, MIT, Berkeley, and CalTech combined.
Mission + Vision
Destination for Talent

- World-leading researchers tackling the most pressing technological challenges at an independent, flexible, collaborative RD&D center in downtown Chicago outside the traditional academic system

- Opportunity for students to get real-world training and interact with innovative companies as part of their educational experience

- New level of industry-academic partnership, creating a major national center for commercialization, talent development, and job creation
Launching Our First Program
Advanced Manufacturing

Illinois Manufacturing Lab

✓ Go-to source for Illinois small and medium-sized manufacturers to implement advanced manufacturing technology applications

✓ Public-private partnership for identifying and solving broad-based manufacturing challenges within Illinois

✓ Platform for bringing together top-flight research capabilities, technical resources, and commercialization expertise to increase the productivity, profitability and revenue of Illinois manufacturers
Launching Our First Program
Advanced Manufacturing

President Obama creates NNMI
Mar 9, 2012

White House announces 3 new NNMI Institutes
May 9, 2013

DMDI Concept Paper Submission
Aug 5, 2013

DMDI Award Announcement
January 2014

NCDMM launches NAMII/America Makes
Aug 16, 2012

RFI Response to DMDI Proposed Institute
June 6, 2013

DMDI Full Proposal Submission
Oct 21, 2013
Launching Our First Program
Advanced Manufacturing

Transform U.S. Manufacturing
Accelerate adoption of digital manufacturing technologies across DoD OEMs, Leading Manufacturers, and World Class Technology Companies

Create an Innovation Ecosystem
Help manufacturers of all sizes and their suppliers innovate through digital integration and strategic collaboration

Strengthen the U.S. Economy
Spur long-term economic growth and job creation – billions in cost savings to DoD per year, billions of dollars in value to OEMs per year, thousands of jobs created
2014 & Beyond

Align the greatest resources of industry, academia and government as an independent research, training and commercialization engine

Accelerate innovation and solve technological problems in areas critical to the prosperity of Chicago, Illinois and the Midwest

Curate University + Industry partnerships to address grand challenges, enhancing Illinois and Chicago’s competitiveness as a global tech hub and destination for talent
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