



Update on the Public-Private Initiative to Support University-Industry Partnerships

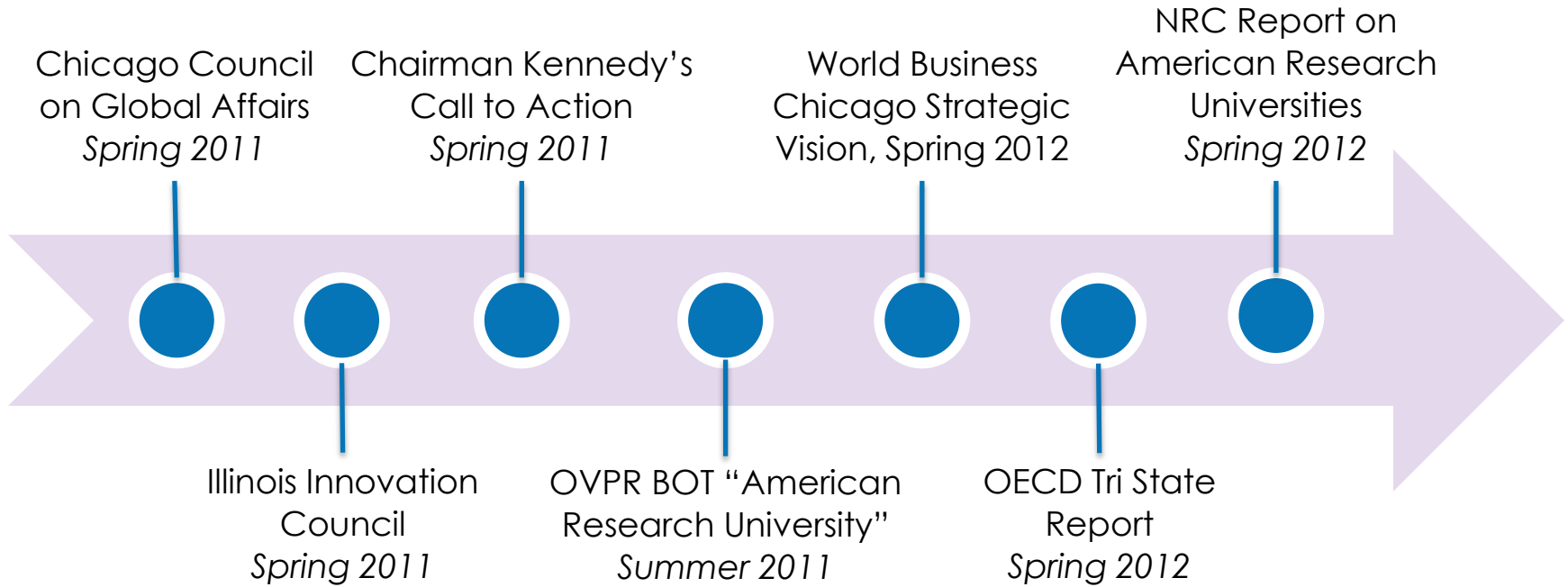
Presentation to the University of Illinois Board of Trustees

December 13, 2013

Today's Discussion

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

History + Formation



“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.”

Excerpted from National Research Council Report, “Research Universities and the Future of America,” National Academies Press, June 2012

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

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

Percentage, %



Source: National Science Foundation

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

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?

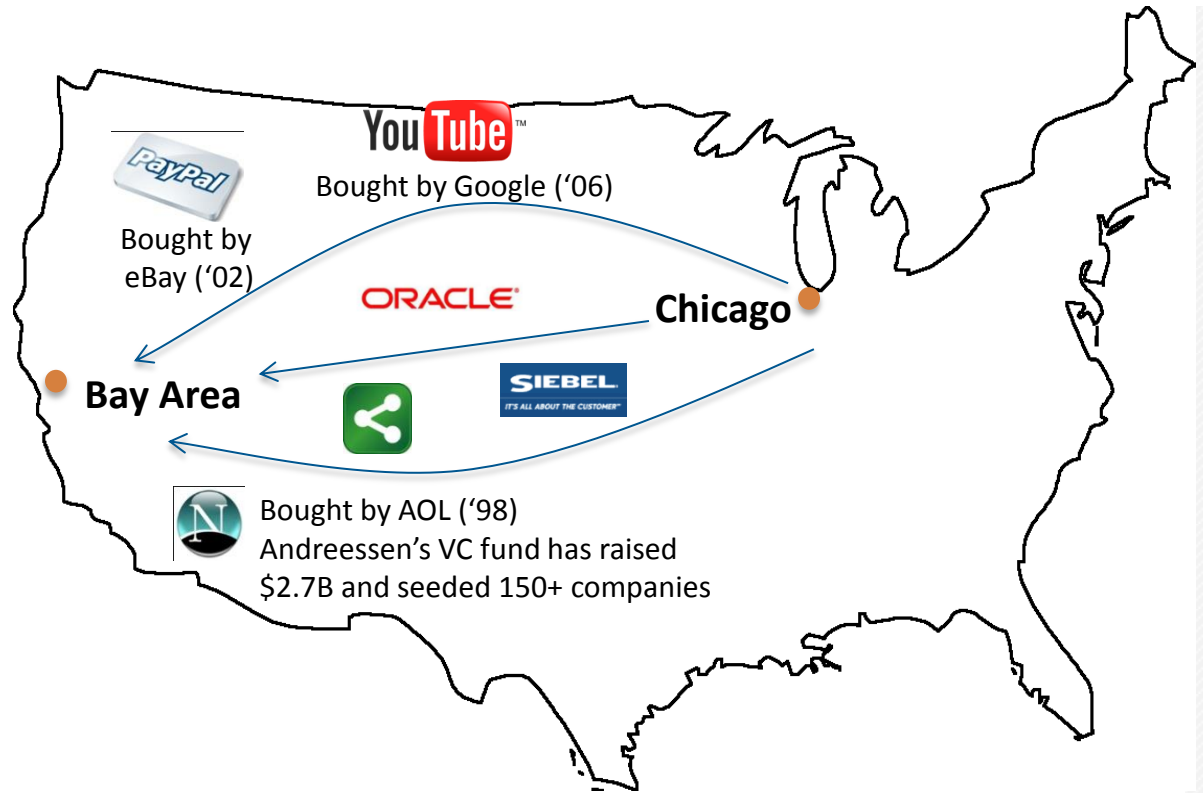
- ✓ Positive economic development
- ✓ New sources for R&D and innovation
- ✓ More competitive industrial base

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

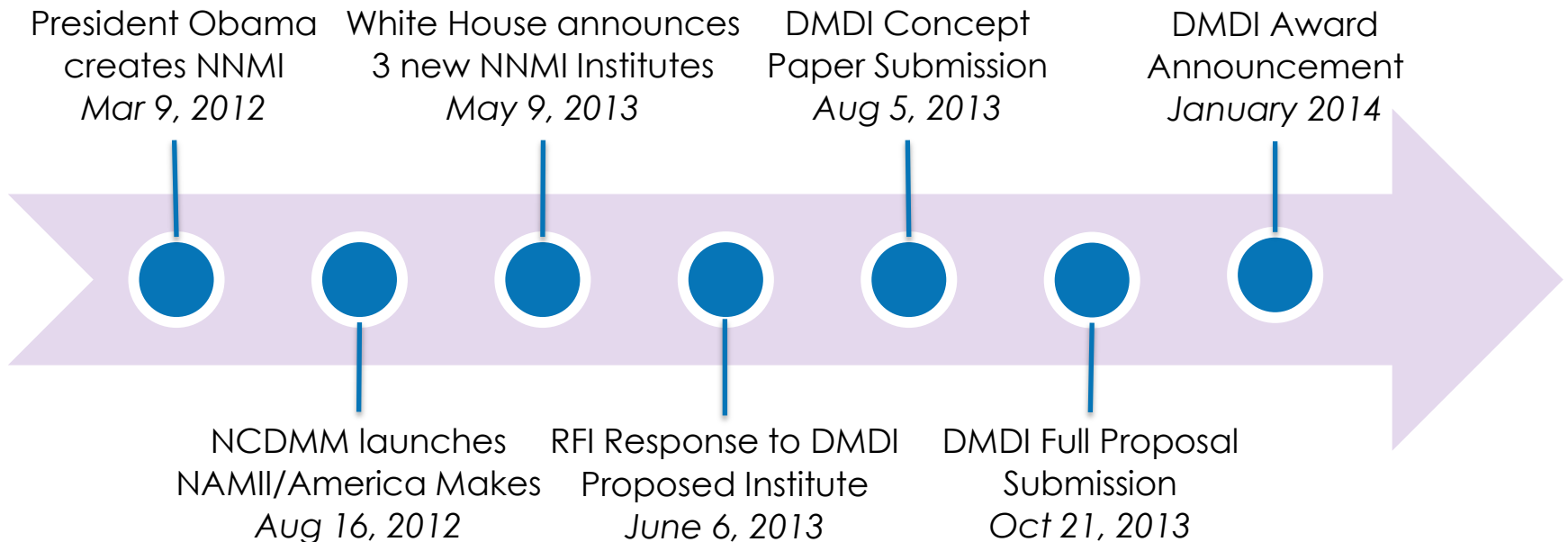
Illinois Manufacturing Lab

- ✓ 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



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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