

Reported to the Board of Trustees  
May 7, 2015

# UI LABS UPDATE

UNIVERSITY OF ILLINOIS  
BOARD OF TRUSTEES  
MAY 7, 2015



UNIVERSITY OF ILLINOIS  
URBANA-CHAMPAIGN • CHICAGO • SPRINGFIELD

OFFICE OF THE VICE PRESIDENT FOR RESEARCH

Welcome to UI LABS' first quarterly newsletter

[View this email in your browser](#)

# UI LABS NEWSLETTER

VOLUME 1 | ISSUE 1

## WELCOME

to the First Issue of the UI LABS Quarterly Newsletter

2015 is set to be a great year for UI LABS, and that is thanks to all of the hard work and dedicated effort put forth by our many partner companies and organizations, as well as our entire staff, throughout all of last year.

For our first ever quarterly newsletter, we decided to take a look back at UI LABS' short, yet exciting journey from its creation to today.

## HEADLINES



**UI LABS Breaks Ground on New World-Class Facility**



+ a UI LABS Collaboration

# NEWSLETTER

FEBRUARY 2015

## VOLUME 1 | ISSUE 1



*Artist's Image of DMDII's new home on Goose Island*



*Attendees networking at the first workshop in Chicago*

**DMDII ANNOUNCES SEVEN PROJECT CALLS AND SCHEDULES PUBLIC WORKSHOP IN ATLANTA FEB. 25-26**



UNIVERSITY OF ILLINOIS  
URBANA-CHAMPAIGN • CHICAGO • SPRINGFIELD



**DMDII**  
a UI LABS Collaboration

## DMDII Project Calls

- Seven project calls released on January 21, 2015
- Total project investment: \$25M (\$12.5M government investment + \$12.5M cost share)
- Workshop held in Atlanta, GA, on February 25-26
- White papers received/due over the course of March-May 2015
- Projects will run for 12-24 months with transition to industry expected shortly after

Factory  
Cybersecurity  
Infrastructure  
Assessment

Smart Factory  
Visibility and  
Real-Time  
Optimization

Communication  
Standards for  
Intelligent  
Machines

Shop Floor  
Augmented Reality  
and Wearable  
Computing

Systems Design  
using the Digital  
Thread

Operating System  
for Cyber-Physical  
Manufacturing

Virtually Guided  
Certification



March 21, 2015

# You're living in a lab: Microsoft, Accenture, Siemens, UI Labs tinker with a new 'city that works' here

By JOHN PLETZ | [Twitter](#) [8+](#)

[SHARE](#)

[Argonne National Laboratory](#) [City of Chicago](#) [University of Chicago](#) [Rahm Emar](#)



CityWorks will be based at UI Labs' headquarters on Goose Island, set to open this spring. Manuel Martinez

Chicago, the city that works, will be the test subject in an experiment to create the city that works better.

Microsoft, Accenture, Commonwealth Edison and Siemens are partnering with the city of Chicago to figure out how technology can help design and operate more efficient cities. The effort, called CityWorks, is the second major program for UI Labs, a Chicago-based research consortium between top universities and companies across the Midwest.

Launched **two years ago**, UI Labs is best known for its first project, a federally funded effort to develop next-generation manufacturing technology called the Digital Manufacturing and Design Innovation Institute.

**CRAIN'S**  
CHICAGO BUSINESS.



THE CITY THAT WORKS

## CityWorks R&D Lab Wants to Turn Chicago Into Urban Testbed

Monday, March 23, 2015, by Patrick Sisson



On the heels of the University of Chicago's \$1 million Innovation Challenge for urban policy solutions, today's announcement that UI Labs ("universities and industries") will open CityWorks, a private R&D partnership that will be based on Goose Island, sets up the city to be a center for urban studies, technology and innovations. Founding partners Microsoft, Accenture, ComEd and Siemens will operate a bit like angel investors, according to Jason Harris, a spokesman for UI Labs. This project will seek to "level up Chicago as a center for the built environment." The city's mix of university and industry partners, government leadership and legacy of architecture and design innovation place it in a perfect position for this kind of incubator, according to Harris.

[GOOSE ISLAND](#)

[CITYWORKS](#)

[GOOSE ISLAND](#)

[GOOSE ISLAND 2.0](#)

[THE CITY THAT WORKS](#)

[TOP](#)

[UI LABS](#)

[4 COMMENTS](#)

[Like](#) [22](#)



UNIVERSITY OF ILLINOIS  
URBANA-CHAMPAIGN • CHICAGO • SPRINGFIELD



# CITYWORKS What We Do

CityWorks will **address challenges to the built environment** and **produce commercializable, scalable solutions** in areas such as energy management, physical infrastructure, water and sanitation systems, and transportation and logistics systems.



## ENERGY MANAGEMENT

Use of sensing technologies, data collection, and advanced diagnostics to optimize energy use, efficiency, availability, and reliability within large buildings and across entire neighborhoods. Includes building management systems, smart meters, micro grids, intelligent loads, and implications of electric vehicles and variable energy sources.



## PHYSICAL INFRASTRUCTURE

Development and deployment of advanced sensing technologies and data analytics to provide information and guidance to improve monitoring of infrastructure use and condition; optimize investments, locations, and schedules for infrastructure construction, operation, and maintenance; and facilitate public safety/emergency management planning and communications.



## TRANSPORTATION

Development and use of advanced technologies, data collection, and design to better monitor and manage congestion, optimize distribution systems and networks, enhance transportation safety, improve user experience, and expedite intermodal transport of freight and people.



## WATER & SANITATION

Data collection, optical, acoustic, thermal and traditional sensing, and development of predictive capabilities to efficiently manage storm water and increase flood resilience, inform policies related to water quality and management, provide better pricing for flood-related insurance, and facilitate development and assessment of green/grey infrastructure technologies and policies.



# ILLINOIS MANUFACTURING LAB

Mission: Apply advanced technology to solve problems for Illinois manufacturers to enhance regional competitiveness

Planned 2015 Activities:

- Establish IML Steering Committee
- Establish IML Working Group
- Cluster Development
- IML Workforce Development
- Student Engagement Program
- Collaboration between the University of Illinois and UI LABS



# GOOSE ISLAND FACILITY

## OPENING MAY 11

- Sneak peak in the Chicago Tribune March 29
- Received certificate of occupancy on April 13
- Full staff moved in on April 20
- Grand opening to take place on May 11 with participation from Senator Durbin, Governor Rauner, and Mayor Emanuel and many others
- Partner and community engagement activities will engage 600+ stakeholders during the first week



FOR MORE INFORMATION:

