



Robotics Alley

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A Global Robotics & Automation Initiative



ASSUMPTIONS

- The Robotics Revolution is real and is happening now
- The Twin Cities has potential to be a global “hub” or cluster in robotics technology, if we pull together .
- Public/Private partnerships are vital to leadership success in the growth of high-tech, innovation based industries in the US. This is a Minnesota strength!



Robotics Industry forecasts to create one million jobs globally, by 2016

"Positive Impact of Industrial Robots on Employment": 2011 Study by Metro Martech

Service Robots: a \$21 billion industry in by 2014

"Global Service Robotics Market (2010 – 2015)": 2010 Market Research by Markets&Markets

Amazon buys warehouse robotics start-up Kiva Systems for \$775 million

Boston.com

Industrial robot sales up 18% in 2011

International Federation of Robotics

\$71 billion spent on UAVs over next five years

"The Unmanned Aerial Vehicles (UAV) Market 2011-2021 Technologies for ISR and Counter-Insurgency": ASDReports

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White House adviser: 'Robotics revolution is here'

Posted: 3:05 pm Wed, April 11, 2012

By Brad Allen

Tags: [Andrew Borene](#), [Minnesota High Tech Association](#), [National Institutes of Health](#), [National Robotics Initiative](#), [ReconRobotics](#), [robotics](#), [Robotics Alley](#), [University of Minnesota](#), [White House Office of Science and Technology Policy](#)

How many people does it take to run an unmanned factory?

The question may sound ironic but the answer, it turns out, is quite a few, said robotics expert Charles Thorpe, science and technology policy adviser to the Obama White House.

Thorpe, who was in town on Wednesday to promote the **National Robotics Initiative**, said the traditional "dull, dirty, dangerous, backbreaking work" in manufacturing is in the past





ROBOTICS REVOLUTION AREAS

- **Medicine**
- **Agriculture**
- **Security & Defense**
- **Industrial Applications**
- **Personal Service**

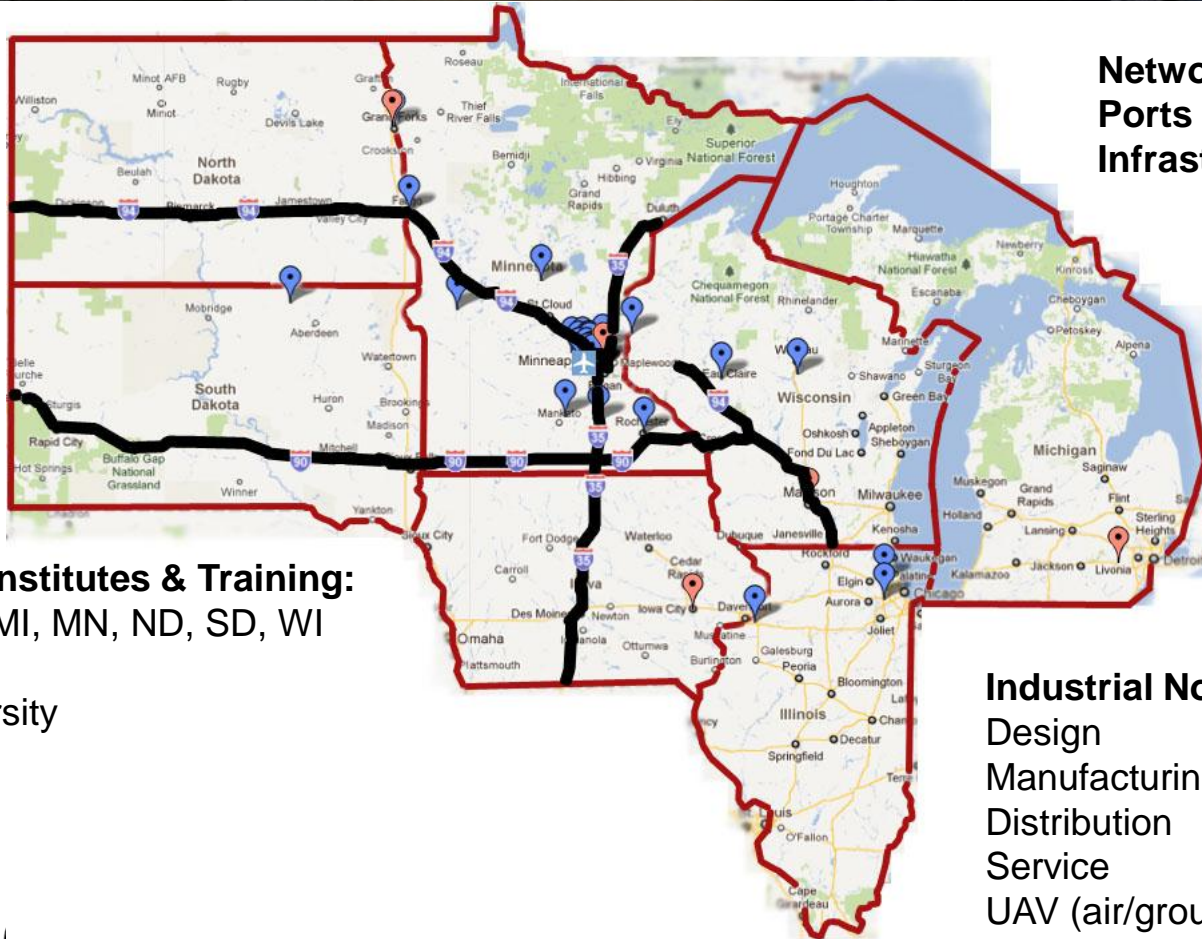




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**Networked Highways,
Ports and
Infrastructure**

Robotics Research Institutes & Training:

- Universities of IA, IL, MI, MN, ND, SD, WI
- University of Chicago
- Michigan State University
- Iowa State University
- Community Colleges
- Technical Schools

Industrial Nodes:

- Design
- Manufacturing
- Distribution
- Service
- UAV (air/ground teaming)





FOUNDING PARTNERS



THOMSON REUTERS

GOLD



SUPPORTING



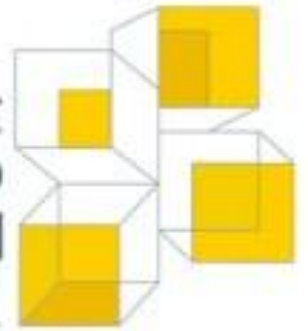
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By Leslie Brooks Suzuki
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GLOBAL
ROBOTICS
INNOVATION
PARK



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Creating Our Global Robotics Center of Excellence

1. Attract economic support from government leaders and policy makers
2. Promote our highly skilled, high-tech workforce
3. Enter into a coalition of public and private partners with a shared vision to secure international recognition



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- A **private/public partnership initiative** designed to raise the profile of the United States heartland in the global robotics industry.
- The founding Robotics Alley conference & expo on November 17, 2011 brought together **leading companies, academics, and government officials** including state and federal legislators, and state agency leaders.
- Robotics Alley 2012, on November 15, is expected to attract hundreds of attendees and an exposition of 30 exhibitors

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