Manufacturing, the Road to Success

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“Reaffirming America’s role as the global engine of scientific discovery and technological innovation has never been more critical. ...Our renewed commitment to science and technology ... will help us protect our citizens and advance U.S. national security priorities.”

–National Security Strategy, May 2010
Some Initiatives Related to Advanced Manufacturing

- Materials Genome
- Robotics Initiative
- STEM initiatives
- Manufacturing Extension Partnership

White House Science Fair, Feb 2012
Primary Recommendations from AMP SC

• 3 key areas / 16 recommendations for action

• Enabling innovation
  – improved coordination among industry, academia, and the government in R&D funding for cross-cutting technologies.

• Securing the talent pipeline
  – community college level education and enhancing advanced manufacturing university programs.

• Improving the business climate
  – tax reform, regulatory, trade, and energy policy.
Some thoughts

• Improve reputation of manufacturing
• Engage and support States
• Engage and support SMEs
• Develop educational baseline for manufacturing
• University acceptance / integration of TRL 4-9 work
• Thinking in a completely new fashion
Global Wellbeing

- Wealth creation
- Sustainability / efficiency
- Enabling SME’s
- National well being
- Secured international leadership
- The United States of America
  - Economic Prosperity
  - National Security
- The World

“In times of change, learners inherit the earth; while the learned find themselves beautifully equipped to deal with a world that no longer exists.” (Eric Hoffer 1902-1983)
“Think about the America within our reach: A country that leads the world in educating its people. An America that attracts a new generation of high-tech manufacturing and high-paying jobs. A future where we’re in control of our own energy, and our security and prosperity aren’t so tied to unstable parts of the world. An economy built to last, where hard work pays off, and responsibility is rewarded.”

- President Barack Obama
January 24, 2012