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Advancing US Manufacturing to Derisk Supply Chains

About the Center

The US center for Advanced Manufacturing engages key stakeholders in the American manufacturing ecosystem to help accelerate Industry 4.0 adoption and unlock productive innovation and sustainable inclusive growth.



Innovative

innovative products, value for manufacturers



Sustainable



worker with

new opportunities through

Generating forward looking insights

The center anticipates global trends and supports U.S. manufacturers and policymakers that accelerate responsible

Unlocking new collaborations

manufacturing challenges and leverage new opportunities

Building peer communities

The center creates and engages peer communities to facilitate knowledge exchange and best practice sharing

Ecosystem Collaboration

- Importance of collaboration between academia, government, and industry
- Necessity of public investment in R&D with Industry follow-on capital
- USC4AM as a hub for fostering collaboration and innovation
- Fostering new and existing partnerships such as Purdue, International Trade Administration, and the World Economic Forum
- Amplifying impact through collective efforts and knowledge sharing

Workforce Trends



Dynamic Shifts in manufacturing jobs and skills development

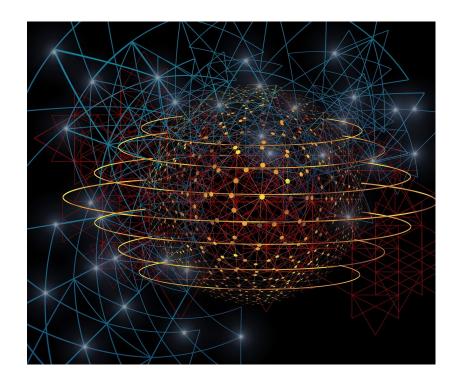
Observations and trends in workforce transformation

Emphasizing on higher-skilled positions and advanced technologies

Projection of 12 million net increase in tech-augmented jobs

Technology Adoption

- Key technology trends
 - Automation, AI, material and digitalization in advanced manufacturing
- The importance of the Chips Act and semiconductor industry
 - What is the semiconductor industry of today? Batteries? Materials?
- Rapid growth of IoT devices
 - Expected to reach over 36 billion connected devices by 2025



Government, Academia, and Industry Cohesion

The Center is striving for a stronger collaboration amongst policy makers, academia, and industry to fuel sustainable development and innovation

Harnessing the collective strength to address challenges and seize opportunities

The Center is unique in that it can shape the future of manufacturing not only domestically but globally

Shared Trends Impacting US Center and Purdue

Highlighting shared goals and collaborations between US and Purdue:

- Strategic alliances for long-term stability and innovation:
- Joint research and development initiatives in emerging technologies
- Exchange programs for workforce development and upskilling

Examples of collaborative efforts:

- Joint projects in advanced manufacturing and supply chain resilience
- Coordinated efforts in promoting Industry 4.0 adoption and digital transformation

Importance of aligning policies and strategies:

- Establishing common standards and regulations for interoperability
- Coordinating investment strategies to support mutual growth and competitiveness

Vision for future collaboration:

- Other key players in the global manufacturing ecosystem building upon existing partnerships to tackle shared challenges
- Expanding networks to include cross-industry best-in-class companies

Key Takeaways

Emphasis on collaboration, innovation, and technology adoption:

Key drivers for advancing US manufacturing and de-risking supply chains

Invitation to explore partnerships with USC4AM:

- Opportunity to contribute to a global network of innovation
- Foster mutually beneficial relationships for shared success

Announcement of Innovation Summit in August 2024:

- Platform for bringing together industry leaders and innovators
- Opportunity to exchange ideas and drive future advancements in manufacturing

Call to action for continued collaboration and optimism:

- Encouragement to approach the future with optimism and determination
- Commitment to tackling challenges and fostering innovation in manufacturing together

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