



Driving a strategic vision...



- > Globalized economy
- > Workforce erosion
- > Natural resource competition
- > Pressure to go “green”

- > Relevant expertise is expensive
- > Net-centrism for design & production
- > Customization is the critical competitive frontier
- > Information security a key concern

- > Small Air Force
- > UAS is dominant
- > Irregular warfare
- > Net-based operations
- > Precision engagement

- > **Clockspeed becomes the vital measure**
 - > **Warfighter response to threats**
 - > **IB response to warfighter needs**
 - > **Smaller lots, short production runs**
 - > **Rapid maintenance turnaround**

**Next Generation Agile
Manufacturing**





AF ManTech Strategy



Moving Manufacturing Left

- Sponsor early development of game-changing mfg technologies and partner with academia and small business on high risk/high payoff opportunities
- Develop tools and methods that promote early consideration of mfg implications during concept development

Cradle To Cradle Digital Thread

- Increase digital density across life-cycle and ensure wide access to the same computer-based technical data/description of the product
- Enable increased reusability of materials and components, and optimize impact on the environment

Next Generation Agile Manufacturing

Responsive, Integrated Supply Base

- IB capabilities and risks are known, available, and integrated into product development
- 21st century supply chain mgmt principles
- Capability for rapid formation of global partnerships
- Efficient information flows

Factory of the Future

- Next gen mfg technologies developed with process and cost models -- drive the factory and feed the Digital Thread
- Lean & agile, lot size insensitivity
- Green wrt the factory footprint
- Robotics and next gen automation
- Advanced/ wireless factory C2