

**Advanced Manufacturing  
Innovation:**  
Tested concepts and  
emerging models

**Krystyn J. Van Vliet**

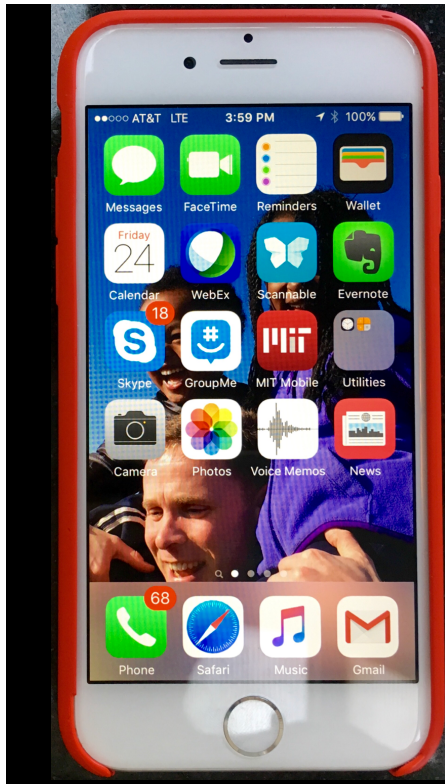
*Professor, MIT*

Departments of Materials Science and  
Engineering, Biological Engineering

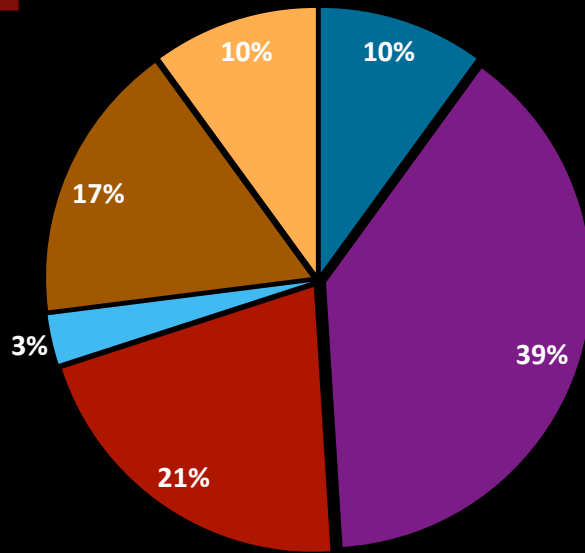
*Director of Manufacturing Innovation*

MIT Innovation Initiative

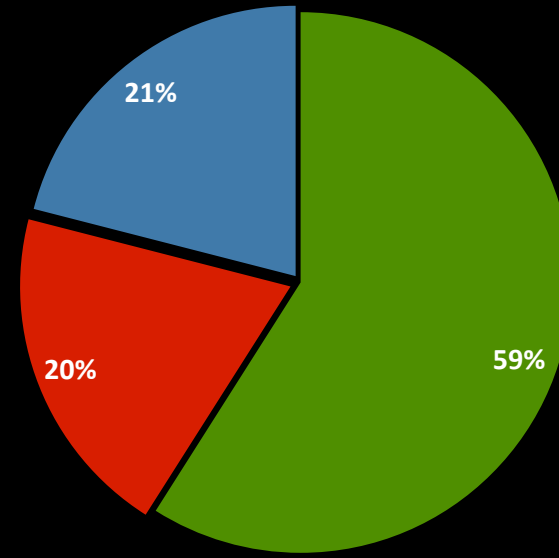




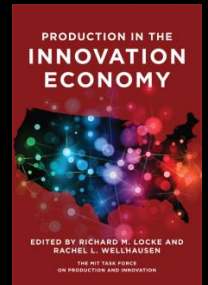




- Advanced Materials and Energy
- Biopharma
- Medical Devices
- Robotics
- Semiconductors and Electronics
- Other



- Operating
- Closed
- Merged



Innovation

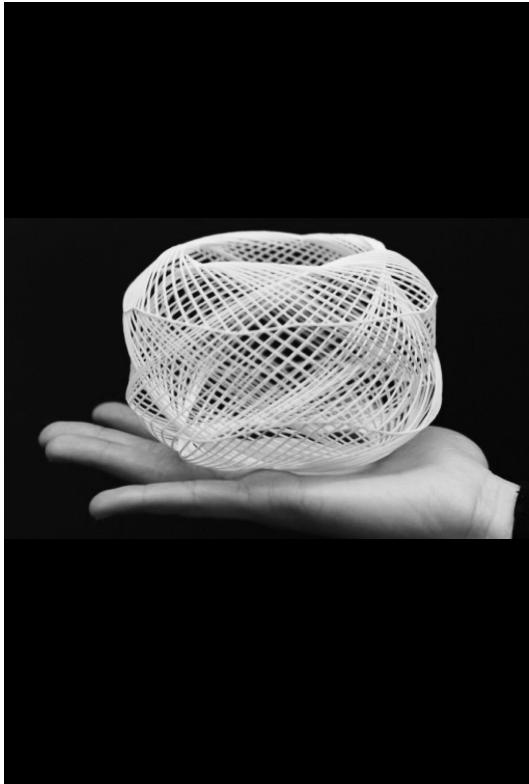


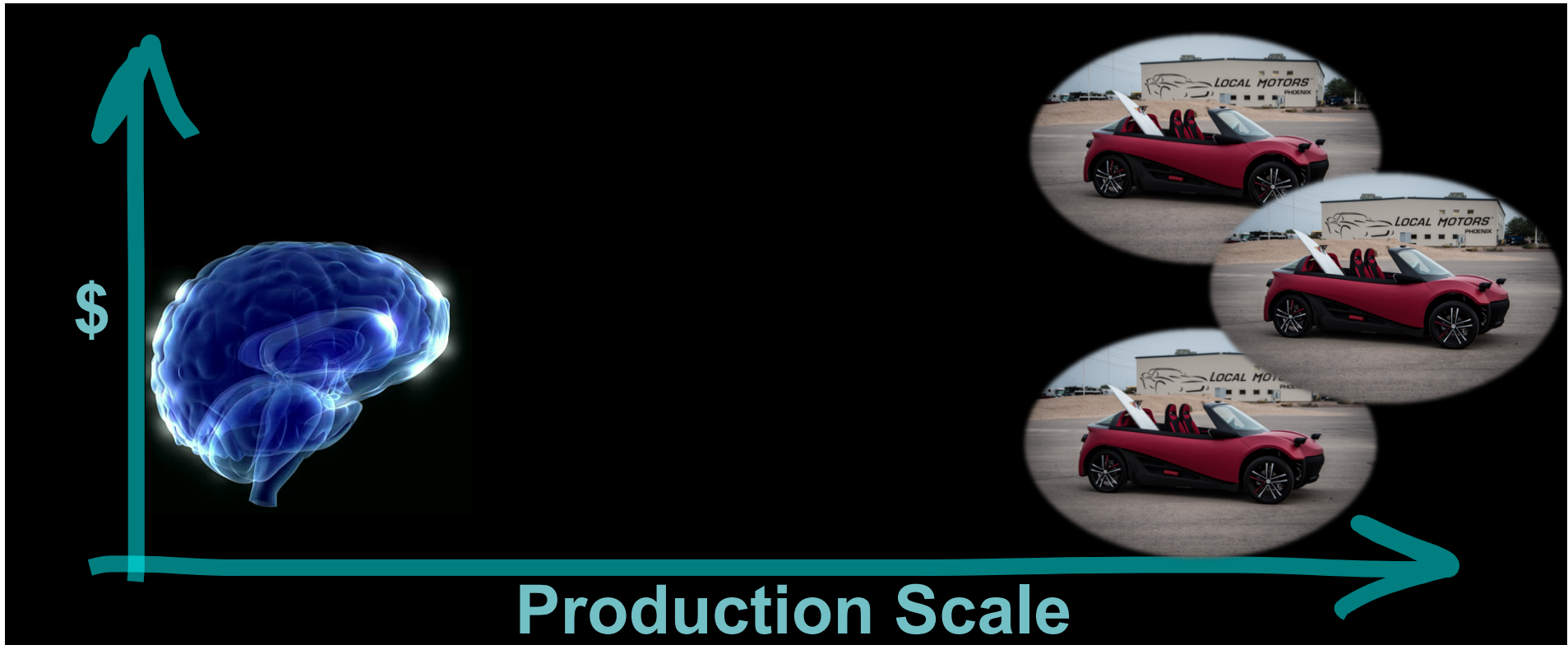
Production



Manufacturing Ecosystems



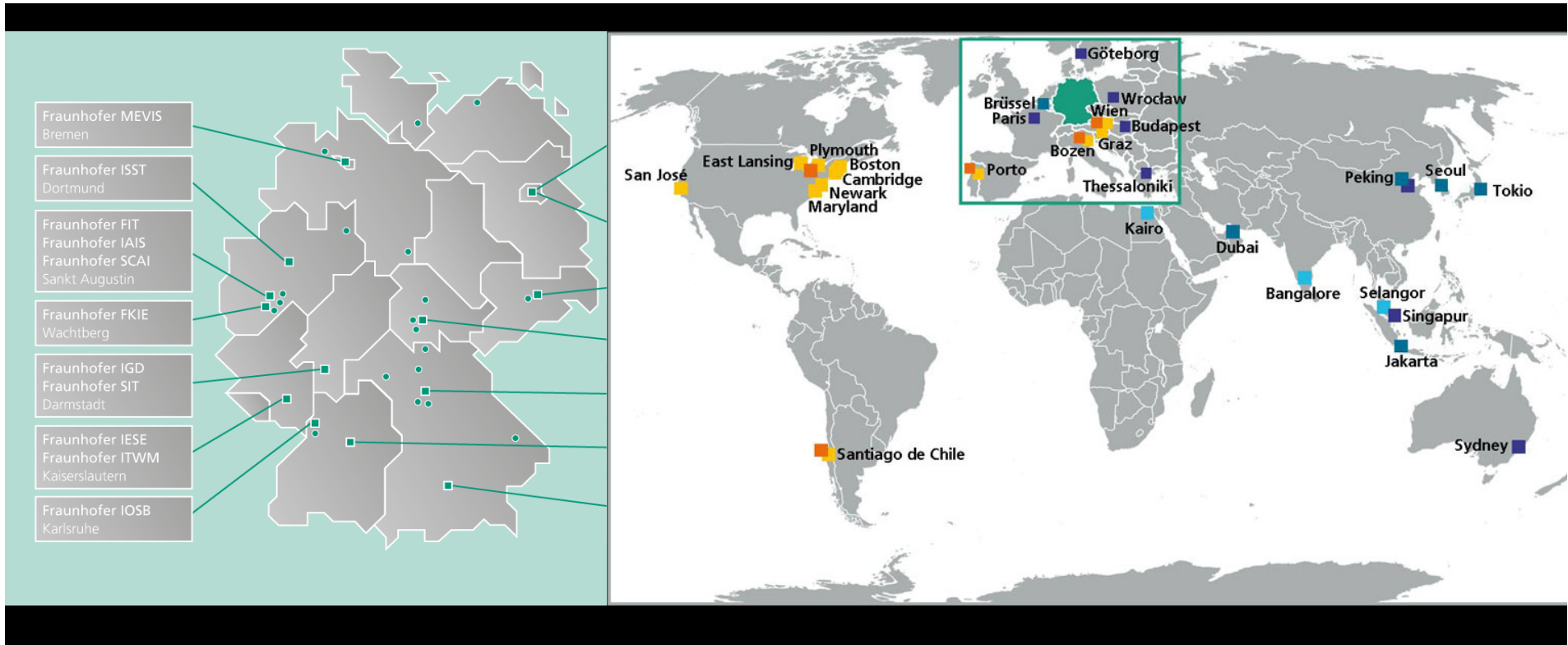














iPad 12:00 PM hvm.catapult.org.uk 100%

Search for technologies... >

Select a centre ✓

- Advanced Forming Research Centre AFRC
- Advanced Manufacturing Research Centre AMRC
- Centre for Process Innovation CPI
- Manufacturing Technology Centre MTC
- National Composites Centre NCC
- Nuclear AMRC
- WMG Catapult

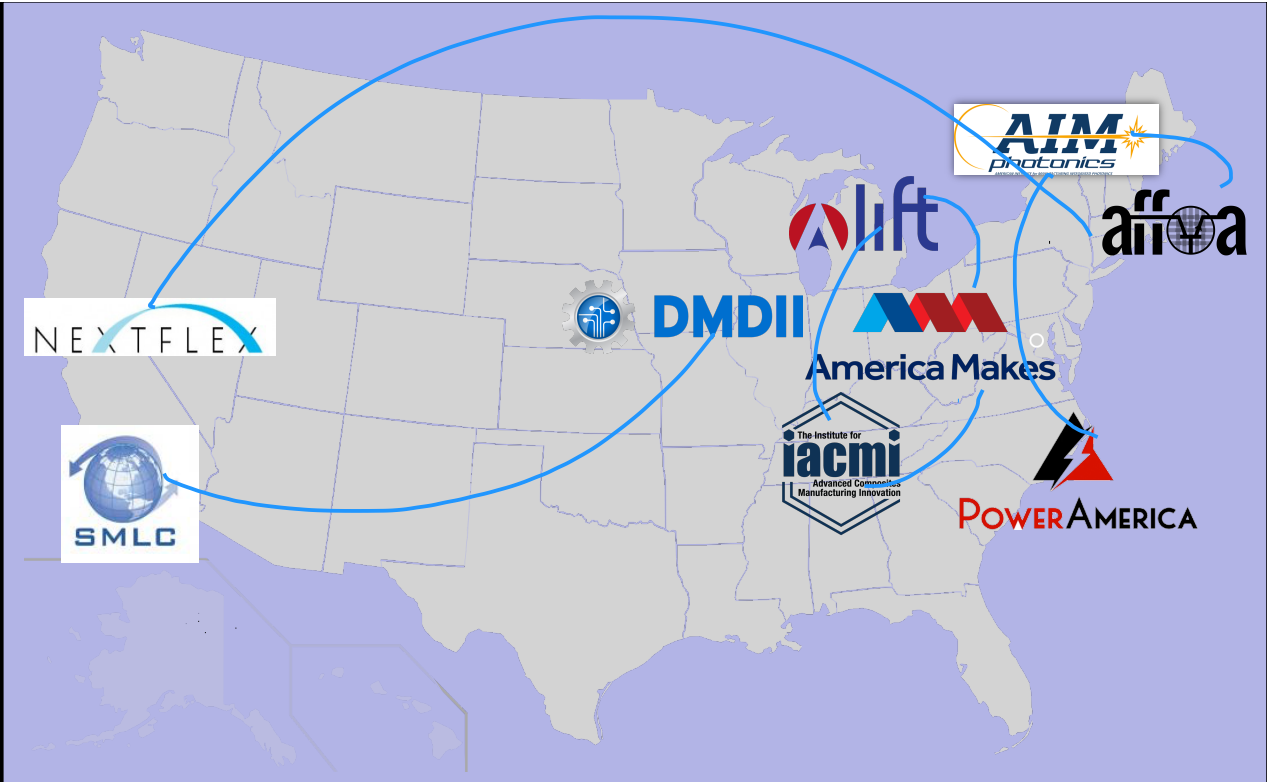
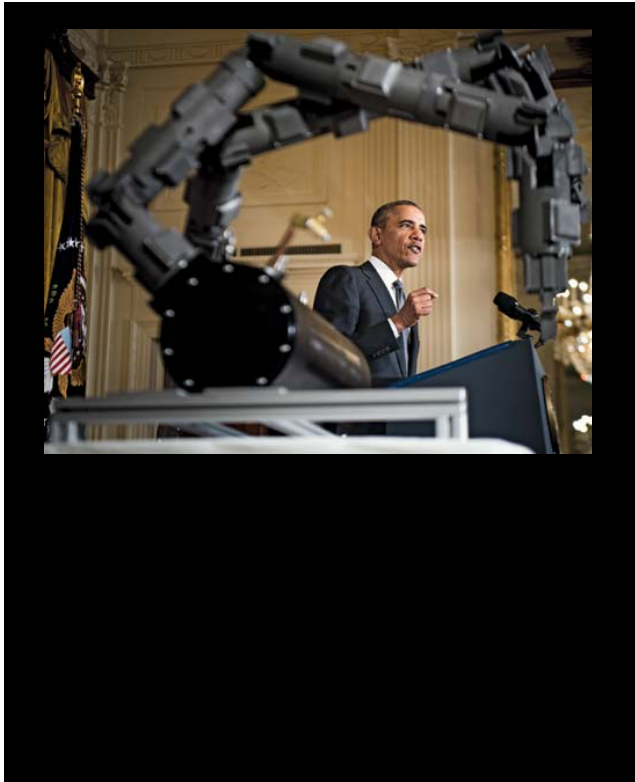
Select a centre ⌵

A map of the United Kingdom with several blue dots indicating the locations of various research centres. The dots are located in Scotland, Northern England, and Southern England.



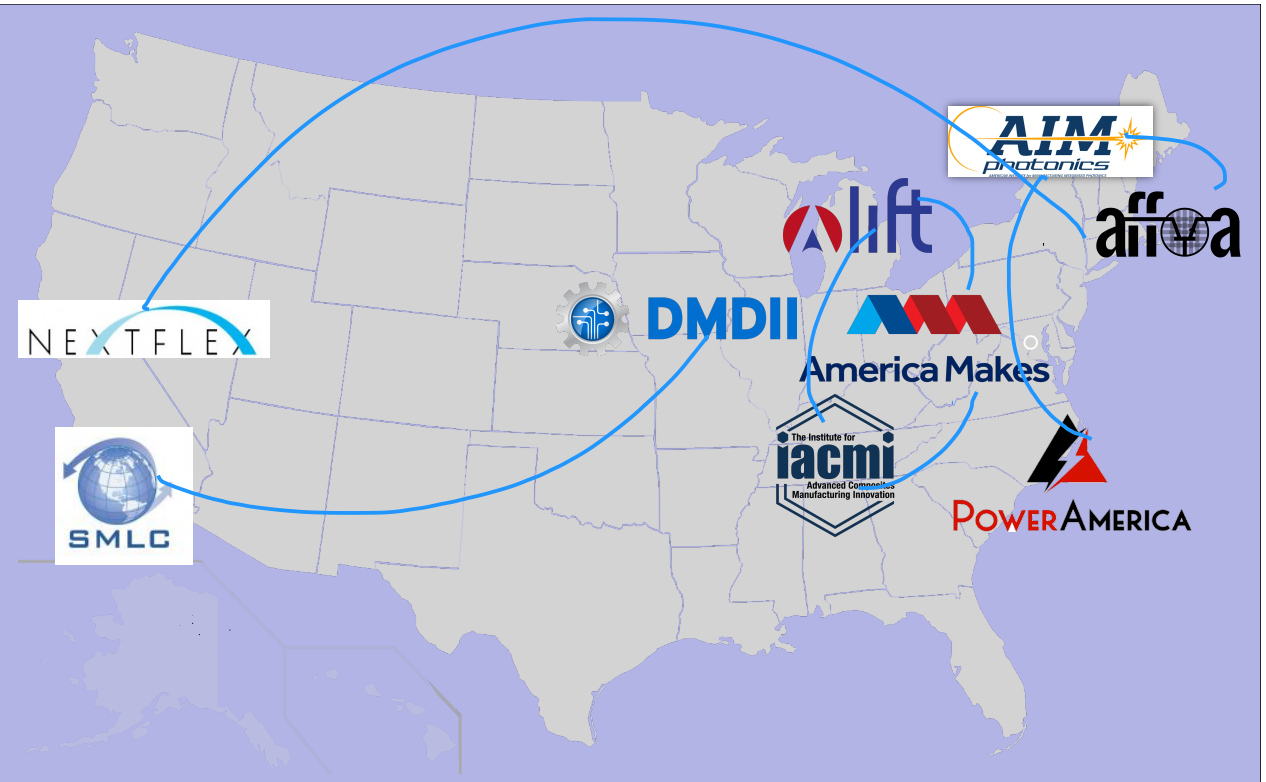
# Women in Manufacturing in Africa

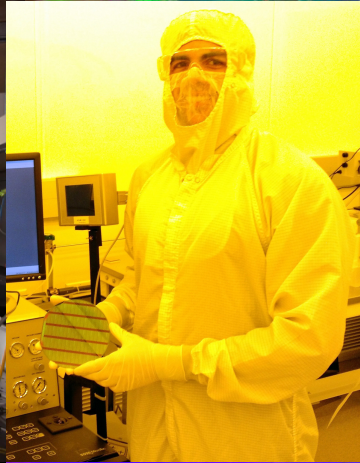
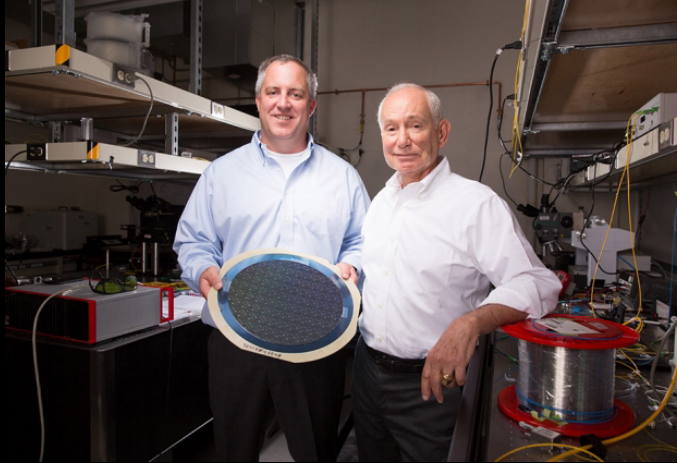
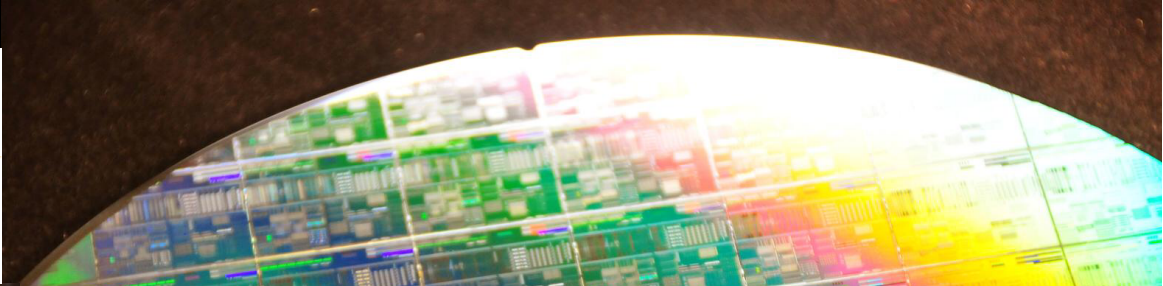




## Manufacturing USA Institutes

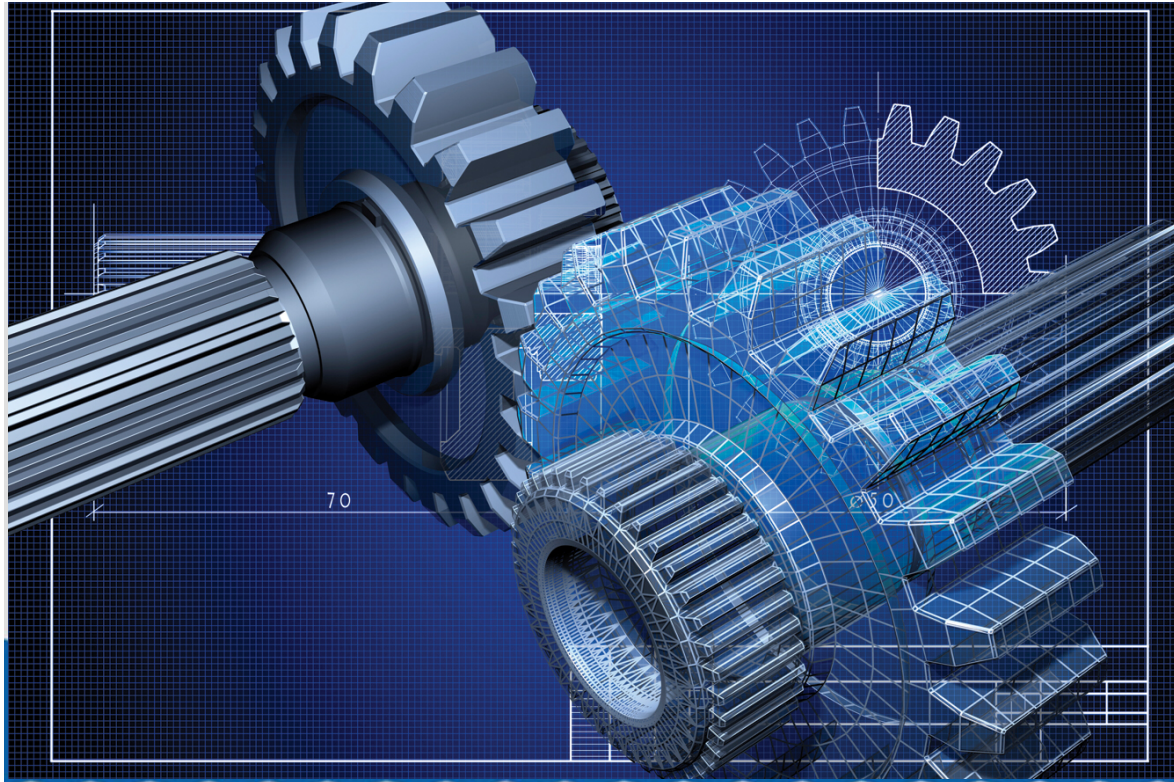
- Public-private partnerships among industry, government, academia
- Technical and education/workforce projects
- All U.S. organizations can
  - join as member
  - shape technical scope
  - participate in projects
  - share IP
  - contribute to/benefit from training



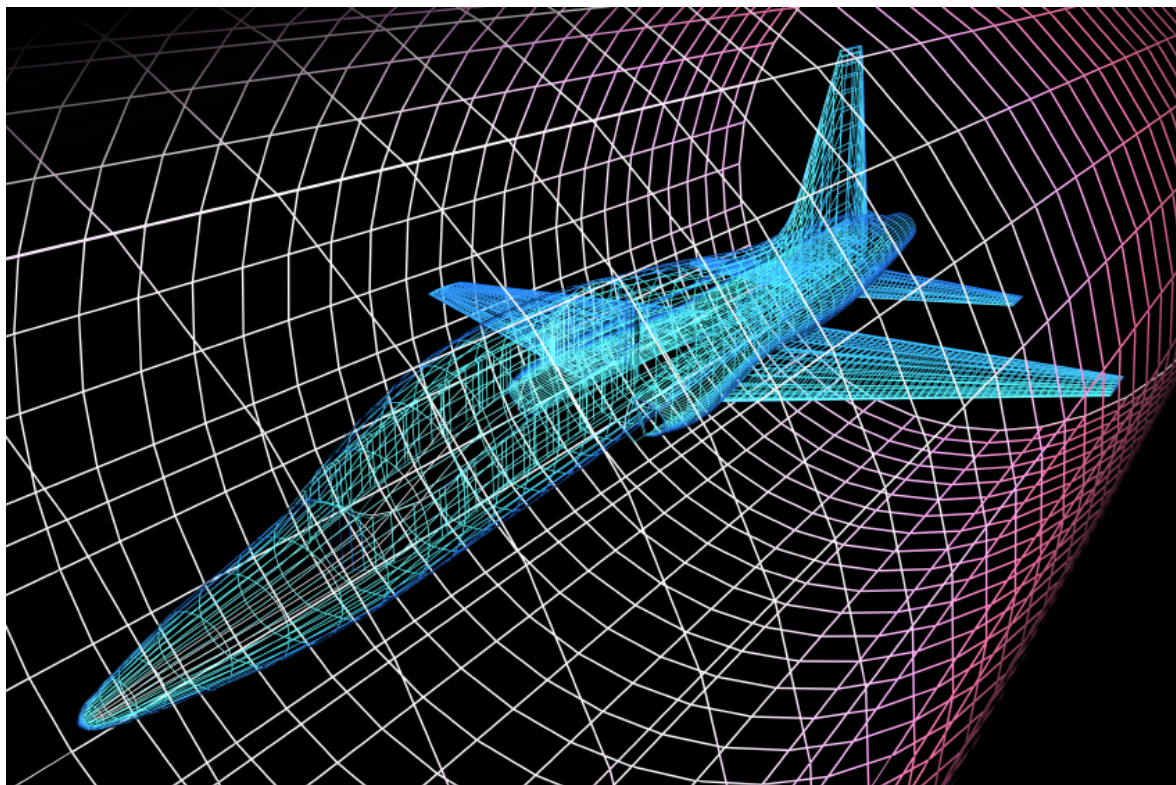








**Invent it here  
AND  
make it here  
WITH  
skilled workforce**



**Invent it here  
AND  
make it here  
WITH  
skilled workforce  
AND  
production integrity**

