



The National Academies

STTR Workshop
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Overview

- **Contract Engineering R&D**
 - Diverse Technical Expertise
 - Extensive Facilities
- **Engineering Services**
- **50+ Years of Delivering Value to Our Clients**
- **Key Business Areas**
 - Fluid & Thermal Systems
 - Cryogenics
 - Biomedical & Human Systems
 - Power Systems
 - Sensors and Controls
 - Advanced Manufacturing



NICMOS Cryocooler



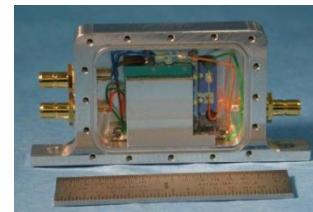
Hydrogen-Air Fuel Cell



3-D Image Reconstruction From MRI



Miniature Vacuum Pumps



Nano-g Sensor for Orbital Drag



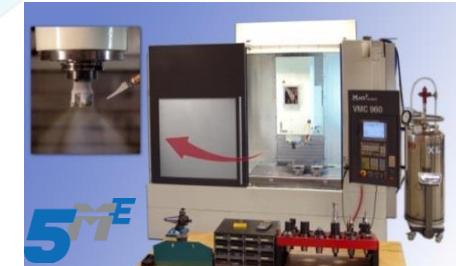
Cryogenic Machining

Spin-Offs, Licensing, and Products

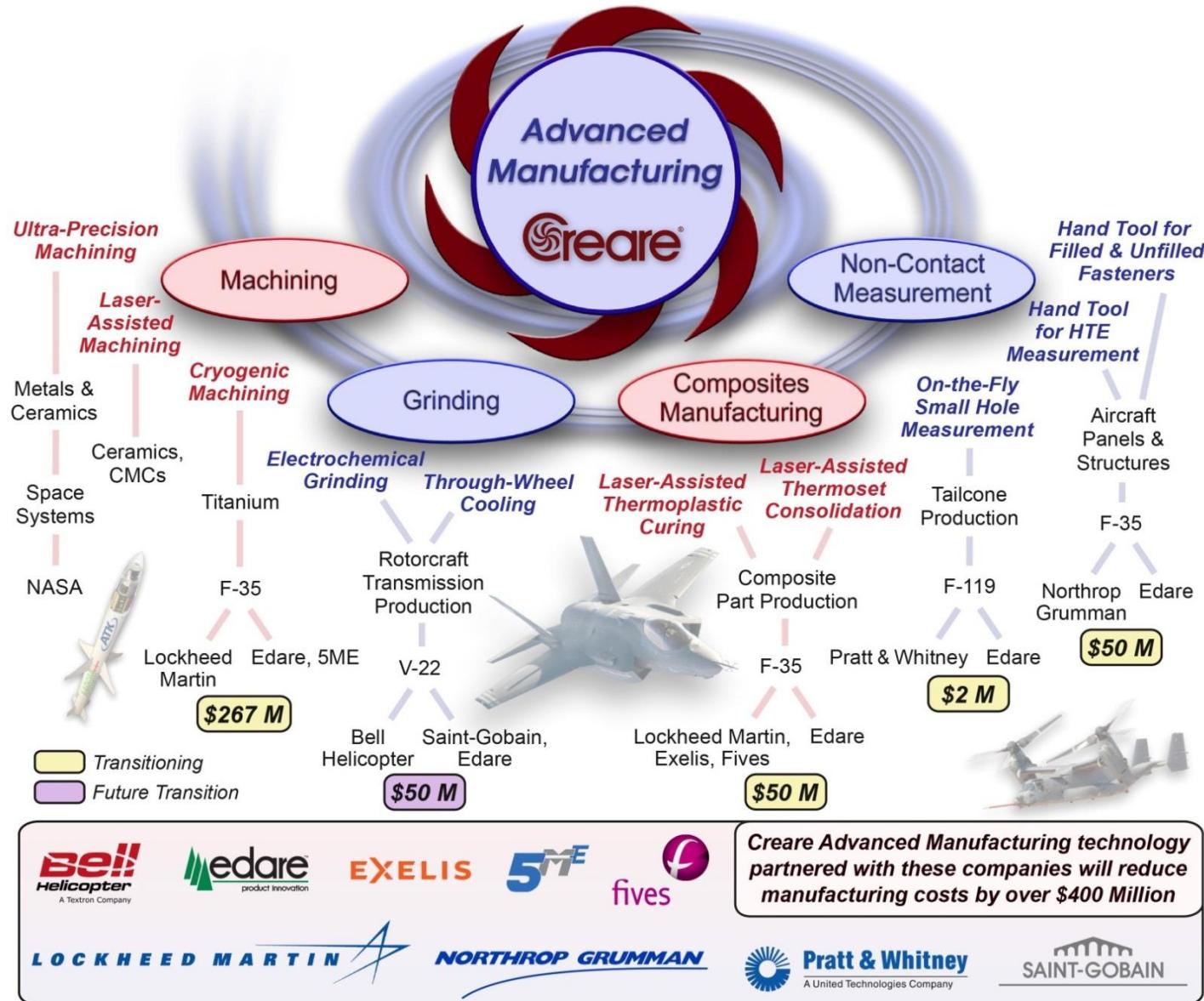


35% of Revenue
From SBIR Phase III
Commercialization

Total Employment: 2,400
Total Revenues: \$500M/yr



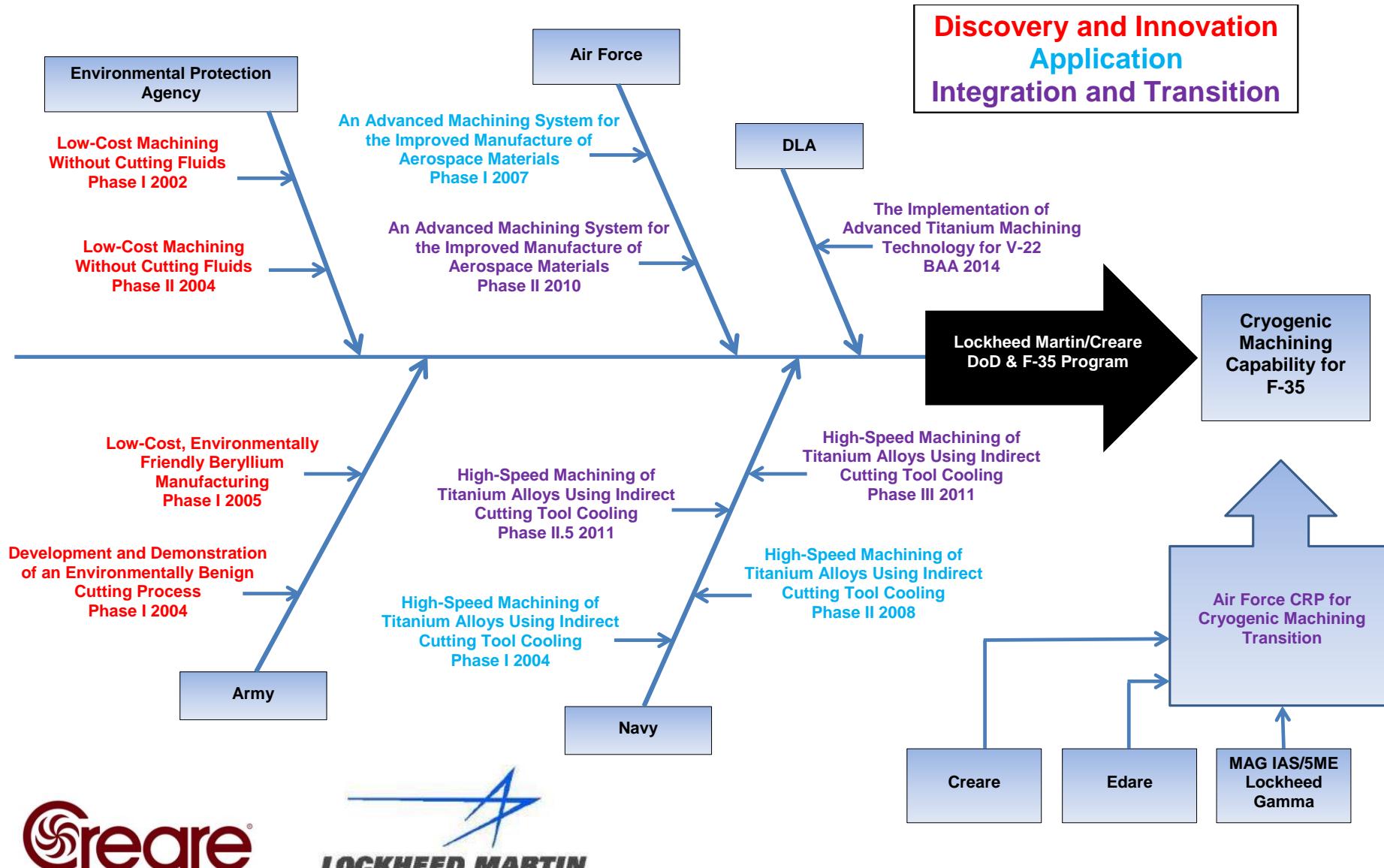
Transition Success



Transition Roadmap



Technology Development Path – An Example



STTR Status, Benefits, and Challenges

- **Renewed focus on technology transition**
- **Primes (and others) seeing IRAD budgets shrink**
- **SBIR/STTR left to fill the gap**
- **Benefits**
 - Access new “discoveries,” best and brightest
 - Successful partnerships
 - Develop new technologies to address Federal needs
- **Challenges**
 - “Mission mismatch”
 - Publication restrictions (DoD review, etc.)
 - ITAR, Disclosure of information restrictions, contract negotiations
 - Production of timely deliverables, adherence to milestones
 - FFRDC CRADA Terms (e.g., full payment up front)
 - FFRDC with University Affiliation – Negotiated CRADA Provisions must be signed off by University