



The National Academies

STTR Workshop
May 1, 2015

Jay Rozzi, Create

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



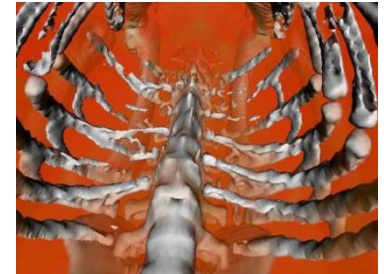
NICMOS Cryocooler



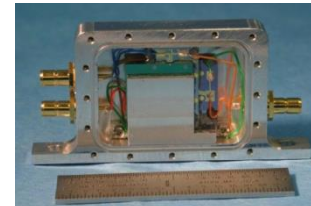
Hydrogen-Air Fuel Cell



Miniature Vacuum Pumps



3-D Image Reconstruction From MRI



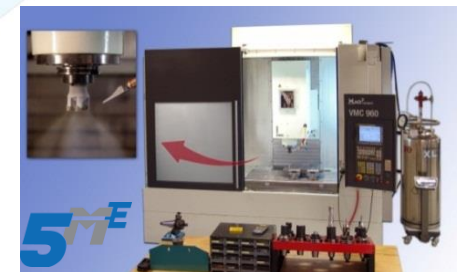
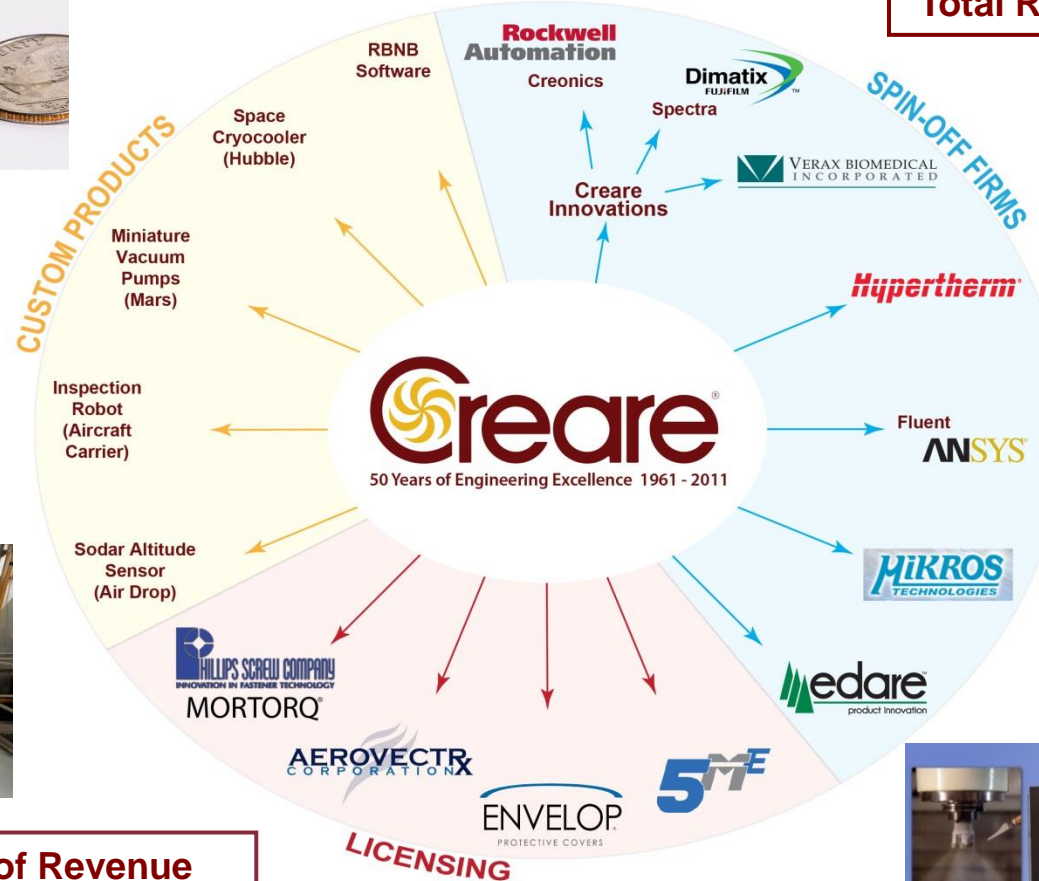
Nano-g Sensor for Orbital Drag



Cryogenic Machining

Spin-Offs, Licensing, and Products

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



35% of Revenue
From SBIR Phase III
Commercialization

Transition Success



EXELIS



fives



Creare Advanced Manufacturing technology partnered with these companies will reduce manufacturing costs by over \$400 Million

LOCKHEED MARTIN

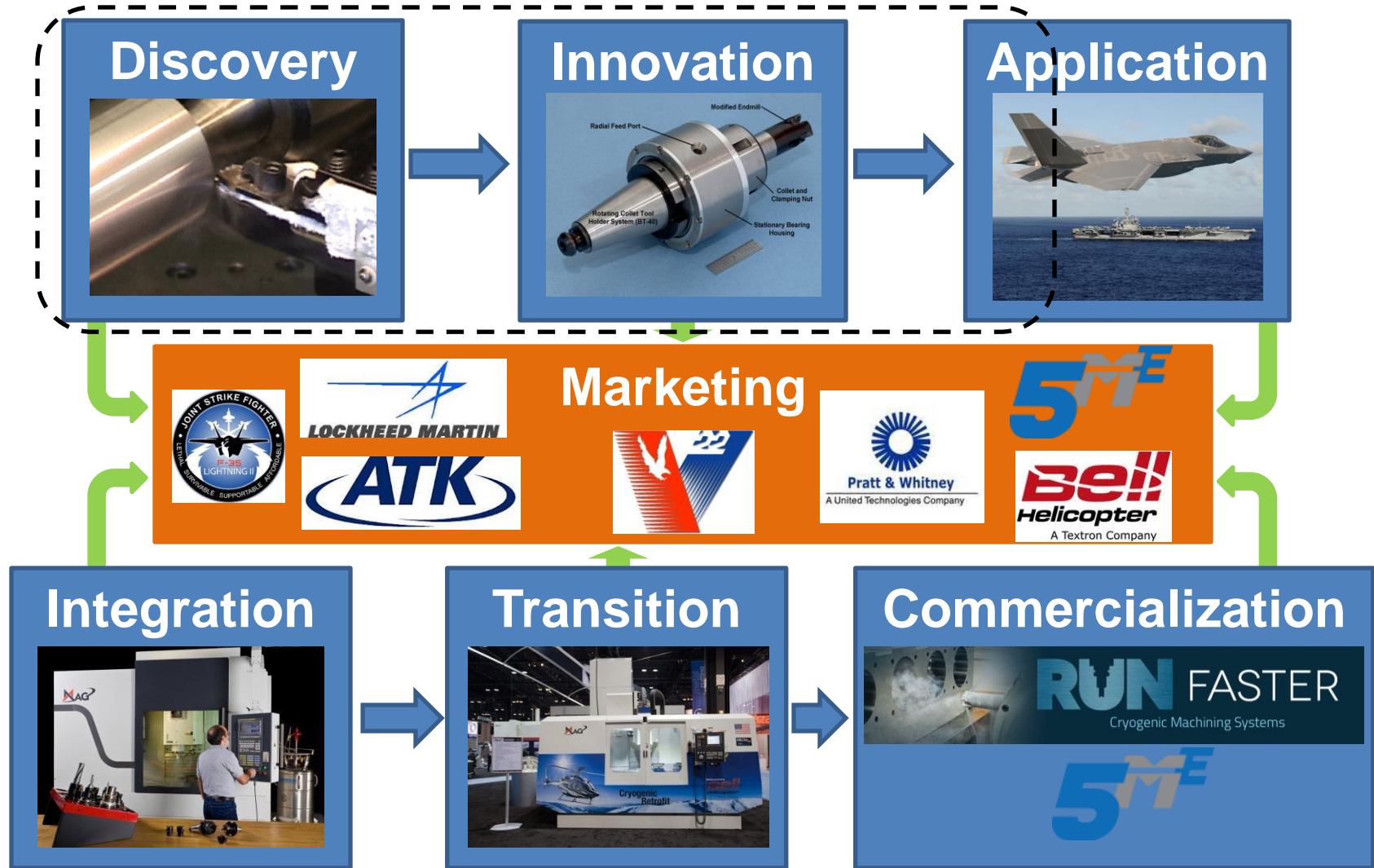
NORTHROP GRUMMAN



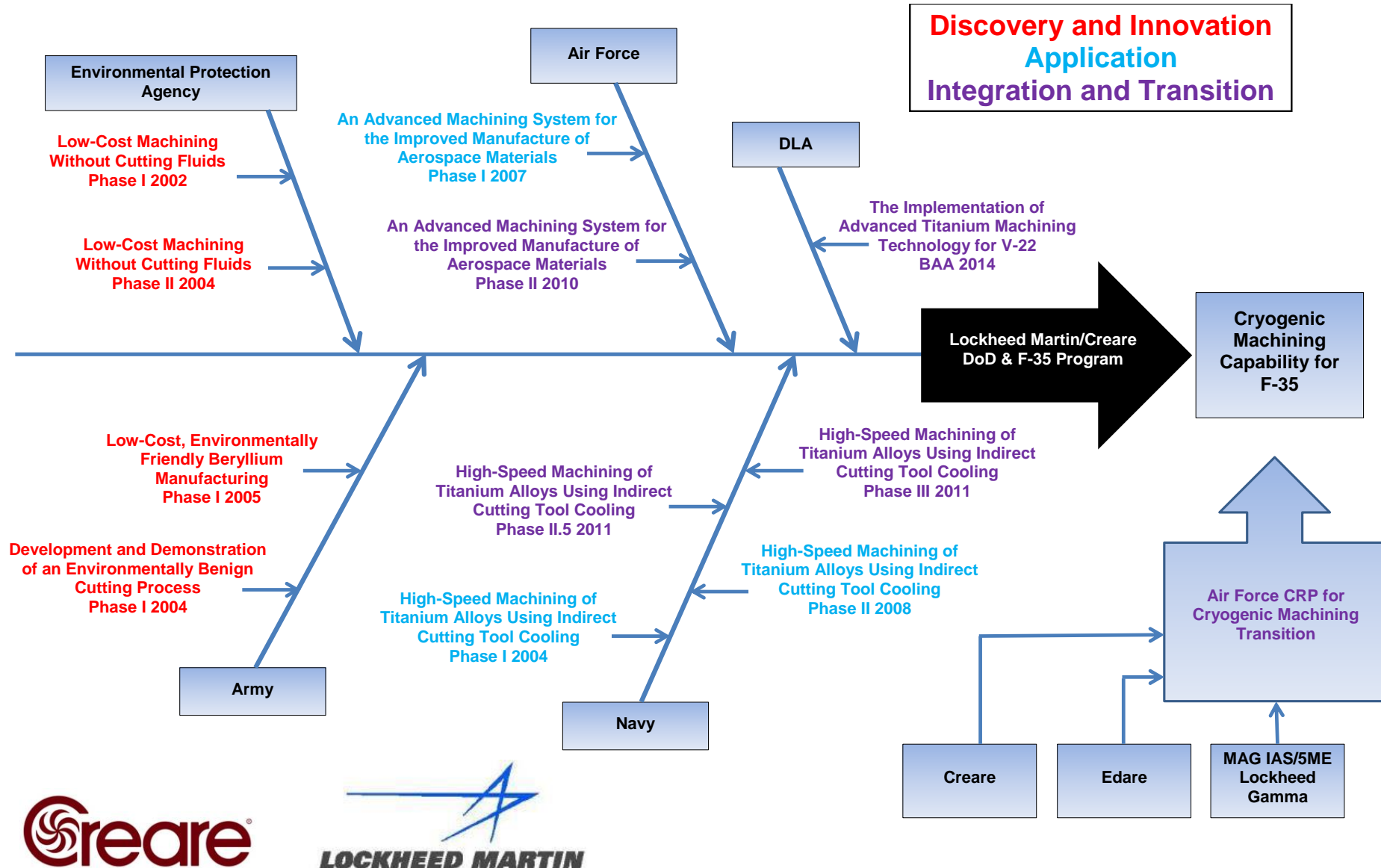
Pratt & Whitney
A United Technologies Company

SAINT-GOBAIN

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**