

### **ABOUT CREARE**



Innovative
Technology and
Product
Development



Founded in 1961



Independent



Industrial and Federal Client Base



Transition and Commercialization



#### **MISSION**

CREARE CREATES

VALUE FOR CLIENTS





#### **WHY CREARE**

#### **Technical Depth**

70+ engineers 55% PhD 30% MS 18 years average experience



#### Full-Scope Technology Development

Concepts, hardware, analysis, testing, and software



# Stability & Long-Term Focus

Development
efforts sustained across many
years, programs, and
funding cycles



# Broad Experience & Capabilities

Wide range of facilities to create anything from space flight hardware to consumer goods



#### Proof-of-Concept to Prototype to Product

Sister company (Edare) transitions prototypes into production



# Teaming for Successful Transition

Focused technology development driven by customer needs or requirements



#### **EXPERTISE**



















# **SBIR TECHNOLOGY TRANSITION**

3 SPIN-OFF COMPANIES 105 PATENTS

14 LICENSING AGREEMENTS

\$180M TRANSITION-RELATED CREARE REVENUE

1,250 JOBS CREATED \$5.3B REVENUE AT SPIN-OFFS



#### **SPIN-OFFS**





Contract R&D and Product Development 1961

#### **Creare Products**

Medical Instruments 1975



Biotechnology **1978** 



1969 Plasma Metal Cutting Torches



1976

Electromechanical Design Services

**Creare Innovations** 

**1986** Inkjet Printers



**2010**Specialized Production





### **DOD TECHNOLOGY TRANSITION – CREARE PRODUCT**



**Flight Deck Cranial for Carrier Crew** 





**Robotic Instrument for Catapult Inspection** 



**Arresting Cable Repair** 

**Spacecraft Electronics** 



# **DOD TECHNOLOGY TRANSITION – LICENSE**









MORTORQ® Threaded Fasteners

Cryogenic Machine Tools Anti-Corrosion Coverings



Fastener Measurement Tool









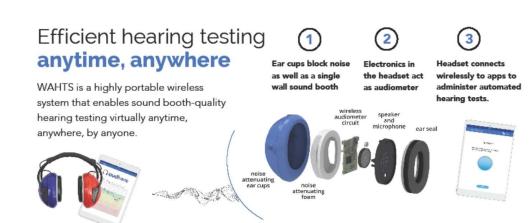




#### **DOD TECHNOLOGY TRANSITION – INDEPENDENT SPIN-OFF**









#### **HOW DOES DOD USE THE SBIR PROGRAM?**

- Primes and DOD work in sync to utilize SBIR to fill technology needs for critical programs
- For new programs, stakeholders identify technology needs early in the relevant stage (Development, Design, Production, Operation, Sustainment) and develop Technology Roadmaps
- For existing programs, DOD does the same thing (independently of the Primes)



#### **CURRENT METRICS TO MEASURE SUCCESS**

- SBIR and STTR "success" metrics focus on the Small Businesses,
   i.e., Supply Side focus
- Phase III (i.e., non-SBIR) Revenue from Programs of Record,
   Private Industry or Others
- Direct Revenue from Product Sales, License Agreements, etc.
- Indirect/Third-Party Revenue from:
  - Product sales by licensees (minus license fees)
  - Spin-off sales tied to the foundational SBIR technology



#### WHAT IS MISSING FROM DOD SBIR METRICS?

- Demand Side Focus: Primes/Government Customer
- Many (if not all) DOD SBIR projects are focused on increased efficiency and effectiveness of the warfighter taking the form of:
  - Reduced cost of production, operation, sustainment
  - Increased operational readiness
  - Man-hour reductions
- Develop metrics to capture "Demand Side" for transitioned technologies

