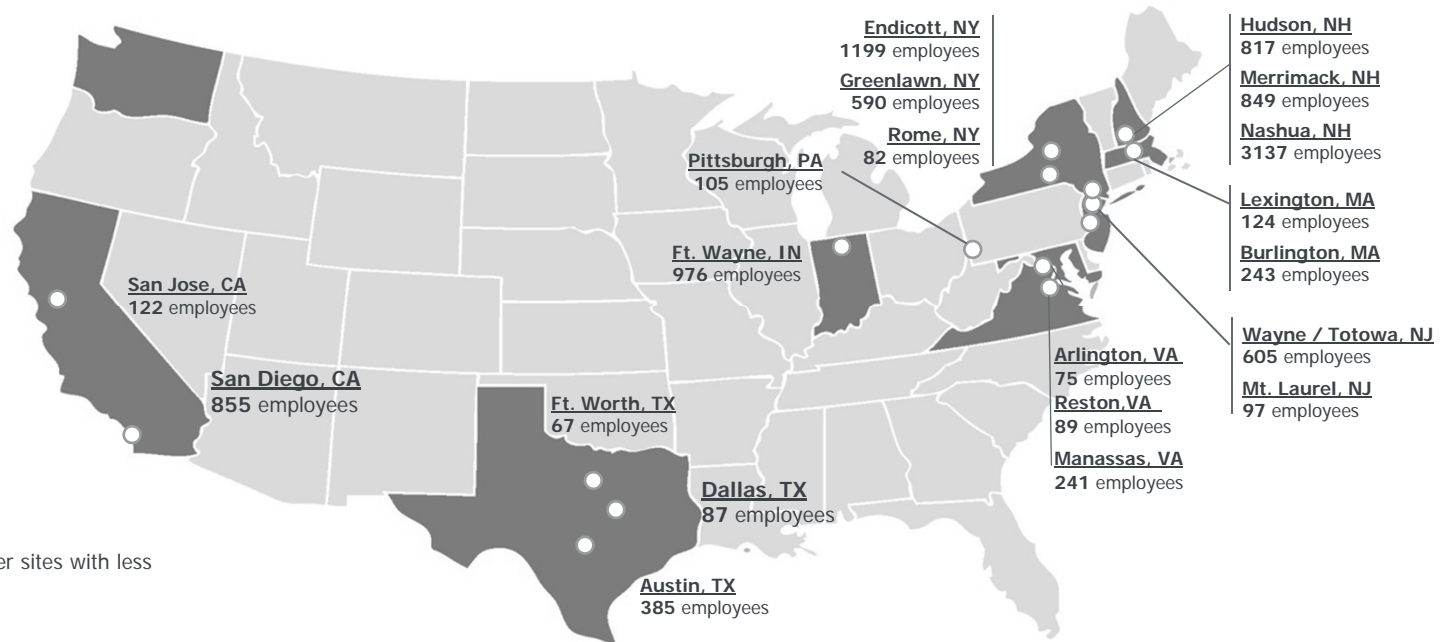
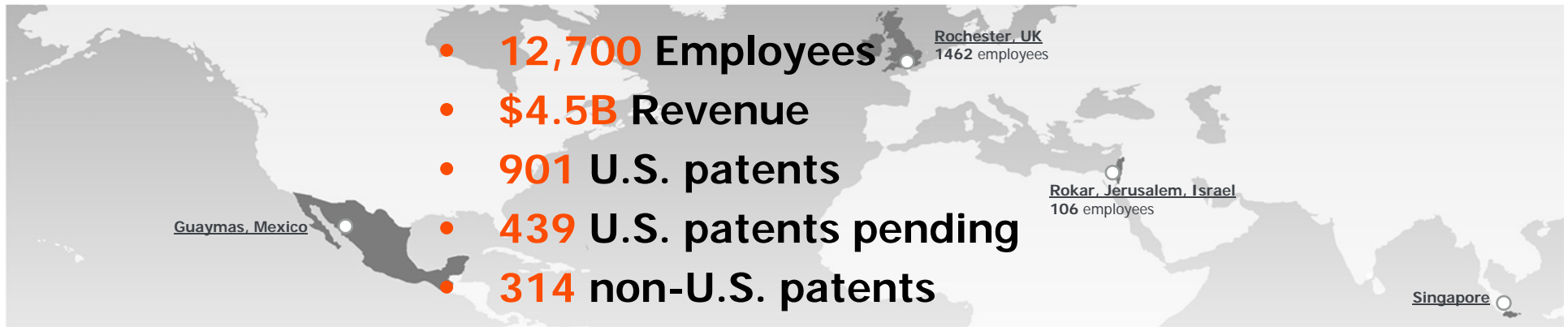


# Partnering with BAE Systems Electronic Systems for SBIR Success

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15 August 2017

# Electronic Systems Footprint



\* 388 people work at other sites with less than 50 employees

# Electronic Systems Business Areas

Controls &  
Avionics  
Solutions



Electronic Combat  
Solutions



Survivability,  
Targeting &  
Sensing Solutions



Technology  
Solutions



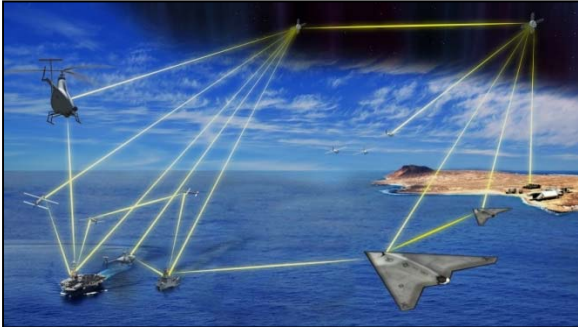
HybriDrive®  
Solutions



Intelligence, Surveillance &  
Reconnaissance Solutions

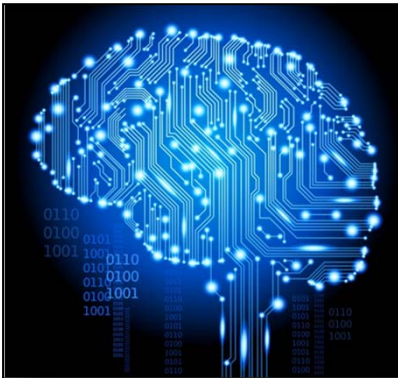


## ■ Example Technologies Of Interest



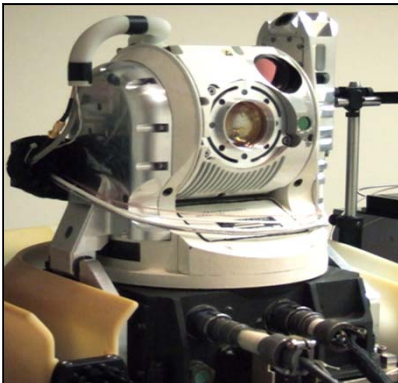
### **AUTONOMY**

- Integrated Mission Management
- Route Planning/Payload Tasking
- Multiship Cooperative Tactics
- Cognitive/Machine Learning
- Sensor Resource Management



### **COGNITIVE RF PROCESSING**

- Real-Time Sensing, Spectrum Mapping, Threat Behavior
- Operation Against Agile & Unknown Threats
- Real-Time Response Optimization For ES, EA, & EP
- Assured Operation In Jammed/Cluttered RF Environments

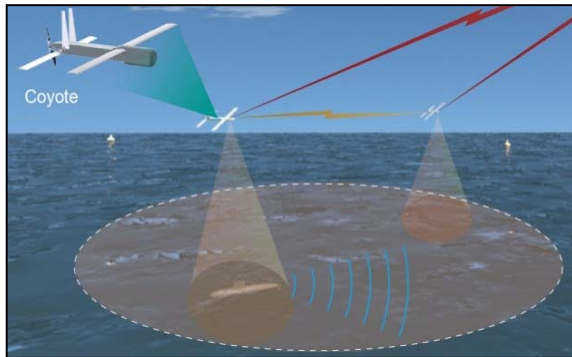


### **ADVANCED EO/IR TECHNOLOGIES**

- Agile Lasers w/Selectable Phase, Wavelength, Pulse Width, & PRF
- Ultra-Short Lasers For Counter-ISR, Countermeasures
- High-Speed Detectors Matched With Laser Technology

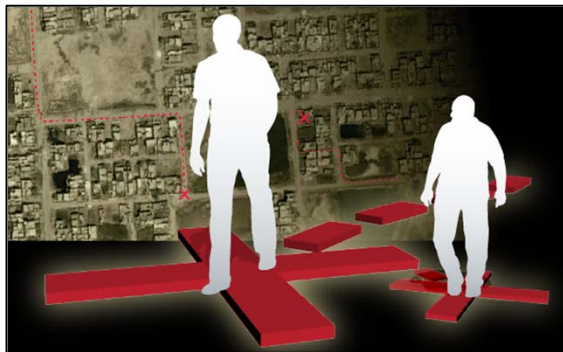


## ■ Example Technologies Of Interest Continued...



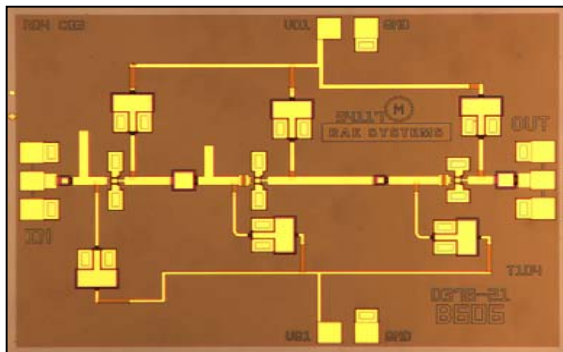
### MARITIME SENSING TECHNOLOGIES

- High Power Wideband Low Frequency Acoustic Transducers
- Underwater Acoustic LPI/LPD Communications
- Underwater Target Detection, Classification, Tracking
- Advanced ASW Technologies



### MULTI-INT ISR / PED

- For Tactical & Forensic Situational Awareness
- Tracking, Fusion, Sensor Resource Management
- Automated Threat Detection, ID, Activity Classification



### RF MICROELECTRONICS

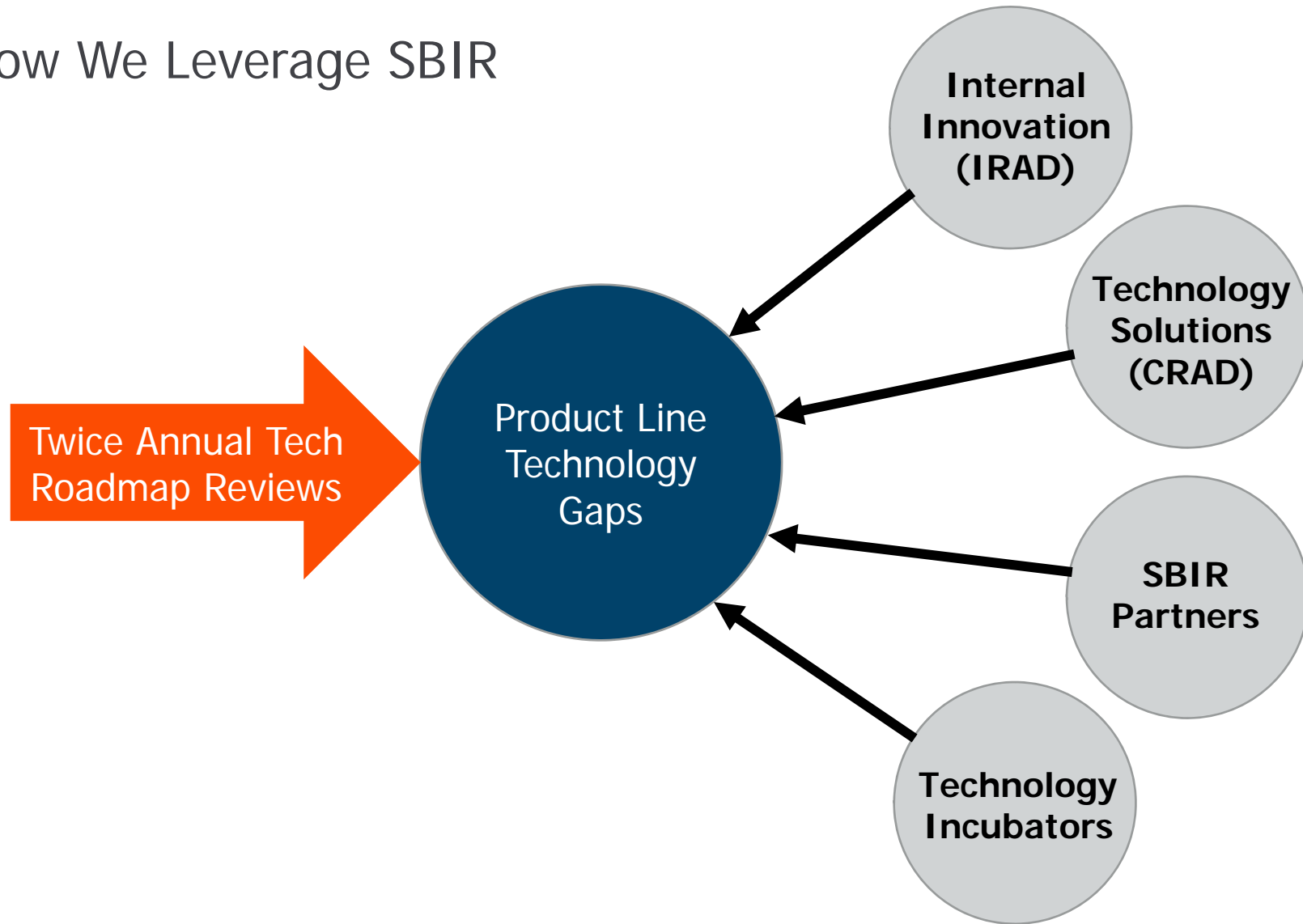
- Mixed-Signal System On A Chip (SoC)
- Advanced RF Filters (for tuners & phased arrays)
- Thermal Management
- Advanced Packaging (GaN on diamond)

## ■ Why Is SBIR Of Interest To BAE SYSTEMS?

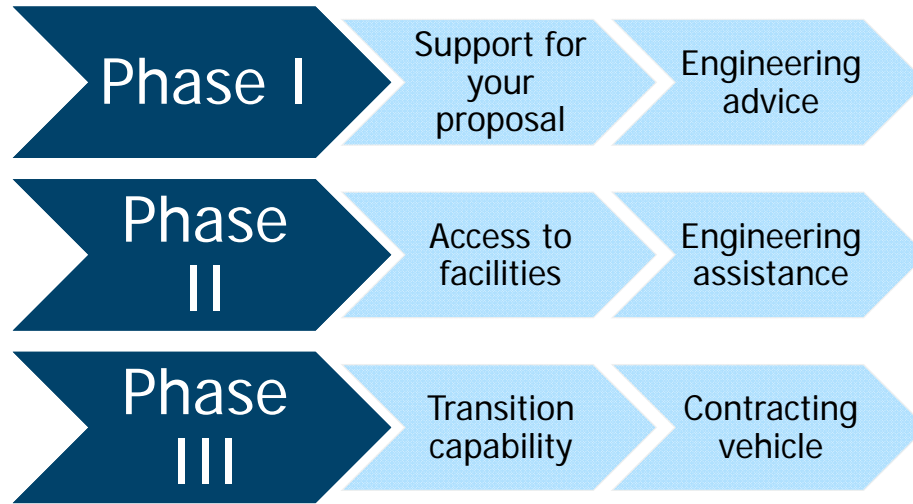
- **Where Does Engineering Innovation Really Happen?**
- **You Offer Affordability, Agility, Insights, & Relationships...**
- **We Can't Do It All Ourselves... What Is Our Core? What Is Yours?**
- **Increase Our Virtual R&D Capabilities...**
- **Because We Know It Really Works...**

Why Should You, As A SBIR Innovator, Choose BAE Systems?

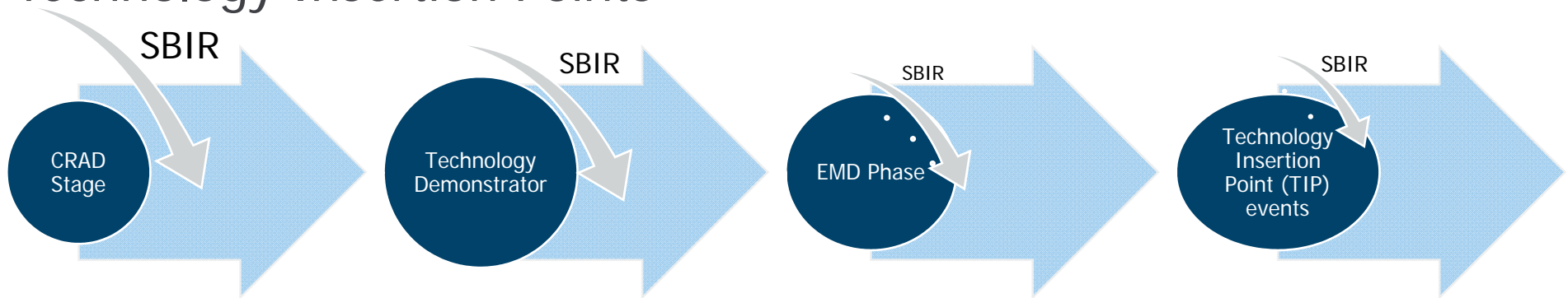
# How We Leverage SBIR



## ■ How We Can Help You?



## Technology Insertion Points



- Large programs have long lifecycles...
- It is easier to insert SBIR technology prior to production...



## ■ Agile Partnership

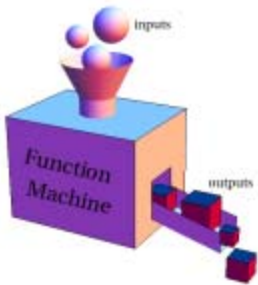
- Advanced Technology Support Program IV (ATSP4) is an IDIQ contract to rapidly deliver technology to DoD.
- Open contracting vehicle, specifically supports manufacturing, allows us to respond quickly to sponsor needs.
- Administered through DMEA but passes through money from any agency.



## ■ How You Can Partner With Us



- Save us money.
- Help us better serve our customer.
- Better, cheaper, faster, smarter, less maintenance.



- Have a plan, but be flexible.
- Know where your product fits into our products/platforms.
- Realize it may cost more than you think it will.



- Bring your sponsor to the table.
- Not much we can do without a contract modification.
- Partnership: Government, Industry, and Small Business.

## ■ How to Contact Us

- **Contact the Innovation Center:**  
[sbir.es@baesystems.com](mailto:sbir.es@baesystems.com)
- **Contact the Small Business Liaison Office:**  
[sblo.es@baesystems.com](mailto:sblo.es@baesystems.com)