



Scientific Systems Company, Inc. (SSCI) pioneers products and technologies that provide the intelligence for unmanned ground, air and maritime vehicles to autonomously and collaboratively accomplish missions in difficult environments. Our technologies are currently at work in the Tomahawk Cruise Missile Program and numerous other U.S. Department of Defense systems.

SSCI Lead: **Dr. Andrew Browning**

PhD in Cognitive and Neural Systems from Boston University

SSCI Team:

Dr. Andrew Bennett

Dr. Robert Smith

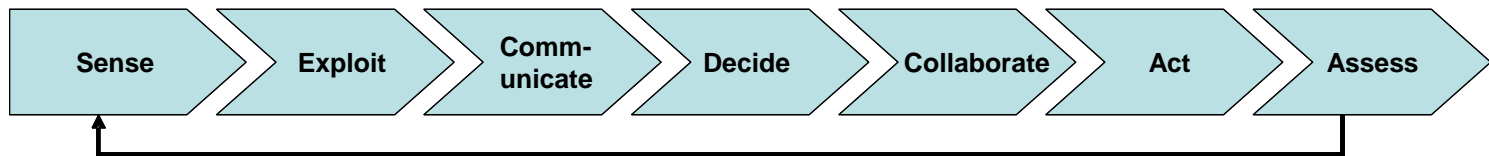
Dr. Tony Falcone

Dr. Rajesh Krishnan

We are actively seeking partners.

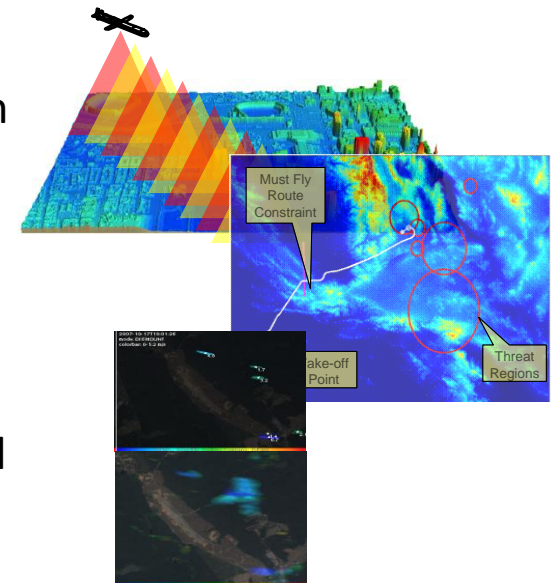


SSCI focuses on the design, development, and transition – in partnership with academia and industry – of integrated information and decision solutions to equip Unmanned Vehicles with cognitive, cooperative, and autonomous capabilities spanning the entire Knowledge Chain:

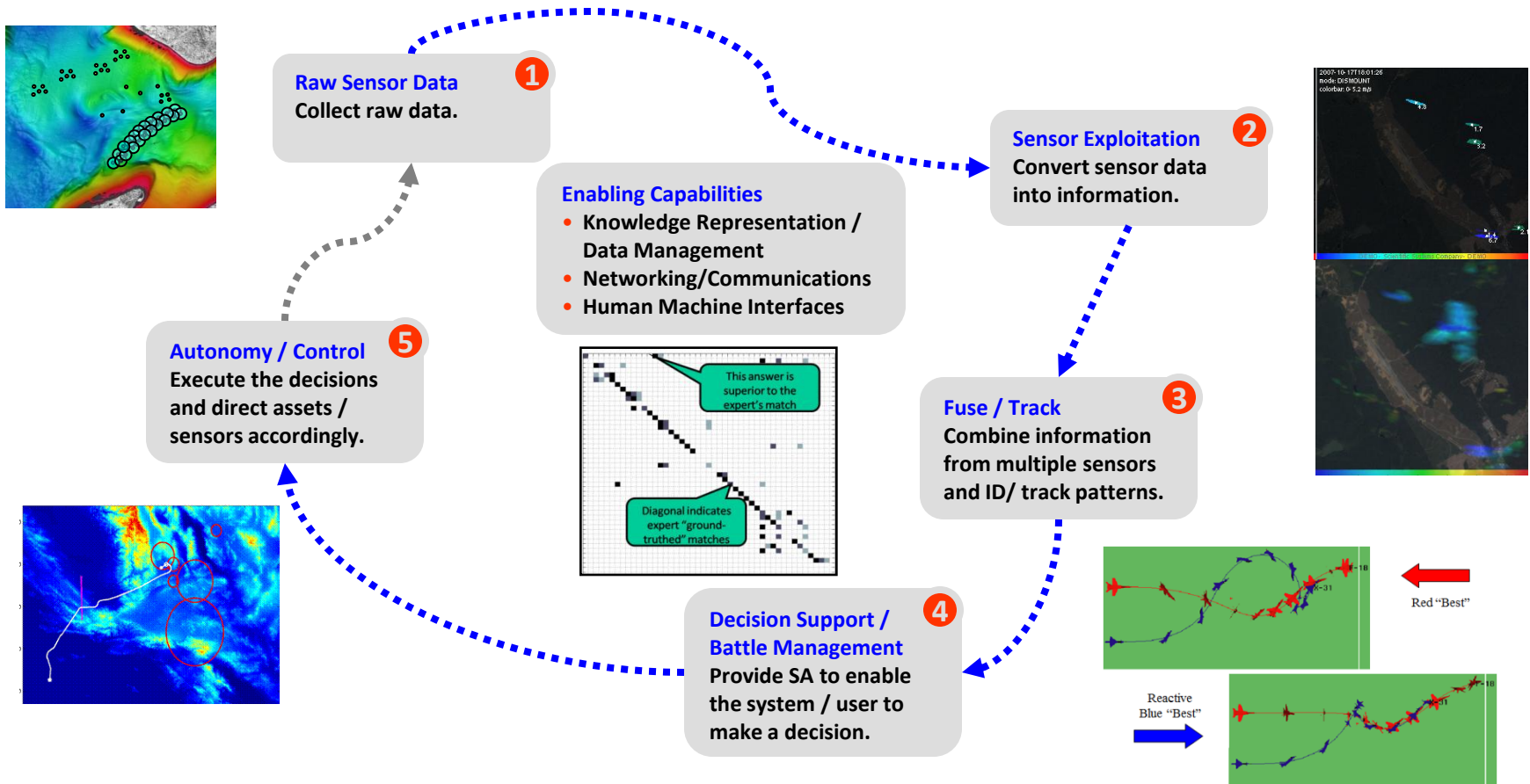


Success Highlights:

- **ImageNav** provides robust, low-cost navigation and precision targeting for air vehicles in GPS-denied operations for Tomahawk missile program
- **AMARS** (Air Mobility Autonomous Routing System) uses Genetic Algorithms to identify optimal routes based on threats, navigation, and aircraft constraints
- **Collaborative Autonomy** software for network of Unmanned Vehicles for DARPA in partnership with Northrop Grumman



SSCI Net-Centric Processing Chain





SSCI has demonstrable expertise in:

Image and Video Processing

Machine Learning

Decision Support Solutions

Modern Control Theory

System Identification

Dynamic Programming

Guidance Navigation and Control

Sensor Exploitation

Intelligent Autonomy

Statistical Pattern Recognition

Generalized Bayesian Inference

Genetic Algorithms

Neural Networks & Modeling

Sensor Fusion

Networking

Bifurcation And Chaos

Non-linear Filtering

Optimization

We are looking for partners, particularly in the cognitive neuroscience and sensemaking domains, to facilitate a comprehensive brain based approach to high level data processing, exploitation, and understanding.



**SCIENTIFIC
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