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Information Dominance Science and Technology Cross Functional Team & Technology Objectives

NDIA C4I Industry Day 29 October 2014

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"...it is necessary to set forth our priorities as defined by technologic development and investment so that all Information Dominance stakeholders know where we are headed...."

2014 U.S. Navy Information Dominance Science and Technology Objectives

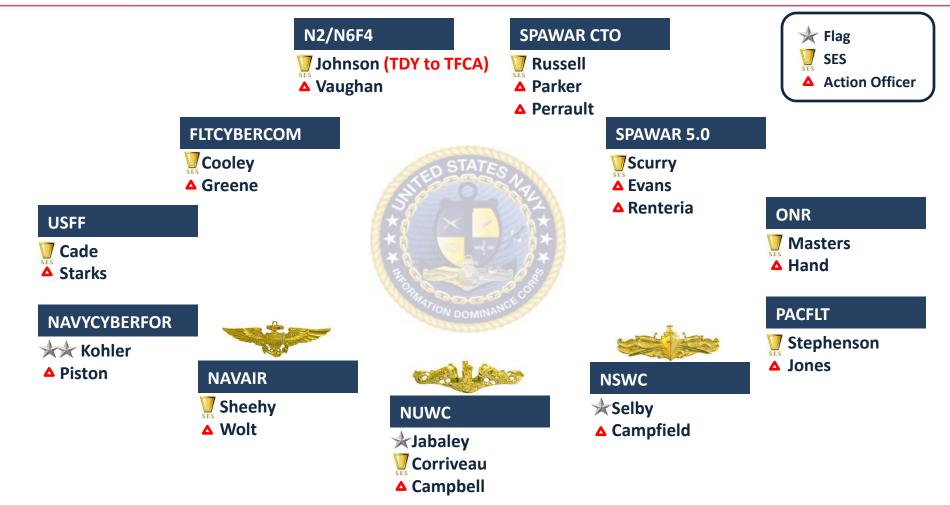




- ▼ Information Dominance (ID) S&T Cross Functional Team (CFT)
- ▼ ID S&T CFT First Objective
- ▼ U.S. Navy ID S&T Objectives (STOs) Intent and Vision
- ▼ Technology Focus Areas
- ▼ ID Core Capabilities and ID STOs Alignment



ID S&T Cross Functional Team (as of Nov 2014)



A Partnership of Key ID Stakeholders

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Develop U.S. Navy ID S&T Objectives (STOs) at Enterprise Level



Provide a basis for harmonizing ID S&T Objectives with the other Navy Enterprises to avoid duplicative development

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SPAWAR DOMINANCE U.S. Navy ID S&T Objectives (STOs)

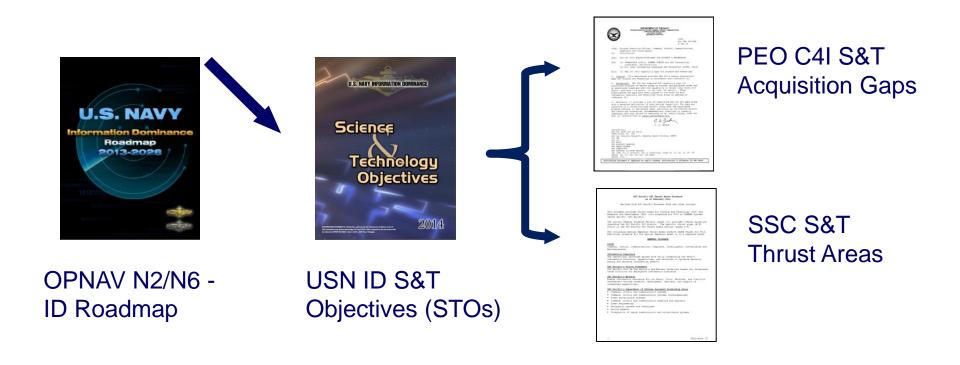
▼ INTENT

This document is intended to articulate the desired operational capabilities and related technologies necessary to fully realize Information Dominance warfighting effects. This document is also intended to be used as a vehicle for engaging the Naval Research Enterprise (NRE), industry and academia in order to align efforts and optimize information dominance-related technology investments.

▼ VISION

A U.S. Navy fully optimized for Information-Age operations; a force capable of technologic agility and adaptation that delivers capability apace or ahead of any adversary.

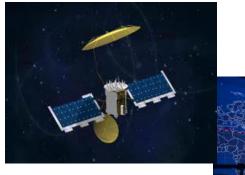
Seallon Dominance Information Dominance (ID) S&T Products -SPAWAR **Gap Hierarchy**



Influence S&T investments within the Navy and provide a basis for tracking progress towards closing gaps

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Sending a demand signal to Industry to uncover available technology, track promising developments, and influence investment

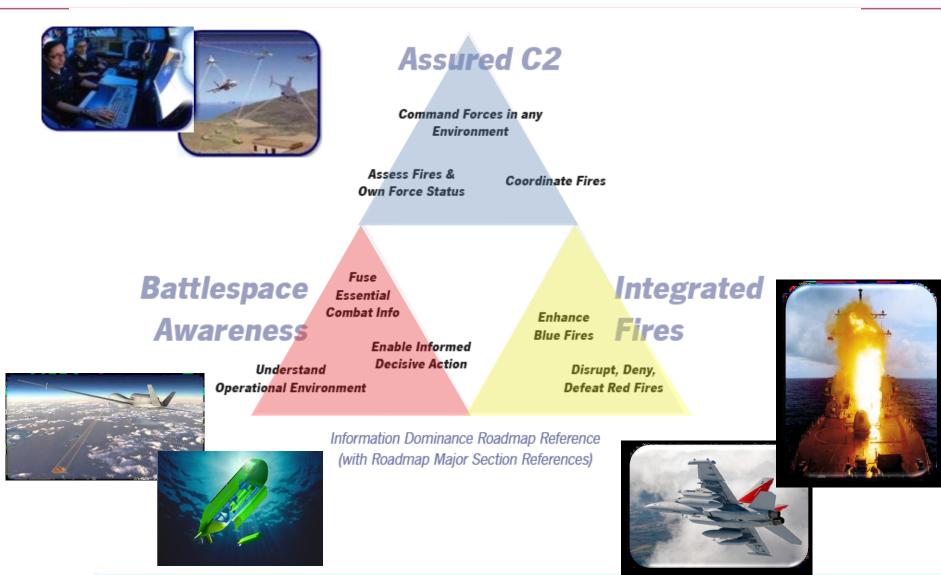
11 ID Technology Focus Areas

- Information Transport and Infrastructure ITI
- Information Security and Assurance ISA
- Advanced Sensing AVS
- Data Integration and Decision Support DDS
- Enhanced Targeting and Fire Control ETF
- Electromagnetic Spectrum Operations ESO
- Non-Kinetic Fires NKO
- Positioning, Navigation and Timing PNT
- Autonomy ATY
- Human-Systems Interface HSI
- Environmental Battlespace Awareness- EBA



Targeting ID "hard problems" via Technology; Each Technology Focus Area contain 3 – 5 STOs for a total of 47

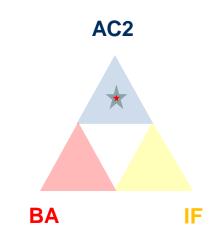
ID Roadmap Referenced to Core Capabilities



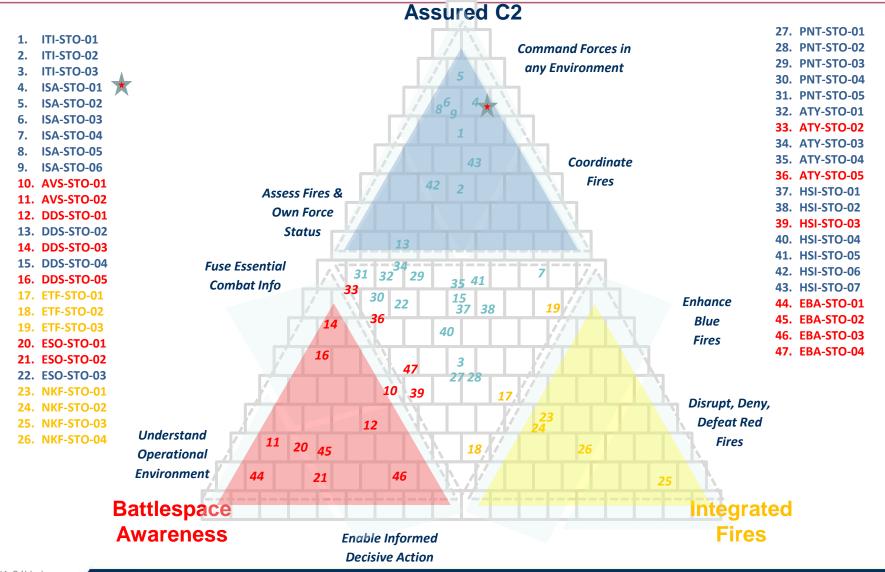
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- Information Transport and Infrastructure ITI
- Information Security and Assurance ISA ★
 - ID-ISA-STO-01: Assured Access and Transparent Identification and Authentication across the Network
- Advanced Sensing AVS
- Data Integration and Decision Support DDS
- Enhanced Targeting and Fire Control ETF
- Electromagnetic Spectrum Operations ESO
- Non-Kinetic Fires NKO
- Positioning, Navigation and Timing PNT
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- Environmental Battlespace Awareness- EBA



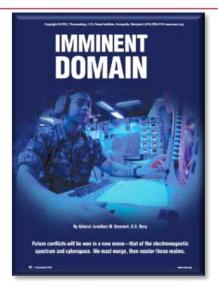
ID Core Capabilities and ID STOs Alignment



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U.S. Navy - Agile and Dominant in the Information Age



NDIA C4I Indus

29 Oct 2014

"Future conflicts will be won in a new arena—that of the electromagnetic spectrum and cyberspace. We must merge, then master those realms."

Admiral Jonathan W. Greenert, U.S. Navy

We in the Information Dominance stakeholder community will work together to operationalize these objectives and grow U.S. Navy advantage in every warfighting and operational domain.

> 2014 U.S. Navy Information Dominance Science and Technology Objectives

Defense Innovation Marketplace: http://www.defenseinnovationmarketplace.mil/industryresources.html

