

## What is WSTIAC?

- An OSD (Director, Defense Research and Engineering (DDR&E) Program Provided by the Defense Technical Information Center (DTIC)
- Two-Fold Mission for DoD Customers
  - Provide Scientific and Technical Information (i.e. Relevant Information/Data)
  - Provide Technical Services and Solutions (i.e. Expertise/Contracting Vehicle for Solutions)
- Alion Science and Technology Corporation Administers WSTIAC



## Who are the WSTIAC Customers?

- Requirements Developers/Combatant Organizations/Warfighters
- Materiel Developers (PMs)/Acquisition Community/Contracting Officers and Their Representatives
- Engineers and Scientists

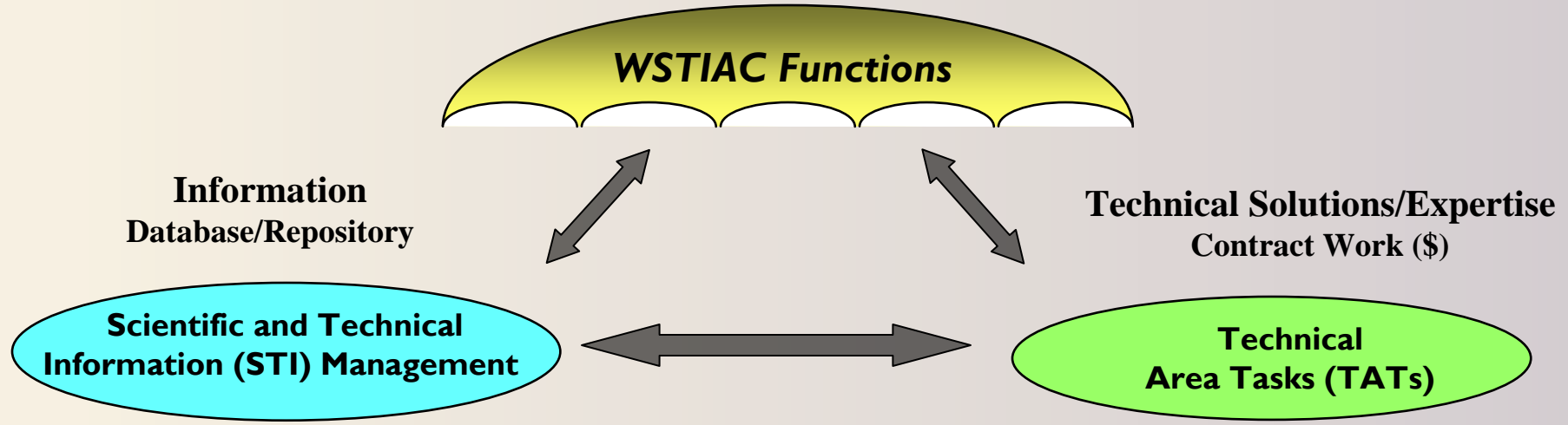
## What is the Type of Work Performed?

- Requirements Analysis
- Assessment of Weapon Systems Technologies and Capabilities
- Readiness Analysis
- Independent Reviews
- Engineering and Scientific Expertise



**With the Purpose of:**

- Supporting Weapons-System Development And Enhancement
- Enhancing Lethality, Accuracy & Affordability
- Providing Subject Matter Expertise For Consultation And Analysis To Solve Problems






- Information Acquisition, Access, & Collection
- Information Processing & Management
- Information Analysis
- Information Dissemination
  - Website
  - Specialized Training
  - Quarterly Newsletter

- Extensive Expertise From Alion/Subs
- Sole Source Tasks Contract Pre-competed
- Incremental Funding Via Military Inter-departmental Procurement Request (MIPR)
- Up To 3 Years Period Of Performance
- Quick Turn-On Vice Traditional Competed Contracts

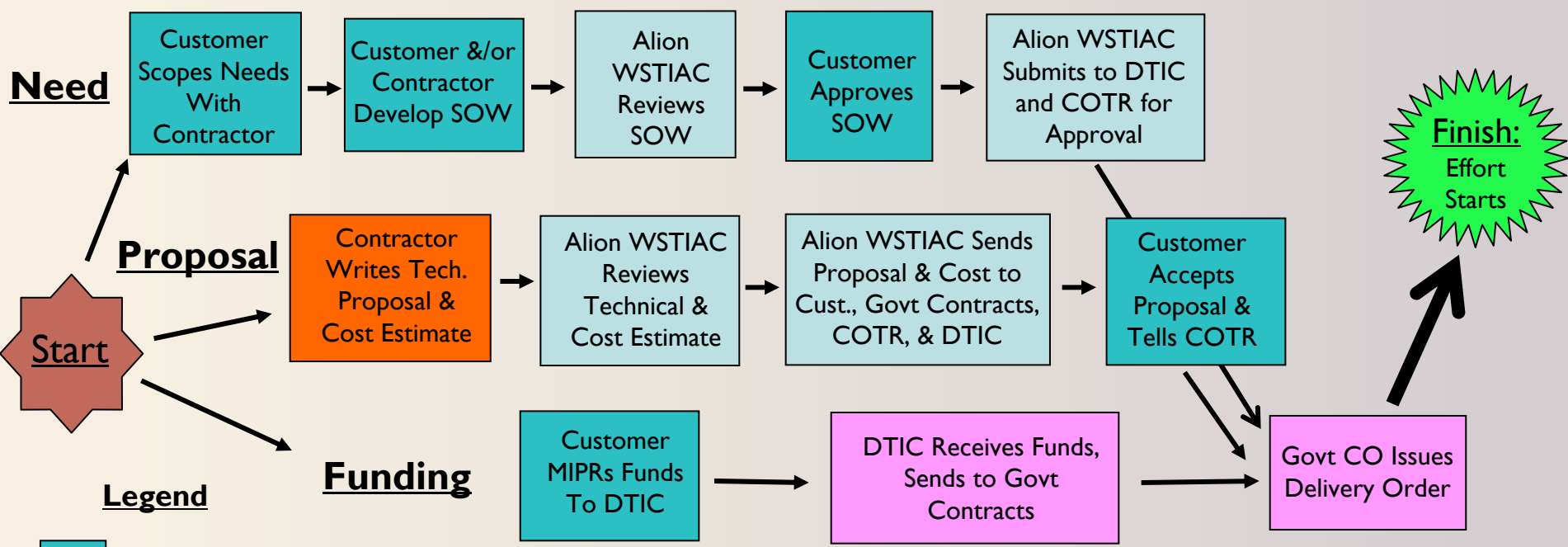
## What are the Primary Contract Aspects?

- Research and Development
- Purpose is to Advance Scientific and Technical Knowledge
- Focus is on Product, Not Manpower; Completion Versus Term
- Relies on Technical Experts' Input
- Item of Interest: Pass Through/Work Share With Subs
- Areas Outside of Scope
  - *Advisory and Assistance Services*
  - *Services/Support*
  - *Acting as a Government Representative*
  - *Evaluating/Advising on a Government Source Selection*
  - *Data Not Value Added to DTIC/IAC Library*

 = Go  
 = Caution  
 = Stop; Can't Do

**WSTIAC Is For  
Technically Oriented,  
R&D Efforts;  
Not Service Support!**

## Technical Area Task (TAT) General Process Map



**Legend**

- = Customer
- = Alion WSTIAC
- = Alion or a Sub Under WSTIAC
- = Government

*Need, Proposal, and Funding Worked Concurrently...*

## What Types of Systems Have Been Worked Under WSTIAC?

- Aircraft
- Ships
- Satellites
- Guns
- Munitions
- Missiles
- Rockets
- Bombs
- Submunitions
- Projectiles
- Mines/Countermines
- Munitions Dispensing Canisters
- Lasers
- Reconnaissance Systems
- Command Guidance Com Links
- Undersea Weapons



## Information

### (Scientific and Technical Information or STIs)

- WSTIAC Library/Database of Scientific and Technical Literature (up to & Including Secret)
- Subject Matter Expert Database
  - Contact information for >400 experts
  - Broad Areas of Expertise
- Website: <http://wstiac.alionscience.com>
- Training Courses
  - Smart/Precision Weapons
  - Introduction to Sensors/Seekers for Smart Munitions/Weapons
  - Directed Energy Weapons
  - Weapon engineering
  - System Engineering for Product Life Cycle Management
  - IEDs and RPGs

## Contract Work

### (Technical Area Tasks or TATs)

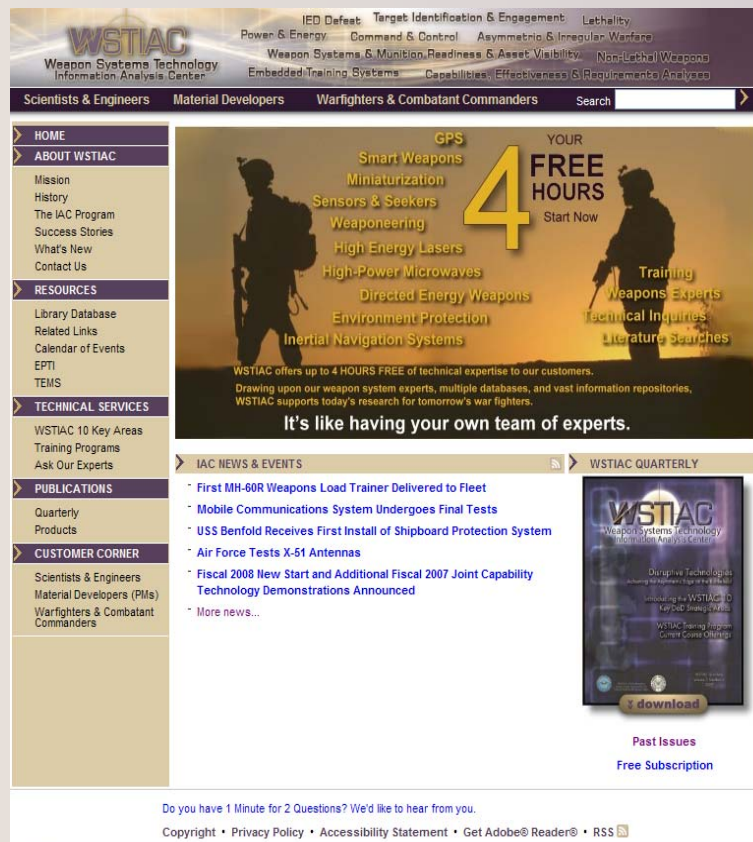
- Separately Funded Work Efforts
- >\$189M since 1999
- Alion Science and Technology With Its Teammates Provide:
  - Requirements Analyses
  - Materiel Development Expertise
  - Business Management Expertise
  - Engineering
  - Science
- Customer Profile; 55 Active TATs
  - Navy 25%
  - Army 43%
  - Marine 1%
  - Air Force 30%
  - DoD 2%



## WSTIAC Website <http://wstiac.alionscience.com>

### Access to Free Services

- WSTIAC Library/Database of Scientific and Technical Literature >130,000 records
- Subject Matter Expert Access
- Calendar of Industry Events
- Related Website Links
- WSTIAC Quarterly PDF download
- Mail list Registration
- Training Registration



The screenshot shows the WSTIAC website homepage. At the top, there is a navigation bar with the WSTIAC logo and a search bar. Below the navigation bar, there is a main content area with a large graphic featuring silhouettes of soldiers and the text "4 YOUR FREE HOURS Start Now". The graphic lists various services: GPS Smart Weapons, Miniaturization, Sensors & Seekers, Weaponizing, High Energy Lasers, High-Power Microwaves, Directed Energy Weapons, Environment Protection, Inertial Navigation Systems, Training Weapons Experts, Technical Inquiries, and Literature Searches. Below the graphic, there is a section for "IAC NEWS & EVENTS" with a list of recent news items, including "First MH-60R Weapons Load Trainer Delivered to Fleet", "Mobile Communications System Undergoes Final Tests", "USS Benfold Receives First Install of Shipboard Protection System", and "Air Force Tests X-51 Antennas". There is also a "WSTIAC QUARTERLY" section with a "download" button and "Past Issues Free Subscription" link. At the bottom, there is a footer with contact information and a "Do you have 1 Minute for 2 Questions? We'd like to hear from you." link.



## WSTIAC Quarterly and eNEWS

- Quarterly delivered to over 18,000 WS Professionals
  - Relevant, authoritative STI delivered to over 18,000 professionals
- WSTIAC eNews
  - Distribution 6,000
  - Delivers information real-time to user's desktop



## WSTIAC Training Program

- Provides a firm understanding of information related to conventional and directed energy weapons, their development, and production
- Open and Onsite venues
- Expert Instructors
- Most of the weapon systems training is performed on-site and is tailored to meet targeted needs

### Training Courses

- Systems Engineering
- Directed Energy Weapons
- Smart/Precision Weapons
- Sensors/Seekers
- Weaponneering
- IEDs
- Customized Topics



# “WSTIAC 12”

## Key Areas That WSTIAC Provides Capabilities...

- Power and Energy
- Lethality
- Weapon System Command and Control/Situational Awareness
- Non-Lethal
- Weapon Systems and Munition Readiness and Asset Visibility
- Surveillance

- Target Identification and Engagement
- Asymmetric and Irregular Warfare Weapon Systems
- IED Defeat
- Embedded Training Systems
- Capabilities, Effectiveness, and Requirements Analyses
- Cyber Warfare

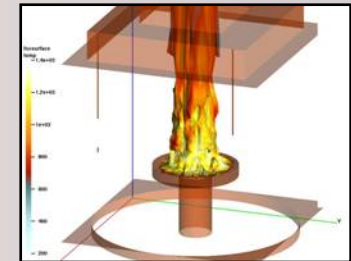
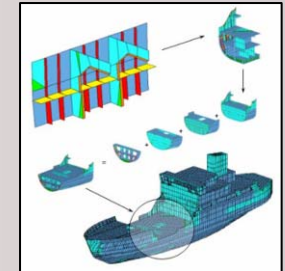
**WSTIAC 12: Critical Focus Areas Across All Services Related to Weapon Systems**



# Alion Science and Technology: WSTIAC Administrator

## Core Business Areas

- Naval Architecture & Marine Engineering
- Defense Operations
- Systems Engineering
- Modeling & Simulation
- Information Management & Technology
- Chemical, Biological, Nuclear & Environmental Sciences
- Wireless Spectrum Engineering
- Industrial Technology



## Why Use WSTIAC for Information or Contract Work?

- Extensive Data Base/Repository
- Focus is on Technically Oriented R&D Efforts
- Quick Contractual Turnaround
- Extensive Alion Experience and Expertise in Materiel Acquisition, Engineering, and Technology

***Through WSTIAC, Can Get You The Expertise and Capabilities You Need Quickly and Effectively For Your Weapon System!***

