



Defense Technical Information Center (DTIC)



“Economies of skill” as well as “economies of scale”

Toward an STI Network

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Raison d'être



- ➊ Provide S&T Results & POCs to Researchers
- ➋ Provide S&T Management Support
- ➌ Assist in Collaboration



RDT&E as a System

The output of scientific work is information



PROCESSING SYSTEM

Science is a collective endeavor

RECEIVING SYSTEM

Input

- People
- Ideas
- Equipment
- Funds
- Information
- Specific Requests

R&D Organization

Activities

- Research
- Development
- Testing

Output

- Patents
- Products
- Processes

- Marketing
- Business Planning
- Engineering
- Operations

PURPOSE: Researcher Efficiency

In-Process Measurement & Feedback

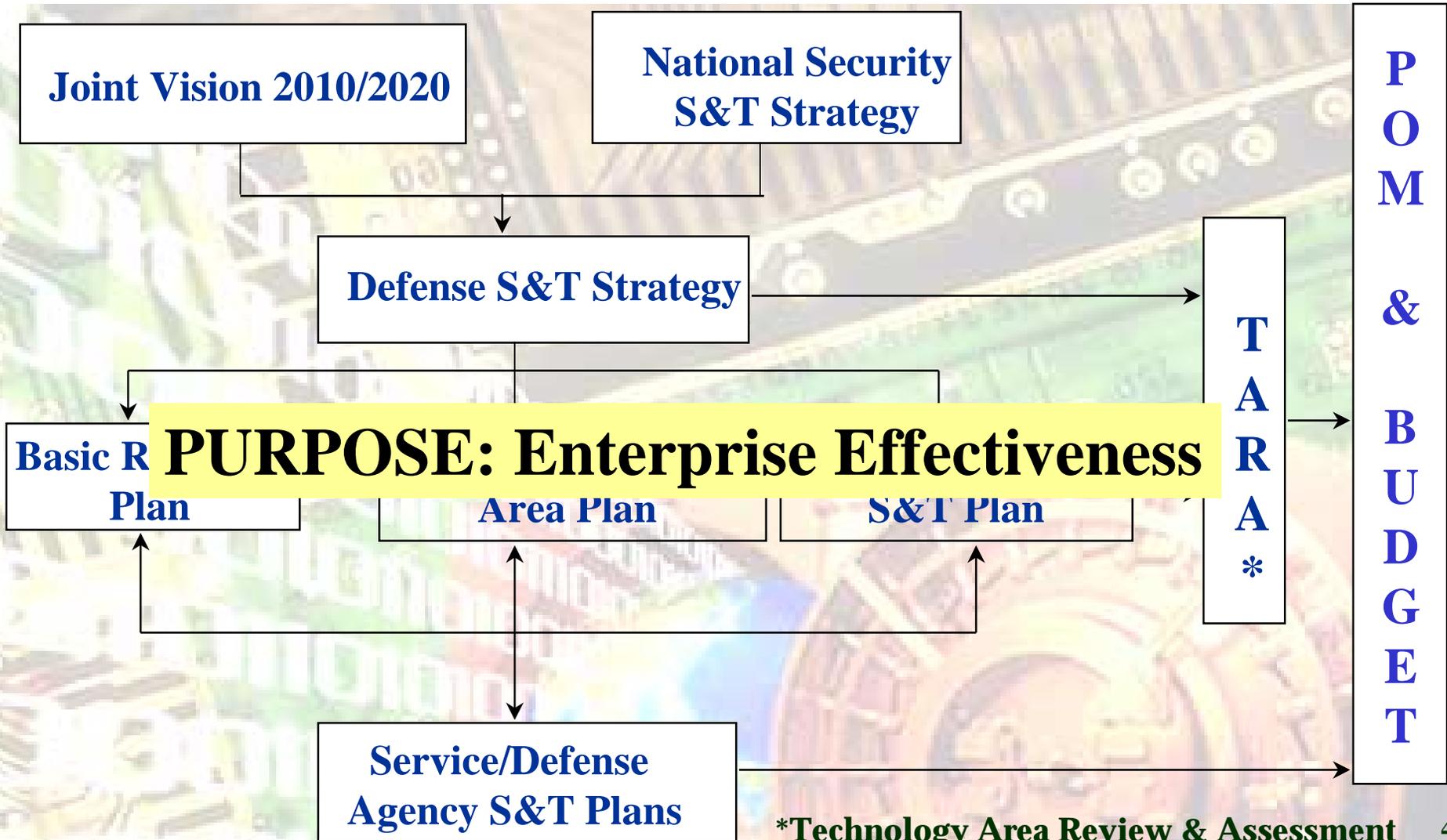
Output Measurement & Feedback

Outcome Measurement & Feedback

- Time
- Reduced Capability
- Cost Reduction
- Sales Improvements
- Capital Avoidance

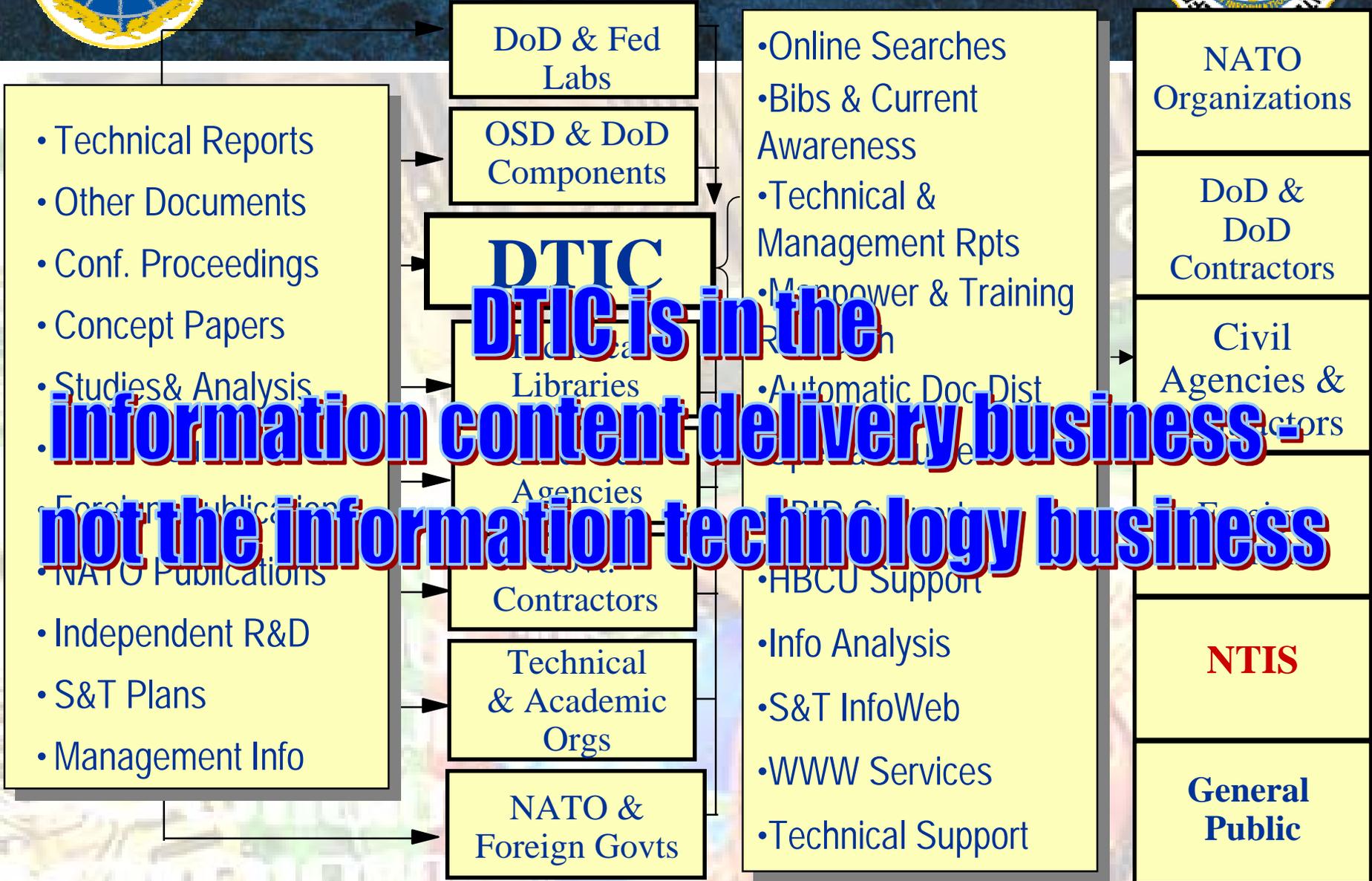


DoD's S&T Strategic Planning System





DoD STI Program Concept



Virtual Libraries

Visualization

Video Searching

Text Searching

Concept Mapping

Image Searching

Metadata

Search Engines

Knowledge Management

Knowledge Navigation

DBMSs

Teleconferencing

Information is the key - not information systems.

Hardware

Language Translation

Rights Management

Information Science

Content Management

Cyberspace organizing

Context Management

Information Exploitation

Distance Learning

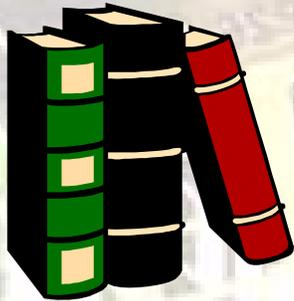


Publishing

Electronic Content



Our Goal



Data & Information

+



Management Information



Communities of Interest, Practice, & Expertise

**Imagination is more important than knowledge,
Albert Einstein**

Advances



Meeting the Needs - STI Support





DTIC Services



- Reference Services - We do it for you.
 - Customized Searches
 - Referral Services
 - Document Identification & Ordering
 - Document Status/Inquiries
- Customer Assistance
 - DTIC Help Desks
 - PROCAP
- Online Services - Do your own searching
 - DROLS
 - WED - Web-Enabled DROLS
 - STINET
 - Listings of Resources - DTIC/ Joint & Other Internet Resources



DTIC Online



DefenseLINK

- International
- U.S. Public
- State & Local
- Allies
- Contractors
- Government
- DoD Unclass
- DoD Contract
- DoD Class



Unclassified **Classified**
CONTROLLED NETWORKS

INTERNET
 Defense Technical Information Web

General Guidelines for Unclassified Access Control

Open	Unencrypted	Non-sensitive, of general interest to the public, cleared and authorized for public release for which worldwide dissemination poses limited risk for DoD or DoD personnel, even if aggregated with other information reasonably expected to be in public domain.
Limited by Internet Domain (e.g. .mil, .gov) or IP address	Unencrypted	Non-sensitive, not of general interest to the public although approved and authorized for public release, and intended for DoD or other specifically targeted audience.
Limited By User ID and Password (e.g. DMDC database or other registration system)	Unencrypted	Non-sensitive but limited to a specific, targeted audience.
Server Certificate Based	Encrypted SSL	FOR OFFICIAL USE ONLY
User Certificate Based (Software) Requires PKI	Encrypted SSL	FOR OFFICIAL USE ONLY and information sensitive by aggregation
User Certificate Based (Hardware) Requires PKI	Encrypted	FOR OFFICIAL USE ONLY and information sensitive by aggregation where extra security is required due to compilation



DTIC's STINET Service



- **Public STINET gives you access to:**
 - unclassified, unlimited citations to documents added into DTIC from late December 1974 to present.
 - unclassified, unlimited full text reports
- **Secure STINET requires registration for its customers and adds unclassified but limited distribution information such as copyright protected and other information falling under FOIA exemptions.**



Tailored Products



- Profile Driven Current Awareness

- Printed Bibliography → Online

- Bibs → CAB → ECAB → ECAB Linked

- Subject Category-Related Searching

From Product-Oriented to Customer-Oriented

- TopicLINKS

- External Discovery Links

- Journal Article and Conference Paper Services

- Air University Library's Index to Military Periodicals

- Special Communities (e.g. FFRDCs, JACG, SBIR)



STINET



Quick **Fielded** **Subsets** **Resources** **Other Federal**
 Add DTIC Thesaurus **Help**

Choose one or more of the following:

- DTIC's Mechanical Reports Collection
- DTIC's Full Text Collection
- DTIC Thesaurus
- R&D Descriptive Summaries (RIDS)

Note: The more you select, the slower the response time.

Search for: [View Database Descriptions](#)

MOLHOLM

[Fielded Search](#) [Search Help](#)

Search Scientific & Technical Documents	
DoD Index of Specifications and Standards	Research and Development Descriptive Summaries
Search STINET Info	STINET Information
Site Map	Find It
Search Tips	

Search Results

Results for search criteria: [query: \(title "Information Service \(NSTIS\) Function Description"\)](#)

Year	Database	Report Accession Number	Title	Links
87	DTIC	ADA190350	NATO Scientific and Technical Information Service (NSTIS): Function Description	Full Text View
87	DTIC	ADA190350	NATO Scientific and Technical Information Service (NSTIS): Function Description	Full Text View

Document Title : NATO Scientific and Technical Information Service (NSTIS):
 Function Description.

(This is hit 1 of 2.)

AD Number: ADA190350

Subject Categories: INFORMATION SCIENCE COMPUTER PROGRAMMING
 AND SOFTWARE

Corporate Author: DEFENSE TECHNICAL INFORMATION CENTER
 ALEXANDRIA VA OFFICE OF
 INFORMATION SYSTEMS AND TECHNOLOGY

Title: NATO Scientific and Technical Information Service (NSTIS): Function
 Description.

Descriptive Note: Final rept.,

Personal Authors: Molholm, Kurt N.; Blados, Walter N.; Bulca, C.; Cotter, Gladys
 A.; Cuffez, Armand

Report Date: AUG 87

Pages: 170 PAGES

Report Number: DTIC/TR-88/6



Other Federal Resources



Provides links to citations and documents not located at or maintained by DTIC, but of interest to DTIC users.

Resource Index

- Carl's Gateway To The Internet
- Geoscience
- Country Studies & Related Information
- Health & Medicine
- Energy
- NASA
- Environmental



Private STINET



- Unclassified/unlimited citations limited distribution citations added from 1985 to present.
- Unclassified/unlimited and unclassified/limited full text reports.
- Active and inactive Research Summaries (RS)
- Language translator.
- British Library's inside web (U.S. Govt. only).
- Canada Institute for Scientific and Technical Information's CISTI Source.
- ProQuest's Research Library Complete



Queries & Charts

Comments & Suggestions

What's New!

FAQ

Tutorial

Download Netscape

Download Adobe Acrobat

S&T InfoWeb

Meeting the Needs - S&T Management Support

If you have any questions, please contact one of the following:

[Andy Darby](#) (DTIC) (703) 767-9128

[Lorraine Williams](#) (DTIC) (703) 767-9129

(Click on buttons below to proceed)

Planning Information

Information from the JWSTP, DTAP, BRP, and their related DTOs.

Lab Management

Lab management.

Budget Information

The President's Budget, POM, BES, & Historical Data.

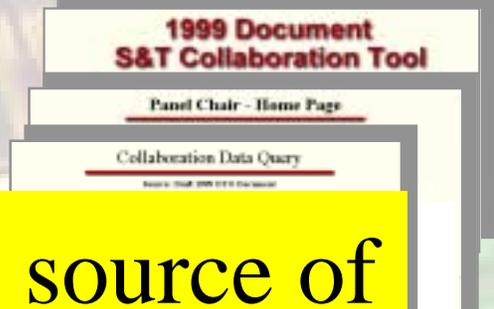
Manpower & Personnel

Manpower and Personnel.

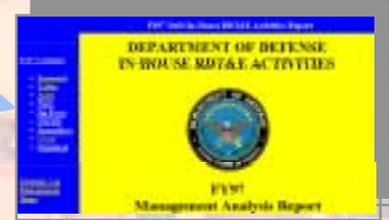
Thank



S&T Resources on the WWW



S&T InfoWeb - Authoritative source of S&T management information. Includes In-House Reports, RDT&E Budget information, and Lab Manpower and Demographics



<http://www.dtic.mil/ddre/>



S&T Community Web Sites



- In-House Report
- Animal Care and Usage
- OSD RDDS
- TARA
- TARA Admin and Tracking
- RDDS Search Page
- GPRA Automation Tool
- 2001 DTAP Funding Tool
- Defense S&T Planning
- Defense S&T Reliance
- S&T Collaboration Tool
- Virtual Technology Expo



Examples



- In-House Report - RDT&E data collection tool, database and publication site. Information includes: Organization structure, mission, primary programs, equipment/facilities, funding, personnel and space/property for each Lab.
- RDDS - Repository for current and historical R&D Descriptive Summaries. Query capability to search across DoD Services and Agencies by PE, Project, document text and budget activity
- Defense S&T Reliance - Consolidated listing of POCs within the S&T Reliance community



S&T Collaboration Tool



- A paperless workflow management site for document creation, review and revision
- Allows about 200 geographically dispersed users to collaborate online

2001 DOCUMENT S&T COLLABORATION

Welcome to the 2001 S&T Collaboration Tool
for review and revision of the 2001
DTO and JWSTP Planning Documents!

**VIEW/
DOWNLOAD**

**COMMENT/
QUERY**

**MODIFY/REVIEW
FINALIZE**

**Collaboration
Query**

Suggestions

**Mailing
List**

**Document Preparation
Milestones**

**What's
New**

**Frequently
Asked Questions**

**Related
Sites**

**Download
Netscape/I. E.**

HELP

SEARCH

SITE INDEX



Virtual Technology Expo (VTE)

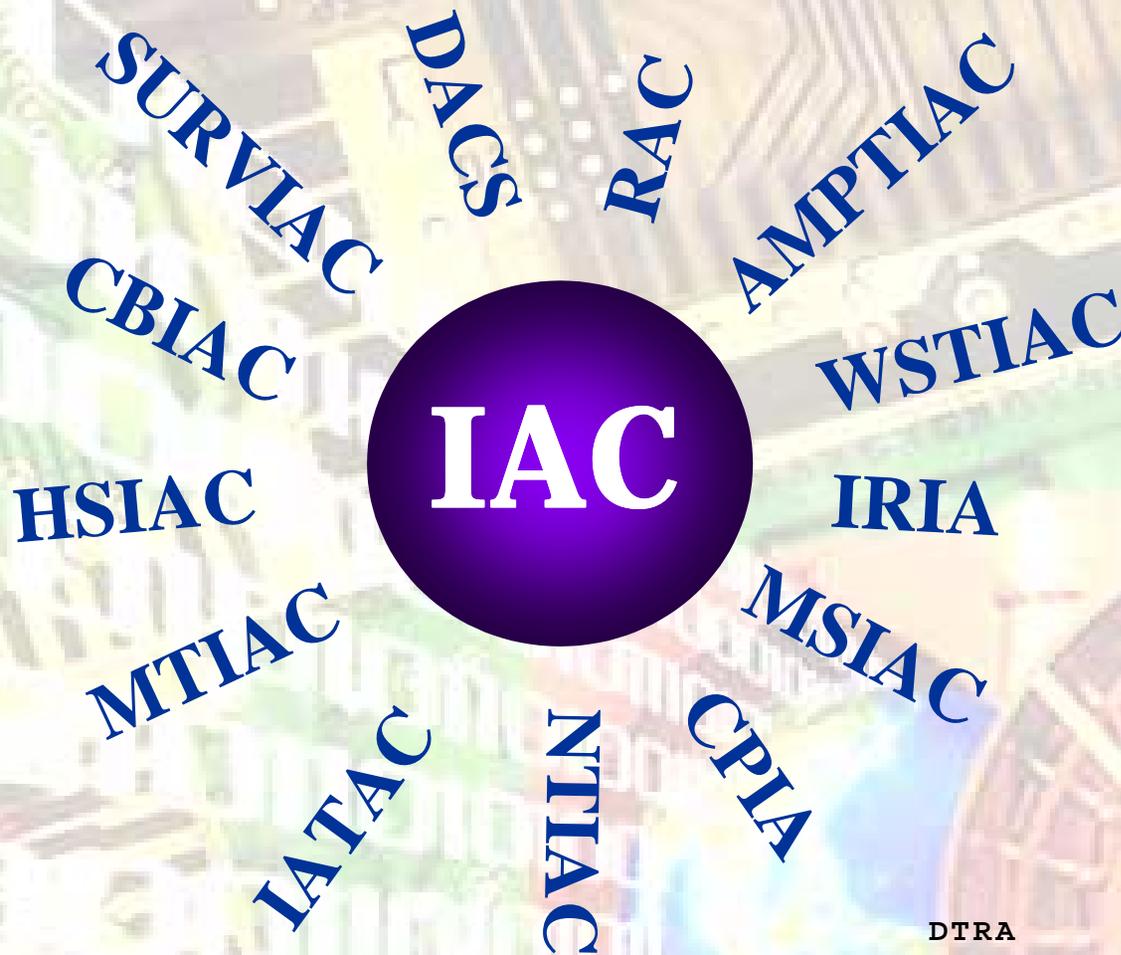


- Provides information on emerging technology
 - Leverage ongoing technology advances
 - Showcase research efforts to a broader science and technology audience
 - Includes links to related Web sites





13 DoD Sponsored IACs



Currently there are 13 DoD sponsored OSD chartered IACs covering all of the DoD Critical Technology Areas.

For a directory explaining their expertise and technology areas etc., visit <http://www.dtic.mil/iac>

ARMY

AP MIAC	CTIAC
CEIAC	
CRSTIAC	
SMIAC	HEIAC
SAVIAC	ETIAC

DTRA

DTRIAC

UNCLASSIFIED



IACs Allow Communities to be Smart, Sophisticated Consumers



Inquiry Support

Information Resource



Customer Organization

Utilizing Subject Matter Expert Talent & Technologies

Leveraging Commercial Best Practices





Information Infrastructure Foundations



- Reason for being -- clear mission -- focus
- Planning
- Defined User community -- public, domain...
- Dedicated Information Specialist staff with Competent technical support
- Content - logical organization/searchable
- Consistent look and feel
- Adherence to standards
- Willingness to attack the Status Quo



Considerations



- **One Stop Service -- Access to other sources**
 - Interoperability and content transfer
 - Digital Documents
 - Multimedia & Data
 - Copyright Management
- **Full text searching**
- **Digital Publishing**
- **Knowledge Networking - capturing Tacit as well as Explicit information/data**
- **Privacy and Security**
- **Visualization**
- **Permanent Access and Preservation**
- **Metrics gathering, analysis, and reporting**
- **Customer assistance**
 - Automated tools
 - Help Desks
 - Training
 - Customer Surveys/Interviews



Tools/Methods



- **Taxonomies, Controlled Vocabularies**
- **Persistent Identification -- Handles**
- **Content Independence -- XML**
- **User Interface -- Portals**
- **Color**
- **Consistent approach, bringing disparate systems together**
- **Digitizing legacy documents & digital input**
- **Registration & Access Control**
- **Network Security**



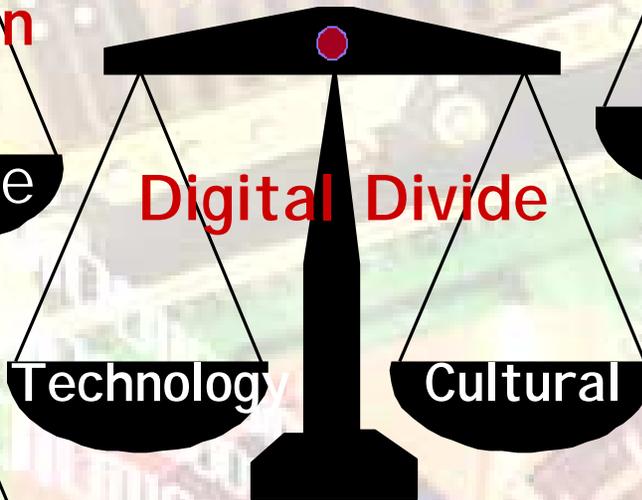
Balancing Acts



Resource Allocation



Digital Divide



Risk Taking

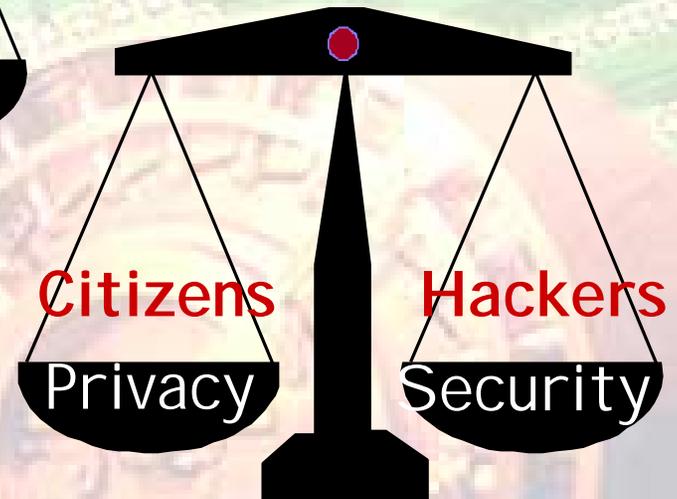


Risk Management



Citizens

Hackers





Contact



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<http://www.dtic.mil>