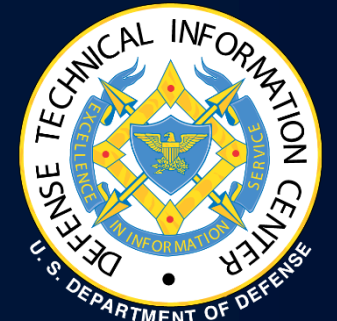


Introduction to the Defense Technical Information Center

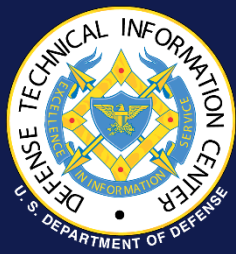
How DTIC Supports the Defense Ecosystem

Michele Finley
Chief of Staff
Defense Technical Information Center





Why DTIC?



Mission:

Ensure the innovation and knowledge stemming from DoD's past and current investment in science and technology (S&T) forms the building blocks for the next generation of discovery, and accelerates capability to the warfighter

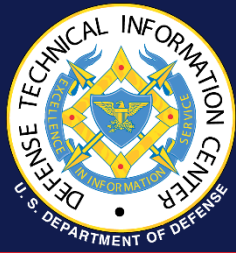


Vision:

Be the provider of choice for S&T information to the Defense research and development community, sharing knowledge and fusing data to provide advanced insights



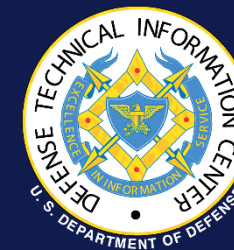
DoD Scientific and Technical Information Collections



- DTIC provides access to DoD's scientific and technical information knowledge base
 - 4.7M records spanning 75 years of research and innovation
 - Available to the Public, 800K reports
 - DoD funded peer reviewed journal articles
 - Final research reports (non-CUI)
 - DoD grant awards
 - Conference Proceedings presented at NDIA events
 - Available to DoD, Federal government, and their contractors
 - Final research reports, studies, briefings, and journal articles (CUI and non-CUI)
 - Research progress summaries
 - Journal of DoD Research and Engineering
 - Security Classification Guides
 - Industry Independent Research and Development reports
 - Collaboration content



DoD's Central S&T knowledge Base – Connecting Communities

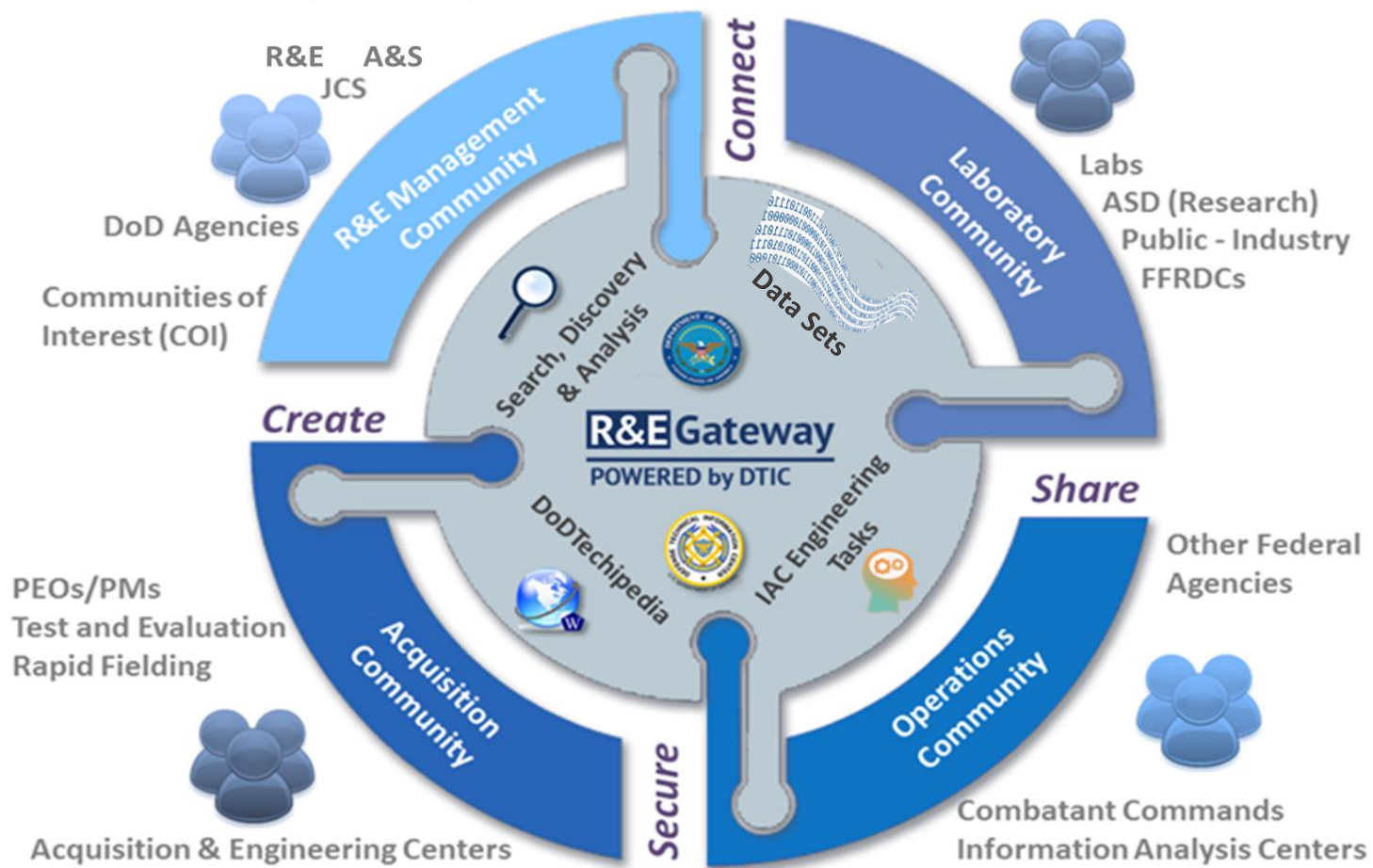


Innovation at the speed of relevance demands new work starts at the highest point of knowledge

From the Lab Bench to the Battlefield: DTIC connects DoD, academic, and industry researchers with the Warfighter and allied partners to ensure that in near peer competition our military has the tools and technology to deter and defeat our adversaries and safeguard our nation

As the Department's scientific and technical information knowledge provider, DTIC accelerates technology innovation, transition, and capability delivery and safeguards our nations investment in S&T

Customers, Submitters, Partners – Working Together

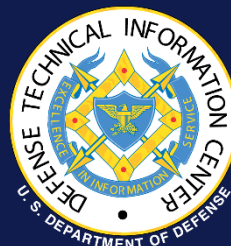


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Preserving KNOWLEDGE | Connecting PEOPLE | Inspiring INNOVATION

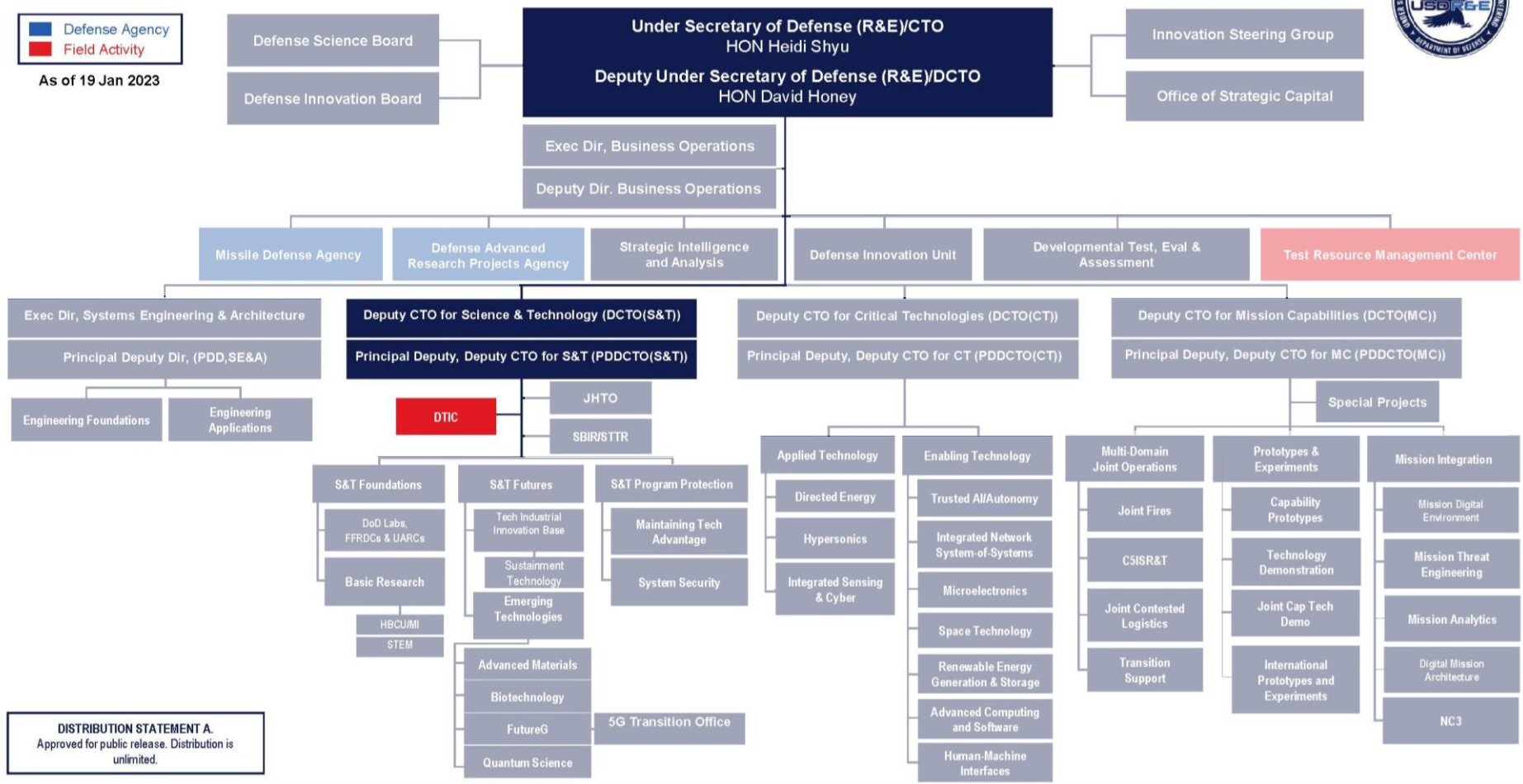
DISTRIBUTION STATEMENT A. Approved for public release.



USD(R&E) Organization Chart



OUSD(R&E) ORGANIZATIONAL STRUCTURE



DISTRIBUTION STATEMENT A.
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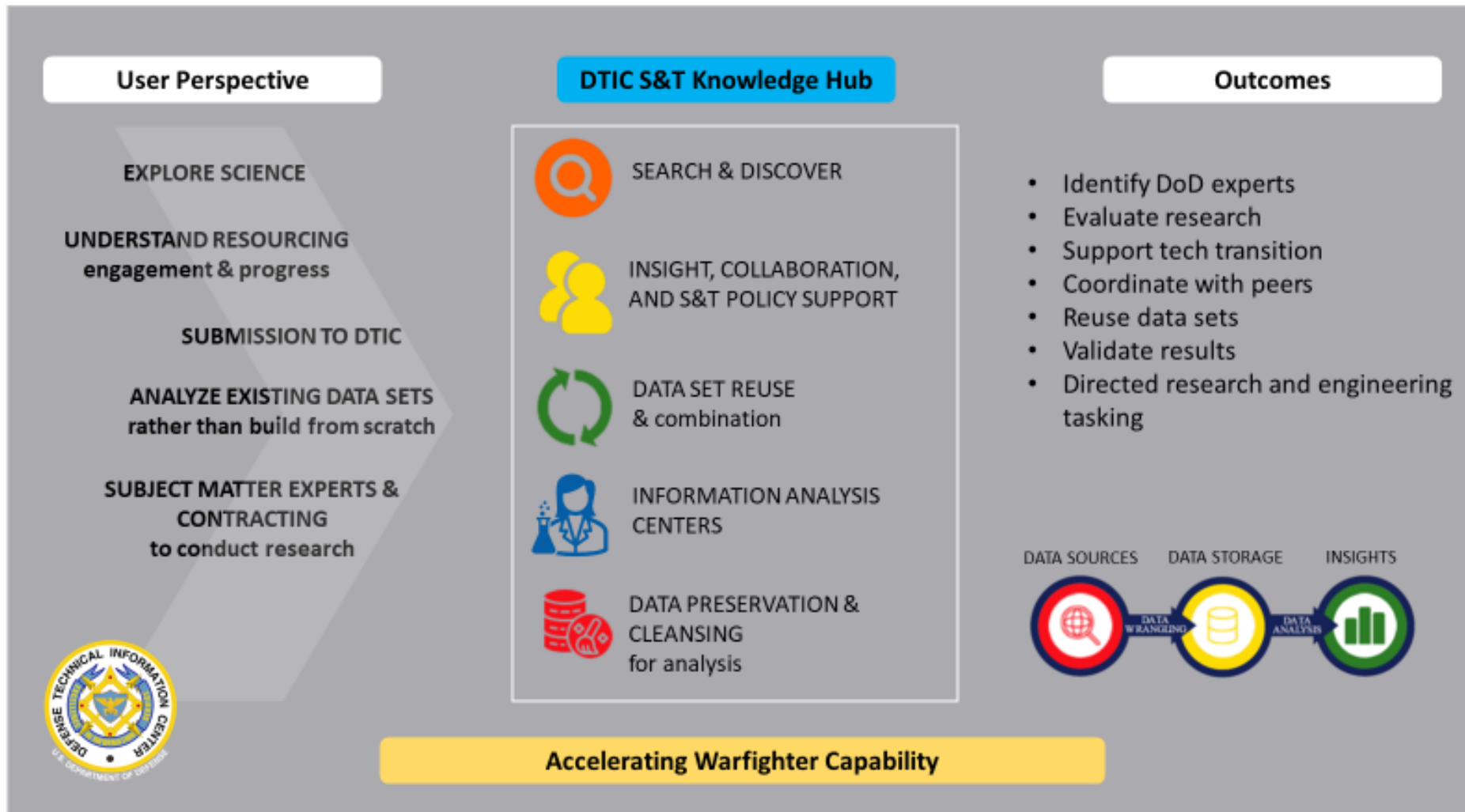
DTIC VALUE/IMPACT TO DOD

DTIC is the single central resource accessible to all DoD. Sharing results reduces costs, speeds fielding of new capability, and increases the ROI of the \$17B annual funding for S&T – providing the foundation for scientific advancement, collaboration, and decision making.

Drawing from 4.7M records DTIC makes this information accessible across Service and component silos.

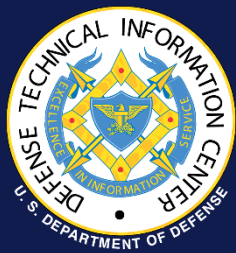
DTIC connects:

- More than 70K researchers, scientists, and engineers
- Public sites support industry, allies, and academic partners





DoD Information Analysis Centers (DoDIAC)



A key resource for the DoD and S&T community

Providing services and capabilities that enable the U.S. to remain at the forefront of innovation, meet the challenges of a rapidly changing world, and respond to emerging threats.

The DoDIACs brings together scientists, engineers, and researchers with a broad array of expertise to evaluate and respond to the Department's research challenges

- Conduct basic and applied research; develop, test, and implement new technologies and approaches; and analyze and synthesize existing data and information
- Facilitate collaboration and information sharing within the DoD and with external partners
- Enable DoD organizations and leadership to understand and evaluate the current state-of-the-art, more efficiently and effectively carry out its mission, identify gaps, and implement solutions

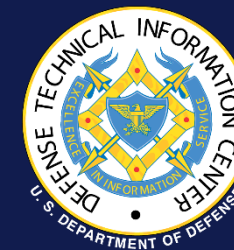
To learn more visit us at: <https://dodiac.dtic.mil/services>

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R&D Services Made Easy



Dedicated teams helping you



Four Hours of Research at No Charge

for technical inquiries to perform initial research and analysis of DoD challenges

- Up to 4 hours of research
- Answer technical question, referral to SMEs
- Create literature searches

Get started:

dtic.belvoir.iac.mbx.dodiacs@mail.mil



Single Award Contract for rapid prototyping and other research and analysis services

- \$1M ceiling, with max 12 months PoP
- Rapid start time (as few as 6-8 weeks)
- Pre-awarded, pre-competed contract vehicle

Get started:

dtic.belvoir.iac.mbx.iacs-stos@mail.mil



A \$28 Billion Indefinite Delivery Indefinite Quantity (IDIQ) Multiple Award Contract (MAC) for research and development (R&D) and other related services

- No maximum ceiling, with PoP up to 5 years
- Rapid award (4.5 months from solicitation)
- Quickly add co-funders

Get started:

dtic.belvoir.iac.mbx.csc@mail.mil

Fast, Flexible, and Low Cost

To learn more visit us at: <https://dodiac.dtic.mil/services>

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From a Document Repository to a Knowledge Provider

- Provide discovery, knowledge, collaboration tools and peer-reviewed Journal to all DoD users on three networks (public, controlled unclassified information, and classified)
 - Move from a per document request structure to a knowledge provider, displaying like content, people, and topics
 - Enable rapid access to relevant information and provide knowledge products that inform and increase understanding, identify where work is performed, and recognize maturity
 - Consolidate tools and provide a uniform experience
 - Provide role-based products based on user activity
 - Deliver usage analytics to submitters/authors

The image displays three overlapping screenshots of the Defense Technical Information Center (DTIC) interface. The top screenshot shows a search for 'long range artillery' with filters for 'Modernization Priorities' (Fully Networked C3, Space, Microelectronics) and a 'Budget Year' bar chart. The middle screenshot shows a network graph with 'Air Force Research Laboratory' at the center, connected to various entities. The bottom screenshot shows an 'Engagement Map' for 'Air Force Research Laboratory' with a detailed tooltip for the organization, including its name, type, description, country, salience score, and graph connections.

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Partnerships and Challenges

Program Partners: Helping the science and technology community make the right technology investment decisions increasing cross-Service transparency through coalitions

- **Research Community**

- Defense Basic Research Advisory Group
- Research Data Working group
- CENDI
- DoD Labs Office
- Tech Protection
- FFRDCs
- Joint Experimentation Network (JExNET)
- **Open Science**
 - Office of Science and Technology Policy
 - Department of Energy – Joint tools
 - Non-profits ([ORCID](#), [CHORUS](#), [FUNDREF](#))

- **Digital Transition – DTIC modernization team**

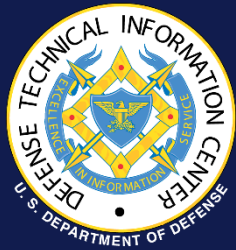
- USAF Cloud One – Hosting, DevSecOps
- Defense Innovation Unit – Solution discovery
- Joint Reserve Directorate – Technical Architecture and market survey
- Microsoft – Azure Gov Cloud/Cognitive search
- Chief Digital and Artificial intelligence Officer (CDAO)
- R&E Chief Data Officer (CDO)
- Advana

Challenges

- Ambiguity of names and organizations: DoD lacks a unique organization identifier and person identifier
- Comparing Requirements to current projects
- Comparing new projects to past and other current projects
- Analyzing and categorizing content to Critical technology Areas
- Verification of classification/CUI level
- PII and PHI scanning
- Limiting uncontrolled further distribution of content
- Automated creation of document overview
- Discovering similar content
- Compilation from combining large data collections



Supporting the Community



- **Tech Transition and Exploration**

- Where research is being performed and how it progresses
- What research is being performed and by who – organizations and people to include span of time/geolocation
- Compare and contrast different agencies/organizations research budgets
- Trace tech transition from budget (R2) to procurement (P40) to sustainment (O&M), such as using TRL, common topics, linked research, funding, etc.

- **Lifecycle of Spending and Research**

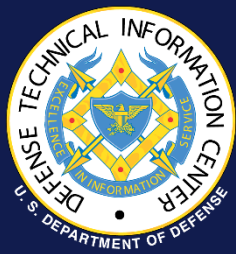
- Identify and provide trends of the spending profile of a research area, organization, or individual
- Track how budgets evolve over time for different topics/programs/organizations

- **Collaboration across Organizations**

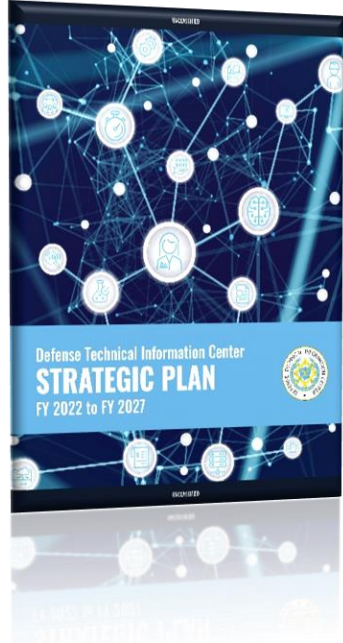
- Identify experts (COI leads, presenters, authors, etc.)/POCs for specific research topics or searches, including experts that publish in public domain



DTIC Modernization Priorities



FY22-27
Strategic Plan



01. Availability and Readiness

Provide the foundation for always on, flexible compute, storage, and bandwidth to enable artificial intelligence/ML technology and advanced data science and analytic activity



Exploit leading commercial search and graphical navigation solution to simplify content discovery and apply analytic visualizations

03. Search and Analysis

Content Submission

02.

Speed posting of new content using machine learning (ML) to review documents in seconds eliminating backlog

Reuse S&T research data sets to reduce both RDT&E costs and time to field capability

Data Sets

04.

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Modernization Efforts

Transition to a knowledge provider



- Selected Microsoft Cloud One
- Selected Microsoft Cognitive Search and COSMOS DB
- Implement new submission pipeline that automates processing and standardizes data
- All data available through one search application with graphical navigation
- Data set storage through one
- Customer directed analysis
- Journal article submission gap addressed

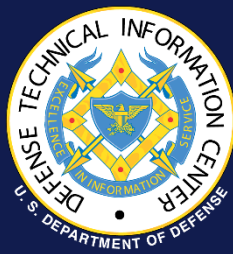
Technology Innovation:

- Document Summarization
- Citation trace graph
- Improved metadata tagger
- Network graph interface
- Cognitive search

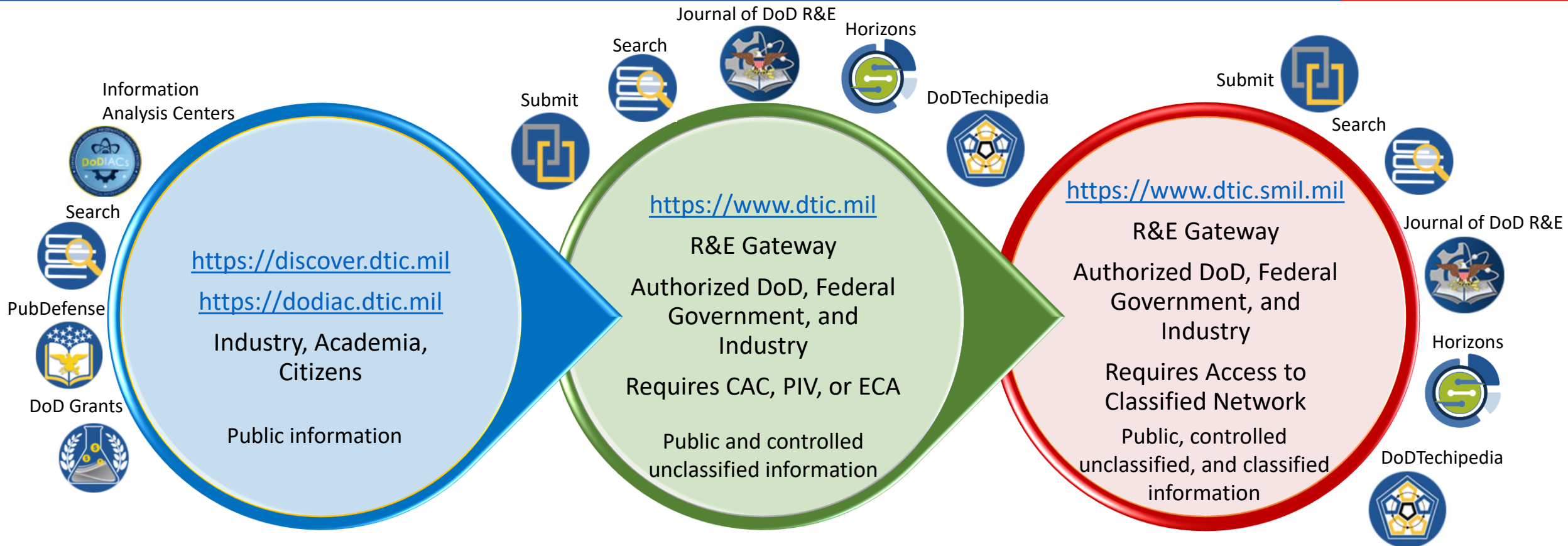
FY 2022 **FY 2023 (Migrate IL4)** **FY 2024 (Migrate IL6, consolidate to new submission system)** **FY 2025**

- Build foundation for continuous technology insertion
- Launch new search
- Deploy new Horizons application
- Implement new DevSecOps pipeline
- Containerize legacy applications
- Initiate data set storage pilot
- Prioritize Software as a Service solutions
- Journal Article inventory data call
- Automated publishing of reports from Services
- Predictive analytics recognize S&T trends
- Unanticipated, but related, content presented to customers
- Digital persistent identifiers implemented to support tracking of the progression of science
- Improved S&T data literacy and stewardship culture

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Access to Defense Scientific and Technical Information

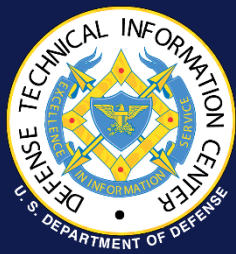


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Questions?



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1-800-CAL-DTIC (1-800-225-3842)

Public site:

<https://discover.dtic.mil/>

NIPR site:

<https://www.dtic.mil/>

SIPR site:

<https://www.dtic.smil.mil>

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