



## DTIC Showcase

- **Welcome – *Christopher Thomas, DTIC Administrator*  
*Roberta Schoen, Director of Operations***
- **Access to R&E Gateway – *Nicholas Lorenzini, PM***
- **DoDTechSpace – *Karen Nimerick, PM***
- **DoDTechipedia – *Bruce Gilbert, PM***
- **DTIC Search – *Andrew Pedrick, PM***

13 March 2014



# Access & Identity Management

Nicholas Lorenzini, PM

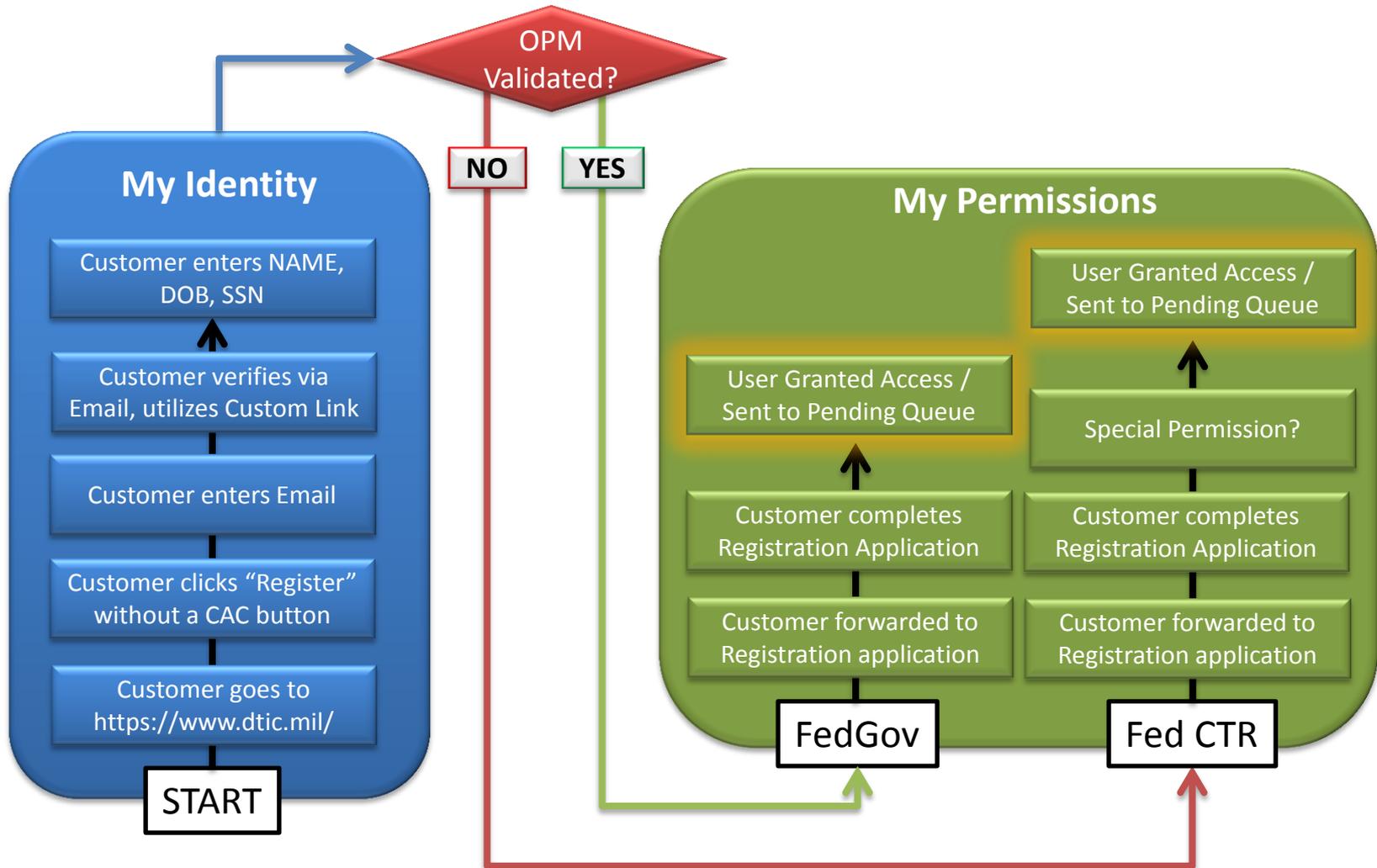


# Federal Government Access

- DTIC forged a Memorandum of Agreement with OPM to foster a new way for U.S. federal government civilian employees to register for access without the use of a government identification card
  - This replaced the need for the customer to manually fax their current SF-50 to show proof of employment and other pieces of information
- Through the automated query via an individual's name, date of birth and SSN, validation of identity can be done through the OPM SF-50 database
  - DTIC does not store SSN and your date of birth for your registration, only utilizes it to query OPM's database
- Federal contractors complete manual registration, as well as a Government Approving Official in validating "need to know"



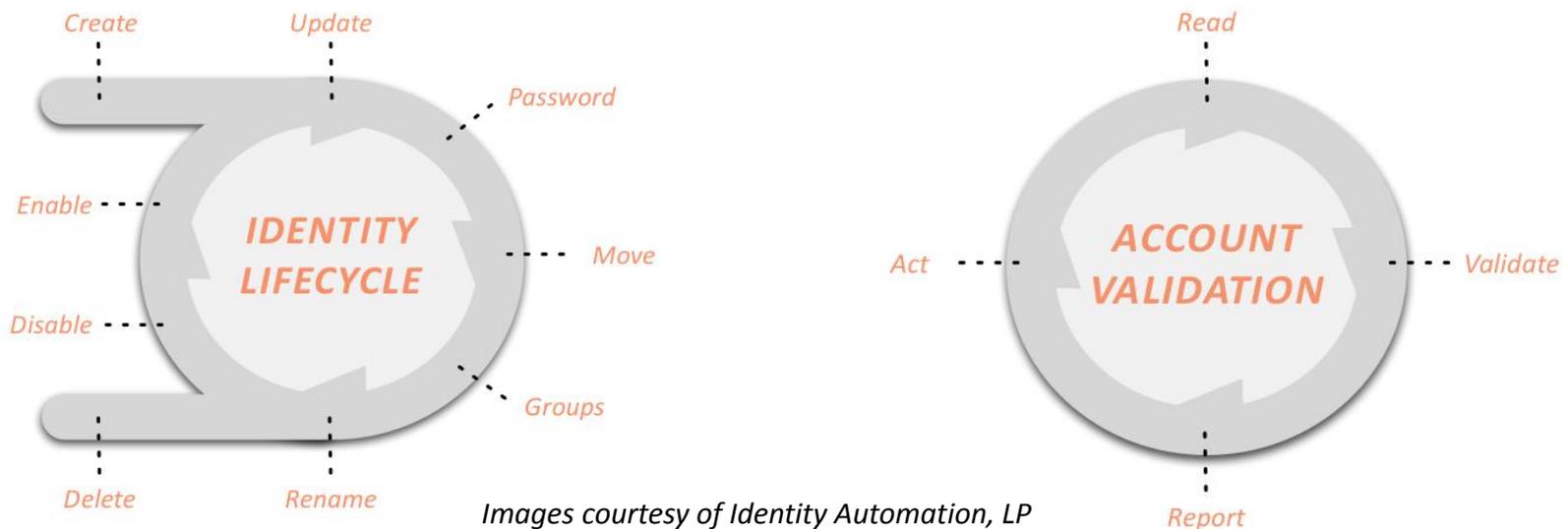
# How does it work?





# Why the Extra Security?

- DTIC is a third-party information provider
  - The abundance of various classifications and distribution codes demands us to ensure the information reaches the individuals with the right permission to view it
- Majority of our collection is user submitted
  - Users demand complete fortitude in the protection of their investments of research and engineering
  - DTIC's growth of small business and government proprietary information has greatly expanded





# R&E Gateway/DoDTechSpace

Karen Nimerick, PM



# R&E Gateway

<https://www.dtic.mil>

- Integrates DTIC's online access controlled tools, products and services
- Includes:
  - Seamless access to DTIC's products, tools and services
  - Resources and user contributed content on technical topics organized and accessed centrally
  - Single login for multiple capabilities
- Accessible across the federal government to government employees and contractors
- Presents opportunities for *collaboration*



# New Access Controlled Entry Point: R&E Gateway

DoDTechSpace | DoDTechipedia | Defense Innovation Marketplace | Budget | IACs | Services | Search



## R&E Gateway

DoDTechSpace by DTIC

My DTIC Account | Log out **NEED HELP?**

DODTechSpace  DTIC Collections



Welcome, Wendy Hill



Activity

Inbox 9

Actions 2

Browse

Links

Create



THIS PAGE CONTAINS DYNAMIC CONTENT. ONLY UNCLASSIFIED CONTENT SHOULD BE POSTED.

ANNOUNCEMENT: Need Search Assistance? [Show Details](#)

1 2

## The question

that motivates my research is,  
if we can put a man on the Moon  
with 100,000 (people),  
what can we do with 100 million?

— Luis von Ahn, Pioneer of Crowdsourcing

Use DoDTechSpace to collaborate  
with the DoD S&T universe.

[GET STARTED](#)



See what you can do with the support of the DoD S&T community like a post, follow a group or ask a question.



### Products



**DODTechipedia** | SIPR  
Add content and edit DoD's science and technology wiki.  
[Visit the Defense Communities.](#)



**Defense Innovation Marketplace**  
Analyze and connect with industry IR&D projects.



**Analytics**  
Create charts and graphs from DoD research planning data.



**DoD Budget Tools**  
Review and analyze DoD research and engineering funding data.



**Information Analysis Centers (IACs)**  
Access to analysis built on research, development, and operational experience.  
[Ask a Question.](#)



**Search**  
Find technical reports and projects from DTIC Collections and people and topics from the S&T Community.

### Popular

**Re: Topic of the Week (9/16-9/20): Autonomous Systems and Robotics** by Jennifer Kuca 1 day ago

**GE Phasor XS 16:64 with Top View (C-Scan)... Some thoughts** by Craig Sheppard 2 days ago

**Penn Scientists Demonstrate New Method for Harvesting Energy from Light** by Jennifer Kuca 1 day ago

**eCM Journal, electronic Cells & Materials, to charge a fee for new submissions** by Tracy Landfried 3 days ago

### Services

Search URED and Technical Reports  
Submit Technical Reports  
Submit URED  
Ask for Reference Assistance  
Explore Journal Articles  
Request DoD Web Site Hosting  
Register for DTIC Training  
Return to Classic DTIC Online Access Controlled  
Discover DTIC A to Z

FEEDBACK



# DTIC's Products & Services

**Unifies access to DTIC's products & services including:**

- **DoDTechSpace** ←
- **DoDTechipedia**
- **DTIC Search**
- **Popular content and discussion**

A central place to conduct work activities virtually with several communication options.

**Links to additional services include:**

- **Information Analysis Centers (IAC)**
- **Analytics**
- **Defense Innovation Marketplace**



# Today's Work Environment

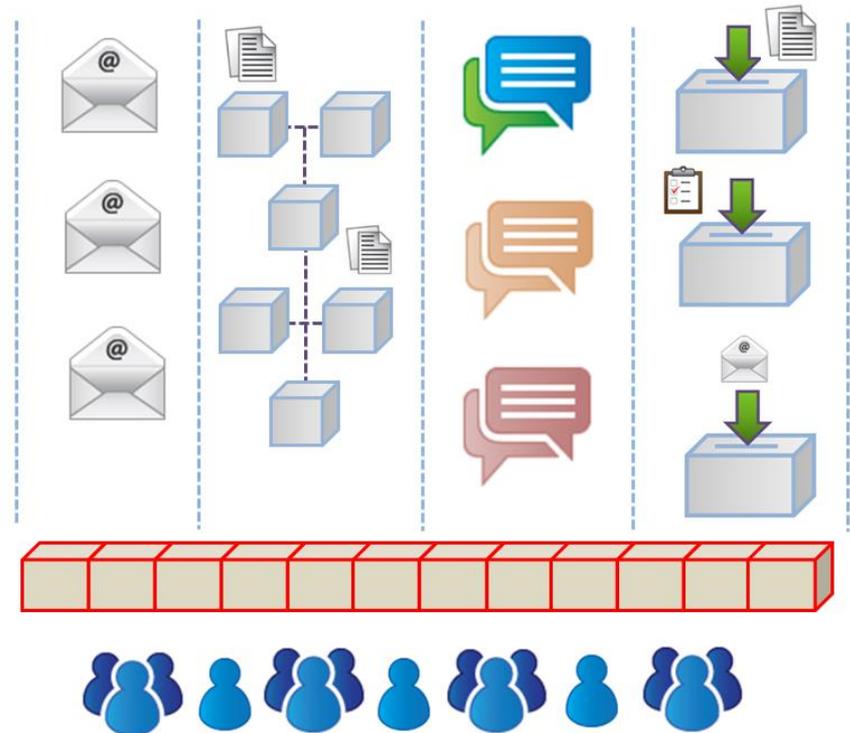
## How are you conducting business?

### Pertinent information in several different tools

- E-mail correspondence
- Internal agency shared drives
- Internal agency chat
- Drop box for file sharing

### Tool limitations

- One topic might generate several e-mails
- Each work activity may have several correspondence items that are captured in different locations
- Internal mechanisms do not promote visibility outside the organization





# The Future Work Environment

**Offers a central place to conduct work activities virtually with several communication options.**

## **Attributes of the tool:**

- Fosters cross-organizational collaboration
- Provides greater efficiency and access to information
- Embraces work flow activities
- Enables asynchronous communication
- Provides an opportunity for people to work together dynamically





# Background - DoDTechSpace

## Today's challenges

- 60,000 people in the DoD S&T community from different geographic locations are siloed
- Limited budget for conference travel
- Streamlining required for business processes using new technologies
- Scalable, adaptable tools are needed to attract and retain a new generation of scientists, engineers and researchers

## Solution - DoDTechSpace

- A secure virtual environment in which participants can create, organize and share information, as well as find, connect and interact with each other
- Collaborative opportunity for combining talent across .mil, .gov., edu, and .org.

## DoDTechSpace Facts

•••

- June 28, 2012: NIPR beta launched
- August 25, 2012: NIPR pilot launched
- September 24, 2013: NIPR site launched
- November 21, 2013 -DTIC home page refresh, replacing DTIC Online Access Controlled (DOAC)
- Today, DoD personnel can collaborate within their organization and externally with other personnel at the 60+ labs in the DoD, with other services and across the enterprise



# Purpose of the Tool

As a working research tool, DoDTechSpace supports the entire DoD research and engineering (R&E) community through universal navigation and social integration, from the Pentagon to DoD and Service Lab activities.

## **A user can:**

- Foster discussions and sharing of projects, documents, and ideas
- Expose trends, hot topics and needs
- Work with colleagues to share S&T information
- Create self- managed communities of interest for professional networking

## **Key benefits:**

- Adds structure and permanence to ad hoc communications
- Moves discussions from individual-to-individual to broad collaboration
- Flexible, no cost, intra-agency and cross-organizational communication platform



# Building Blocks of the Tool

**CONTENT**

to name a few

Documents  
& Uploaded  
Files

Discussion  
&  
Questions

Tasks

Blog Posts

Polls

**PEOPLE**

**PROFILE**

**PERSONAL  
CONTENT**

**PLACES  
for  
Content**

customer-created

**Group**

**Project**



# DODTechSpace Product Features

## Inspire better intra-agency communication and cross-organizational communication

- **Activity stream:** Stay in the know and see activity updates from people, places and content
- **Find, follow, connect:** Discover people from activity updates, threaded discussions or through search
- **Social profiles:** Put a face to a name through rich profiles
- **Search everything:** Find people, groups, discussions, blogs, images and documents
- **Document collaboration:** Create and share documents, then review and edit
- **Work together:** Create public, open, private or hidden groups
- **Encourage engagement:** Reward participation through built-in game mechanics

### Sidebar: Social Gamification



Gamification is the use of game attributes to drive game-like player behavior in a non-game context. This definition has three components:

- The use of game attributes such as game psychology, storytelling
- Driver for game-like player behavior such as engagement, interaction, addiction, competition or collaboration
- Environment for non-game context (e.g. education, work, health and fitness, community participation, civic engagement, volunteerism, etc.)

- Michael Wu, Ph.D. is Lithium's Principal Scientist of Analytics



# Community Members in Action

## Two examples of DoDTechSpace groups

### Emerging Technology Group

<https://www.dtic.mil/REGateway/thread/174>

**Overview:** Information on activities relating to emerging science, technology and applications. This includes technology watch and horizon scanning, specific technical assessment activities, and efforts to integrate technical intelligence into our S&T processes.

### Trusted Microelectronics Group

<https://www.dtic.mil/REGateway/thread/1339>

**Overview:** Trusted microelectronics are critical to ensure mission success and to mitigate cyber hardware vulnerabilities.

**Emerging Technology**

Overview Content People Projects

**Recent Activity**

**Topic of the Week (Feb 24-March 1)**

Carol Jacobson replied (in response to Stephen Kesste) Did you see the Washington Post's February 14, 2013 item Electronic Vehicles (OLEV) 2. 3-D... 5 hours ago Preview Reply Like (0)

In Emerging Technology - 2 replies

**Next, 4-D Printers?**

Jennifer Kuca mentioned **Emerging Technology** No, the printers won't generate hypercubes. Rather, the scientist mathematician Hermann Minkowski 20 hours ago

**Apple smart watch efforts confirmed by US patent**

Jennifer Kuca started the discussion Fresh evidence that Apple has been working on a smart watch concept since at least 2011 has emerged in a patent filing.

**Group Overview**

Peace of Technology, Black Swan Syndrome, Rise of the Commons, Expanding Global Knowledge Base, Information Agility, Economic and S&T Mega-trends, Open Collaboration, Technology Commercialization, AI/ML, IoT, AR/VR, 3D Printing, Autonomous Systems, Space Exploration, Cybersecurity, Advanced Manufacturing.

**Trusted Microelectronics**

Overview Content People Projects

**Featured Content**

- Trusted Suppliers Industry Day at GOMACTeX 1 week ago
- Trusted microelectronics discussions at DMC 2 months ago
- Trusted Microelectronics at DMC and DMSMS 3 months ago
- Trusted Microelectronics Presentation at Ray Conference 3 months ago
- Trusted Foundry Program Contacts 5 months ago

**Recent Blog Posts**

- In Chip-Counterfeiting War, a Small Win for 2 days ago in Trusted Microelectronics
- Marvell Tech Targets Fake Electronic Components 2 days ago in Trusted Microelectronics by Jimmy Poplin
- FAR / DFAR Case Update (15 Feb 2013) 6 days ago in Trusted Microelectronics by Michael Hall
- Blame the Supply Chain for Boeing Dreamliner Problems? by Brian

**Formatted Text**

 **Welcome to Program**



# Social Business Success

## 1. Emerging Technology Group

- Posts “Topic of the Week,” which garners extensive threaded conversations
- Fosters viral “@mentions” that engage the community

## 2. Trusted Microelectronics

- Uses unanswered questions to drive crowd-sourced solutions
- Organizes projects by subject type

## 3. Combatant Command Researchers

- Pollinates information and resources through links and contextual tagging
- Leverages the “Watch a Tag” widget to bring focus to topics of interest

## 4. Private Group

- Drives innovation through collaborative brainstorming
- Securely crowd-sources proof-of-concept components

### Success Verbatims

•••

“I was able to develop a working group page and quickly get content up for our team to start collaboration. I think this is a great product and best of all, no hoops to jump through to get setup.”

“Once I poked around in the DoDTechSpace, I was quickly able to setup a group site, set permissions, add content and invite my colleagues.”



# Future Functionality

- Greater personalization of your profile
- Greater ways to filter activity that interests you
- Further customization of your group homepage





# Try It!

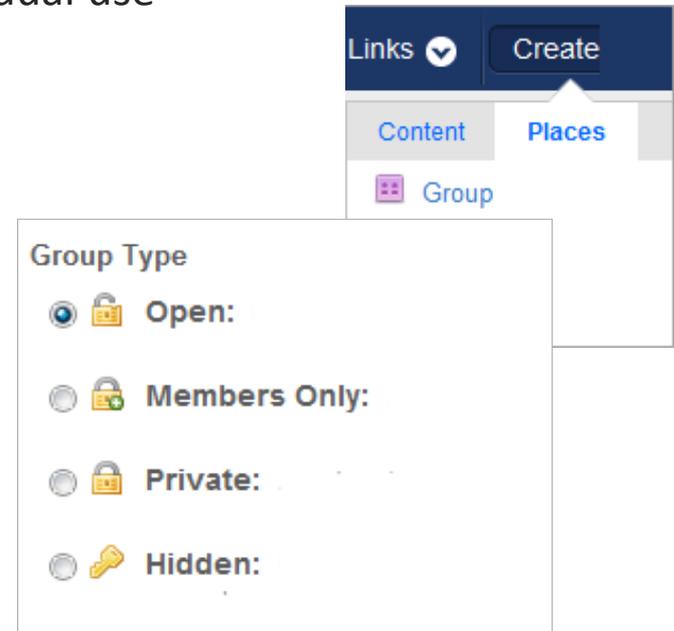
- Browse content
- Complete your profile
- Create a “hidden” group as a “sandbox” to test drive functionality



## Getting More Out of [Groups](#)

Groups are typically used for gathering around a particular topic of interest.

- Groups are created for their organizations, teams, project, tasks, etc. Groups can also be created for individual use





# Start with Help

[DoDTechSpace](#) | [DoDTechipedia](#) | [Defense Innovation Marketplace](#) | [Budget](#) | [IACs](#) | [Services](#) | [Search](#)



**R&E Gateway**  
DoDTechSpace by DTIC

DODTechSpace  DTIC Collections

SEARCH

## Getting Started

 [Welcome](#)

 [Help](#)

-  [Quickstart Guide: Connecting to People](#)
-  [Quickstart Guide: Finding Your Stuff](#)
-  [Quickstart Guide: Creating a Status Update](#)

Scroll down on  home page  
Click on Help

## Known Issues

We are always working to resolve issues that may arise on the R&E Gateway.

-  [General DoDTechSpace: Known Issues](#)
-  [DTIC Collections Search: Known Issues](#)

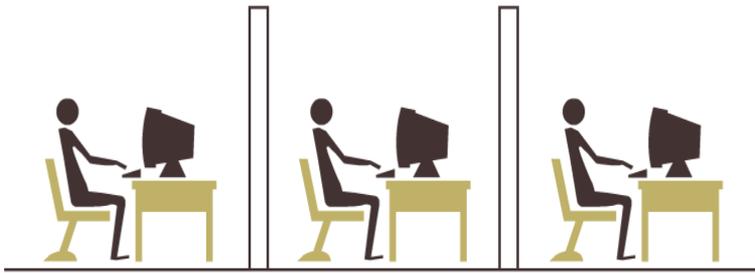


# DoDTechipedia

Bruce Gilbert, PM



# Bringing Solution Providers and Technology Consumers Together



## Problem

Barriers between colleagues: solution providers and technology consumers are separated by geography and organizational structures

## Solution

A widely accessible tool to foster collaboration between solution providers and technology consumers





# DoDTechipedia Is One Way to Break Down the Barriers to Collaboration...

[DoDTechSpace](#) | [DoDTechipedia](#) | [Defense Innovation Marketplace](#) | [Budget](#) | [IACS](#) | [Services](#) | [Search](#)



**R&E Gateway**  
DoDTechipedia by DTIC

[My DTIC Account](#) | [Log out](#) | [NEED HELP?](#)

DoDTechipedia  DTIC Collections

Dashboard > DoDTechipedia > DoDTechipedia

Browse ▾ Candace parker ▾

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### Main Page

#### Products

Aristotle  
Budget  
Defense Communities  
DTIC Services  
Defense Innovation Marketplace  
DoDTechspace  
IACS

#### My Favorites

#### Content

Tech Discovery  
Tech Challenges  
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#### R&E Community

ASD(R&E)  
DoD Labs  
DTIC  
FFRDCs  
Other Communities  
UARCs

#### Getting Started

About Us  
Acronyms  
Dictionary  
Help  
Sandbox



## DoDTechipedia

Edit Invite ▾ Add ▾ Tools ▾

🔗 430 Added by [paluzsavn1234](#), last edited by [Thomas Glad](#) on Sep 25, 2013 ([view change](#)) [show comment](#)

### Share – Connect – Collaborate

Post ideas, ask questions, make suggestions or share information with colleagues across the Department of Defense!

### DoDTechipedia Communities

Looking for content? Check out these communities (you may need to request access) or browse [Technology Discovery](#).

• [afmc](#) • [Imperative2](#) • [BlastMS](#) • [COCOM S&T Community](#) • [comration](#) • [DCIO](#) • [DLAgency](#) • [DoDHRPP](#) • [JATDST](#) • [DCBC](#) • [execsec](#) • [GSID Materials for Ground Platforms](#) • [IACS](#) • [iactat](#) • [ickm](#) • [IWG](#) • [IAPG](#) • [jacrc](#) • [jeat](#) • [labs](#) • [MilDet](#) • [NMATS](#) • [NPC](#) • [odissee](#) • [pstwg](#) • [prodperf](#) • [qdrdppg](#) • [DID](#) • [RPN9030](#) • [SMART](#) • [JTAP](#) • [Technology Forecasting](#) • [Trusted Foundry Program](#) • [VCAT](#) • [Web 20 Policy Working Group](#)

If you're interested in creating a new community for your content, please contact us at [dodtechipedia@dtic.mil](mailto:dodtechipedia@dtic.mil).

### Did you know...



...the [Homeland Defense and Civil Support Command and Control](#) identify survivability and vulnerability areas of the NORAD and USNORTHCOM (N-NC) C2 Enterprise, that threatens the security of the homeland?  
...that [dogs](#) play a significant part in military programs? Dogs have been used in raids and are used in PTSD treatments.

- ...the DoD has [STEM](#) programs to raise awareness about science, technology, engineering, and mathematics in academia?
- ...DTIC is transforming into a technical organization to aid in [decision-making](#), rather than exclusively serving as a data repository?

### Live!

It's Live  
DoDTechSpace | DoDTechipedia | Defense Innovation Marketplace | Budget  
R&E Gateway  
DoDTechSpace by DTIC  
24 September 2013  
<https://www.dtic.mil>

DTIC is pleased to announce its launch of the Research & Engineering (R&E) Gateway, a secure site designed by DoD for the defense scientific & technical enterprise... [read more](#)

In the News: The Latest DoD S&T Research in News Media

FEEDBACK



# DoDTechipedia

**An interactive wiki for the federal govt. and DoD**

A site for collaboration and information sharing among the science and technology community that reaches across organizations to enable a more open information knowledge sharing experience

**A collaborative encyclopedia**

- A repository about scientific and technical issues
- Populated and edited by government personnel and contractors





# DoDTechipedia Access is Limited to:

- Active duty military
- DoD civilians
- DoD contractors
- Federal government employees
- Federal government contractors

Need a DTIC account to access DoDTechipedia and other DTIC products & services?

- Register at: <https://www.dtic.mil>





# Level of Discussion

- Discussion is limited to the unclassified DoD Distribution C level (U.S. government agencies and their contractors).
- No company proprietary information
- No DoD only information
- No export control information





# Access Through the R&E Gateway

<https://www.dtic.mil>

DoDTechSpace | **DoDTechipedia** | Defense Innovation Marketplace | Budget | IACs | Services | Search

My DTIC Account | Log out | **NEED HELP?**



**R&E Gateway**  
DoDTechSpace by DTIC

DODTechSpace  DTIC Collections

Welcome, Candace parker

Home Activity **Inbox** Actions Browse Links Create

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ANNOUNCEMENT: Welcome to DTIC's new entry point - the R&E Gateway. Looking for DOAC? Show Details

1 2 3

## The question

that motivates my research is,  
if we can put a man on the Moon  
with 100,000 people

Access through the R&E  
Gateway, <https://www.dtic.mil>

OR

<https://www.dodtechipedia.mil>

### Products

-  **DODTechipedia | SIPR**  
Add content and edit DoD's science and technology wiki.  
Visit the Defense Communities.
-  **Defense Innovation Marketplace**  
Analyze and connect with industry IR&D projects.
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Create charts and graphs from DoD research planning data.
-  **DoD Budget Tools**  
Review and analyze DoD research and engineering funding data.
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Access to analysis built on research, development, and operational experience.  
[Ask a Question.](#)
-  **Search**  
Find technical reports and projects from DTIC Collections and people and topics from the S&T Community.

Popular

Services



# DoDTechipedia Navigation

[DoDTechSpace](#) | [DoDTechipedia](#) | [Defense Innovation Marketplace](#) | [Budget](#) | [IACs](#) | [Services](#) | [Search](#)

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Navigate to other DTIC sites.

[Dashboard](#) > [DoDTechipedia](#) > [DoDTechipedia](#)

Use the breadcrumbs to go back a few pages.

**Content**  
[Tech Discovery](#)  
[Tech Challenges](#)  
[Organizations](#)  
[News and Events](#)  
[Countries](#)  
[Blogs](#)

Main navigation to content areas.

**Getting Started**  
[About Us](#)  
[Acronyms](#)  
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[Help](#)  
[Sandbox](#)

Help – FAQs – Tutorials – Sandbox for practicing



[In the News: The Latest DoD S&T Research in News Media](#)



# DoDTechipedia Navigation

DoDTechipedia DTIC Collections SEARCH

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Browse Candace parker

**Main Page**

**My Favorites**

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- Tech Discovery
- Tech Challenges
- Organizations
- News and Events
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- Blogs

**R&E Community**

- ASD(R&E)
- Defense Communities
- DoD Labs
- DTIC
- FFRDCs
- Other Communities
- UARCs

**Getting Started**

- About Us
- Acronyms
- Dictionary
- Help
- Sandbox

**People Finder**

Go

**DoDTechipedia**

431 Added by paluzsavn1234, last edited by Angela Davis on Sep 25, 2013 (view change)

**Share – Connect – Collaborate**

Post ideas, ask questions, make suggestions or share information with colleagues across the Department of Defense!

**DoDTechipedia Communities**

Looking for

- afmc
- Imperative2
- BlastMS
- Platforms
- IACS
- iactat
- ickr
- JT

If you're

**Did you know...**



awareness about science, academia?

- ...DTIC is transforming into a technical organization to aid in [decision-making](#), rather than exclusively serving as a data repository?

**Edit Invite Add Tools**

**Each wiki page includes**

- Content adding options and easy-to-use tools for connecting and collaborating
- Sidebar navigation menu – **New** – The size of this area is adjustable or can be hidden

**In the News: The Latest DoD S&T Research in News Media**



# DoDTechipedia Navigation

DoDTechipedia DTIC Collections SEARCH

Dashboard > DoDTechipedia > DoDTechipedia

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## DoDTechipedia

Edit

431 Added by paluzsavn1234, last edited by MEGANNE LEMON on Sep 27, 2013 (view change) show comment

### Share - Connect - Collaborate

Post ideas, ask questions, make suggestions or share information with colleagues across the Department

- Browse
- Candace parker
- Pages
- Blog
- Templates
- Labels
- Attachments
- Mail
- Forums
- Activity
- Advanced
- People Directory
- Space Directory
- Keyboard Shortcuts

Drop down menu that allows users to quickly search for a page, blog, attachment, or person within the site.



...that any device that doesn't require direct human interaction, unmanned vehicles have been employed by the DoD since the 1940s and 1950s?

...that dogs play a significant part in military programs? Dogs have been used in raids and are used in PTSD treatments.

...the DoD has STEM programs to raise awareness about science, technology, engineering, and mathematics in

## It's Live

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# Contributing Content

- Add/edit content to an existing page
- Start a new page with new content
- Attach a document to a page
- Attach internal links to documents and other wiki pages, or external links to websites
- Add a comment
- Post a blog response
- Create a personal space and add content





# Search for Existing Content

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  - Release Notes
  - Sandbox
- People Finder

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**DoDTechpedia** [Edit](#) [Invite](#) [Add](#) [Tools](#)

434 Added by [paluzsavn1234](#), last edited by [MEGANNE LEMON](#) on Oct 21, 2013 ([view change](#))

DTIC will be performing system maintenance on Thursday, 24 Oct 2013. The outage is scheduled for 0630-0730 EST. Users will be unable to login to DoDTechpedia or Defense Communities. If we can be of assistance, please contact 1-800-225-DTIC (3842) or email [ref@dtic.mil](mailto:ref@dtic.mil).

[Share](#) – [Connect](#) – [Collaborate](#)

Use the search box at the top of the page.  
**Note:** DoDTechpedia is selected.  
If you select DTIC Collections, your search will be executed in DTIC Search.

[Web 20 Policy Working Group](#)

FEEDBACK



# Search for Existing Content

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nanotech

- Nanotechnology DoDTechpedia
- The Greater Washington Nanotech Alliance DoDTechpedia
- Nanotechnology Blog DoDTechpedia
- Nanotechnology TFT DoDTechpedia
- S&T News - NANOTECHNOLOGY & MATERIA... Nanotechnology & Materials & Elec & Semiconductors
- S&T News - NANOTECHNOLOGY & MATERIA... Nanotechnology & Materials & Elec & Semiconductors
- Molecular\_nanotech\_ATAC\_32.pdf DoDTechpedia
- nanotechnews Nanotechnology & Materials & Elec & Semiconductors
- Nanotechnology & Materials & Elec & Semico... category
- Search for 'nanotech'

DoDTechpedia DTIC Collections

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- Begin typing your term in the search box, and an auto display will begin to appear.
- Continue typing and hit the enter key to see search results or select a topic during the auto display and go directly to that wiki page.

FEEDBACK

# Search for Existing Content

## Search Results Page

DoDTechSpace | DoDTechipedia | Defense Innovation Marketplace | Budget | IACs | Services | Search



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SEARCH

Dashboard > Search

Browse > Candace parker >

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nanotech

Search

Showing 1-10 of 456 for nanotech

### The Greater Washington Nanotech Alliance

The Greater Washington **Nanotech** Alliance This page is a stub. Please help by expanding it. The Greater Washington **Nanotech** Alliance <http://nanotechalliance.org> The **Nanotech** Alliance facilitates nanotechnology resource exchange, networking, development collaboration, and educational outreach activities between  
DoDTechipedia Feb 24, 2012

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3. [\[PDF\] The Pivotal Role and Current Status of Nondestructive Inspection Systems in the Maintenance of Aging Aircraft](#)  
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7. [The Pivotal Role and Current Status of Nondestructive Inspection Systems in the Maintenance of Aging Aircraft](#)  
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Accession Number : ADA576450

Title : A Nondestructive Inspection System for the Inspection of Wear Surfaces in Tank Track Shoes

Descriptive Note : Conference paper

Corporate Author : PHYSICAL ACOUSTICS CORP PRINCETON NJ

Personal Author(s) : Godinez-Azcuaga, Valery F. ; Finlayson, Richard D. ; Raju, Basavaraju B

Full Text : <http://www.dtic.mil/cgi-toc/dtccp?AD=ADA576450>

Report Date : 01 Jun 2004

Pagination or Media Count : 8

Abstract : In this paper we present a unique nondestructive inspection (NDI) system for inspection of Al/SiC metal matrix composite (MMC) inserts in cast aluminum tank track shoes (TTS). The system is based on two different nondestructive inspection methods, ultrasonics (UT) and eddy current (EC), which are capable of detecting and identifying defects in MMC, such as porosity, debonding, and cracking. This paper also discusses results obtained during inspections of Al/SiC MMC samples with different levels of porosity, and debonds using UT and EC inspection. The prototype version of the system is designed to perform an acceptance inspection after TTS manufacturing and before deployment. Other potential applications of this system are in the evaluation of complex MMC parts in the automotive industry.

Descriptors : \*METAL MATRIX COMPOSITES, \*NONDESTRUCTIVE TESTING, ALUMINUM, EDDY CURRENTS, POROSITY, SILICON CARBIDES, ULTRASONICS, VEHICLE TRACKS

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The R&E Gateway offers a collaborative environment, where DoD and industry partners, separated by geography, time and organization, can access and contribute information and data. Through these tools the S&T community can discover, create, and share current and past DoD science and technology advancements and investments as well as coordinate, integrate and optimize technology development efforts. Unless noted, all sites are open to DoD, Federal and contractor employees for broad collaboration.

### DoDTechSpace

A virtual collaboration environment for the community to engage in dialogue, create content, coordinate projects and connect with colleagues. It is a planning tool to coordinate, discuss, consolidate and track project data.

### Search

Quickly discover public and access controlled DoD research projects and documents, as well as people, places and content from the DoDTechSpace community on your topic of interest. You can save time and money by finding current or past research data and discussions related to your project or people with the needed expertise.

### DoDTechpedia

This collective wiki enables the sharing and updating of technology development information instantly by the community. Uncover the latest research updates or store and share your research data.

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- 1  **Defense Biometrics: Additional Training for Leaders and More Timely Transmission of Data Could Enhance the Use of Biometrics in Afghanistan** + ADD 2012-04-01

Lepore, Brian Schwartz, Marc Coleman, Grace Coyle, Mary D Agostino, Davi M. Ritter, Bethann E. Steele, Amie Tackill, Spencer Alley, Ashley Persons, Timothy Richardson, Terry Van Schaik, John Willems, Michael

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**Accession Number:** ADA561245

**PDF URL:** (pdf) - 820 KB - <https://www.dtic.mil/DTICOnline/downloadPdf.search?collectionId=tr&docId=ADA561245>

**Personal Author(s):** Lepore, Brian ; Schwartz, Marc ; Coleman, Grace ; Coyle, Mary ; D Agostino, Davi M ; Ritter, Bethann E ; Steele, Amie ; Tackill, Spencer ; Alley, Ashley ; Persons, Timothy ; Richardson, Terry ; Van Schaik, John ; Willems, Michael

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**Corporate Source Code:** 395537

**Report Date:** Apr 2012

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**Abstract:** ( U ) The collection of biometrics data, including fingerprints and iris patterns, enables U.S. counterinsurgency operations to identify enemy combatants and link individuals to events such as improvised explosive device detonations. GAO was asked to examine the extent to which (1) DOD's biometrics training supports warfighter use of biometrics, (2) DOD is effectively collecting and transmitting biometrics data, and (3) DOD has developed a process to collect and disseminate biometrics lessons learned. To address these objectives, GAO focused on the Army and to a lesser extent on the Marine Corps and U.S. Special Operations Command, since the Army collected about 86 percent of the biometrics enrollments in Afghanistan. GAO visited training sites in the United States, observed biometrics collection and transmission operations at locations in Afghanistan, reviewed relevant policies and guidance, and interviewed knowledgeable officials.

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3 **Use of a Hand-Portable Gas Chromatograph-Toroidal Ion Trap Mass Spectrometer for Self-Chemical Ionization Identification of Degradation Products Related to O-ethyl S-(2-diisopropylaminoethyl) Methyl Phosphonothiolate (VX)** [+ ADD](#)  
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Smith, Philip A. Jackson Lepage, Carmela R. Savage, Paul B. Bowerbank, Christopher R. Lee, Edgar D. Lukacs, Michael J.  
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#### CII RESEARCH AND DEVELOPMENT SEED FUND FOR TECHNOLOGY TRANSFER

Herklotz, Robert AIR FORCE OFFICE OF SCIENTIFIC RESEARCH ARLINGTON VA

2013-12-06

EF008067

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3



#### Use of a Hand-Portable Gas Chromatograph-Toroidal Ion Trap Mass Spectrometer for Self-Chemical Ionization Identification of Degradation Products Related to O-ethyl S-(2-diisopropylaminoethyl) Methyl Phosphonothiolate (VX)

Smith, Philip A. Jackson Lepage, Carmela R. Savage, Paul B. Bowerbank, Christopher R. Lee, Edgar D. Lukacs, Michael J. UNIFORMED SERVICES UNIV OF THE HEALTH SCIENCES BETHESDA MD DEPT OF PREVENTIVE MEDICINE AND BIOMETRICS

2011-01-01

ADA549901

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- antonacci, terence (1)
- herndon, christopher (1)
- lemnios, zachary (1)
- santa-ana, megan (1)
- santaana, stephen (1)
- wilson, valerie (1)

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3		<b>Mobile authentication for CAC, PIV cards could get easier</b> WILDER, ANGELA Likes: 3, Book Marks: 0, Views: 36, Comments: 3	05-23-2013	<a href="#">+ ADD</a>
4		<b>SantaAna, Stephen</b> Researcher / Analyst / Program / Policy Manager Federal Government Intel (DNI,CSS,NIC,NSA,etc.) Followers 4, Following 1, Comments: 0	02-04-2014	<a href="#">+ ADD</a>

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#### Turn Taking Based on Information Flow for Fluent Human-Robot Interaction

Santa-Ana, Megan

Likes: 1, Book Marks: 1, Views: 36, Comments: 2

04-24-2012

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#### Santa-Ana, Megan

Knowledge Manager (Librarian/Tech Info Specialist)

DoD: DTIC

Followers 41, Following 48, Comments: 0

02-04-2014

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#### Operations 2012 Navy Opportunity Forum Virtual Showcase

Santa-Ana, Megan

Likes: 0, Bookmarks: 0, Views: 12, Comments: 0

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- tanks
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#### Turn Taking Based on Information Flow for Fluent Human-Robot Interaction

Santa-Ana, Megan  
Likes: 1, Book Marks: 1, Views: 36, Comments: 2

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# Defense Innovation Marketplace

## DEFENSE INNOVATION MARKETPLACE



And Other DoD Agencies

- HOME
- RESOURCES
- FAQs
- NEWS & EVENTS
- ABOUT
- CONTACT US

## CONNECTING INDUSTRY & DoD

The Defense Innovation Marketplace is a centralized resource to reinvigorate innovation.

**For Industry**, the Marketplace is a resource for information about Department of Defense (DoD) investment priorities and capability needs.

**For Government**, the Marketplace provides access to search tools to assess and then leverage industry IR&D projects for current and future programs.

Featured Document

2014 DIA Innovation Strategic Plan  
Learn about the innovation environment across the Defense Intelligence Enterprise

### INNOVATION OPPORTUNITIES

#### Resources for Industry

DoD Info for Business & Program Planning



#### Submit IR&D Data

Share projects with DoD Customers



#### Resources for DoD

DoD employee access of IR&D Search tool



## NEW IN THE MARKETPLACE

### Strategic Documents

- 2015 Defense Budget Priorities
- 2014 Quadrennial Defense Review
- Combatant Command 2014 Testimony
- Keeping Technology Programs Alive

### Doing Business with DoD

- Air Force Source Multiple Integrated Radio Frequency Sources Sought **\*\*NEW\*\***
- DARPA Distributed Battle Management Program DM **\*\*NEW\*\***

### News & Events

- Top Downloads February **\*\*NEW\*\***
- Army Technology Magazine
- Defense AT&L Magazine
- Army Tactical Network Industry

### FEEDBACK

#### Search Trends



#### What did you Miss?

Top Marketplace pages and





# Defense Innovation Marketplace

DEFENSE INNOVATION MARKETPLACE

Gov't User Portal | New Search | **Results** | Reports | Dashboard | Send Feedback

**Your Query** 0  
lightsabers  
Search Reset

Refine your search

Database ▾  
 IR&D

Defense Technology Area ▾

DTA Subarea ▾

Fiscal Year All ▾

Approximate Industry Expenditures  
From \$0 To \$

TRL

Keywords

**Projects** Companies Overview

**Projects:** Companies: Total Approximate Industry Expenditures:  
This is a mock up slide for training purposes only. Proprietary information has been blocked.

Export All Summaries Sort By ▲ Relevancy Title Company FY Date Database TRL Approx Ind Exp Status

Showing 1 to 10 of 442 entries Results Per Page 10  
First Previous 1 2 3 4 5 Next Last

	Project Title	COMPANY NAME
1	...snippet text, snippet text...	2013 11/12/2013 IR&D TRL 4 New Start
2	Project Title ...snippet text, snippet text... Documents Document Title	2013 01/09/2014 IR&D TRL 3 New Start
3	Project Title ...snippet text, snippet text... Documents Document Title Document Title Document Title	2012 12/31/2013 IR&D TRL 2 Completed
4	Project Title ...snippet text, snippet text... Documents Document Title	2012 12/04/2012 IR&D TRL 4 New Start

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# Defense Innovation Marketplace

## DEFENSE INNOVATION MARKETPLACE

Gov't User Portal | New Search | **Results** | Reports | Dashboard | Send Feedback

**Your Query** lightsabers

Search [Reset]

**Refine your search**

Database  IR&D

Defense Technology Area

DTA Subarea

Fiscal Year All

Approximate Industry Expenditures

From To

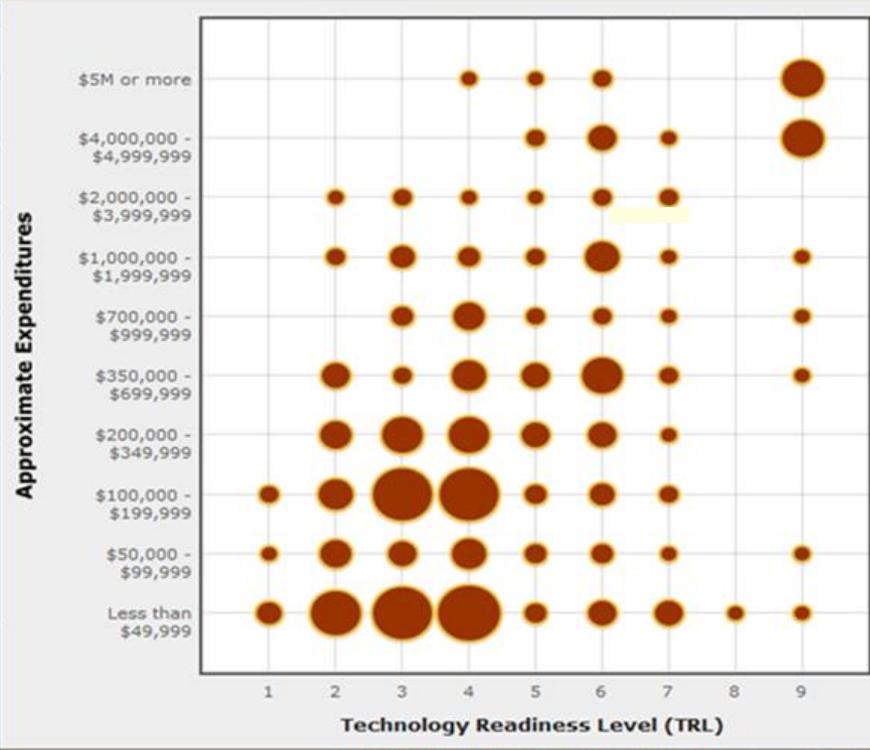
TRL

Keywords

Projects Companies Overview

Projects: Companies: Total Approximate Industry Expenditures: \$

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Points shown are Projects

Show Matching Projects



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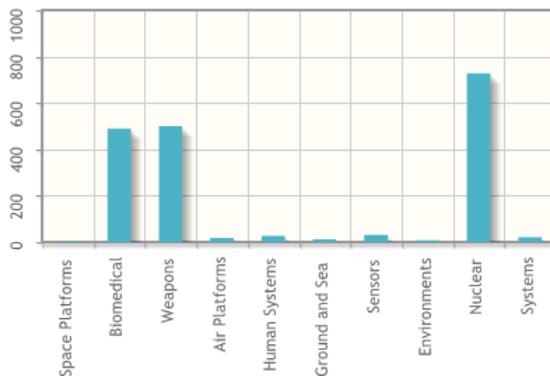
# Defense Innovation Marketplace

<http://www.defenseinnovationmarketplace.mil/SearchTrends.html>

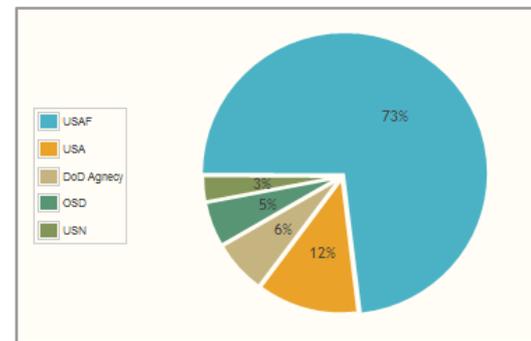
## Search Trends - DoD Users [BETA]

Statistics generated by DoD User searches of the industry IR&D projects database during January 2014

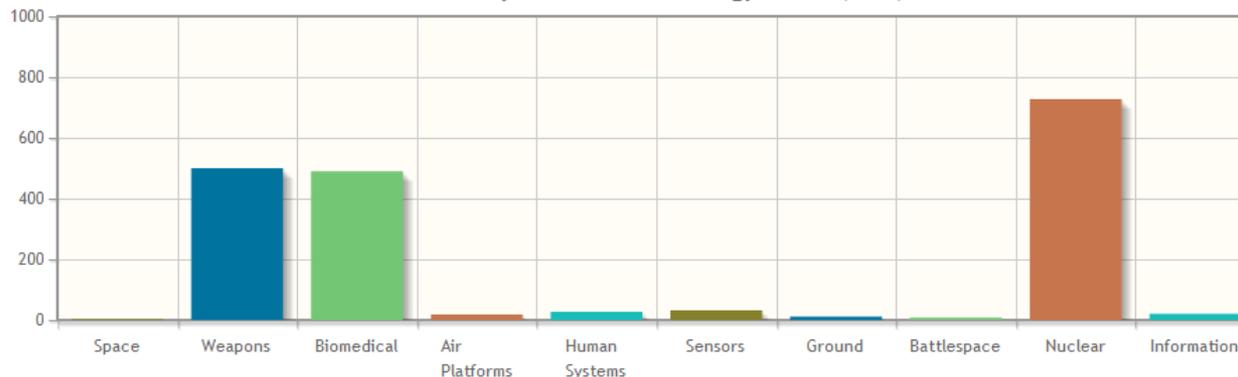
### What's Trending



### Who's Searching



### Searches By Defense Technology Areas (DTA)





# Future

- Index additional content
- Create links between budget, projects, documents
- Save search settings
- Save multiple lists
- Offer graphical display of results
- Leverage usage statistics



# Challenges with Google

- Variant term order finds different results
- Supports some Boolean and nesting, but only in field searches
- Partially supports truncation and wildcards
- Number of results and numbers on navigators are all estimates
- Limited to 1,000 results
- Relevancy algorithm based on linking pages
- It is a black box



# Benefits of Google

- It is a black box
- Fast search results
- Very little down time
- Vendor is responsive to some enhancement requests



**QUESTIONS?**



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