



Department of Defense Independent Research & Development (IR&D) and the Defense Innovation Marketplace

**NDIA Annual Systems Engineering Conference
October 30, 2013**



Better Buying Power on Independent Research & Development (IR&D)



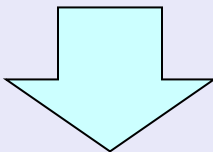
Improve alignment and transition success of IR&D investment

PROGRAMS

Leverage IR&D into specific programs

Industry, S&T/R&D and ACQ PMs

Technology Insertion



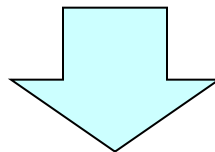
Creating options for the future & tech maturity for program insertion

COMPONENTS

Assessment of Component S&T and Industry IR&D to support capabilities for core missions

**Industry Division Leaders
Component S&T/R&D Execs
Acquisition Professionals**

Strategic Planning



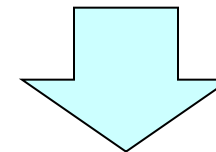
Inform S&T & ACQ investment portfolios

OSD

*Reinvigorating innovation
Protect and expand the
Defense Industrial Base*

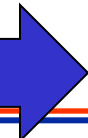
**CEOs
Industry Associations
USD(AT&L)
ASD(R&E)
DASD(M&IBP)
DASD(Research)**

Setting Policy



Improve warfighter technical capabilities

IR&D INITIATIVE – leverage actionable data to support research and development planning





Defense Innovation Marketplace

Connecting Industry and DoD

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. Additionally, industry uses this site to submit proprietary IR&D summary reports which are separately stored, accessed and used solely for compliance with the Defense Federal Acquisition Supplement at 48 CFR 231.205-18(c)(iii)(C).

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

NEW IN THE MARKETPLACE ←

Strategic Documents	Doing Business with DoD	News & Events
<ul style="list-style-type: none"> Science and Technology Priorities for the FY 2015 Budget CNO's Navigation Plan 2014-2018 MDA Space & Missile Brief MURI Program Review Presentations Posted DISA Forecast to Industry Day 2013 	<ul style="list-style-type: none"> Development & Demo of Low Observable Technologies **NEW** In-Process Monitoring for Additive Manufacturing **NEW** Autonomy & Collaborative Ops for Unmanned Systems **NEW** Gov't/Univ. Coop in support of Basic and Applied Research and 	<ul style="list-style-type: none"> Air Force Lifecycle Management Center Meeting with Industry Defense Daily's Open Architecture Summit RIF Awards FY2012 Top Downloads in August AFOSR Basic Research Small Business Interchange Day

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

FEEDBACK

Search Trends

What did you Miss?
Top Marketplace pages and downloads.

TECHNOLOGY INTERCHANGES



Defense Innovation Marketplace

Resources for Industry

DEFENSE INNOVATION MARKETPLACE



And Other DoD Agencies

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

Home > Industry Resources >

Industry Resources

The Defense Innovation Marketplace is your one-stop source for Department of Defense (DoD) science and technology (S&T) planning, acquisition resources, funding and financial information. Please let us know what other Department materials would be useful to post on the Marketplace so that industry can plan it's IR&D Investments at (comments@defenseinnovationmarketplace.mil).

- Follow us on Twitter
- Subscribe to RSS feed updates

Have a DoD Activity You want to Feature on the Marketplace? [Click here](#)

Strategic Overview

- US S&T Priorities**
 - Science and Technology Priorities for the FY 2015 Budget
 - Science, Technology & Innovation For National Security
- Featured Testimony and Remarks**
 - USAF Space Budget 2014
 - ASD(R&E) Laboratories Testimony 2013
 - Equipping the Modern Marine
 - Equipping the Modern Soldier
 - FY14 S&T Testimony

- Service Priorities & Strategic Documents (continued)**
 - Air Force
 - AF Capability Requirements Driving S&T
 - Global Horizons - Science and Technology Vision
 - AF Simulators Division Advance Planning Briefing
 - Air Force Technology Horizons 2010-2030
 - USAF Posture Statement 2013

Doing Business with DoD

- All Resources by Organization**
 - Army
 - Navy
 - Air Force
 - USMC
 - Combatant Commands (CCMDs)
 - Other DoD Agencies/DoD Offices
 - DoD Basic Research
 - DoD Laboratories
 - Federally Funded Research and Development Centers and University Affiliated Research

- Special Initiatives**
 - Joint Service Human Systems IR&D Events
 - Interagency Working Group - Complex Engineering

- DoD Research and Technology Funding Opportunities**
 - Federal Business Opportunities
 - DoD Research and



Defense Innovation Marketplace

Inter-Agency Working Group Resource Page

DEFENSE INNOVATION MARKETPLACE



And Other DoD Agencies

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

Home > Industry Resources > IAWG >

Interagency Working Group (IAWG) for Engineering of Complex Systems

The Interagency Working Group (IAWG) is a multi-agency group that is led by a number of Government thought leaders who are jointly addressing the critical problems in engineering highly complex systems. The purpose of the Group is to [develop and foster a common vision for solutions](#).

Vision:

A world in which large, technologically pathbreaking engineering projects are undertaken regularly, are almost always successful, and are routinely accomplished on time and within budget.

Mission of the IAWG:

Define the way forward for the US Government to achieve essential transformations in engineering practice. Those transformations will address effectiveness, affordability, timeliness and adaptability challenges posed by current and future technologically sophisticated systems, through tools and approaches grounded in fundamental scientific and mathematical principles. The path forward will re-define how we design, develop, and deliver systems as a social as well as technical activity, making it possible to re-frame the entire lifecycle of systems in ways that significantly enhance value and effectiveness.

Why is this important?

The IAWG will articulate goals and directions across Government, enabling Industry and Academia to see where investment in systems engineering research will best impact engineering productivity, practice and training. Ultimately, the IAWG will frame the fundamental challenges in transforming systems engineering, and will create an

More Resources

- [Federal Business Opportunities](#)
- [All Industry Resources](#)
- [Army Resources](#)
- [Navy Resources](#)
- [Air Force Resources](#)
- [USMC Resources](#)
- [DoD Basic Research Office](#)
- [Announced Army, Navy, & OSBP FY12 Rapid Innovation Fund BAAs](#)
- [2011 Rapid Innovation Fund Awards](#)
- [Other DoD Resources](#)
- [DoD Research and Technology Opportunities](#)

Feedback is welcome → comments@defenseinnovationmarketplace.mil



Defense Innovation Marketplace



Resource Page by Service: Navy

- Naval Operational Energy Requirements
- Naval S&T Strategic Plan
- US Navy's Vision for Confronting Irregular Challenges
- US Pacific Command Strategy
- 21st Century Naval Amphibious Capability
- Sailing the Great Green Fleet

Testimony

- Navy RDT&E FY14 Testimony
- Navy FY14 S&T Testimony
- Digital Warrior: Improving Military Capabilities in the Cyber Domain

Office of Small Business

- Navy Office of Small Business
- ONR Office of Small Business
- NRL Office of Small Business

Small Business Acquisition Resources

- MSC
- NAVAIR
- NAVAIR NAWCTSD
- NAVFAC
- NAVSUP
- NAVSUP WSS
- SPAWAR
- SSP
- USMC I&L

Space and Naval Warfare Center Systems Centers

- Atlantic Division
- Pacific Division

Open Solicitations

- Federal Business Opportunities
- DoD Research and Technology Opportunities

Requests For Information/ Proposals (RFIs/RFPs)

- Navy and Marine Corps Long-range Science and Technology ****NEW****
(Closes 9/30/2014)
- High Power Radio Frequency Technologies for Naval Applications RFI ****NEW****
(Closes 12/6/2013)
- Gov't/Univ. Coop in support of Basic and Applied Research and Educational Programs
(Closes 9/5/2014)
- Naval Warfare and Weapons BAA
(Closes 7/24/2014)
- NRL-Wide BAA
(Closes 7/7/2014)
- Next Generation Jammer Increment II Subsystem
(Closes 10/30/2013)
- Spectral and Reconnaissance Imagery for Tactical Exploitation Presolicitation
(Closes 10/14/2013)
- Exchange of Information at the Tactical Edge
(Closes 10/9/2013)
- Gas Turbine Upgrades for Reduced Total Ownership Cost & Improved Ship Impact RFI
(11/15/2013)
- Submarine and Surface Combat System Signal Processing BAA

Industry uses these pages to discover what R&D efforts Navy needs...

...and how Navy wants it....



Defense Innovation Marketplace: Industry Resources



Improve Industry Understanding of DoD Needs

DEFENSE INNOVATION MARKETPLACE

HOME RESOURCES FAQs NEWS & EVENTS ABOUT CONTACT US

CONNECTING INDUSTRY & DoD

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- Resources for Industry**
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- Submit IR&D Data**
Share projects with DoD Customers
- Resources for DoD**
DoD employee access of IR&D Search tool

FEEDBACK

- Search Trends**
- What did you Miss?**
Top Marketplace pages and downloads.

TECHNOLOGY INTERCHANGES

www.DefenseInnovationMarketplace.mil

Marketplace: Resources for Industry

- DoD Roadmaps; Investment Strategy
- Business Opportunities with the DoD
- Virtual Interchanges & Events
- Secure Portal for DFARS Compliance
- Top Downloads/Pages visited
- DoD SEARCH Trends

DEFENSE INNOVATION MARKETPLACE

SEPTEMBER MARKETPLACE FEATURES

What Documents are Hot? Which Pages are the most helpful?
Explore Marketplace's most frequently downloaded strategic plans, presentations and reports to see what you might be missing. (Top features based on user feedback from September)

Return to the Marketplace Homepage

WHAT'S NEW IN THE MARKETPLACE
The marketplace is featuring new business links with the Defense Intelligence Agency (DIA). Check out these links and their 2013 Innovation Strategic Plan
 Defense Intelligence Agency Innovation
 DIA Industry Interaction Program
 DIA Small Business Programs

TOP DOWNLOADED DOCUMENT:
U.S. Air Force Energy Strategic Plan
Read More

OTHER TOP DOWNLOADED DOCUMENTS

TOP VIEWED MARKETPLACE PAGES

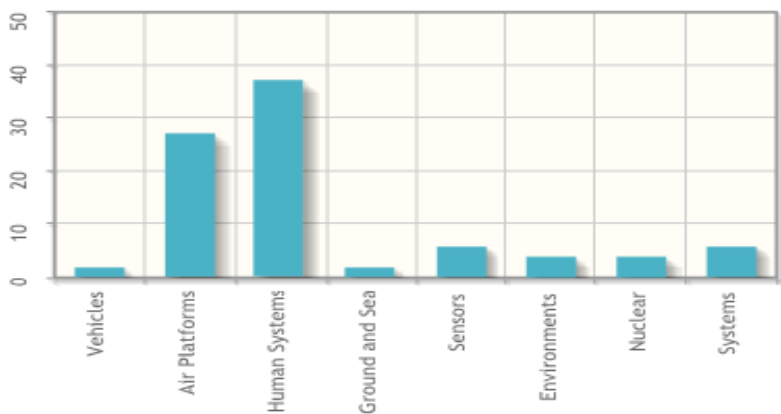


New Feature: DoD Search Trends

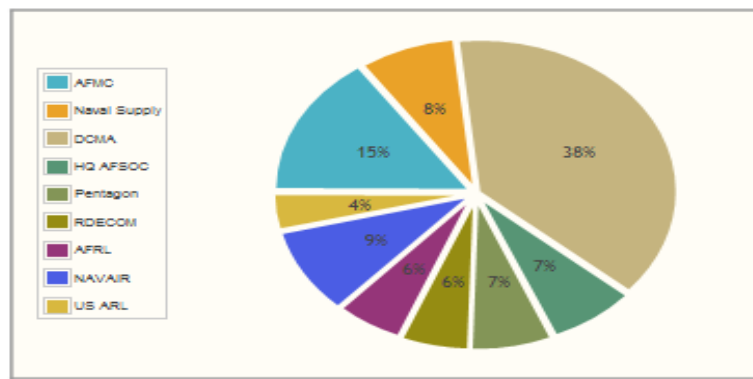
Search Trends - DoD Users [BETA]

Statistics generated by DoD User searches of the industry IR&D projects database during September 2013.

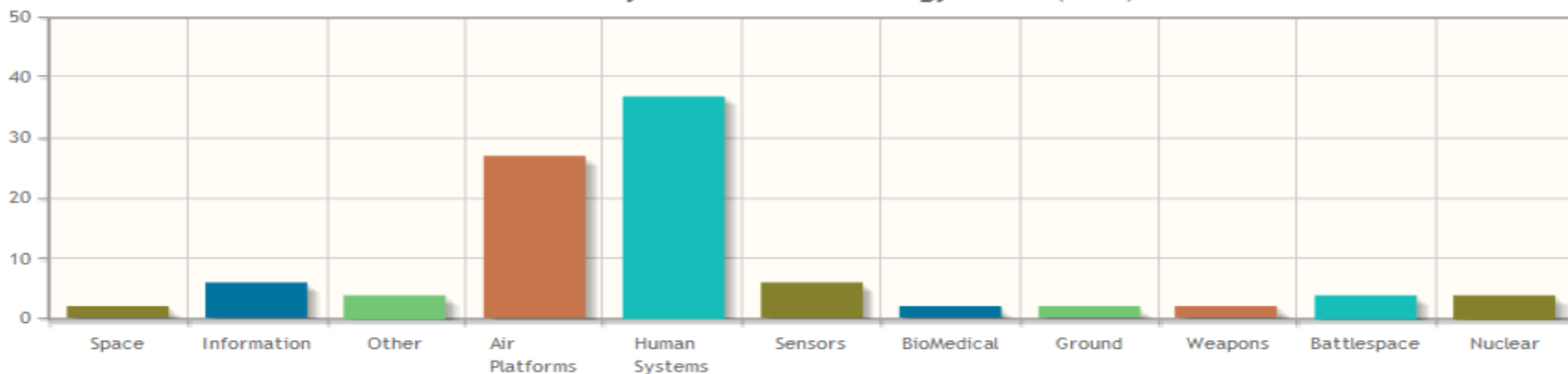
What's Trending



Who's Searching



Searches By Defense Technology Areas (DTA)





Independent Research and Development (IR&D)



Defense Innovation Marketplace: Resources for DoD



New Search Feature: Secure Access to Industry IR&D Projects for Government S&T and Acquisition Personnel

DEFENSE INNOVATION MARKETPLACE

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

Search

Which Database?

- Independent Research and Development (IR&D)
- Human Systems (HS) Technology Interchange
 - HS IR&D
 - HS Contract Research And Development (CRAD)
 - HS Multidisciplinary University Research Initiative (MURI)
 - HS Small Business Innovation Research (SBIR)
 - HS Rapid Innovation Fund (RIF)

Results Format?

- Projects:** Projects ordered by relevance to query.
- Companies:** Companies that submitted projects related to query.
- Overview:** Queries the full-text search engine and presents results graphically, allowing an overview of relevant/matching projects or companies relationally by various parameters

Search

This is a Beta version of the IR&D Search. Updates to the functionality will be ongoing.

[Privacy & Security](#) | [Acrobat](#) | [Recovery Act](#) | [FOIA](#) | [USA.gov](#) | [No Fear Act](#) | [Web Policy](#) | [About DoD](#)

Marketplace: Resources for DoD

- Secure portal with 8,000+ IR&D Project Summaries
- Access for DoD R&D and Acquisition Professionals
- DoD Searchers encouraged to contact the Industry POC listed on project summaries of interest

Government Only Access



DoD Dashboard



DEFENSE INNOVATION MARKETPLACE

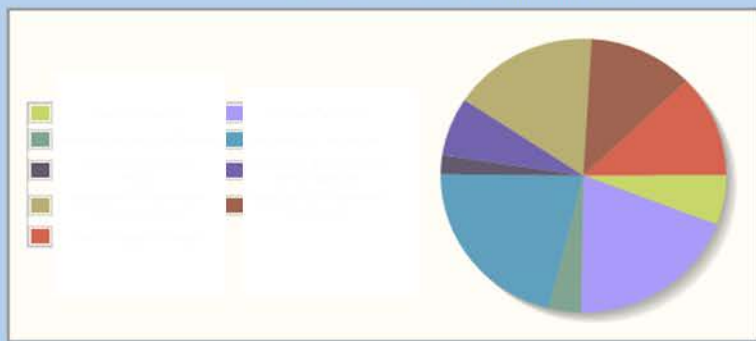
Gov't User Portal | New Search | **Dashboard**

| [Dashboard](#) | [Send Feedback](#) |

COMPANY PROPRIETARY DATA: Warning - This Data May be Subject to Export Control

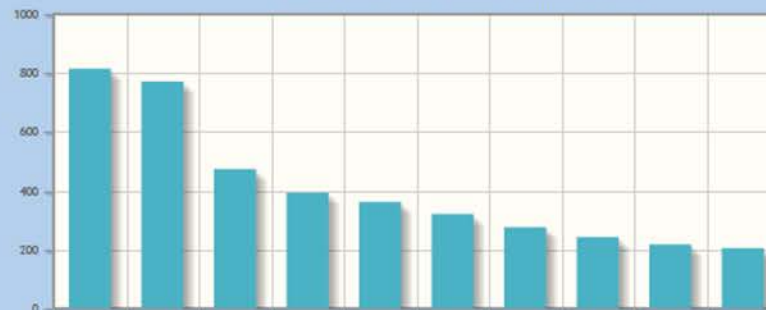
Projects by Technology Readiness Level

(Mouse over chart slices for additional info)



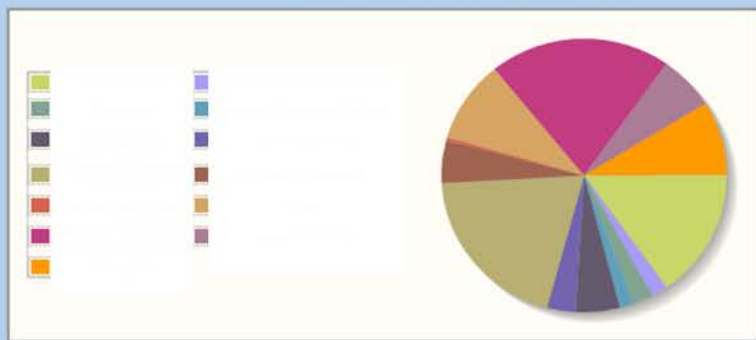
Projects by Company

(Mouse over chart bars for additional info)



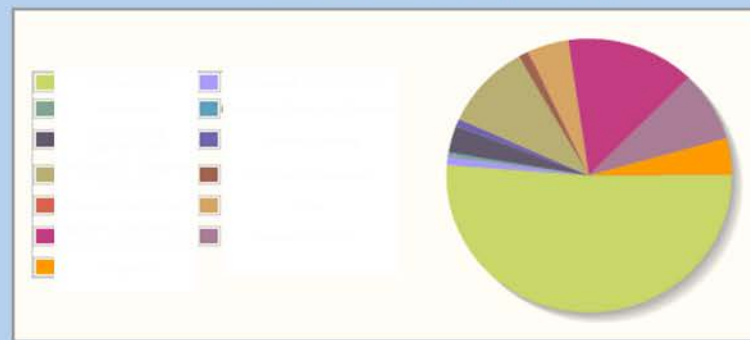
Projects by Defense Technical Area

(Mouse over chart slices for additional info)



Industry's "Approximate Funding" Totals by DTA

(Mouse over chart slices for additional info)



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SEARCH RESULTS: Projects View



DEFENSE INNOVATION MARKETPLACE

Gov't User Portal > New Search > **Results** | [Dashboard](#) | [Collaborate](#) | [Send Feedback](#)

Your Query: **Projects** Companies Overview

Projects: 1162 of 1224 Companies: 23 of 24 Total Funding: \$86.61B of \$86.66B

COMPANY PROPRIETARY DATA: Warning - This Data May be Subject to Export Control
 Your search returned too many results. Please refine your search to improve accuracy of results.
 Shown totals are calculated from the most relevant results and might be inaccurate.

Export All Summaries Sort By Relevancy Title Company Date Database TRL Total Funding Status

Filter: Showing 1 to 10 of 1,162 entries Results Per Page 10

Item	Company	Date	IR&D	TRL	Total Funding	Status
1 test only please ignore IRAD test test test P 12001647 1653 62657 : 8802 ...	COMPANY A	Apr 22, 2013	IR&D	TRL 1	\$10M	Completed
2 ActiveContent IRAD TEST TEST TEST P 12001645 1651 27410 27410 DIV ...	COMPANY B	Apr 11, 2013	IR&D	TRL 6	\$177K	New Start
3 K2013032901 IRAD KORETEST KORETEST - NO FILE UPLOADED KORETEST P 12001640 1646 06892	COMPANY C	Mar 29, 2013	IR&D	TRL 1	\$1K	New Start
4 K2013032901 IRAD KORETEST KORETEST - NO FILE UPLOADED KORETEST P 12001639 1645 06892	COMPANY C	Mar 29, 2013	IR&D	TRL 1	\$1K	New Start
5 K2013032901 IRAD KORETEST KORETEST - NO FILE UPLOADED KORETEST P 12001638 1644 06892	COMPANY C	Mar 29, 2013	IR&D	TRL 1	\$1K	New Start
6 K2013032901 IRAD KORETEST KORETEST - NO FILE UPLOADED KORETEST P 12001637 1643 06892	COMPANY C	Mar 29, 2013	IR&D	TRL 1	\$1K	New Start

Total Funding (\$K) From \$0K To \$3423101K

TRL

Keywords



SEARCH RESULTS: Companies View



DEFENSE INNOVATION MARKETPLACE

Gov't User Portal > New Search > Results | Dashboard | Collaborate | Send Feedback |

Your Query: []

Projects: 1162 of 1224 | **Companies: 23 of 24** | Total Funding: \$86.61B of \$86.66B

COMPANY PROPRIETARY DATA: Warning - This Data May be Subject to Export Control

Refine your search

Database: IR&D

Defense Technology Area: []

DTA Subarea: []

HS DTA Subarea Keywords: []

HS Technology Gap: []

Fiscal Year: All

Total Funding (\$K): From [] To [] \$3423101K

TRL: []

Keywords: []

Showing 1 to 10 of 23 entries

NORTHROP GRUMAN SYSTEMS CORPORATION

Relevancy	Company	Num Projects	TRL Chart	Expenditures
1	COMPANY A	16		\$35.846M
2	COMPANY B	33		\$2.985M
3	COMPANY C	84		\$2.510M
4	COMPANY D	6		\$28.091M
5	COMPANY E	12		\$25.3M
6	COMPANY F	65		\$854K
7	COMPANY G	2		\$5.844M
8	COMPANY H	141		\$386K
9	COMPANY I	1		\$4.75M
10	COMPANY J	9		\$2.849M



SEARCH RESULTS: Single Project



Your Query
12001598

Refine your search

Database
 IR&D

Year All

Defense Technology Area

DTA Subarea

DTA Subarea Keywords
[System Interfaces and Cognitive](#)
[Human, Social, and Cultural Scien](#)
[Personnel, Training, and Leader D](#)
[Protection, Sustainment, and Phys](#)

Technology Gap
[Interface Technology](#)
[Training Technology](#)

Total Funding (\$K)
From To
\$0K \$500K

TRL
1 2 3 4 5 6 7 8 9

Keywords
 gadgets (1)

Projects | Companies | Overview

Projects: 1 of 1204 **Companies:** 1 of 22 **Total Funding:** \$500K of \$86.65B

[Back to Projects](#)

HYGIE-TECH USA PROPRIETARY DATA
Warning - This Report May be Subject to Export Control

TITLE: This is a fake record **Type:** IR&D **YEAR:** 2012

Summary
Chinese manufacturer Huawei's flagship Ascend P2 smartphone can be operated by users wearing gloves. It's just one of the innovations on display at year's Mobile World Congress -- a showcase of gadgets and gizmos that will allow us to wave goodbye to dying batteries, water damage and a whole range of perilous situations that dare to threaten the lives of our beloved mobile phones.

IR&D Record Number: 12001598	Tech Readiness Level: 4 - Laboratory Validation
Project Number: 135-246	Primary Defense Tech Area/Sub-Area: Information Systems Technology/Information Security
Status Of Effort: New Start	
Anticipated Expenditures: \$500K	

Attachments
[DTA.docx](#) - 21.21 KB

Technical Point(s) of Contact
Taitum Asher, tasher@gmail.com, 234-123-3456

Contact information is provided – you can make a connection...

Target DoD Agencies
DA - Army
DAF - Air Force
MDA - Missile Defense Agency
USMC - United States Marine Corps

Performing Organization Cage Code: 6EN03 HYGIE-TECH USA 125 WOLF RD ALBANY, NY 12205	Parent Organization Cage Code: 6EN03 HYGIE-TECH USA 125 WOLF RD ALBANY, NY 12205
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Keywords
gadgets, gizmos, smartphone, water damage, mobile phones

Project Description:
The best way to inform government users of the technical specifics of your project is to explain the objective and technical approach. This should not be a detailed technical report but an abstract. Two options are provided to accommodate different document formats. You may enter technical data directly in the Project Description section or by uploading files in the Project Document(s) section. You are required to enter information in at least one of these sections. The best way to inform government users of the technical specifics of your project is to explain the objective and technical approach. This should not be a detailed technical report but an abstract. Two options are provided to accommodate different document formats. You may enter technical data directly in the Project Description section or by uploading files in the Project Document(s) section. You are required to enter information in at least one of these sections.

HYGIE-TECH USA PROPRIETARY DATA
Warning - This Report May be Subject to Export Control

Your Query

- Projects
- Companies
- Overview**
- Database Overview
- Acquisition Planning

Projects: 287 of 4016

Companies: 24 of 71

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Search More Options

Refine your search

Category Type (clear)

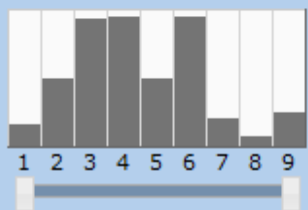
- Human Systems CRAD Project
- Human Systems IRAD Project
- Human Systems MURI
- Human Systems RIF
- Human Systems SBIR
- IRAD Project

Total Funding (\$K)

From To
 \$0K \$185776K

Year All

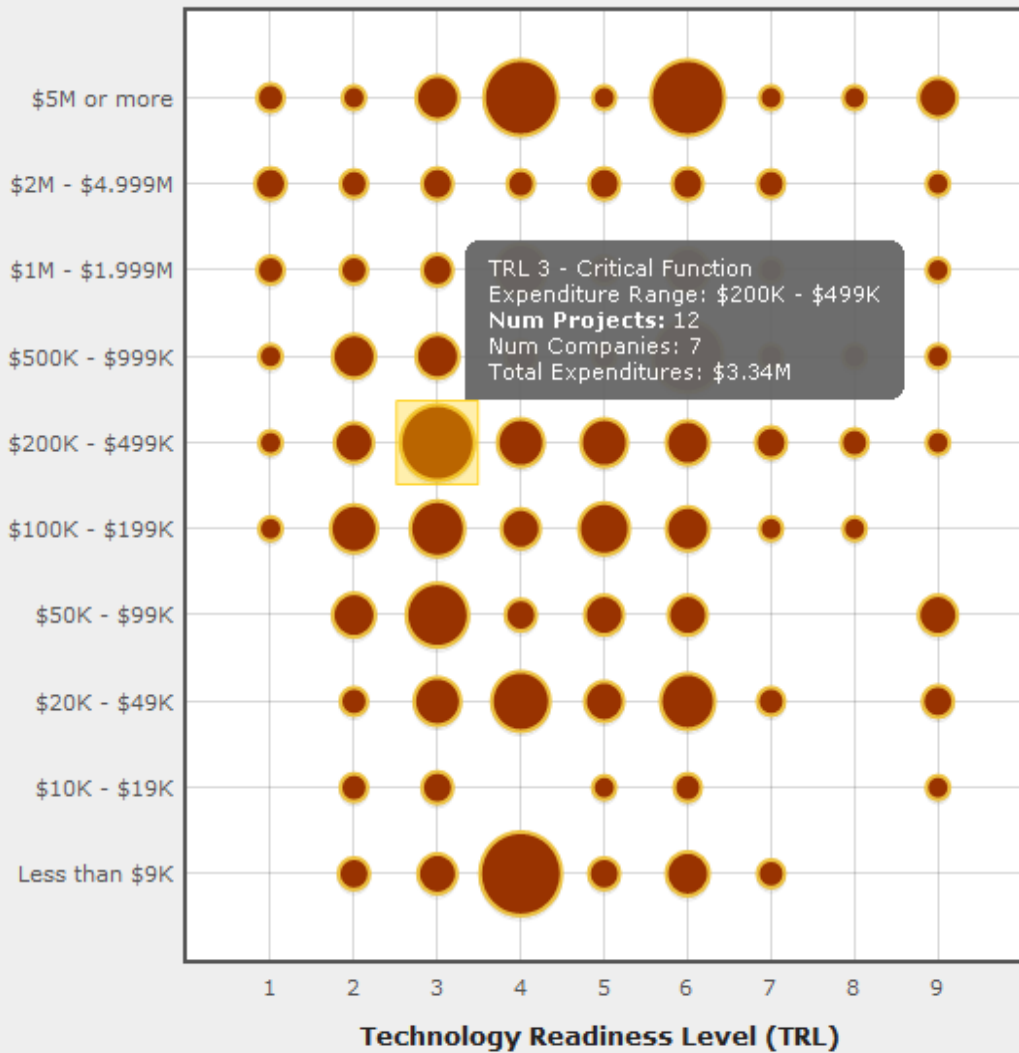
TRL



Keywords

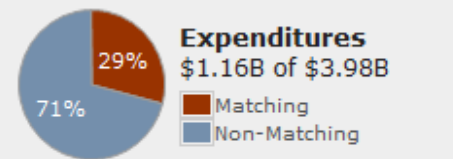
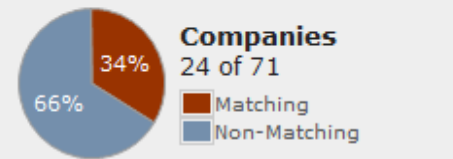
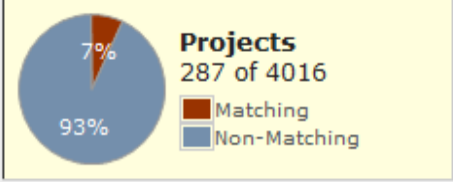
- propulsion (29)
- advanced concepts (7)
- gas turbine engine (10)
- turbofan (7)
- engineering and propulsion (6)

Anticipated Expenditures



Points shown are Projects

Show Matching Projects



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Access the Marketplace



Industry:

- Use the Marketplace to learn about key DoD S&T and R&D roadmaps, solicitations, events
- Input your IR&D project summaries in the secure portal – improve the visibility of your efforts (<http://www.defenseinnovationmarketplace.mil/industry.html>)

DoD:

- Ensure that Marketplace has current data / links to DoD S&T and R&D needs to meet DoD technology capability needs
- DoD Chief Engineers, Systems Engineers, PEOs, PMs, Scientists, R&D and Acquisition professionals may request access to the secure portal on the IR&D/Marketplace to improve market knowledge of R&D activities
(<http://www.defenseinnovationmarketplace.mil/government.html>)

Feedback about documents, the Marketplace, tools, etc. is appreciated!



Jaymie Durnan

IR&D Lead

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703.697.1856

Defense Innovation Marketplace

www.DefenseInnovationMarketplace.mil

Twitter: @DoDIInnovation



IR&D Definition



- An “Independent Research and Development” (IR&D) project is defined as an “R&D effort that is neither sponsored by a grant, nor required in performing a contract, and which falls under any of the following four areas: Applied research, Basic research, Development, and Systems and other concept formulation studies.”
- Costs for IR&D are allowable as indirect expenses (normally a part of the contractor’s G&A expenses) on contracts to the extent they are allocable and reasonable.
- DoD reimburses industry for approximately \$3B of their Independent Research & Development (IR&D) costs annually.
- This is one of the department’s principal investments in technology innovation, larger than any single military department’s annual RDT&E 6.1-6.3 program.
- DoD needs better access to industry IR&D to make better use of this investment in our RDT&E and acquisition programs to better exploit and promote transition of industry-developed innovation.
- We need to work with industry to identify and eliminate impediments to innovation, provide better feedback to industry researchers, and better define the department’s needs to our industry partners.