Wisconsin Procurement Institute

An APEX Accelerator

Emerging Issues:

From SBIR/STTR to DPA Title III – An Overview of Federal Innovation Programs, Needs and Marketplace

February 29| 11:00 am – Noon

Presented by:

Marc Violante, WPI

NCMA NATIONAL CONTRACT MANAGEMENT ASSOCIATION WISCONSIN

Webinar Etiquette

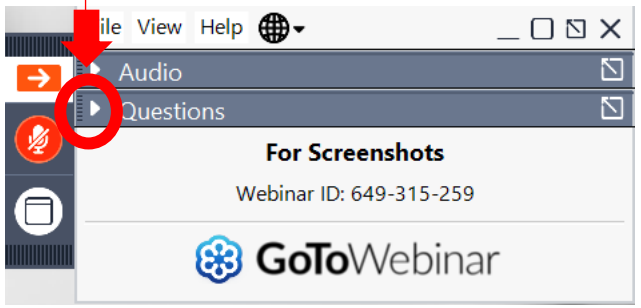
PLEASE

- Log into the GoToWebinar session with the name that you registered with online
- Place your phone or computer on MUTE
- Use the QUESTIONS option to ask your question(s).
  - We will share the questions with our guest speaker who will respond to the group

THANK YOU!

OPENING THE QUESTIONS BOX

Click here to access within the Control Panel



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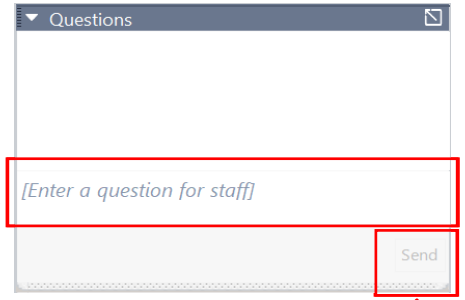
Type questions here at any time during a presentation



Click Send when ready to submit a question

Wisconsin Procurement Institute

An APEX Accelerator

Assisting Wisconsin businesses compete in the government marketplace.

WPI is Wisconsin's APEX ACCELERATOR

The APEX Accelerators program, under management of the Department of Defense (DOD) Office of Small Business Programs (OSBP), plays a critical role in the Department's efforts to identify and engage with a wide range of businesses entering and participating in the defense supply-chain. The program provides the education and training that all businesses need to participate to become capable of participating in DOD and other government contracts.

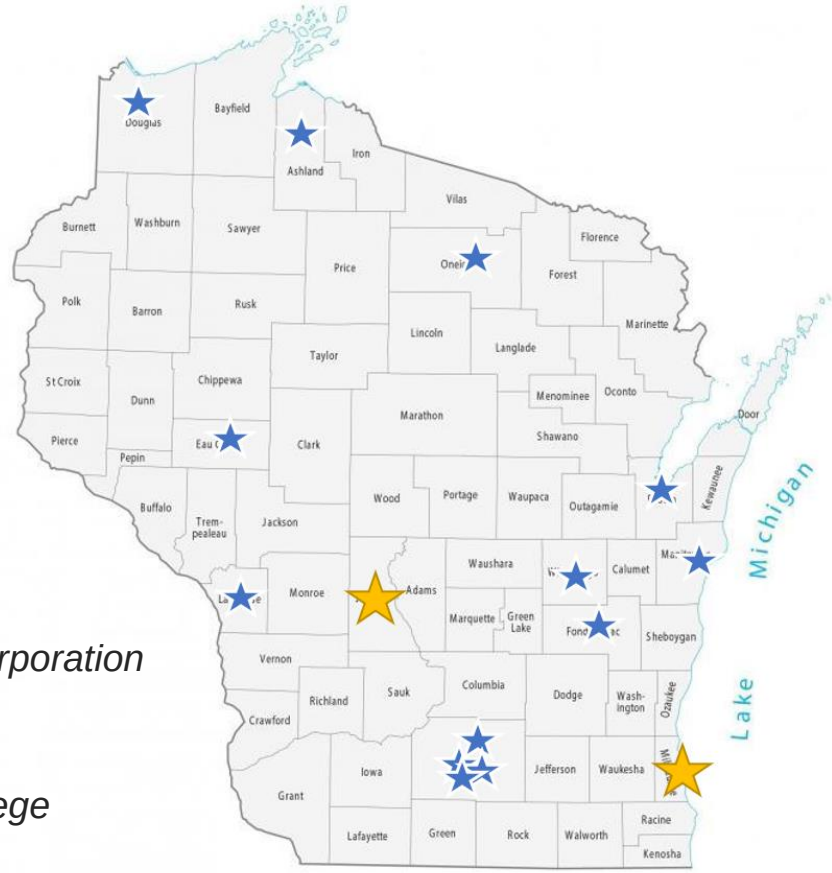
WPI provides services to all of Wisconsin's 72 counties

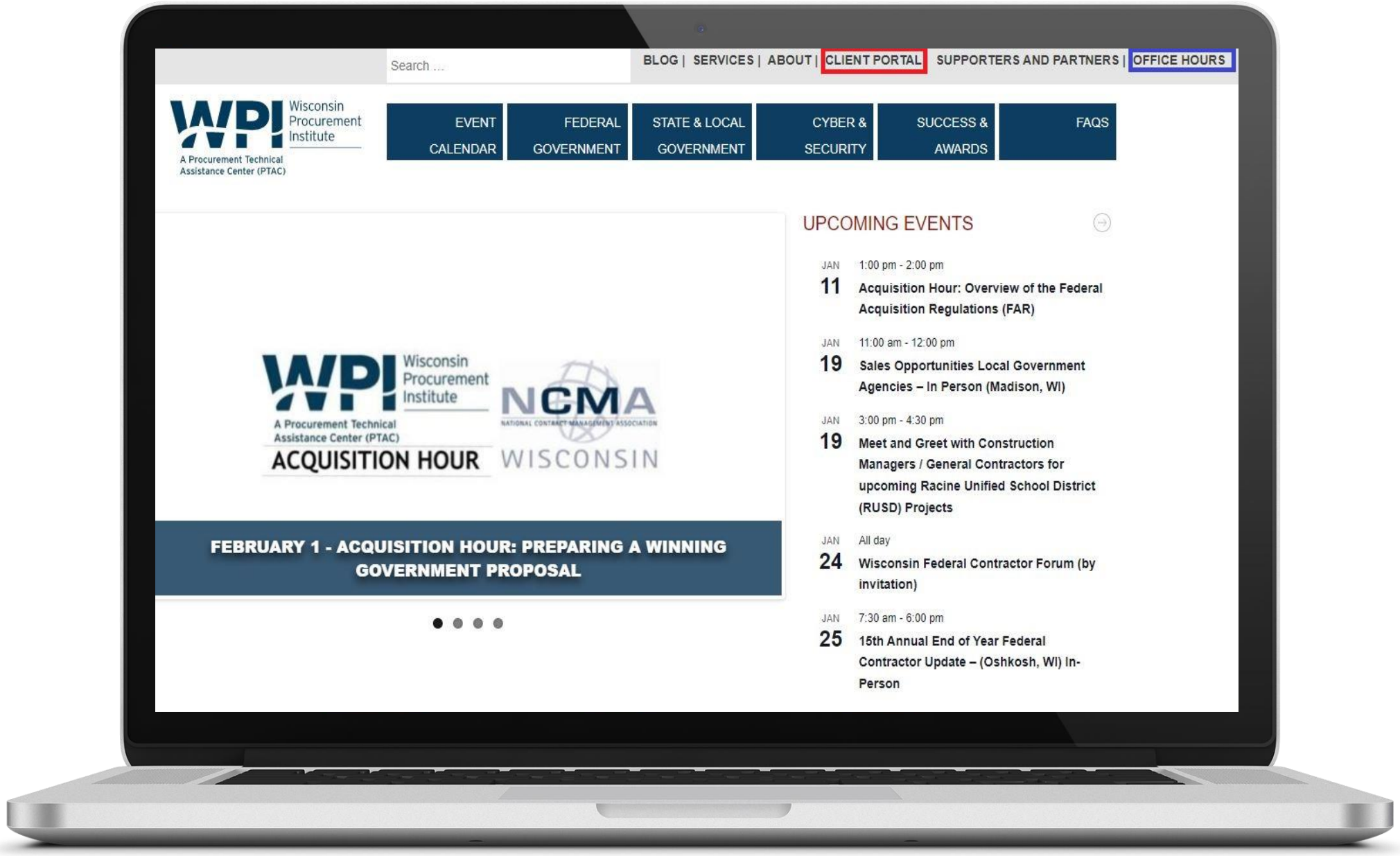
- Individual counseling at our offices, client's facility or virtually
- Small group training – webinars and workshops
- Conferences including one on one buyer meetings – Marketplace, The Contracting Academy, Small Business Academy, Wisconsin Federal Contractor Forum, Acquisition Hour, Cyber Fridays, DOD Roadmap series, Government Opportunities Business Conference, End of Year Federal Contractor Update, Annual DOD Contract Management Update, Evening FAR sessions and more……

www.wispro.org

WPI OFFICE LOCATIONS

- **MILWAUKEE**
  - *Technology Innovation Center*
- **MADISON**
  - *FEED Kitchens*
  - *Dane County Latino Chamber of Commerce*
  - *Wisconsin Manufacturing Extension Partnership (WMEP)*
  - *Madison Area Technical College (MATC)*
- **ASHLAND**
  - *Ashland Area Development Corporation*
- **CAMP DOUGLAS**
  - *Juneau County Economic Development Corporation (JCEDC)*
- **EAU CLAIRE**
  - *Western Dairyland*
- **FOND DU LAC**
  - *Envision Greater Fond du Lac*
- **GREEN BAY**
  - *NWTC Startup Hub*
- **LACROSSE**
  - *Veterans in Professions*
- **MANITOWOC**
  - *Progress Lakeshore*
- **OSHKOSH**
  - *Greater Oshkosh Economic Development Corporation*
- **RHINELANDER**
  - *Nicolet Area Technical College*
- **SUPERIOR**
  - *Small Business Dev Center; UW Superior*

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UPCOMING EVENTS
JAN 11 1:00 pm - 2:00 pm Acquisition Hour: Overview of the Federal Acquisition Regulations (FAR)
JAN 19 11:00 am - 12:00 pm Sales Opportunities Local Government Agencies – In Person (Madison, WI)
JAN 19 3:00 pm - 4:30 pm Meet and Greet with Construction Managers / General Contractors for upcoming Racine Unified School District (RUSD) Projects
JAN 24 All day Wisconsin Federal Contractor Forum (by invitation)
JAN 25 7:30 am - 6:00 pm 15th Annual End of Year Federal Contractor Update – (Oshkosh, WI) In-Person

From SBIR/STTR to DPA Title III *An Overview of Federal Innovation Programs, Needs and Marketplace*

Marc N. Violante

Wisconsin Procurement Institute

February 29, 2024

WPI Wisconsin Procurement Institute
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Innovation: From Muskets to Quantum Computing and Beyond

Marc N. Violante

Wisconsin Procurement Institute

February 29, 2024

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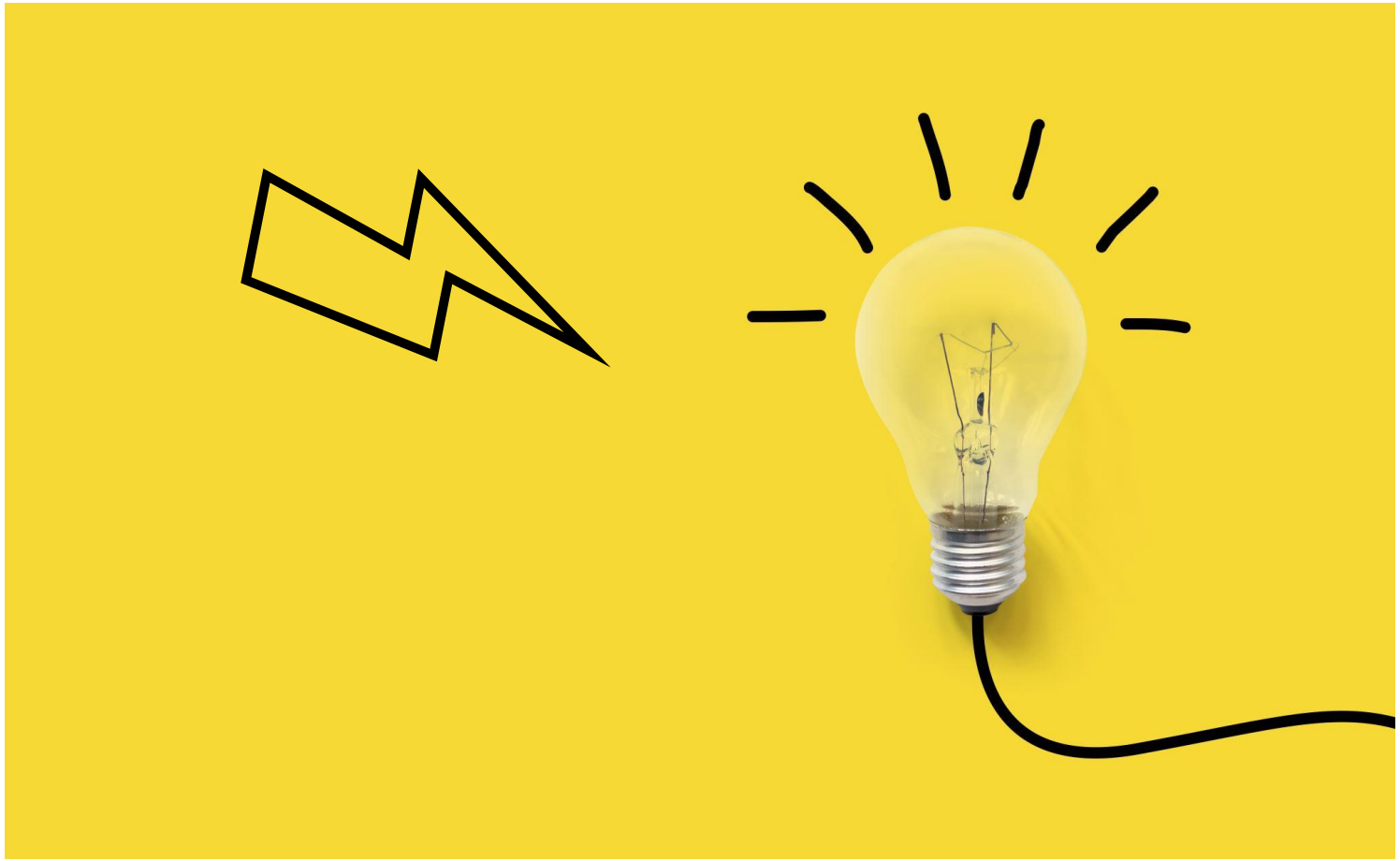
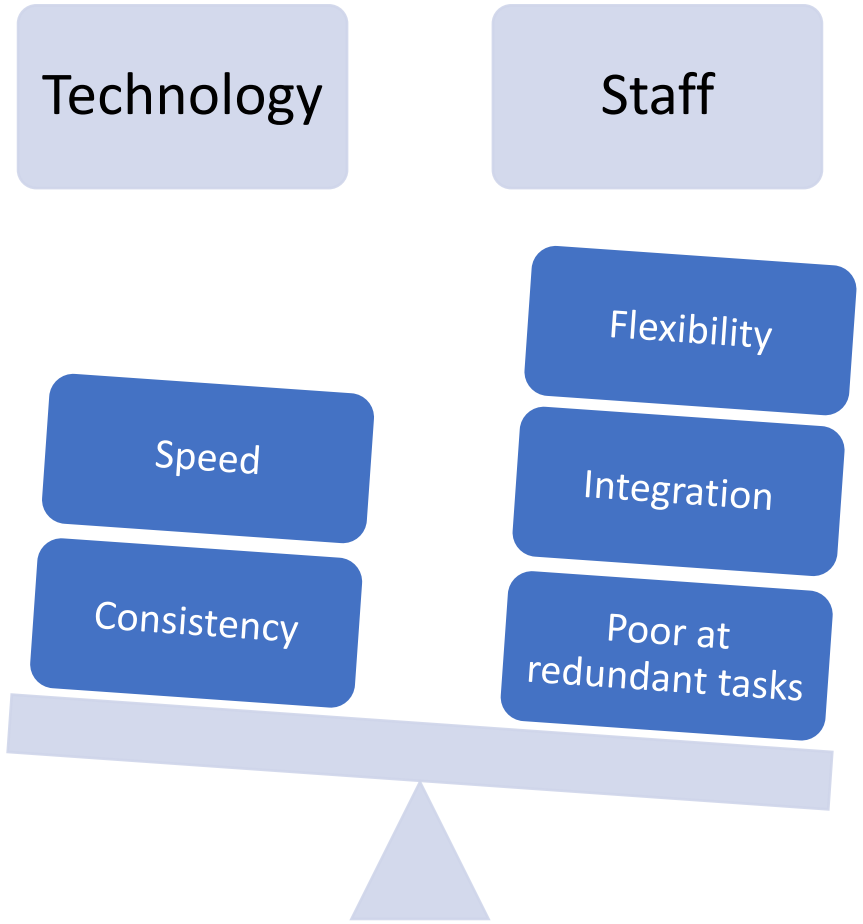
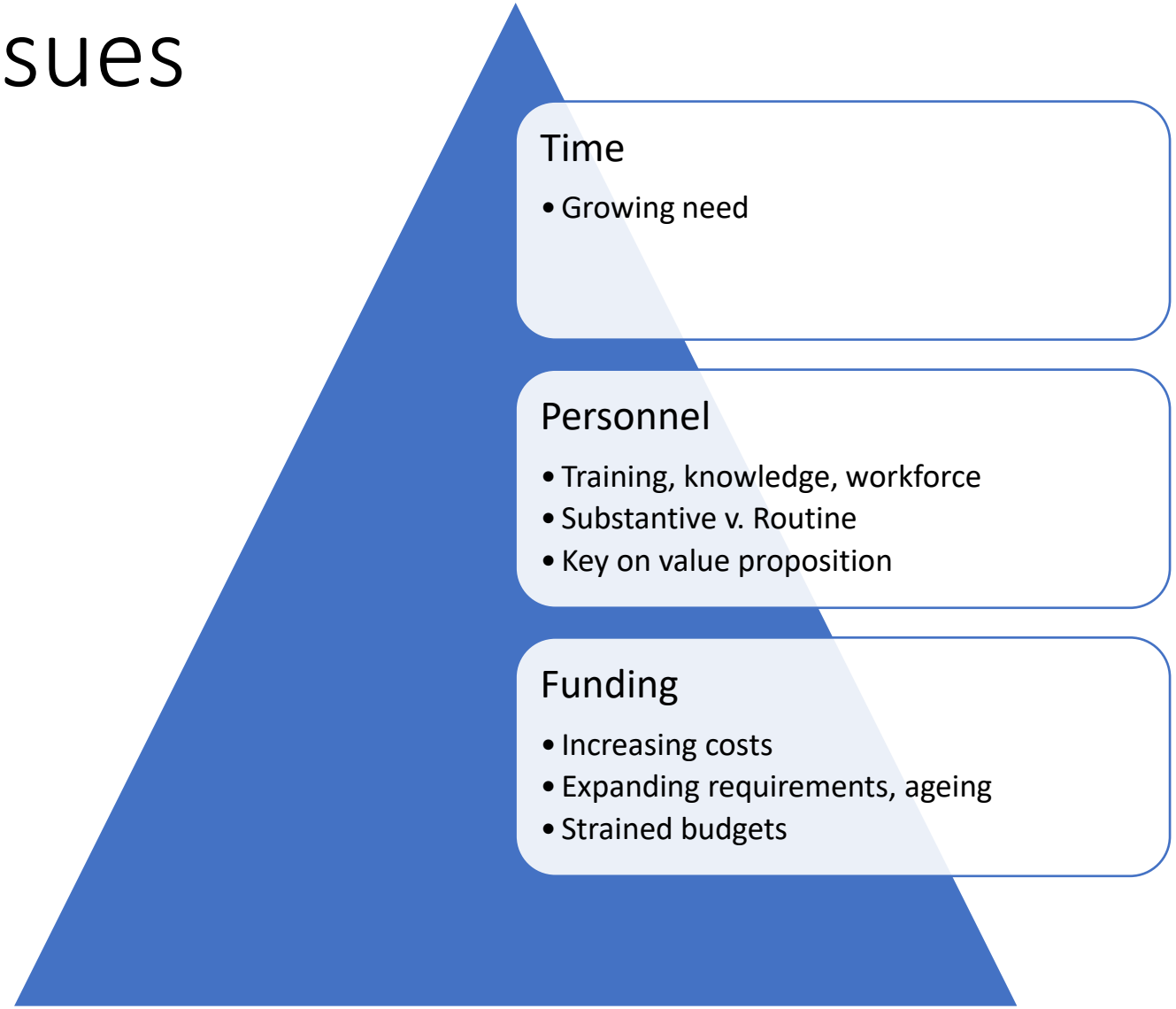
Federal Innovation



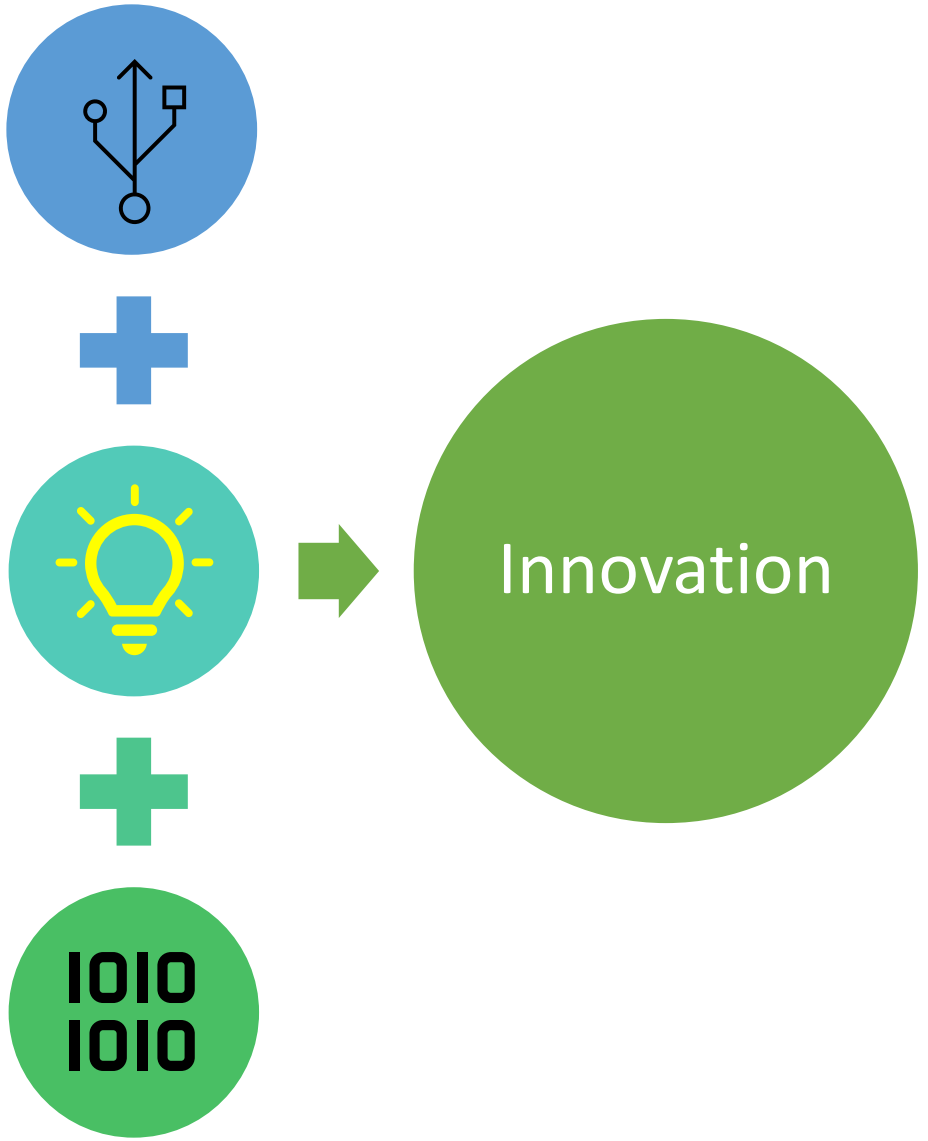
Drivers


Technology
Staff
Flexibility
Speed
Integration
Consistency
Poor at redundant tasks

Typical issues



Innovation – Elements



1794 U.S. CONTRACT MUSKETS

- Single-shot muzzle-loading flintlock muskets were the primary weapon of war. The manufacture of muskets in the mid-1790s in the U.S. was limited to individual gun makers, many concentrated in eastern Pennsylvania. Each part was handmade then assembled. This was a slow, labor-intensive process. The U.S. Government apparently contacted known gunsmiths and negotiated the purchase of muskets for $12.30 each. This included bayonet and scabbard. No written contracts have been found, only random records of payments to various gunsmiths (contractors).

https://americansocietyofarmscollectors.org/wp-content/uploads/2022/06/2016-114-US-contract-muskets-1794-1798-Reid.pdf

1798 U.S. CONTRACT MUSKETS

- In 1798, the U.S. Government advertised for additional contractors. The process was much more formal this time. There was a standard contract and inspectors were hired to inspect and proof muskets at the contractor's facilities. The 1794 contractors were allowed to continue to deliver muskets through the 1798 contract period.
- The 1798 contractors who contracted for less than 1,000 muskets apparently were not issued a contract. A total of approximately 40,000 arms were contracted. The 1798 contractors were issued a Charleville type pattern musket (see Figure 2) and required to have more assets than the 1794 contractors.
- This is what we would now call Joint Ventures.

https://americansocietyofarmscollectors.org/wp-content/uploads/2022/06/2016-114-US-contract-muskets-1794-1798-Reid.pdf

1808 issues

- Sounds easy, contract for 85,000 plus flintlock muskets, give each contractor a pattern, inspect on site as they manufacture and pay $10.75 each when delivered. What really happened?
- First, this was a huge contract for 1808. Two million dollars per year for 5 years was authorized by Congress.
- Second, the private arms industry was not prepared: all arms were to be delivered within 5 years.
  - Each musket had to be handmade, each part of the lock was hand filed and fitted, then hardened by heating and quenching (there were no interchangeable parts in 1808, talk about labor intensive!).
- Third, the United States Government was not ready. They could hire men to be inspectors but basically sent them to the field without training.

https://americansocietyofarmscollectors.org/wp-content/uploads/2022/04/2003-B87-1808-United-States-Contract-Muskets.pdf

Summary

- The 1794-1798 U.S. Musket Contracts were amazingly successful considering the fragmented state of the U.S. arms manufacturing industry in the 1790s. These two contracts allowed some relatively small arms suppliers to develop into major arms manufacturers (e.g., Whitney, Henry).
- These contracts were the first large-scale U.S. Arms Contracts issued and were the start of the U.S. Military and Civilian Defense Industry

https://americansocietyofarmscollectors.org/wp-content/uploads/2022/06/2016-114-US-contract-muskets-1794-1798-Reid.pdf

Disrupting the Dominant Cycle of Thinking

Eli Whitney, the famed inventor of the cotton gin, won one of the 28-month contracts to produce 10,000 "stands of weapons," enough to outfit 80% of the army with new muskets. As the story goes, after two years of contract performance, Whitney had produced exactly zero guns. Instead, he had focused his attention on building a better system for building muskets. He built the factory and the machinery, trained a labor force for how to use it, and developed repeatable assembly process. The result was the first weapons system where one musket behaved similarly to another and used interchangeable parts.

Whitney's brilliance is that he disrupted the dominant cycle of thinking at the time. Instead of cranking out thousands of hand-crafted rifles, bayonets, and ramrods, he focused on building a system where new technology could be produced faster. However, our current collective efforts to increase our technological advantages (e.g., Third Offset) seem more focused on buying better muskets—drone muskets, cyber muskets, nano-muskets, human-musket collaboration, inter-continental ballistic muskets—than building a system of innovation. That needs to change.

https://technicalassent.com/what-eli-whitneys-1798-gun-making-contract-can-teach-us-about-21st-century-defense-innovation/

Eli Whitney - manufacturing

Today – Unsolicited Proposal: FAR 15.6

- The prospects of war with France were growing, and the United States was readying its forces.
- Whitney submitted a proposal to build ten thousand muskets in just two years.
- This was a phenomenal rate of production for the late 1790s, especially for a person with no firearm-making experience and no factory, tools, or workers.
- The two existing U.S. armories had only produced one thousand muskets in the previous three years.

https://www.encyclopedia.com/history/encyclopedias-almanacs-transcripts-and-maps/whitney-eli-0

“The birth of interchangeable parts”

- Whitney proposed to use a new method to produce firearms.
- He would create individual precision parts for the musket by machine, making each piece identical to others of its kind.
- This method allowed Whitney to use unskilled laborers rather than craftsmen, so he could make muskets much faster than other manufacturers and with less expense.
- Whitney became the first manufacturer in America to make a product with interchangeable parts.
- Until this time, muskets and other firearms were made one at a time by skilled craftsmen, with each part made specifically for that firearm.
- If a part broke, a new part would have to be made to fit that specific firearm.

https://www.encyclopedia.com/history/encyclopedias-almanacs-transcripts-and-maps/whitney-eli-0

Standardization – another issue

- Today, according to the National Institute of Standards and Technology, there are close to 800,000 global standards. But go back a century and a half and you find an American economy in which there were literally none. On April 21, 1864, a man named William Sellers began to change that. Sellers initiated the first successful standardization fight in history, over the humble screw. That struggle was not just about a particular standard. It was about the importance of standardization itself.

https://www.wired.com/2002/01/standards-2/

The effect on national security

- Britain, however, stuck with the Whitworth screw. This didn't create any obvious problems until the winter of 1941-42, when the panzers of Germany's Afrika Korps started to pummel the Eighth Army. Under the strain of desert warfare, British tanks and trucks broke down. Screws loosened. Bolts wore out. American factories were churning out vehicles and parts for the British. But when those supplies arrived in North Africa, everyone was surprised to discover that American nuts did not fit British bolts, and vice versa. The broken-down tanks stayed broken-down.

https://www.wired.com/2002/01/standards-2/

A new standard is born

- After the war, both countries decided that using incompatible screws was a foolish reason to risk losing a battle, and in 1948, the British acquiesced to the Sellers standard, which by then was known as the US standard.

https://www.wired.com/2002/01/standards-2/

DPA Title III Opportunities

DPA Title III Opportunities

Click on any of the opportunities below to see what each has to offer.
If you have trouble finding an opportunity, contact us here for help.

Additional Resources

Link to FOA Amendment, please visit here.

OPEN ALL OPPORTUNITIES

CLOSE ALL OPPORTUNITIES

Funding Opportunity Announcement (FOA) +

Request for Information (RFI) +

https://www.businessdefense.gov/ibr/mceip/dpai/dpat3/opportunities.html

Defense Production Act

Mission

- The Defense Production Act Title III office is committed to ensuring resilient, robust domestic supply chains in order to reduce reliance on foreign manufacturing and correct domestic shortfalls in the defense industrial base.

Vision

- To protect and maintain the resiliency and long term sustainability of domestic supply chains and to enhance national security and preserve the supremacy of the American Warfighter.

https://www.businessdefense.gov/ibr/mceip/dpai/dpat3/index.html

DPA – Whitepaper process

Successful White Papers must meet all of the following criteria:

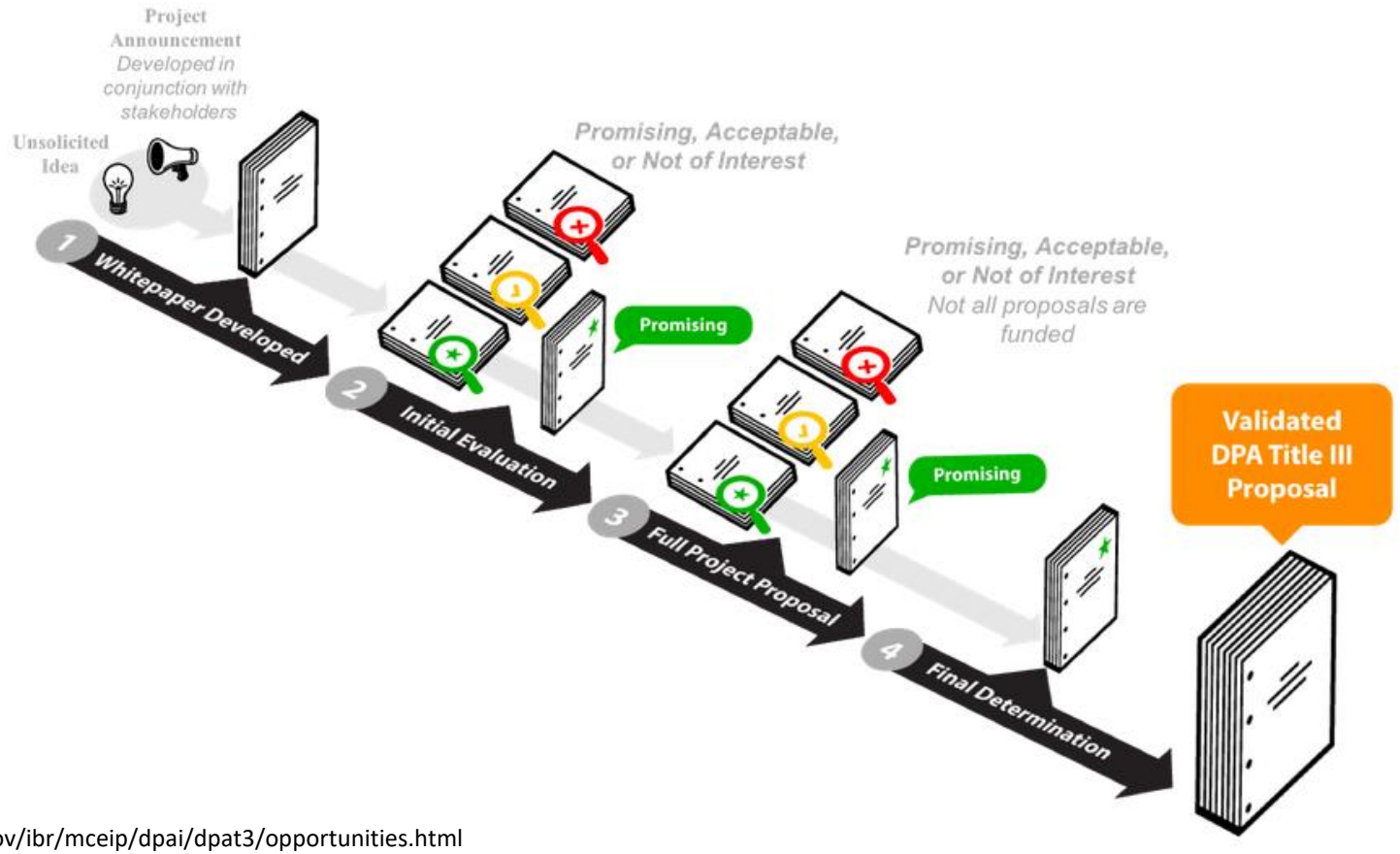
1. The industrial resource or technology item must be essential for national defense.
2. Industry cannot or will not provide needed capacity in a reasonable time without Defense Production Act Title III assistance.
3. Defense Production Act Title III incentives must be the most cost-effective, expedient, and practical alternative for the need.

To preclude unwarranted effort on the part of companies responding to the Funding Opportunity Announcement, white papers, not full proposals, will be accepted for evaluation.

For detailed information about the most recent Funding Opportunity Announcement, please visit Solicitation #FA8650-19-S-5010.

https://www.businessdefense.gov/ibr/mceip/dpai/dpat3/opportunities.html

DPA – full process



https://www.businessdefense.gov/ibr/mceip/dpai/dpat3/opportunities.html

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Current DPA Authorities

- **Title I: Priorities and Allocations**, which allows the President to require persons (including businesses and corporations) to prioritize and accept contracts for materials and services as necessary to promote the national defense;
- **Title III: Expansion of Productive Capacity and Supply**, which allows the President to incentivize the domestic industrial base to expand the production and supply of critical materials and goods. Incentives include loans, loan guarantees, direct purchases and purchase commitments, and the authority for the federal government to procure and install equipment in private industrial facilities. (further detail on these authorities is provided below); and
- **Title VII: General Provisions**, which includes several distinct authorities, including the authority to establish voluntary agreements with private industry; the authority to block proposed or pending foreign corporate mergers, acquisitions, or takeovers that threaten national security;[7] and the authority to employ persons of outstanding experience and ability and to establish a volunteer pool of industry executives who could be called to government service in the interest of the national defense.[8]

https://crsreports.congress.gov/product/pdf/R/R47124

Section 303 of the DPA

Section 303 provides several authorities through which the President may incentivize the domestic industrial base to expand the production and supply of critical materials and goods, including

- Direct purchases and purchase commitments of industrial resources or critical technology items for use or resale;
- Encouragement of "exploration, development, and mining of critical and strategic materials, and other material";
- Development of productive capacity; and
- Increased use of certain emerging technologies.[14]

https://crsreports.congress.gov/product/pdf/R/R47124

Presidential Determinations

- The material is “essential to the national defense”;
- U.S. industry “cannot reasonably be expected to provide the capability for the needed” material in a timely manner without use of Section 303; and
- Actions “are the most cost effective, expedient, and practical alternative method” for meeting national defense needs.[15]

***May be waived during National Emergencies**

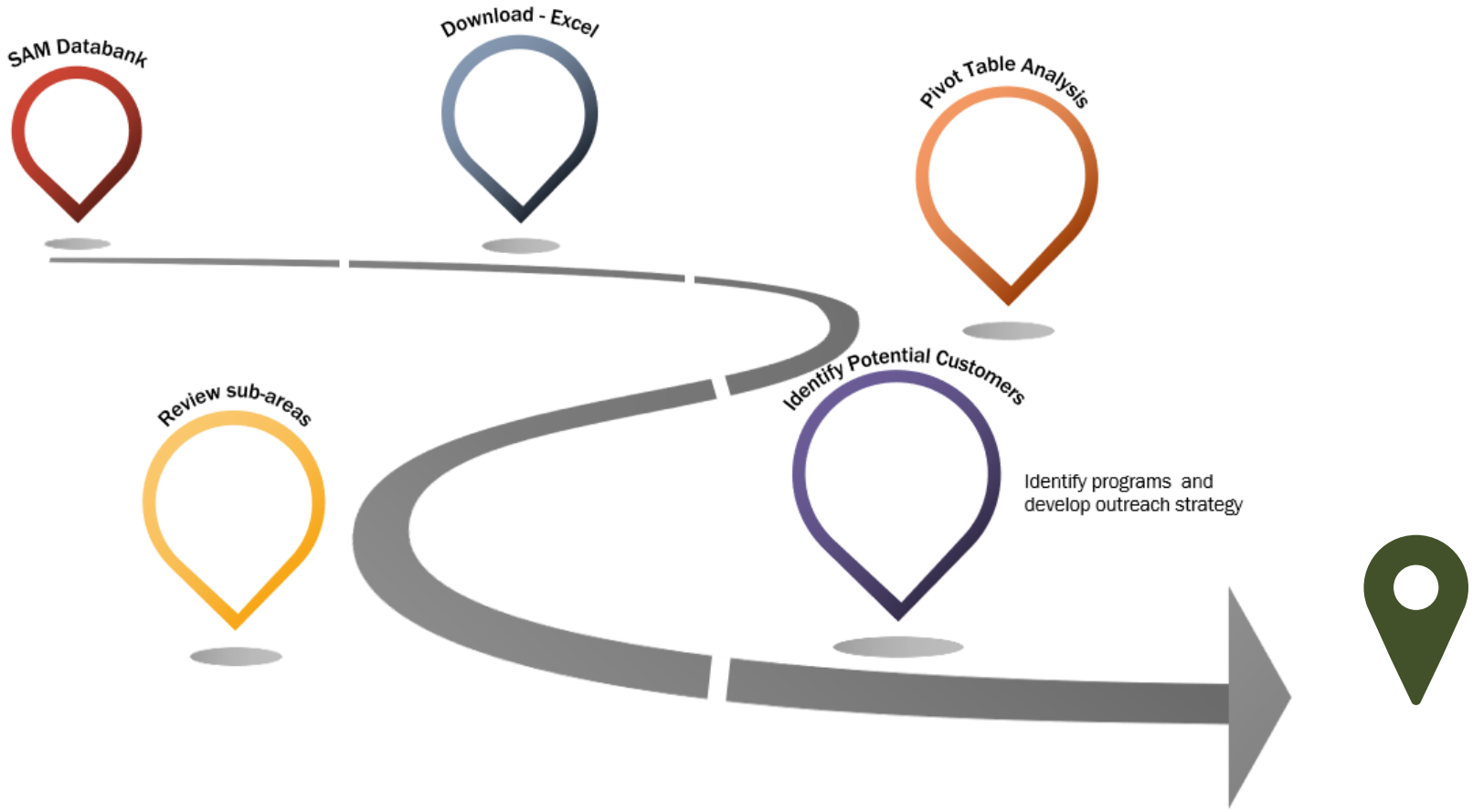
https://crsreports.congress.gov/product/pdf/R/R47124

Define your journey – know what you are looking for and where to look.

Sources of Data

- Data.gov
- SAM.gov > databank
- USAspending
- Federal Program Inventory
- Google data site:<agency.gov> or <agency.mil>

Data to Business Strategy



Federal R&D: in perspective

PSCs top -level

Row Label	PSC Description	Count of PSC	Sum of Dollars Obligated	Rank Cour	Rank Dollars
A	Research and Development	2656	$ 55,635,105,448.13	3	2
B	Special Studies/Analysis, Not R&D	1182	$ 2,107,814,215.68	8	15
C	Architect and Engineering Services	864	$ 6,297,349,295.75	14	12
D	- IT and Telecom - Information Technology and Telecommunications	4780	$ 36,465,256,897.27	2	3
E	Purchase of Structures/Facilities	115	$ 296,776,298.15	24	24
F	Natural Resources Management	783	$ 6,852,573,640.44	16	11
G	Social	195	$ 4,585,645,638.00	22	13
H	Quality Control, Testing, and Inspection	1846	$ 916,247,746.36	6	19
J	Maintenance, Repair, and Rebuilding of Equipment	2633	$ 9,935,772,888.00	4	10
K	Modification of Equipment	322	$ 583,388,369.74	21	21
L	Technical Representative	420	$ 1,088,344,138.09	20	18
M	Operation of Structures/Facilities	526	$ 31,982,046,804.20	18	4
N	Installation of Equipment	994	$ 1,566,067,721.50	12	16
P	Salvage	144	$ 737,483,175.11	23	20
Q	Medical	863	$ 27,214,579,218.68	15	5
R	Support (Professional/Administrative/Management)	5097	$ 65,428,741,680.22	1	1
S	Utilities and Housekeeping	1493	$ 13,066,046,866.75	7	8
T	Photo/Map/Print/Publication	502	$ 369,172,565.51	19	23
U	Education/Training	1139	$ 2,818,717,644.12	9	14
V	Transportation/Travel/Relocation	1079	$ 11,810,543,066.99	11	9
W	Lease/Rental of Structures/Facilities	1090	$ 1,386,082,565.79	10	17
X	Construction of Structures/Facilities	669	$ 394,658,724.21	17	22
Y	Maintenance, Repair, Alteration of Structures/Facilities	881	$ 26,534,954,588.10	13	6
Z		1985	$ 20,483,932,980.61	5	7
Grand Total		32258	$ 328,557,302,177.40		

R&D by Company Size

~ 5 X SB $

PSC	A		
Row Labels	**Count of Contracting Officers Business Size Determination**	**Sum of Dollars Obligated**	
OTHER THAN SMALL BUSINESS	1251	$	45,688,203,886.38
SMALL BUSINESS	1405	$	9,946,901,561.75
Grand Total	**2656**	**$**	**55,635,105,448.13**

Definitions of stages of R&D

1. **Basic research**. Experimental or theoretical work undertaken primarily to acquire new knowledge of the underlying foundations of phenomena and observable facts. Basic research may include activities with broad or general applications in mind, such as the study of how plant genomes change, but should exclude research directed towards a specific application or requirement, such as the optimization of the genome of a specific crop species.
2. **Applied research**. Original investigation undertaken in order to acquire knowledge. Applied research is, however, directed primarily towards a specific practical aim or objective.
3. **Experimental development**. Creative and systematic work, drawing on knowledge gained from research and practical experience, which is directed at producing new products or processes or improving existing products or processes. Like research, experimental development will result in gaining additional knowledge.

PSC Manual: Section A: Research and Development Codes, page 10

Information obtained from R&D PSC codes

- The R&D code is composed of two alphabetic and two numeric digits. The first digit is always the letter "A" to identify R&D, the second digit is alphabetic "A to Z" to identify the major area, the third digit is numeric 1 to 6 to identify a sub-area within a major area, and the fourth digit is numeric 1 to 5, to identify the appropriate stage of R&D shown below.
- Example: A contract for research on air pollution by aircraft shall be shown under “Natural Resources and Environment (AH4*)” for “Pollution control and abatement,” and not under Aerospace Research.

Codes for Stages of R&D (4th Position)—Code Meaning

1. Basic Research
2. Applied Research
3. Experimental Development
4. Administrative Expenses for R&D
5. Expenses for R&D Facilities and Major Equipment

PSC Manual: Section A: Research and Development Codes, page 10

R&D Services Major Areas

- AA – Agriculture R&D Services
- AB – Community and Regional Development R&D Services
- AC – National Defense R&D Services
- AF – Education, Training, Employment, and Social Services R…
- AG – Energy R&D Services
- AH – Natural Resources and Environment R&D Services
- AJ – General Science and Technology R&D Services
- AK – Commerce and Housing Credit R&D Services
- AL – Income Security R&D Services
- AM – International Affairs R&D Services
- AM – International Affairs R&D Services
- AR – Space R&D Services
- AS – Transportation R&D Services

PSC Manual: Section A: Research and Development Codes, page 12

Major Area – Count and Obligations

Row Labels	Count of PSC Major Area	Sum of Dollars Obligated
AA	47	$ 56,926,184.69
AB	69	$ 89,917,688.98
AC	672	$ 27,689,332,694.17
AD	284	$ 2,293,453,931.10
AE	22	$ 78,546,746.20
AF	137	$ 110,062,876.96
AG	62	$ 23,160,878.32
AH	85	$ 104,269,804.98
AJ	492	$ 3,405,223,149.58
AK	9	$ 1,146,417.07
AL	6	$ 372,971.53
AM	11	$ 7,919,635.43
AN	324	$ 7,605,655,084.17
AP	10	$ (51,280.64)
AQ	4	$ 14,477,389.40
AR	115	$ 9,138,696,716.83
AS	85	$ 243,547,501.87
AT	32	$ 1,810,662.13
AV	9	$ 1,287,704.00
AZ	181	$ 4,769,348,691.36
Grand Total	**2656**	**$ 55,635,105,448.13**

PSC – codes & stages

PSC	PSC Description
AA11	Agriculture R&D Services; Agricultural research and services; Basic Research
AA12	Agriculture R&D Services; Agricultural research and services; Applied Research
AA13	Agriculture R&D Services; Agricultural research and services; Experimental Development
AA14	Agriculture R&D Services; Agricultural research and services; R&D Administrative Expenses
AA15	Agriculture R&D SVCS; Agricultural Research & SVCS; R&D Facilities & MAJ EQUIP

AC – National Defense R&D Services

- AC11 National Defense R&D Services; Department of Defense - Military; Basic Research
- AC12 National Defense R&D Services; Department of Defense - Military; Applied Research
- AC13 National Defense R&D Services; Department of Defense - Military; Experimental Development
- AC14 National Defense R&D Services; Department of Defense - Military; R&D Administrative Expenses
- AC15 National Defense R&D SVCS; Department of Defense - Military; R&D Facilities & Maj Equip
- AC21 National Defense R&D Services; Atomic energy defense activities; Basic Research
- AC22 National Defense R&D Services; Atomic energy defense activities; Applied Research
- AC23 National Defense R&D Services; Atomic energy defense activities; Experimental Development
- AC24 National Defense R&D Services; Atomic energy defense activities; R&D Administrative Expenses
- AC25 National Defense R&D SVCS; Atomic energy defense activities; R&D Facilities and Maj Equip
- AC31 National Defense R&D Services; Defense-related activities; Basic Research
- AC32 National Defense R&D Services; Defense-related activities; Applied Research
- AC33 National Defense R&D Services; Defense-related activities; Experimental Development
- AC34 National Defense R&D Services; Defense-related activities; R&D Administrative Expenses
- AC35 National Defense R&D SVCS; Defense-related activities; R&D Facilities and Maj Equip

AC – National Defense R&D Services (AC11)

DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	ENHANCED NIGHT VISION IN EYEGLASS FORM FACTORS (ENVISION)PROGRAM
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	HABITUS COMPARATIVE EVALUATION
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	HABITUS COMPARATIVE EVALUATION PROGRAM- PHASE 1
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	HIERARCHICAL GRAPHS STUDY
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	INVESTIGATING ADAPTIVE MODAL BASES FOR INTELLIGENTCLASSIFICATION (IAMBIC)
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	MORPHOGENIC INTERFACES (MINT)
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	MORPHOGENIC INTERFACES (MINT) PHASE 1 FULLY FUNDED
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	MORPHOGENIC INTERFACES (MINT) PHASE 1 INCREMENTAL FUNDING
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	MORPHOGENIC INTERFACES (MINT)PHASE 1 FULLY FUNDED
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	MULTIOBJECTIVE ENGINEERING AND TESTING OF ALLOYSTRUCTURES (METALS) PROGRAM
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	NEURAL EVIDENCE AGGREGATION TOOL (NEAT) PROGRAM
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	NOVEL ORBITAL AND MOON, MANUFACTURING, MATERIALS ANDMASSEFFICIENT DESIGN(NOM4D)PROGRAM
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	NOVEL ORBITAL AND MOON, MANUFACTURING, MATERIALS AND MASS-EFFICIENT DESIGN (NOM4D)PROGRAM
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	NOVEL ORBITAL AND MOON, MANUFACTURING, MATERIALS AND MASSEFFICIENT DESIGN(NOM4D)PROGRAM
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	PERCEPTUALLY-ENABLED TASK GUIDANCE (PTG)
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	PERCEPTUALLY-ENABLED TASK GUIDANCE (PTG) OPTION PHASE 2
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	PERCEPTUALLY-ENABLED TASK GUIDANCE (PTG) PROGRAM
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	PERCEPTUALLY-ENABLED TASK GUIDANCE (PTG) PROGRAM.
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	PHASE II SBIR HELIOSAFE-2: A PLATFORM FOR THE FAST, LABEL-FREE, AUTOMATED EVALUATION OF STERILITY
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	PTG PHASE 1
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	QUANTUM BENCHMARKING
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	QUANTUM BENCHMARKING - PHASE 2 CHANGE ORDER
DEF ADVANCED RESEARCH PROJECTS AGCY	HR0011	AC11	QUANTUM BENCHMARKING PHASE 1 FULLY FUNDED

R&D – National Defense

PSC	A		
Row Labels	Count of PSC 2 & 3		Sum of Dollars Obligated
A1	31	$	20,261,408.33
A2	1	$	15,625,447.50
A3	3	$	17,929,232.81
A9	12	$	3,110,096.05
B1	31	$	61,033,679.65
B2	13	$	9,944,383.55
B3	1	$	33,839.66
B4	4	$	3,093,487.91
B9	20	$	15,812,298.21
C1	202	$	13,506,345,265.18
C2	116	$	5,076,852,457.46
C3	149	$	6,092,803,863.02
C4	7	$	402,875,121.77
C5	52	$	268,784,240.69
C6	111	$	2,277,652,951.86
C9	35	$	64,018,794.19
D1	8	$	(220,001.93)
D2	133	$	925,669,882.55

Definitions for C6 and C9 are not provided.

DoD selects first Replicator systems, eyeing software focus for second iteration

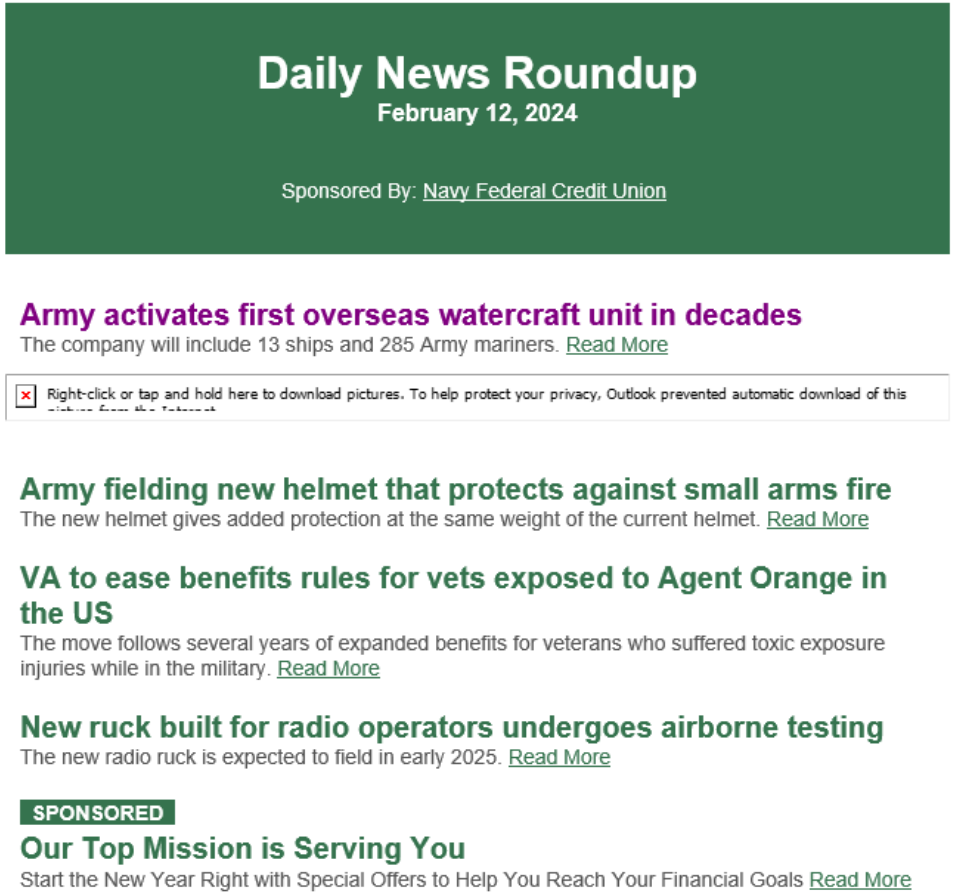
WEST 2024 — The Pentagon has picked which systems will be fielded under the first tranche of its Replicator initiative and is in the process of "finalizing proposals" for a second iteration, a key official said today — while keeping details under wraps.

Navy Capt. Alex Campbell, director of the Defense Innovation Unit's (DIU) maritime portfolio, said that Deputy Secretary of Defense Kathleen Hicks and her team "have selected the first tranche of Replicator systems." But, he said, secrecy is going to remain Replicator's watchword.

"And there is likely some frustration that that hasn't been publicly announced, but please understand that is very deliberate," Campbell said. "There is a very important, frankly critical, conceal and reveal strategy when it comes to Replicator. We do not want our adversaries understanding the detail of the systems that we intend to deploy thousands of to the INDOPACOM" area.

https://breakingdefense.com/2024/02/dod-selects-first-replicator-systems-eyeing-software-focus-for-second-iteration

“Everyday” - Innovation



Daily News Roundup
February 12, 2024

Sponsored By: Navy Federal Credit Union

Army activates first overseas watercraft unit in decades
The company will include 13 ships and 285 Army mariners. Read More

Right-click or tap and hold here to download pictures. To help protect your privacy, Outlook prevented automatic download of this

Army fielding new helmet that protects against small arms fire
The new helmet gives added protection at the same weight of the current helmet. Read More

VA to ease benefits rules for vets exposed to Agent Orange in the US
The move follows several years of expanded benefits for veterans who suffered toxic exposure injuries while in the military. Read More

New ruck built for radio operators undergoes airborne testing
The new radio ruck is expected to field in early 2025. Read More

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Our Top Mission is Serving You
Start the New Year Right with Special Offers to Help You Reach Your Financial Goals Read More

https://www.armytimes.com/news/your-army/2024/02/12/army-activates-first-overseas-watercraft-unit-in-decades/

Space Futures Command

- Coming soon: the **U.S. Space Force** (USSF) plans to establish a **Space Futures Command**. Chief of Space Operations, **Gen. Chance Saltzman**, announced the creation of the command at the Air & Space Forces Association Warfare Symposium. The new field command will ensure the Space Force **stays ahead of emerging threats** and maintains its competitive edge in the space domain. The Space Force's plan for a Futures Command is **part of a larger strategy** by the Department of the **Air Force** to "[reshape, refocus, and reoptimize] the Air Force and Space Force to ensure continued supremacy in those domains while also better posturing the services to deter and, if necessary, prevail in an era of Great Power Competition." As part of this new strategy, the Space Force also **plans to refine the way it trains officers** to "create joint-minded warfighters," Saltzman said.

https://www.meritalk.com/articles/space-force-to-establish-futures-command/

How ‘Deep Learning’ Can Predict Where Wildfires Will Start

- The new machine learning method can produce in 21 hours what existing wildfire prediction models do in months and forecast where fires are likely to strike weeks further in advance.

https://www.govtech.com/em/disaster/how-deep-learning-can-predict-where-wildfires-will-start

Generative AI, national security, DoD business transformation

- The connection between GenAI, cybersecurity, and cloud.
- GenAI and U.S. technological leadership and GenAI's role in informing perceptions, countering disinformation, and achieving mission objectives.
- Use cases and the near-term roadmap for Generative AI milestones.
- Pitfalls in the use of GenAI and limitations in testing/assessing AI.
- GenAI-related team collaboration and business transformation in enterprise environments.
- Policy considerations for usage.

JUST IN: Army Learning Chilling Lessons in the Arctic

"Batteries go really quick … less than hours and more into seconds and minutes. So those challenges of keeping batteries warm and battery-operated vehicles and stuff like that are really put to the test up here because of the environment."

Even flying helicopters require different procedures, he added.

"Starting them in subzero temperatures, you have to do some things that are just not in manuals to figure out how to fly and maintain," he said.

"We had a couple of our warrant officers come up with a white paper recommendation to the engineers and the Aviation Center of Excellence to put in manuals because the things that they have to do to fly and operate are not in manuals," he said.

https://www.nationaldefensemagazine.org/articles/2024/2/26/army-learning-chilling-lessons-in-the-arctic

US Army cutting force by 24K amid recruiting shortfalls

- The U.S. Army is cutting its force by about 24,000 positions, nearly 5 percent, in a restructuring effort it says will help prepare it to fight in future wars as it struggles to recruit soldiers.
- “We’re moving away from counterterrorism and counterinsurgency; we want to be postured for large-scale combat operations,” Army Secretary Christine Wormuth told reporters Tuesday morning at an event in Washington, D.C., hosted by the Defense Writers Group.
- … the service seeks to phase out around 32,000 roles, with about 3,000 cuts from special operations forces and another 10,000 from Stryker brigade combat teams, cavalry squadrons, infantry brigade combat teams and security force assistance brigades, the latter meant to train foreign forces.

https://thehill.com/policy/defense/4492140-army-cutting-force-24000/

Air Force Launches New Stealthy Tanker Program, with Delivery Projected for 2040

- The Air Force launched its search for the Next-Generation Air-Refueling System (NGAS), a stealthy tanker project intended to deliver its first aircraft around 2040, with a Jan. 31 request for information to industry. The new tanker is to be capable of surviving in contested airspace, but the service is open to all ideas about its size and performance.
- The Defense Innovation Unit and the Air Force are already looking at concepts for a future blended-wing body tanker, but the Jan. 31 solicitation specifically leaves open the configuration.
- The Air Force "is interested in innovative solutions in all size and performance classes that might address the stressing mission requirements" of delivering fuel in contested airspace, the announcement said.

https://www.airandspaceforces.com/air-force-launches-new-stealthy-tanker-program-with-delivery-projected-for-2040/

SBIR/STTR

Row Labels	Count of SBIR/STTR Description	Sum of Dollars Obligated
SMALL BUSINESS INNOVATION RESEARCH PROGRAM PHASE I ACTION	76	$ 199,825,876.04
SMALL BUSINESS INNOVATION RESEARCH PROGRAM PHASE II ACTION	212	$ 1,779,901,071.80
SMALL BUSINESS INNOVATION RESEARCH PROGRAM PHASE III ACTION	204	$ 1,476,725,376.56
SMALL TECHNOLOGY TRANSFER RESEARCH PROGRAM PHASE I	36	$ 49,418,248.09
SMALL TECHNOLOGY TRANSFER RESEARCH PROGRAM PHASE II	83	$ 248,735,221.04
SMALL TECHNOLOGY TRANSFER RESEARCH PROGRAM PHASE III	60	$ 196,599,234.51
(blank)		$ 51,683,900,420.09
Grand Total	**671**	**$ 55,635,105,448.13**

SBIR/STTR = 7% of PSC "A" value

Total value PSC "A"

NASA Awards $57M Contract to Build Roads on the Moon

- As NASA continues its exploration under Artemis, it needs new technology to improve infrastructure on the moon.
- In an effort to meet this need, NASA awarded ICON—an advanced construction technology company best known for 3-D printed homes—a $57.2 million contract to develop construction technologies to build infrastructure on the moon—including landing pads, habitats and roads. The contract goes through 2028.
- Tuesday's contract is under Phase III of NASA's Small Business Innovation Research program. It is a continuation of a prior SBIR dual-use contract with the Air Force, which NASA partially funded. The award will fund ICON's Project Olympus to engage in research and development for space-based construction systems to support further space exploration.

https://www.nasa.gov/press-release/nasa-icon-advance-lunar-construction-technology-for-moon-missions

VA Pathfinder

VHA Innovation Ecosystem

https://www.innovation.va.gov/ecosystem/views/national-centers/va-ventures.html

VA Ventures - mission

Our Mission

VA Ventures aims to:

Create a multi-disciplinary environment with the facilities, space and resources needed to transform ideas, problems and emerging technologies into tangible solutions for Veterans.

Establish close public-private collaborations to maximize talent, knowledge and execution of emerging product innovations.

Build the right space at the right scale to truly make VHA an industry leader in point-of-care manufacturing for patients.

https://www.innovation.va.gov/ecosystem/views/national-centers/va-ventures.html

Understand your customer and their needs

USDA Releases Agriculture Innovation Research Strategy Summary and Dashboard

(Washington, D.C., January 12, 2021) – Today, the U.S. Department of Agriculture (USDA) released its U.S. Agriculture Innovation Strategy Directional Vision for Research (PDF, 4.8 MB) summary and dashboard that will help to guide future research decisions within USDA. The strategy synthesizes the information USDA collected as part of a public announcement earlier this year engaging the public on research priorities under the Agriculture Innovation Agenda (AIA).

Press Release
Release No. 0006.21

Contact: Tara Weaver-Missick
Email: tara.weavermissick@usda.gov

"This initial report is a culmination of creative minds from across the agricultural community," said Deputy Under Secretary Scott Hutchins, who leads USDA's Research, Education, and Economics mission area, and who is responsible for research efforts under the AIA. "Innovation and ingenuity have always been key to solving critical agricultural production challenges and will also be critical for addressing new and emerging challenges on the horizon—and our stakeholders advocated for some truly bold goals. We believe this information and the AIA will create enthusiasm, bridge collaborations, drive constructive discussions, and spark imagination to convey the positive role innovation will play to help solve challenges that face our nation in meeting pressing demands to feed a growing population in a sustainable way," said Hutchins.

https://www.usda.gov/media/press-releases/2021/01/12/usda-releases-agriculture-innovation-research-strategy-summary-and

Today's modern workforce needs advanced technology solutions that empower them to excel in new digital service delivery models. To support this, USDA is identifying opportunities to implement **Intelligent Automation (IA)** across the enterprise. IA combines Robotic Process Automation (RPA) with advanced technologies such as artificial intelligence (AI) and machine learning (ML) to form smarter, and increasingly, more intelligent automation systems. Intelligent automation will lead to significant impacts for people, processes, and USDA mission areas.

Intelligent Automation – Center of Excellence

- About
- History
- Overview
- Service Models
- Center of Excellence
- Best Practices
- Operating Model
- Help
- Bot Inventory / Use Cases
- Ideas

DIGITAL.GOV GUIDE

Guide to robotic process automation

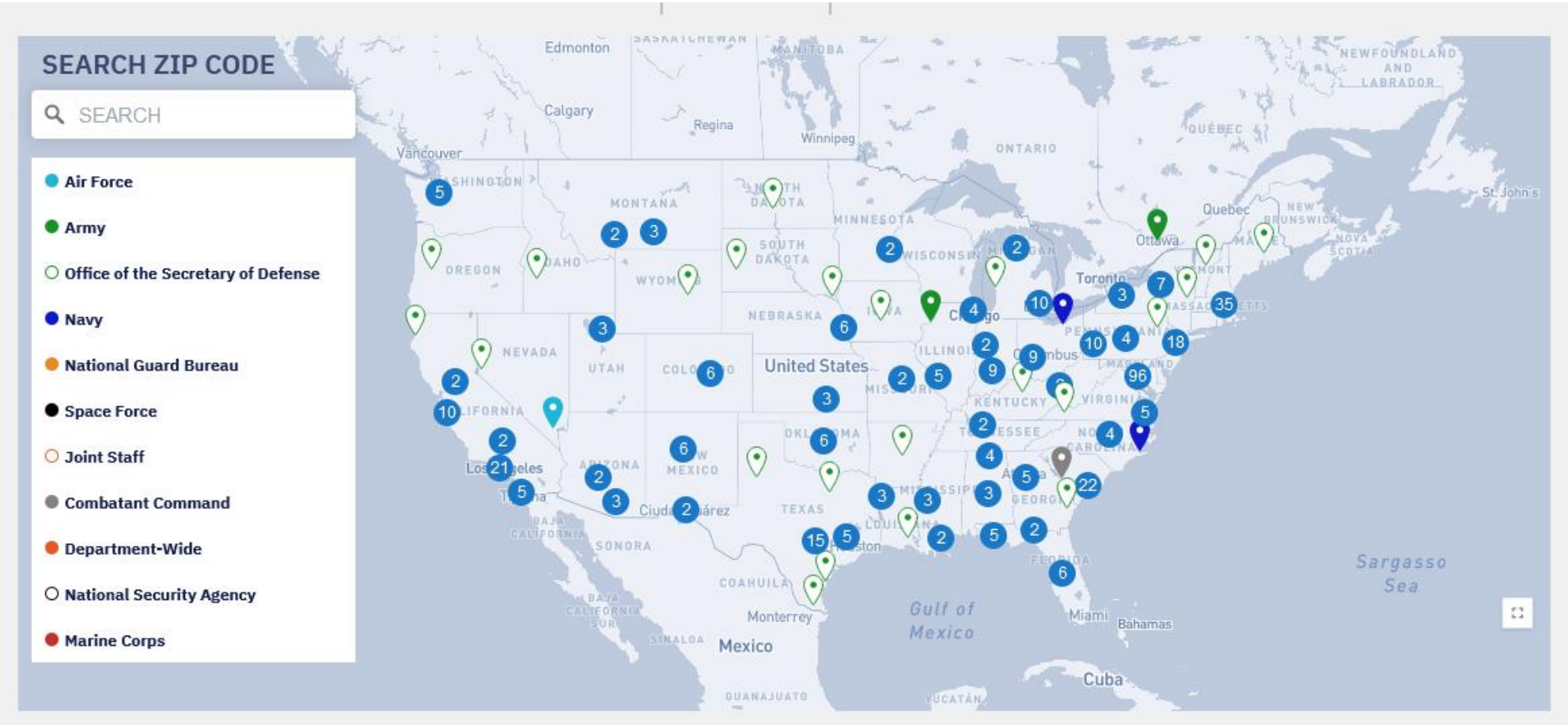
Configure bots to execute repetitive tasks to save users from performing mundane tasks repeatedly for the same process.

https://www.usda.gov/iacoe

Innovation Pathways

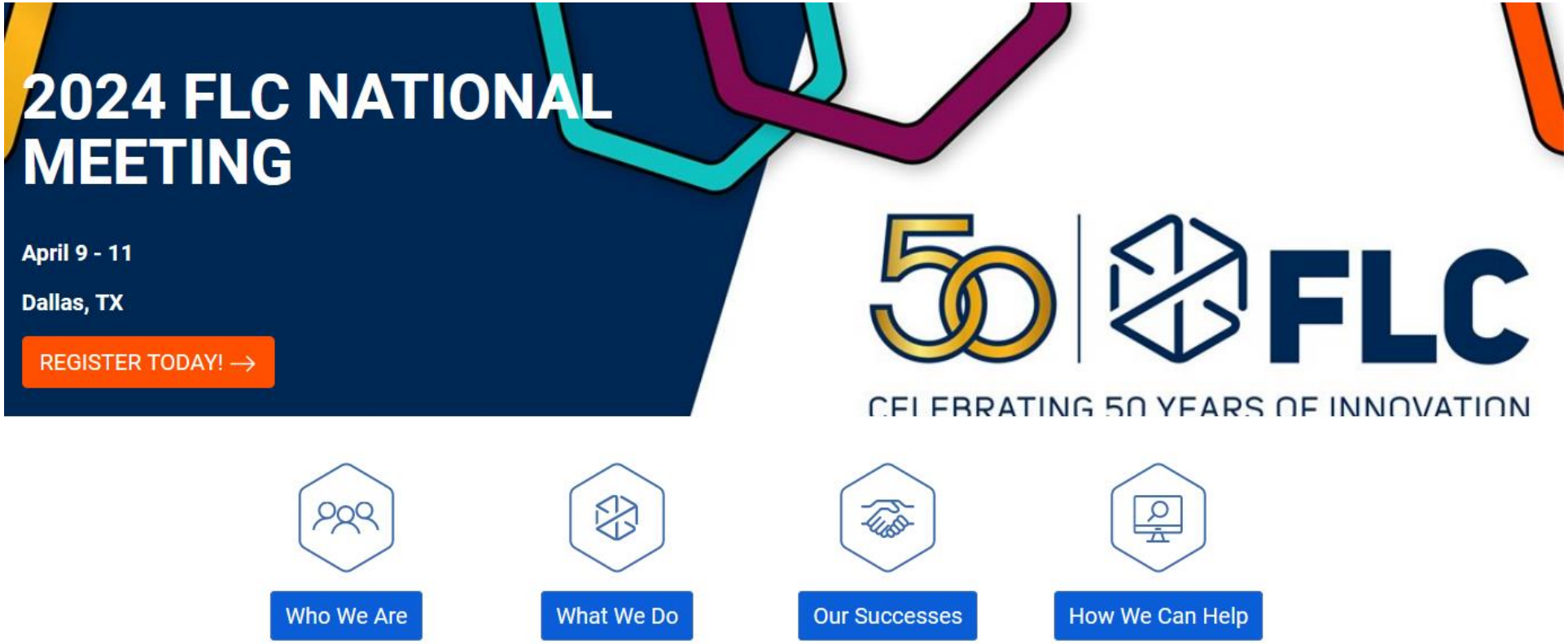
https://www.ctoinnovation.mil/

Innovation Organizations – (271)



https://www.ctoinnovation.mil/

Federal Laboratory Consortium for Technology Transfer (FLC) – over 300 labs and research centers



https://federallabs.org/

FLC -

Who we are

The Federal Laboratory Consortium for Technology Transfer (FLC) is the formally chartered, nationwide network of over 300 federal laboratories and research centers, that fosters commercialization, best practice strategies and opportunities for accelerating federal technologies out of the labs and into the marketplace.

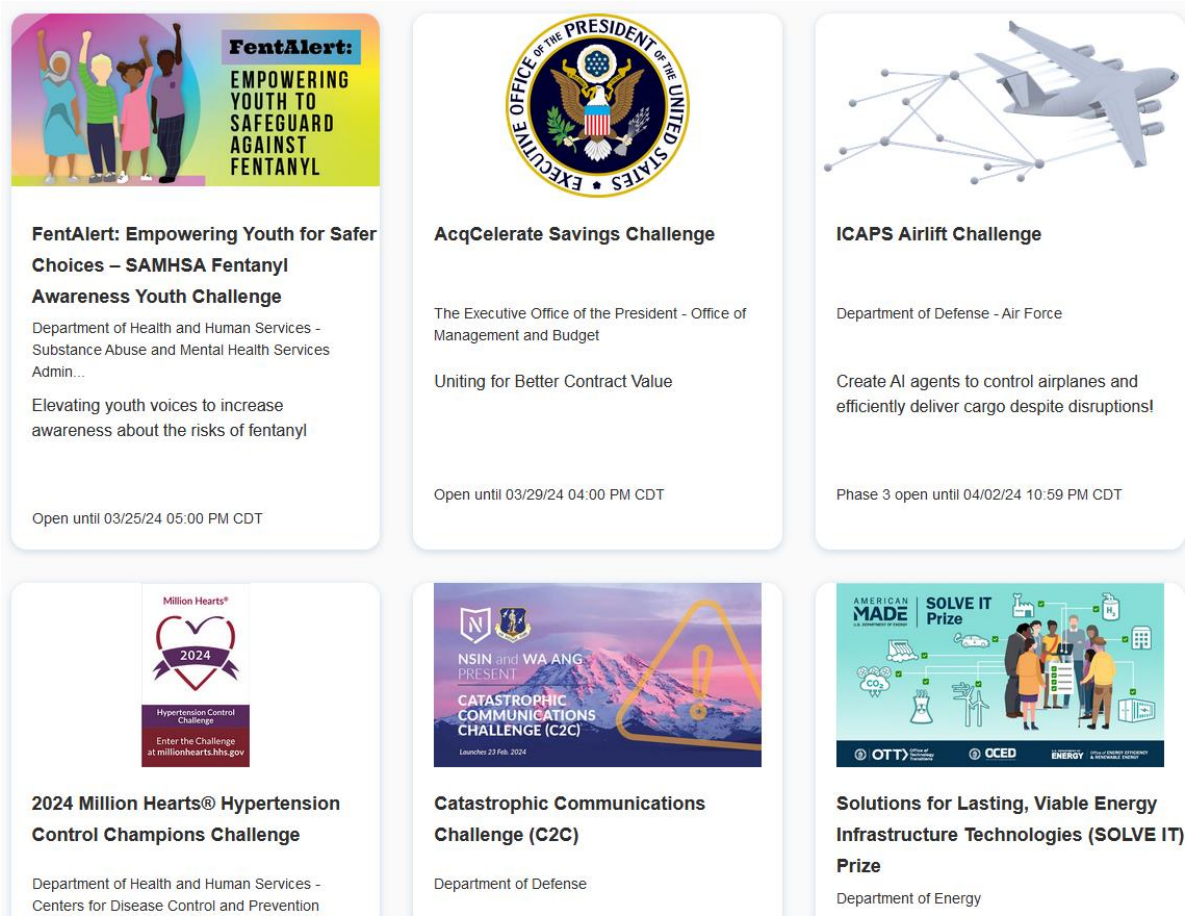
Through American taxpayers' investment in our federal laboratories' research and development (R&D) efforts, scientific and technological breakthroughs can take place and return dividends to our economy. New industries, businesses, and jobs that can be created, when a new technology is brought to market, are just a few of the successes that take effect through technology transfer (T2), and the FLC is here to promote, facilitate, and educate labs and industry about that process.

https://federallabs.org/about/who-we-are/mission-vision

https://www.cto.mil/usdre-strat-vision-critical-tech-areas/

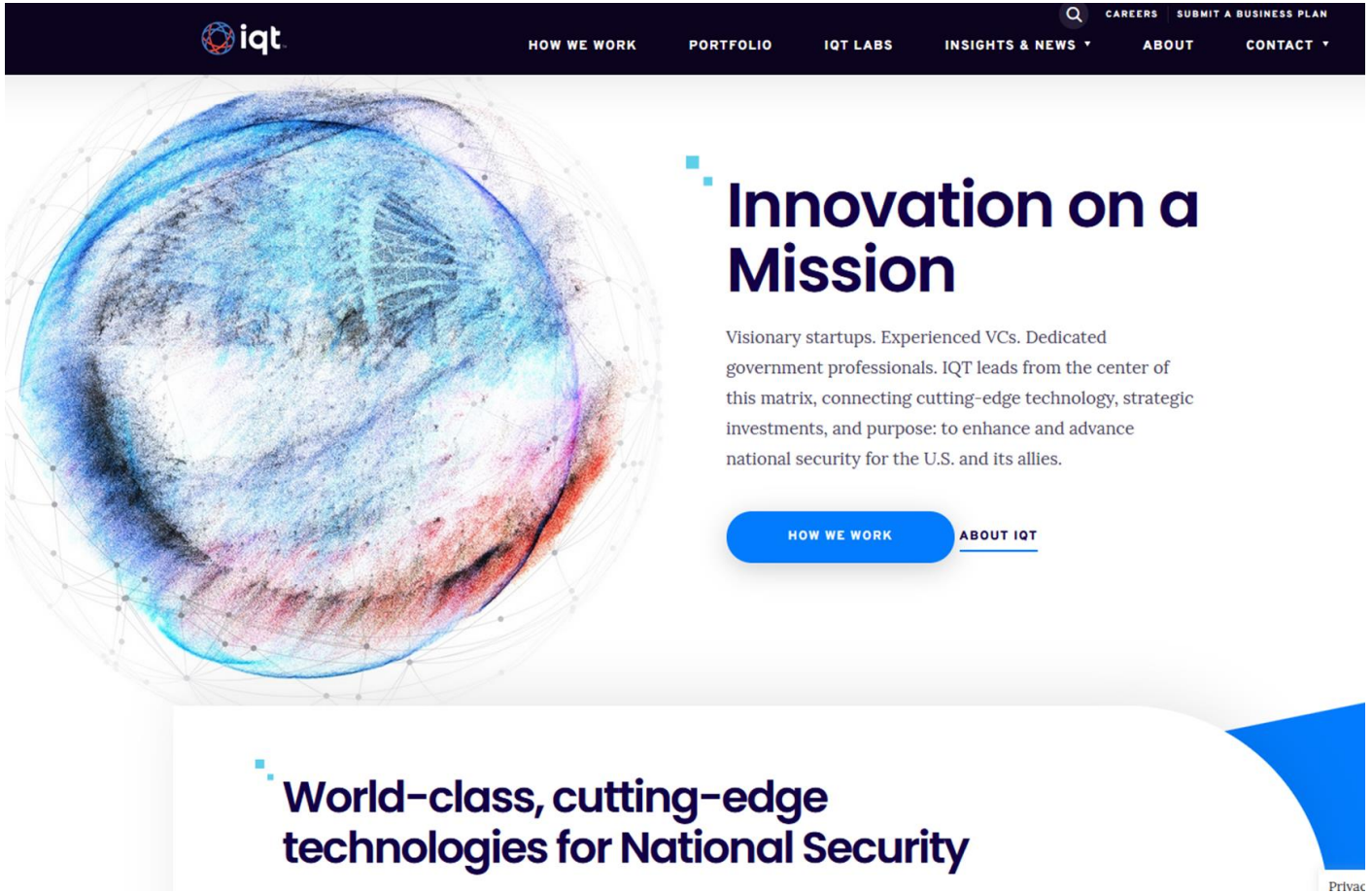
Current Challenges -

- Not contracts or grants
  - Change frequently
    - Various eligibility



https://www.challenge.gov/#active-challenges

CIA’s Venture Capital Arm



https://www.iqt.org/

IQT – Portfolio (partial)

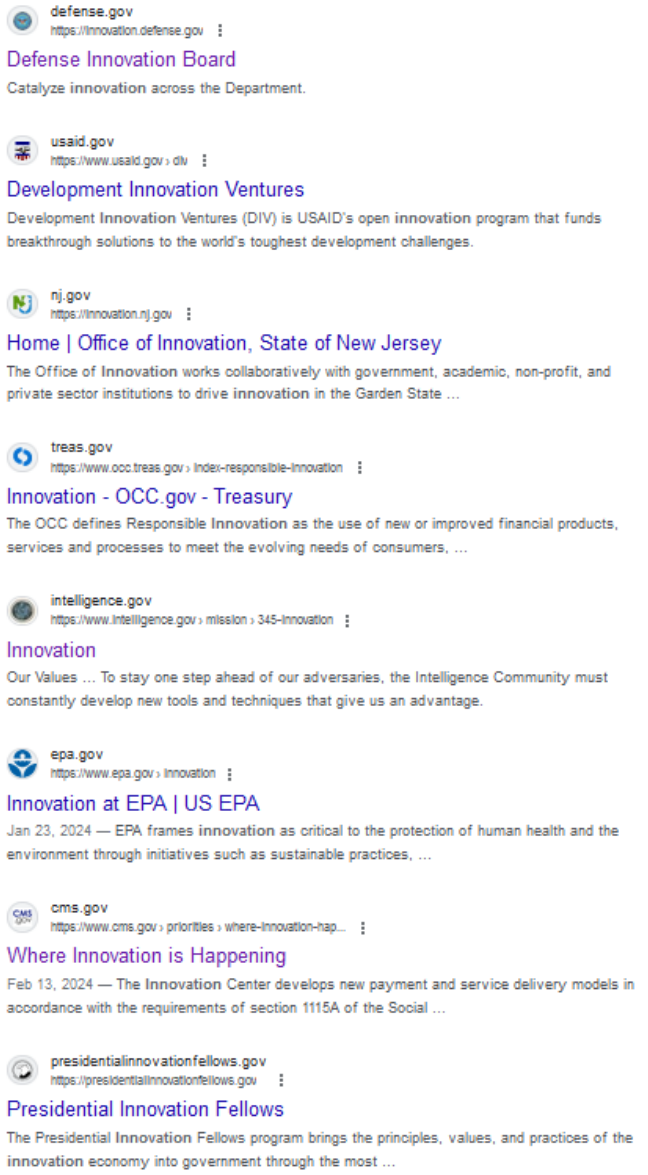
IQT - Labs

An Open Source Capabilities Shop

An open source, agile, and collaborative approach to national security.

https://www.iqt.org/labs/

Google: Innovation site:.gov



defense.gov
https://innovation.defense.gov

Defense Innovation Board

Catalyze innovation across the Department.

usaid.gov
https://www.usaid.gov › div

Development Innovation Ventures

Development Innovation Ventures (DIV) is USAID's open innovation program that funds breakthrough solutions to the world's toughest development challenges.

nj.gov
https://innovation.nj.gov

Home | Office of Innovation, State of New Jersey

The Office of Innovation works collaboratively with government, academic, non-profit, and private sector institutions to drive innovation in the Garden State ...

treas.gov
https://www.occ.treas.gov › index-responsible-innovation

Innovation - OCC.gov - Treasury

The OCC defines Responsible Innovation as the use of new or improved financial products, services and processes to meet the evolving needs of consumers, ...

intelligence.gov
https://www.intelligence.gov › mission › 345-Innovation

Innovation

Our Values ... To stay one step ahead of our adversaries, the Intelligence Community must constantly develop new tools and techniques that give us an advantage.

epa.gov
https://www.epa.gov › innovation

Innovation at EPA | US EPA

Jan 23, 2024 — EPA frames innovation as critical to the protection of human health and the environment through initiatives such as sustainable practices, ...

cms.gov
https://www.cms.gov › priorities › where-innovation-hap...

Where Innovation is Happening

Feb 13, 2024 — The Innovation Center develops new payment and service delivery models in accordance with the requirements of section 1115A of the Social ...

presidentialinnovationfellows.gov
https://presidentialinnovationfellows.gov

Presidential Innovation Fellows

The Presidential Innovation Fellows program brings the principles, values, and practices of the innovation economy into government through the most ...

Google: Innovation site:va.gov

va.gov
https://www.innovation.va.gov

Office of Healthcare Innovation and Learning: VHA

Embrace a world of possibilities as we pave the way for cutting-edge advancements, foster growth through immersive learning experiences, and drive ...

Innovation Ecosystem · Ccpi · iEX 2023 · About

va.gov
https://www.pathfinder.va.gov › internal › learn › defini...

Defining Innovation

Innovation is the practical implementation of ideas, methods, or devices that solves a problem, introduces new offerings, or improves existing processes. But ...

va.gov
https://pathfinder.va.gov › innovate

Innovate with VA - VA Pathfinder

Innovation is the practical implementation of ideas, methods or devices that solves a problem, introduces new offerings, or improves existing processes. VA ...

va.gov
https://www.innovation.va.gov › ecosystem › views

VA | VHA Innovation Ecosystem

VHA IE fosters the discovery and spread of **innovative** Veteran healthcare in the nation's largest healthcare system.

va.gov
https://www.innovation.va.gov › ecosystem › views › i...

Innovators Network | VHA Innovation Ecosystem

VHA Innovators Network (iNET) is a bustling community of employees united by a desire to solve health care problems and engage in shared learning.

va.gov
https://www.ci2i.research.va.gov

Center for Innovation to Implementation (Ci2i) Home

The mission of the Center for **Innovation** to Implementation (Ci2i) is to foster high-value health care for Veterans. We will do so by identifying opportunities ...

va.gov
https://www.innovation.va.gov › views › about › mission

About | VHA Innovation Ecosystem

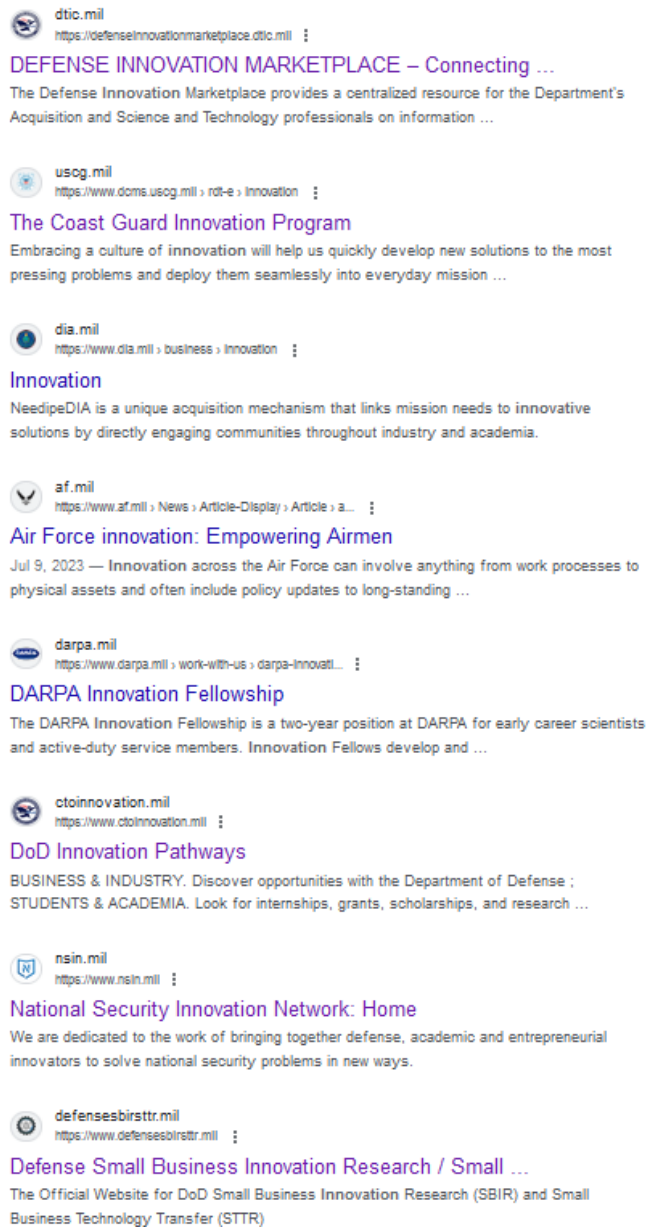
VHA IE is comprised of three core portfolios that work together to identify, mature, and diffuse **innovations** across the country. Innovators Network: Growing a ...

va.gov
https://news.va.gov › category › va-innovations

VA Innovations - VA News

The 2023 **Innovation** Experience showcases the best of VA **innovation** and the impact of VA

Google:
Innovation site:.mil



dtic.mil
https://defenseinnovationmarketplace.dtic.mil
DEFENSE INNOVATION MARKETPLACE – Connecting ...
The Defense **Innovation** Marketplace provides a centralized resource for the Department's Acquisition and Science and Technology professionals on information ...

uscg.mil
https://www.dcms.uscg.mil › rdt-e › innovation
The Coast Guard Innovation Program
Embracing a culture of **innovation** will help us quickly develop new solutions to the most pressing problems and deploy them seamlessly into everyday mission ...

dia.mil
https://www.dia.mil › business › innovation
Innovation
NeedipeDIA is a unique acquisition mechanism that links mission needs to **innovative** solutions by directly engaging communities throughout industry and academia.

af.mil
https://www.af.mil › News › Article-Display › Article › a...
Air Force innovation: Empowering Airmen
Jul 9, 2023 — **Innovation** across the Air Force can involve anything from work processes to physical assets and often include policy updates to long-standing ...

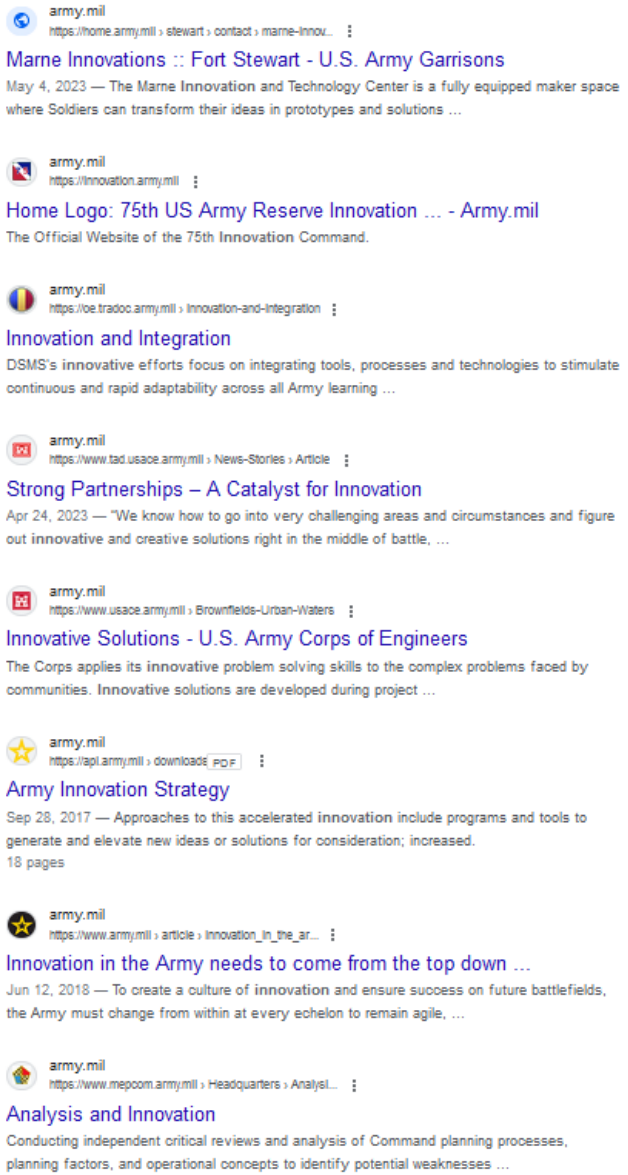
darpa.mil
https://www.darpa.mil › work-with-us › darpa-innovati...
DARPA Innovation Fellowship
The DARPA **Innovation** Fellowship is a two-year position at DARPA for early career scientists and active-duty service members. **Innovation** Fellows develop and ...

ctoinnovation.mil
https://www.ctoinnovation.mil
DoD Innovation Pathways
BUSINESS & INDUSTRY. Discover opportunities with the Department of Defense ; STUDENTS & ACADEMIA. Look for internships, grants, scholarships, and research ...

nsin.mil
https://www.nsin.mil
National Security Innovation Network: Home
We are dedicated to the work of bringing together defense, academic and entrepreneurial innovators to solve national security problems in new ways.

defensesbirsttr.mil
https://www.defensesbirsttr.mil
Defense Small Business Innovation Research / Small ...
The Official Website for DoD Small Business **Innovation** Research (SBIR) and Small Business Technology Transfer (STTR)

Google: Innovation site:army.mil

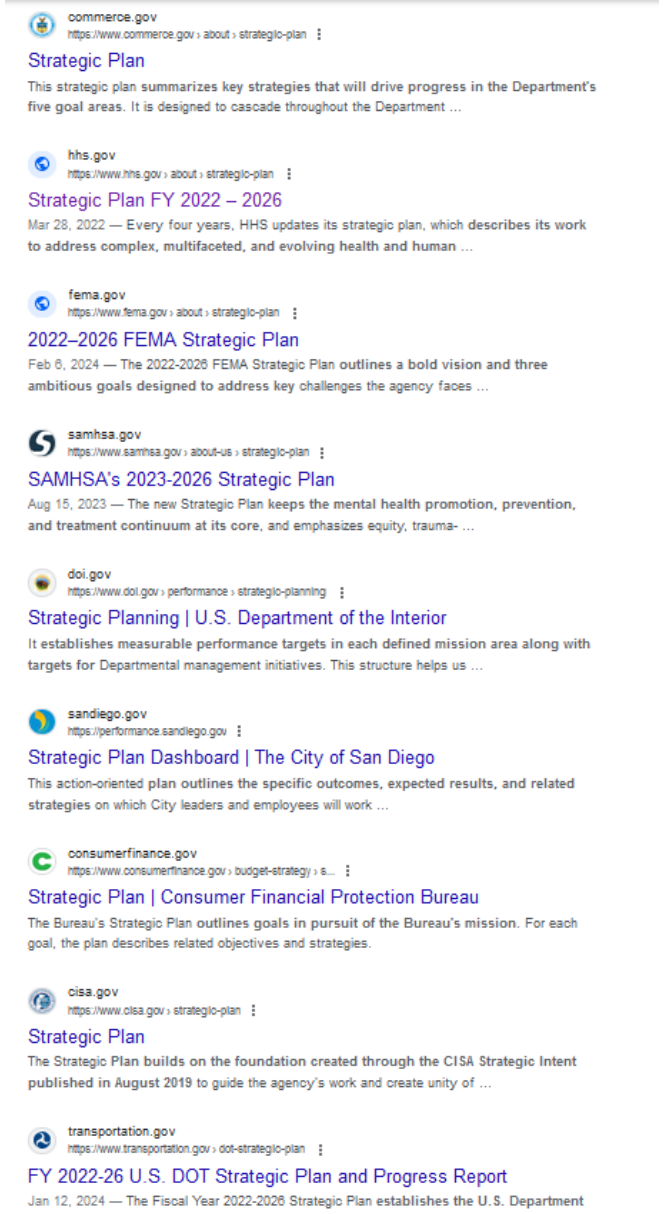


Wisconsin Procurement Institute
An APEX Accelerator

Strategic Plans

- eGov Act – Dec 2002
- Requires Strategic Plans to be publicly accessible
- Types
  - Top level – Agency/Office
  - Environmental
  - Green
  - Human Capital
  - Information Technology

Google:
strategic plan site:.gov



commerce.gov
https://www.commerce.gov › about › strategic-plan

Strategic Plan

This strategic plan summarizes key strategies that will drive progress in the Department's five goal areas. It is designed to cascade throughout the Department ...

hhs.gov
https://www.hhs.gov › about › strategic-plan

Strategic Plan FY 2022 – 2026

Mar 28, 2022 — Every four years, HHS updates its strategic plan, which describes its work to address complex, multifaceted, and evolving health and human ...

fema.gov
https://www.fema.gov › about › strategic-plan

2022–2026 FEMA Strategic Plan

Feb 6, 2024 — The 2022-2026 FEMA Strategic Plan outlines a bold vision and three ambitious goals designed to address key challenges the agency faces ...

samhsa.gov
https://www.samhsa.gov › about-us › strategic-plan

SAMHSA's 2023-2026 Strategic Plan

Aug 15, 2023 — The new Strategic Plan keeps the mental health promotion, prevention, and treatment continuum at its core, and emphasizes equity, trauma- ...

doi.gov
https://www.doi.gov › performance › strategic-planning

Strategic Planning | U.S. Department of the Interior

It establishes measurable performance targets in each defined mission area along with targets for Departmental management initiatives. This structure helps us ...

sandiego.gov
https://performance.sandiego.gov

Strategic Plan Dashboard | The City of San Diego

This action-oriented plan outlines the specific outcomes, expected results, and related strategies on which City leaders and employees will work ...

consumerfinance.gov
https://www.consumerfinance.gov › budget-strategy › s...

Strategic Plan | Consumer Financial Protection Bureau

The Bureau's Strategic Plan outlines goals in pursuit of the Bureau's mission. For each goal, the plan describes related objectives and strategies.

cisa.gov
https://www.cisa.gov › strategic-plan

Strategic Plan

The Strategic Plan builds on the foundation created through the CISA Strategic Intent published in August 2019 to guide the agency's work and create unity of ...

transportation.gov
https://www.transportation.gov › dot-strategic-plan

FY 2022-26 U.S. DOT Strategic Plan and Progress Report

Jan 12, 2024 — The Fiscal Year 2022-2026 Strategic Plan establishes the U.S. Department

Strategic Plans

strategic plan site:.gov +data

nc.gov
https://files.nc.gov › nodit › documents › files › D... PDF

Department of Information Technology STRATEGIC PLAN ...

This strategic plan primarily focuses on how DIT will function internally and will be updated as we continue to centralize and solidify the future-state ...

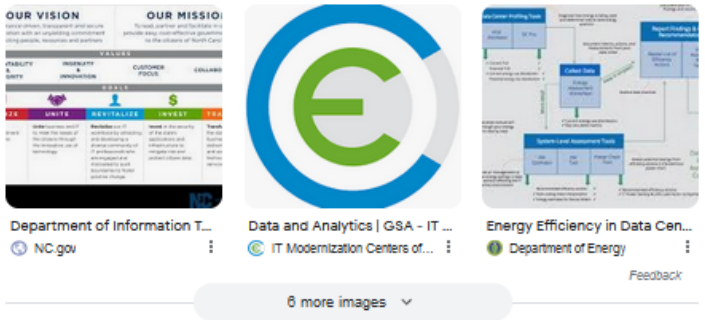
58 pages

gsa.gov
https://coe.gsa.gov › coe › data-analytics

Data and Analytics - IT Modernization Centers of Excellence

The strategy is delivered with a well-defined implementation plan that includes year-long projects, benefits and risks. Service Offerings. Enterprise Data ...

Images



Department of Information T...
NC.gov

Data and Analytics | GSA - IT ...
IT Modernization Centers of...

Energy Efficiency in Data Cen...
Department of Energy

Feedback

6 more images

ed.gov
https://nces.ed.gov › forum › data_governance_c... PDF

Data Governance Checklist (PDF)

Adopting and enforcing clear policies and procedures in a written data stewardship plan is necessary to ensure that everyone in the organization understands ...

7 pages

cio.gov
https://www.cio.gov › handbook › key-stakeholders › cdo

4.3 Chief Data Officer (CDO)

Agency CDO responsibilities include: [Responsible] for lifecycle data management;; Coordinate with any official in the agency responsible for using, protecting, ...

house.gov
https://armedservices.house.gov › sites › files PDF

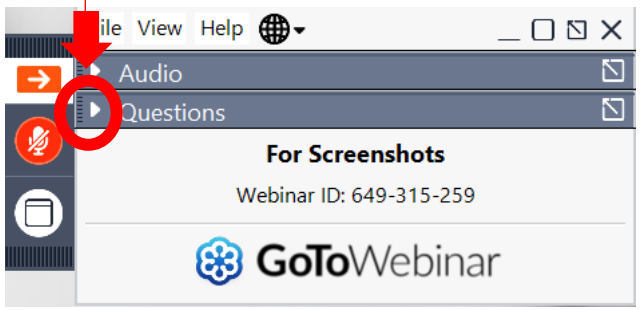
Chief Digital and Artificial Intelligence Office

Mar 9, 2023 — the National Defense Strategy and Strategic Management Plan. We are ... We

QUESTIONS?

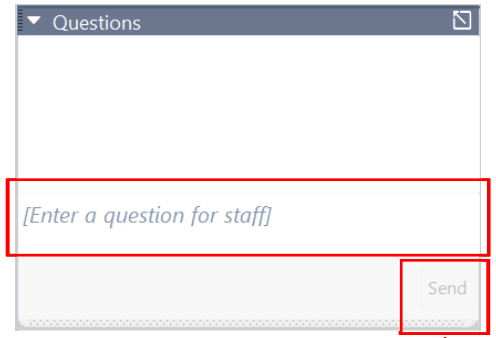
OPENING THE QUESTIONS BOX

Click here to access within the Control Panel



USING THE QUESTIONS BOX

Type questions here at any time during a presentation



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- **February 6,** Session 2: FAR Parts 1-4
- **February 293,** Session 3: FAR Parts 5-12
- **February 20,** Session 4: FAR Parts 13-18
- **February 27,** Session 5: FAR Parts 19-29
- **March 5,** Session 6: FAR Parts 30-33
- **March 12,** Session 7: FAR Parts 34-41
- **March 19,** Session 8: FAR Parts 42-53

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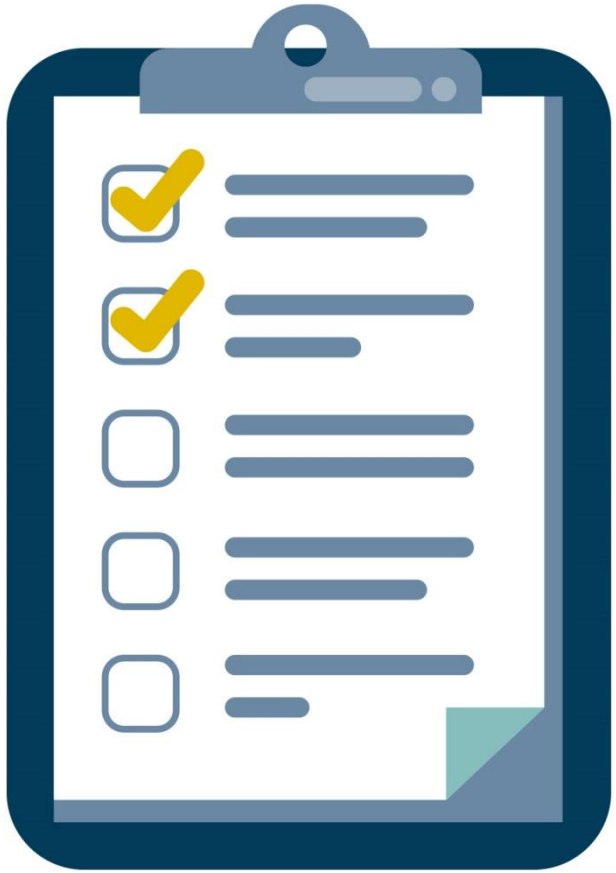

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