



Disruption Impossible: US Government Edition

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Unclassified

670,000 Users supported

\$1.9 B FY24 SPEND **138** TOTAL OFFERINGS
Across four solution areas:

CYBERSECURITY & IT LIFECYCLE

\$647 M FY24 SPEND **60** OFFERINGS

DIGITAL WORKPLACE

\$613 M FY24 SPEND **30** OFFERINGS

IT INFRASTRUCTURE

\$493 M FY24 SPEND **39** OFFERINGS

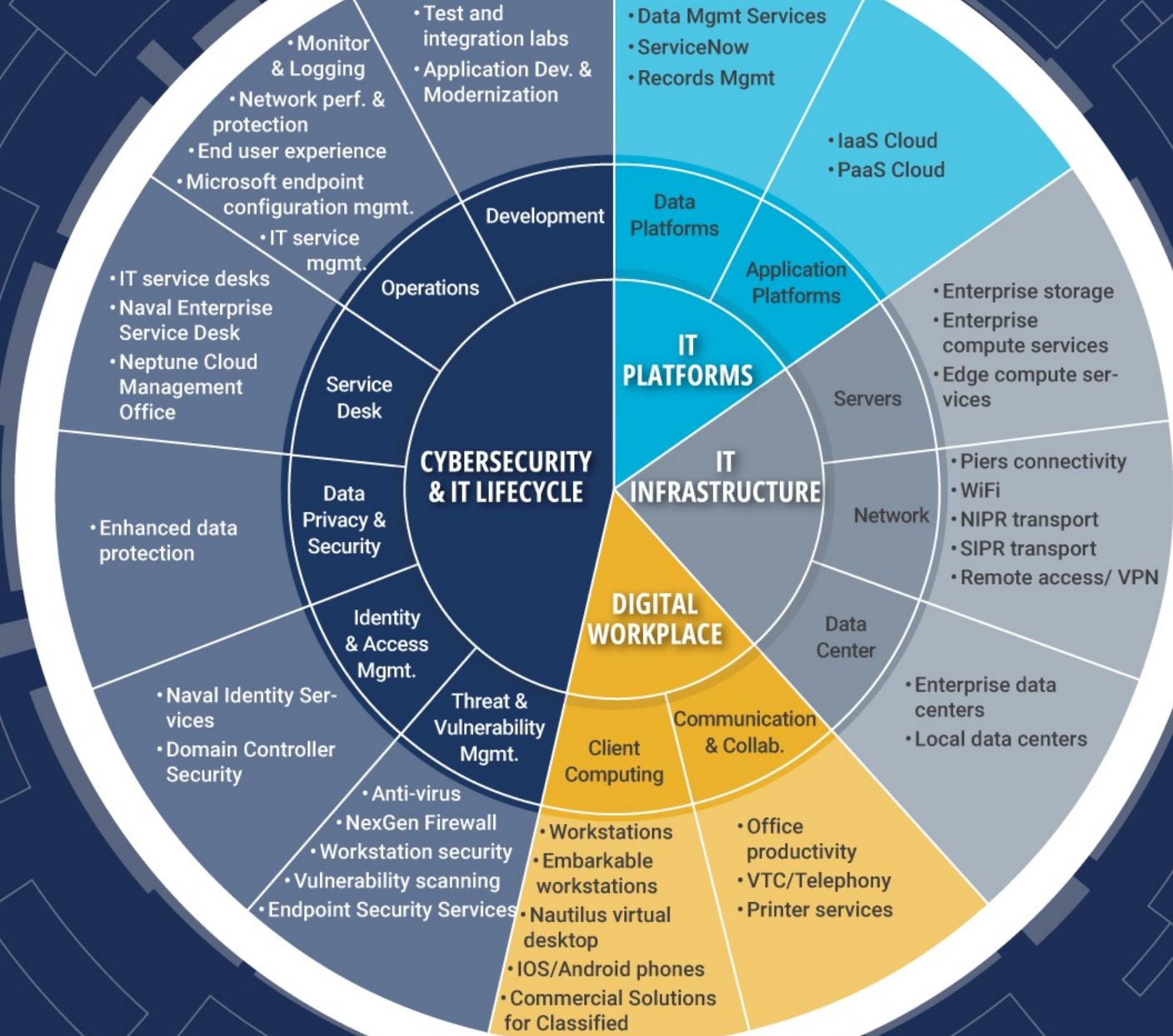
IT PLATFORMS

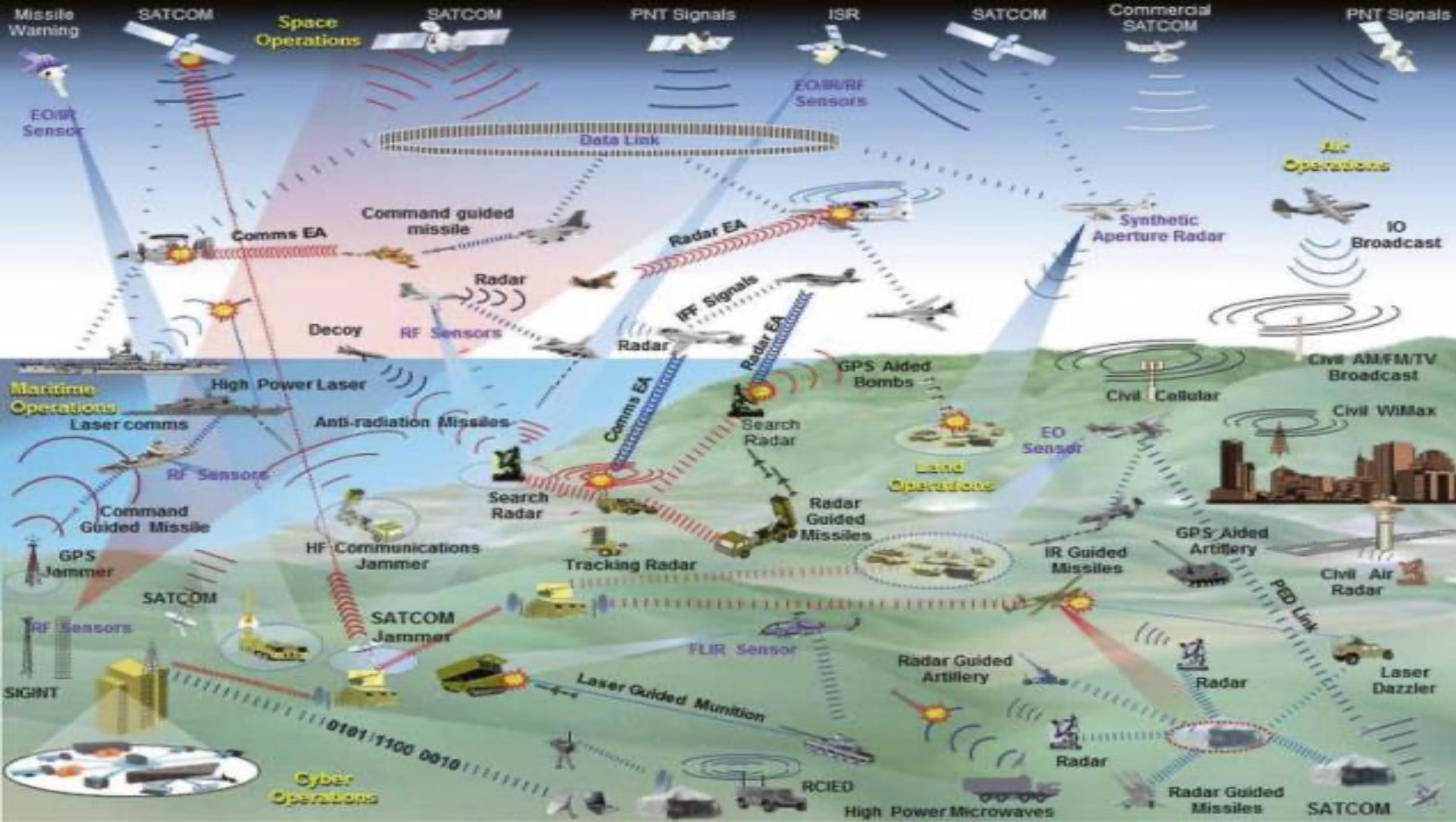
\$133 M FY24 SPEND **9** OFFERINGS

PRODUCT LINES

- NMCI: legacy Navy CONUS enterprise network
- ONE-Net: Legacy Navy OCONUS enterprise network
- MCEN: Marine Corps Enterprise Network
- Flank Speed: Navy enterprise cloud platform
- Nautilus: Navy cloud-managed end-user solutions

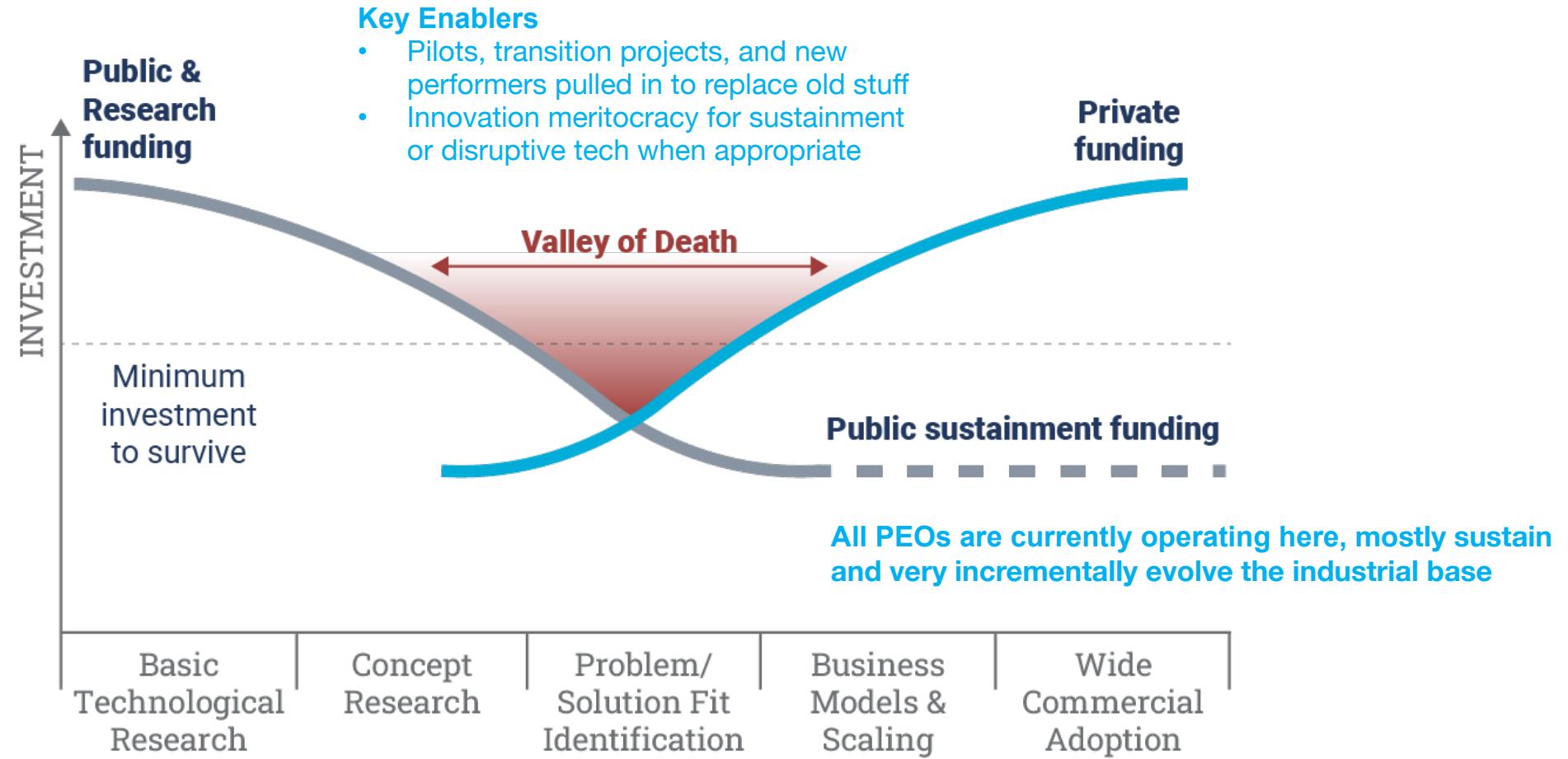
Does not depict all offerings







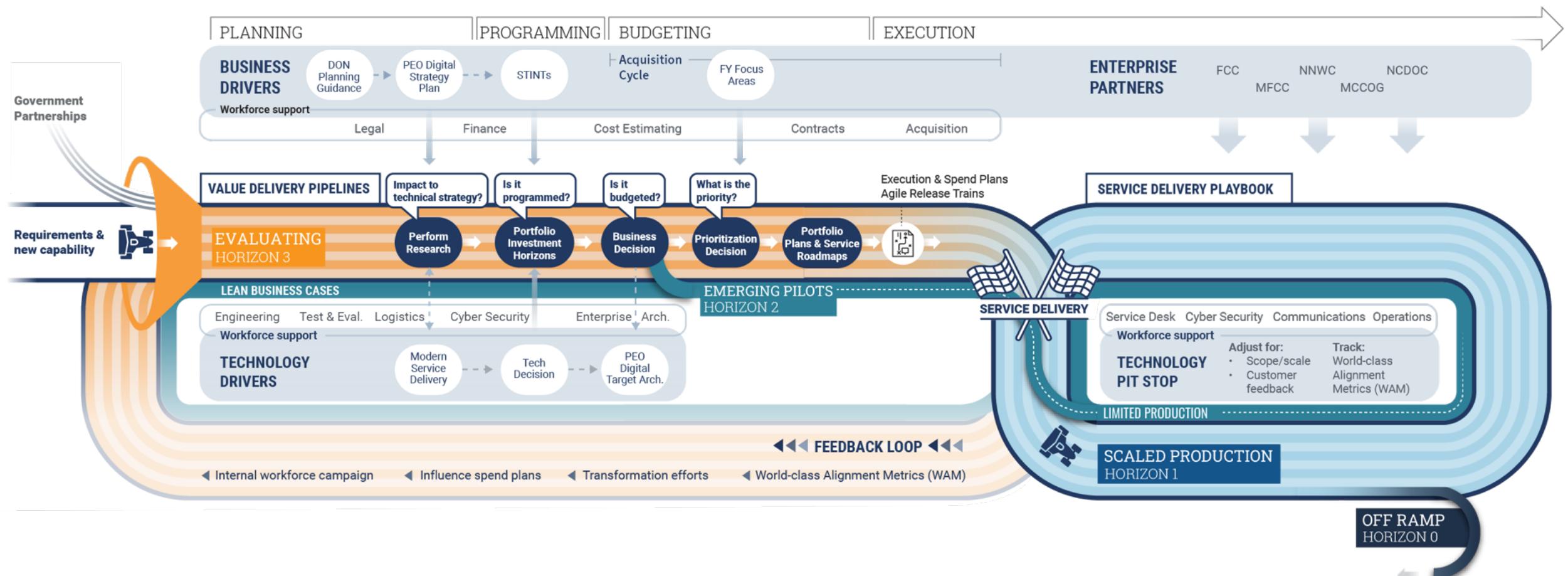
Valley of Death

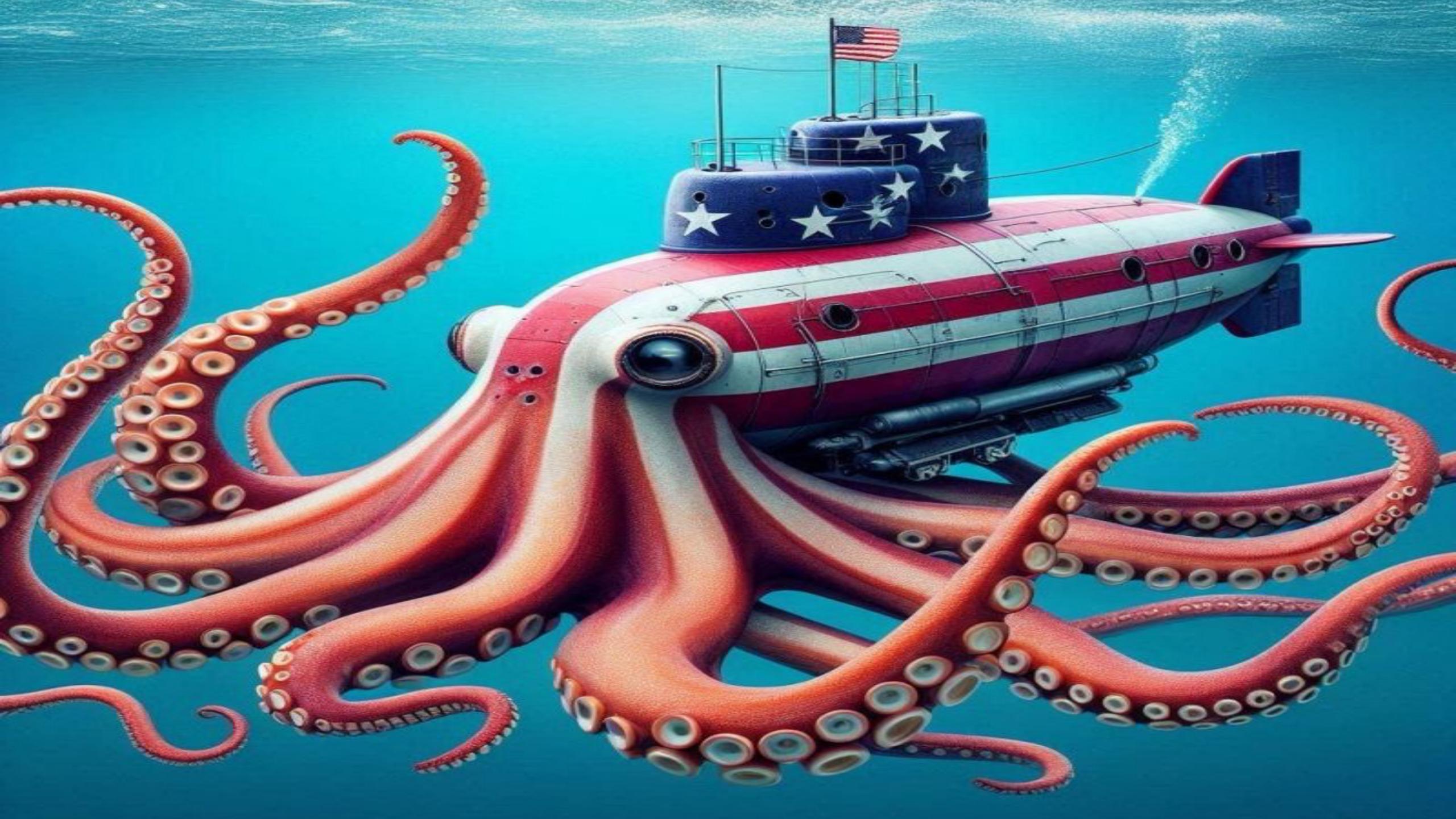


The Key Enablers are how we solve for the Valley of Death



Strategy through Execution: A Dept of Navy Model







Black Pearl

BLACK PEARL is a proven, **secure DevSecOps platform** that unifies and streamlines software development across the DoN. It provides:

- ⚡ DevSecOps Turn-Key Tooling
- ⚡ Infrastructure as code and Configuration as code
- ⚡ Kubernetes Development and Containerization Services
- ⚡ Zero-Trust Security & Cluster Compliance



STAND UP FAST, COST-EFFECTIVE SOFTWARE FACTORIES AND GAIN ALL OF THE CAPABILITIES TO EFFICIENTLY DEPLOY SOFTWARE:

Rapid Development Times: Gain pre-existing **Authority to Operate**

Central Environment: Access all of the required building blocks and **ready-to-use interfaces** for efficient testing, delivery, and deployment

Secure cloud environment and automation: Quick response to cyber vulnerabilities

THE DON SOFTWARE FACTORY ECOSYSTEM

Lighthouse

The core software platform that powers the DevSecOps environment as well as the production runtime environment where applications are deployed.



Party Barge

The common DevSecOps environment offered as a Software as a Service to the Naval Enterprise.



NAVAL IDENTITY SERVICES

NIS's main functions are:

IDENTITY

Radiant Logic (Directory)

NIS builds a robust identity to define users based on EDIPI, UPN, and attributes like role and training.



SailPoint (Access)

AUTHENTICATION

Ping (Authentication)

Authentication proves you are who you say you are. Occurs when a user is using a system.

\$ Audit relevant systems

All integrated systems are currently IL5 and below.

CyberArk (Privileged Access Management)

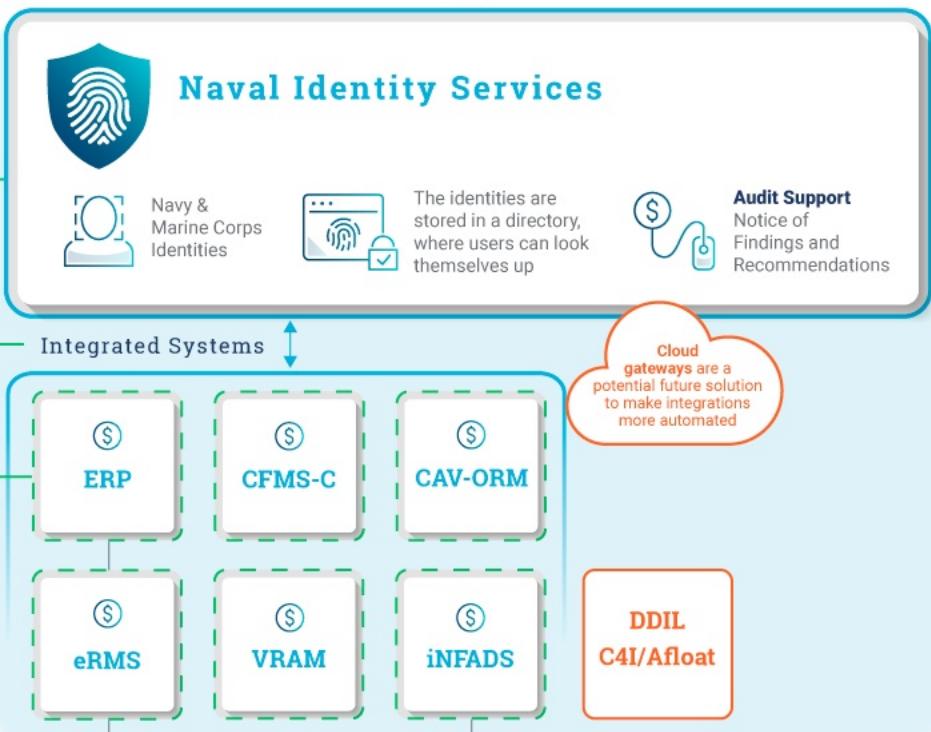
DON ICAM

DEPARTMENT OF THE NAVY

IDENTITY, CREDENTIAL, AND ACCESS MANAGEMENT



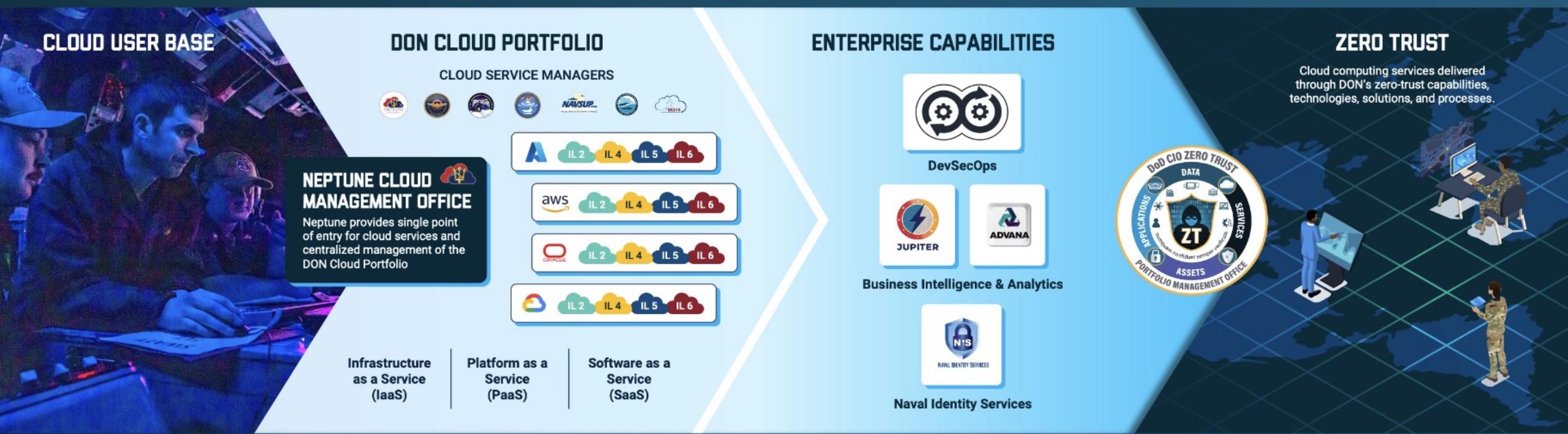
GFUD is the authoritative source of identity elements to all of the following three identity providers



USERS



Neptune Cloud Management Office



CURRENT STATE

- Multiple cloud environments managed at command level
- Duplicative capabilities, services, and processes
- Customers perform their own analysis
- Various cloud contracts
- Limited visibility

GOALS

- Centrally managed cloud portfolio
- Minimal duplication
- Cloud Concierge Service
- Rationalized cloud contracts
- Robust cloud dashboards

BENEFITS

- Rationalized and optimized DON cloud portfolio/ Informed business decisions**
 - Adaptability & Mobility*
- Rationalized cloud contracts via JWCC**
 - Cost Per User*

- Simplified customer evaluation and onboarding process**
 - Customer Experience*
 - User Time Lost*
- Cost Savings**

*World-Class Alignment Metrics





Nautilus Ecosystem

NAUTILUS DEVICES



Transform your NMCI computer or a brand new device into a **cloud-managed Nautilus Device** and gain quick and secure access to Flank Speed Services, with none of the delays.

NAUTILUS VIRTUAL DESKTOP (NVD)



Gain access to a **cloud-based virtual workstation** from any device, such as your personal laptop or tablet, without losing access to the information that is important to you.

NAUTILUS CONNECT



Download **applications** such as Outlook and Teams on your personal phone and gain the ability to stay connected on the go.

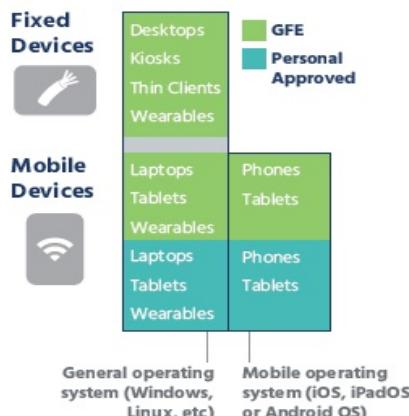


UNIFIED ENDPOINTS

Endpoint devices (mobile and fixed) are currently resourced within each system requiring them. This results in redundant devices for sailors, an incoherent approach, and wasteful spending. To drastically improve Quality of Work (QoW) and Quality of Life (QoL), Navy will designate a centralized Unified Endpoint Enterprise Service to include hardware procurement, distribution and sustainment, device management, and modern application hosting and vetting.

ENDPOINTS DEFINED

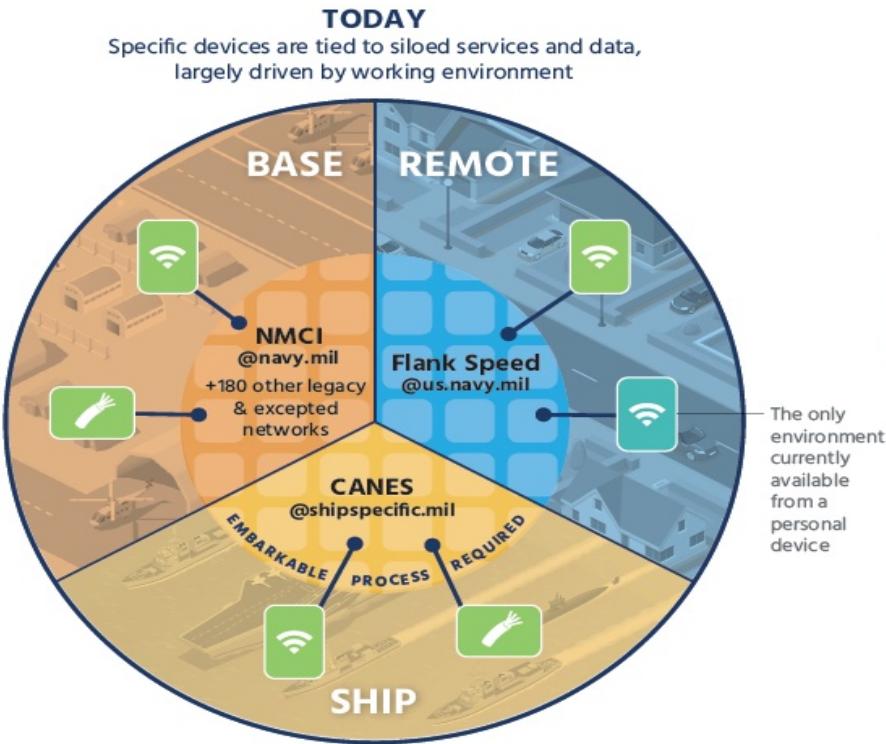
The strategy will encompass a wholistic view of all endpoints across the DON.



NOTE: The success of these efforts assume the availability of sufficient infrastructure for connectivity to commercial cloud services, via any transport.

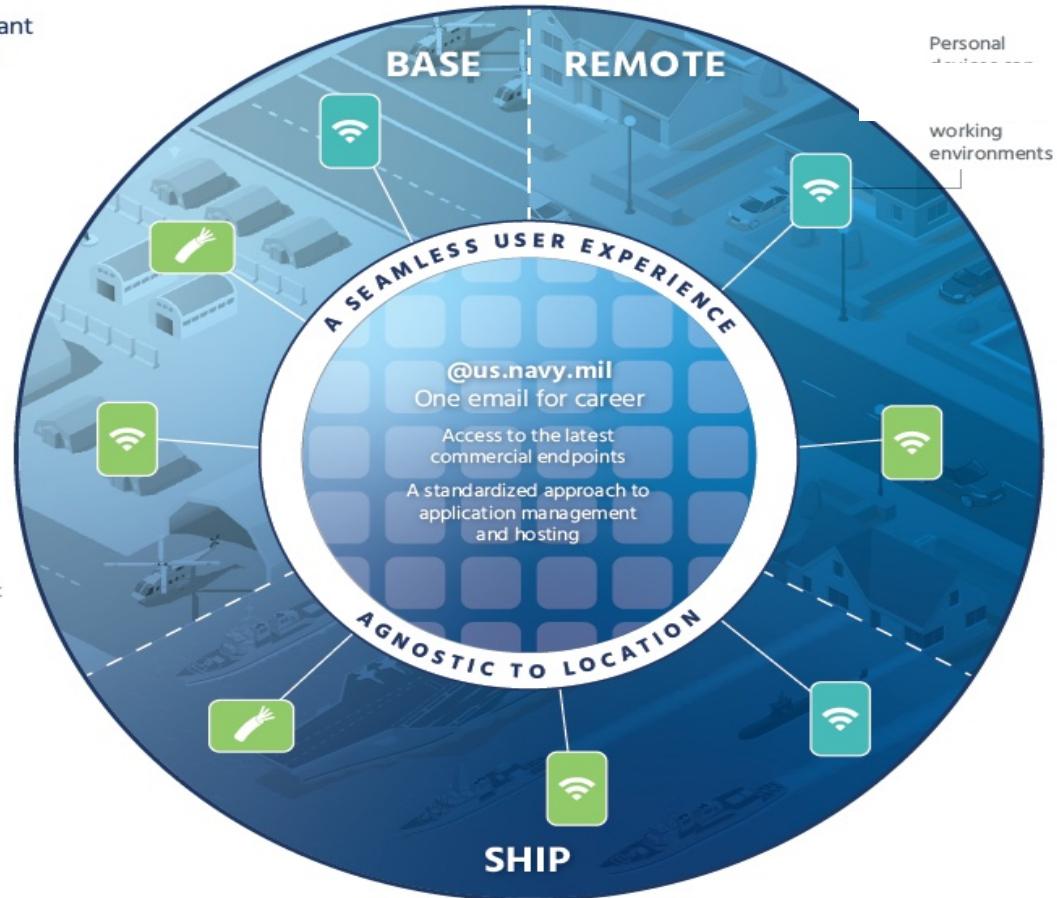
AN ENTERPRISE SERVICE FOR DON DEVICES

The following are the necessary components of a Navy centralized Unified Endpoints Enterprise Service.



WITH UNIFIED ENDPOINTS

All QoW and QoL services and data are available from any device, in any working environment



MODERN OPTIONS FOR TRANSPORT

Many installations will require diverse transport solutions to support telecommunications—the transmission, emission, or reception of intelligence of any nature, by any electronic, electric, electromagnetic, or acoustically coupled means. Intent is to be commercial agnostic; use any or all as needed for mission, resiliency, and availability.

OFF BASE TRANSPORT



CELLULAR

From LTE, to 5G, to future G, cellular technologies continue to mature. Future states will keep pace with new generations.



SATELLITE

Proliferated Low Earth Orbit (pLEO e.g., Starlink) is the focus given current accelerating expansion, but Medium Earth orbit (e.g., O3b) still has a role.



FIBER

Today largely leverages DoD DODIN leased fiber optic cable circuits. Future states will include a mix of commercial cabling as well.

ON BASE TRANSPORT



Optical switches are the industry standard; install new or convert existing fiber copper switches.



In the Sailor Edge Afloat and Ashore (SEA2) wireless pilot, 5G, Starshield, and Wi-Fi6 provide sailors, civilians, and contractors an edge via a scalable and standardized guest wireless capability.

READY TO LEARN MORE?

Damon Regan

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INSTALLATION OF THE FUTURE

The aspirational Last Mile future state includes installations that leverage commercial transport services. Transport methods and site core services are orderable to best support the unique functions & resiliency requirements of each installation.

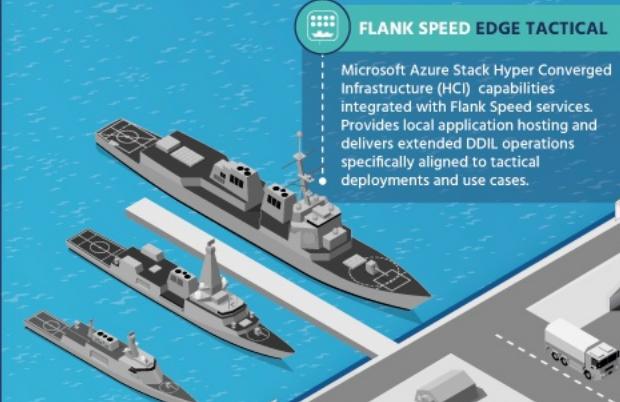
WHAT IS THE LAST MILE?

OFF BASE TRANSPORT

ON BASE TRANSPORT

SITE CORE SERVICES

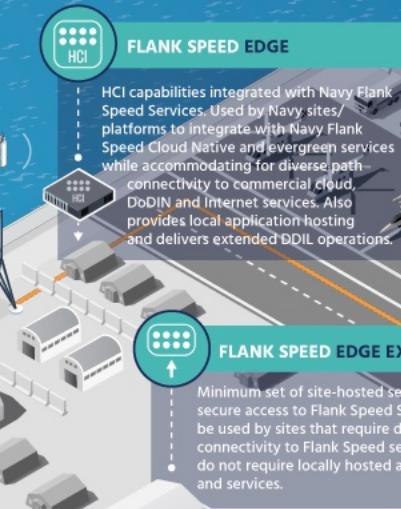
END USER DEVICES*



FLANK SPEED DIRECT

FLANK SPEED DIRECT

Access to Navy Flank Speed Cloud Native and Evergreen services directly from commercial Internet transport. Supports remote scenarios.



DoD DODIN leased fiber optic cables

SYSTEMS FOR CONSIDERATION APPROVED OR GOVERNMENT FURNISHED DEVICES

Managed GFE and personal devices will use the internet for NVD, web apps, and managed applications.

WORKSTATIONS

To migrate to the cloud, users must first migrate their share drive to Share Point or One Drive.

TELEPHONY

Legacy systems will be replaced with modern ones like Voice over Internet Protocol and Teams calling.



INTERNET OF THINGS (IoT)
Many types of IoT may be encountered, including control systems that need to be accounted for when making transport decisions.

IMPLEMENTATION WILL TAKE PLACE IN PHASES:

① BUILDING

Start small, with a building that has forward-leaning personnel, but whose mission could withstand potential outages. The chosen building should have a diversity of systems so that troubleshooting can occur before expansion.

② GROUP OF BUILDINGS

As the effort expands there will be additional considerations to account for. Some areas may not allow commercial wireless access. If the initial building fully supported wireless, there are likely now wired considerations to be made.

③ BASE-WIDE

The final, comprehensive phase integrates systems base-wide. This provides the installation commander with cloud-native sensors, dashboards, and services to manage IT and operational technology across commercial and private telecom use cases.

*End user devices are accounted for in the "Fix My Computer" effort.





Atlantic Council and more

Atlantic Council Commission on Defense Innovation Adoption final report

"We have found that the United States does not have an *innovation* problem, but rather an *innovation adoption* problem... the DoD struggles to identify, adopt, integrate, and field these technologies into military applications."

The report has ten policy recommendations and features eight vignettes that explore how these actions may play out in practice.

PEO Digital is featured in three of these vignettes:

- Pivoting to modern information-technology capability portfolio management
- Modernizing capability requirements
- Communicating demand signal to leverage commercial-sector innovation and adopt private-sector best practices

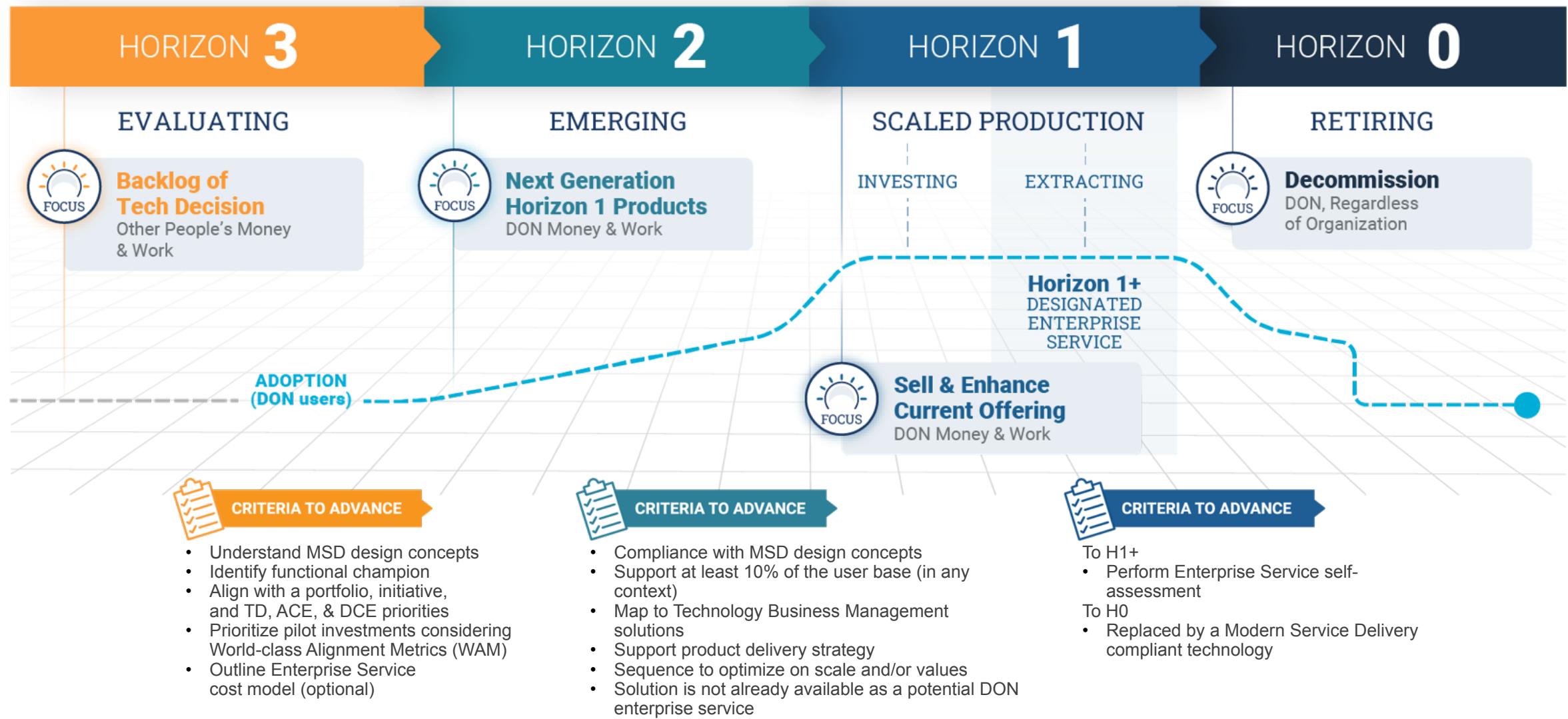




INNOVATION ADOPTION KIT



Investment Horizons Template



Top 10 Behaviors



Disrupt ourselves with **experiments**



Use before rent; rent before buy; buy before build



Beta earlier; a 10% solution is better than no solution



Partner bolder and as often as possible; leverage the success of others



Move with urgency and exercise a **bias toward speed**



Seek **simplicity** for scalability



Seamlessly deliver **customer-centric** technologies



Never duplicate, **always automate**



Reward innovation; make government IT cool to do and boring to maintain



Weaponize data to make better decisions at the speed of relevance



World-class Alignment Metrics (WAM)

MISSION OUTCOMES



USER TIME LOST

All computing transaction times



OPERATIONAL RESILIENCY

Cyber, Uptime, Fighting hurt



ADAPTABILITY / MOBILITY

Time to change (e.g. infrastructure, contracts, people)



CUSTOMER SATISFACTION

All subjective input (e.g. Net Promoter Scores)



COST PER USER

All costs (e.g. seats, sites, licenses)

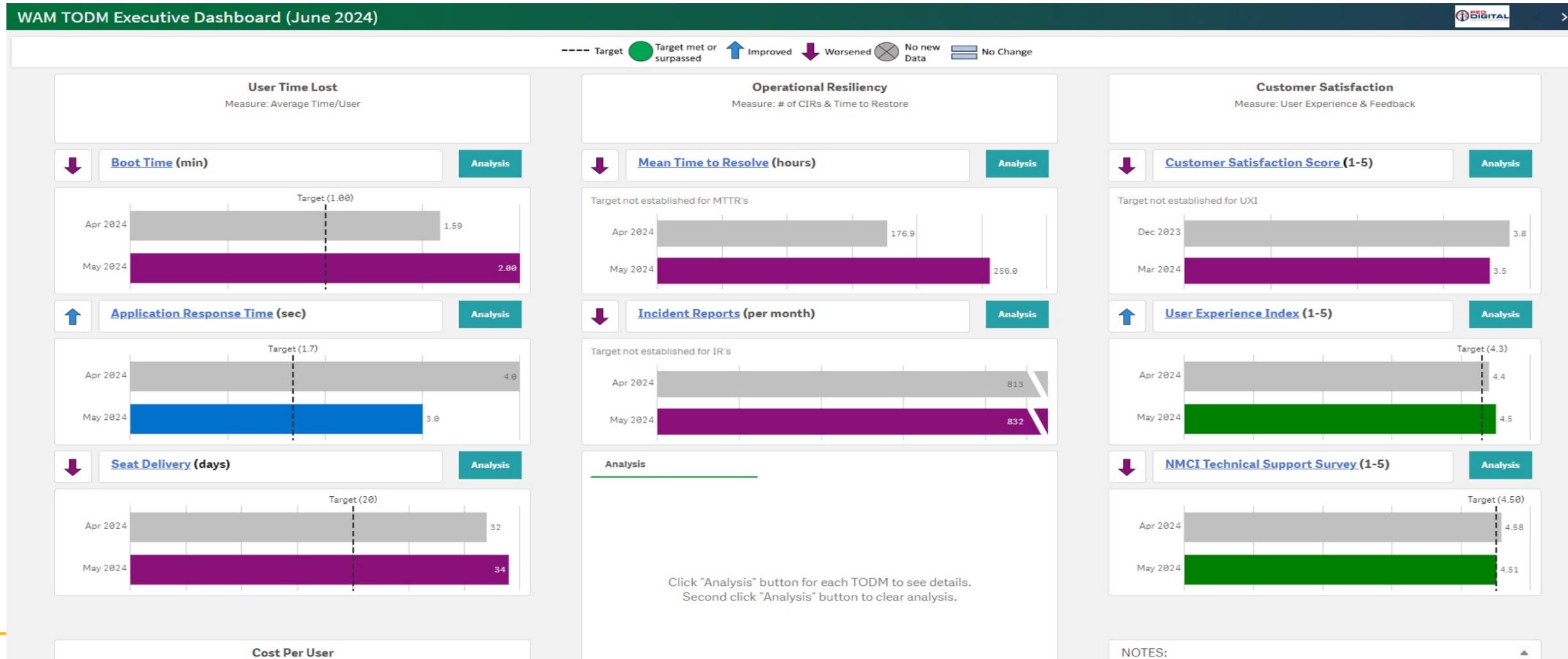
Overall goal: Drastically improved IT experience with increased resilience by end of CY2024 (25%)

Five metrics inform decisions on future technology investments:

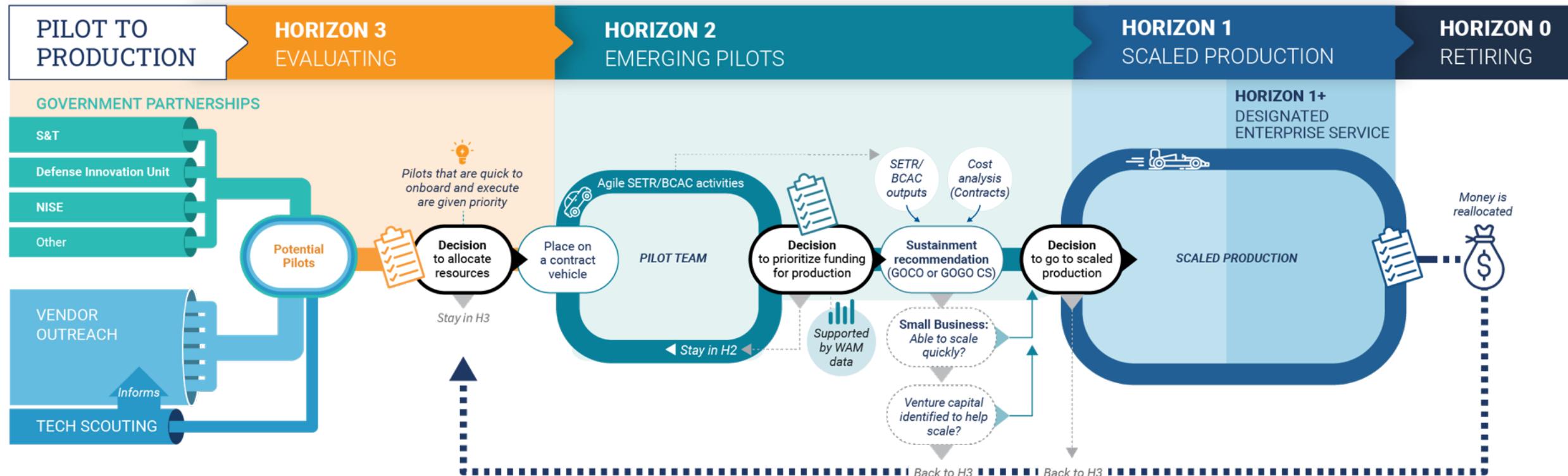


PEO Digital WAM TODM Executive Dashboard

<https://qlik.advana.data.mil/sense/app/21749203-0ead-4608-9100-3967af747fff/sheet/32fbf69a-1e9c-40f4-a8c9-90209ecd3995/state/analysis>



Structured Piloting





PEO Digital Pilots Dashboard

Pilot by Site Location

Site: Bremer... • Buildin... • BUPER... • CFA Sa... • Diego ... • El Salva... • Makala... • Makala... • NAS Ja... • NAS Oc... • Naval ... • Naval ... • Redzikow... • Portsmouth, Maine, US • Puerto Rico, US • San Diego, California, US • San Jose, California, US • Santa Rita, Guam, US • Sasebo, Japan • Sembawang, Singapore • Yokosuka, Japan

Size of Bubble - based upon the Mission Impact
If location has multiple pilots - portion of circle is based upon a value of mission impact * PSI condition.
Color of Site Legend = based upon PSI (Pilot Site Indicator) value

Pilot Reference # All Pilot Name All

See details Reset Map

Last Update: 6/27/2024 1:09:09 PM

For Detailed pilot info Right click on a pilot name and select Drill Through - Pilot Details

Pilot Transition Status

Transition Decision Count

Transition Decision with label

- A - Transitioned to H1
- B - Transitioning to H1
- C - Remain in H2 pending
- D - Still working in H2
- E - Killed

Transition Decisions

- A - Transitioned to H1
- B - Transitioning to H1
- C - Remaining in H2 until transition decision can be determined
- D - Still being worked in H2
- E - Killed

Pilot Details

Pilot Reference #	Pilot Name	Transition Decision with label	Killed Reason
P24-23	C3 Gen AI in the Navy Reserve IL5 GovCloud	E - Killed	
P24-18	MIU Archer	D - Still working in H2	
P24-01	Transition Decisions	B - Transitioning to H1	
P23-22	ITSM Rationalization	D - Still working in H2	
P23-27	CUI Categorizer	D - Still working in H2	
P24-02	Fdn Comms	D - Still working in H2	

PEO DES Portfolio Alignment

PEO DES Portfolio

- Cyber Security & Operational Services
- Infrastructure Services
- End User Services
- Platform Application Services
- Digital Workplace Services

Pilot Funding

Funded unit... Other People...

Transition Decision Count

Transition Decision

- D - Still working in H2
- A - Transitioned to H1
- E - Killed
- C - Remain in H2 pending
- B - Transitioning to H1

List of Pilots

Pilot Ref#	Pilot Name	Theme
P24-08	HCI DDIL/Stack	Last Mile, INOCCS
P23-25	QoL/QoW, Tactical ADNS, & JFN connectivity	Last Mile
P24-21	*Ech3 pilot staffing 6 on 5	INOCCS, SIPR 2.0
P23-23	API Gateway	Automation
P23-20	ATO Process Automation	Automation
P24-24	Automated Security Validation	Automation
P24-24	Axonius	INOCCS
P23-05	Azure Cloud Native Access Point (CNAP)	Cloud
P23-21	BAN/LAN Remediation	Last Mile
P24-23	C3 Gen AI in the Navy Reserve IL5 GovCloud	Automation
P24-28	CfCs DAR	INOCCS
P24-11	Cloud Native Access Point (CNAP)	Last Mile
P24-07	CNCO (Cloud Native Defensive Cyber Operations)	INOCCS

Killed Details

Pilot Ref#	Pilot Name	Funded?	Funding Source / Vehicle	PEO DES Portfolio	Actual/Estm Start Date	VENDOR
P23-01	Microsoft Defender for Identity (Pilot for NNWC, FCC)	No	Cloud Native Access Point (CNAP)	Cyber Security & Operational Services	2024-01-01	Microsoft
P23-03	Scaling Virtual Desktop (Nautilus VD)	No	Cloud Native Access Point (CNAP)	Infrastructure Services	2024-01-01	Microsoft
P23-04	D-3PO (Digital Power Platform Process Optimization)	No	Cloud Native Access Point (CNAP)	Digital Workplace Services	2024-01-01	Microsoft
P23-05	Azure Cloud Native Access Point (CNAP)	No	Cloud Native Access Point (CNAP)	Platform Application Services	2024-01-01	Microsoft
P23-11	Data Cloud Migration	No	Cloud Native Access Point (CNAP)	Infrastructure Services	2024-01-01	Microsoft
P23-15	Power BI	No	Cloud Native Access Point (CNAP)	Digital Workplace Services	2024-01-01	Microsoft
P23-17	Customer Experience Measurement	No	Cloud Native Access Point (CNAP)	Cyber Security & Operational Services	2024-01-01	Microsoft
P23-19	Hyperconverged Infrastructure	No	Cloud Native Access Point (CNAP)	Infrastructure Services	2024-01-01	Microsoft
P24-01	Transition Decisions	No	Cloud Native Access Point (CNAP)	Infrastructure Services	2024-01-01	Microsoft
P23-07	Wireless BAN/LAN	No	Cloud Native Access Point (CNAP)	Digital Workplace Services	2024-01-01	Microsoft
P24-01b	SBIR Machine learning automation platform as a service (Originally: SBIR Machine Learning to Enhance Navy Service Desk)	No	Cloud Native Access Point (CNAP)	Digital Workplace Services	2024-01-01	Microsoft
P23-08	5G for Expeditionary Maritime Operations Center	No	Cloud Native Access Point (CNAP)	Cyber Security & Operational Services	2024-01-01	Microsoft

MODERNIZE

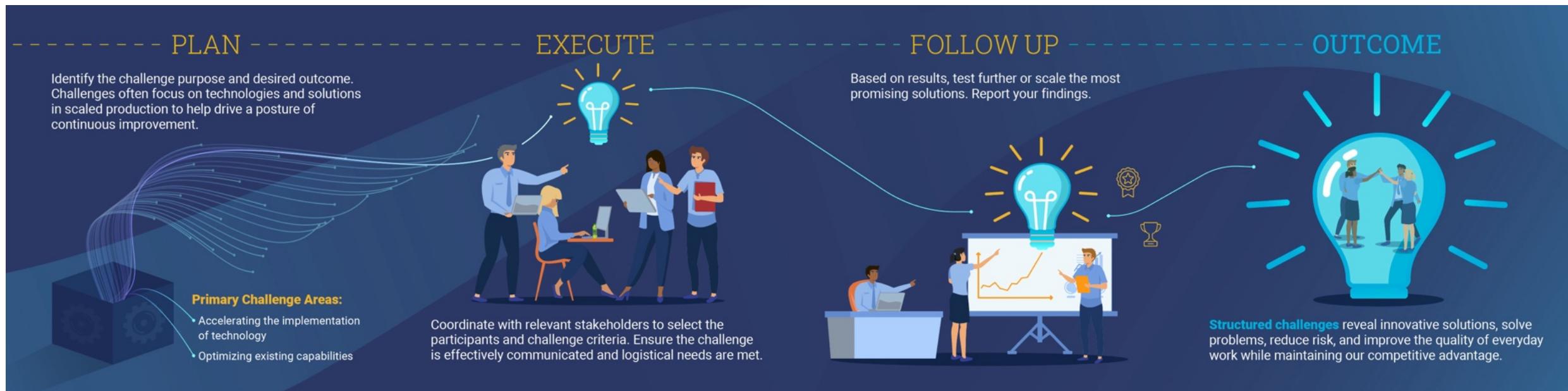
INNOVATE

DEFEND

Structured Challenges

A structured challenge is an organized event that solves specific problems and explores innovative solutions.

- Crowdsourcing innovation in a time boxed way
- These events are great ways to get input on how to solve for current challenges
- Bravo AI Battle Labs is one good example



Adaptive Roadmaps 1-2-3

From S&T to field planning, these three products together provide all of the relevant “roadmap” information needed to move teams in a common direction with a common goal.



Tech Horizons

Provides the full landscape of technology, from emerging to divestments; is the forcing function for what comes next.

Execution Schedule

A timeline and user/site based view of a technical implementation.

DOTMLPF-P Campaign Plan

Not every project will require a campaign plan but for those with tricky governance and urgency, this can be leveraged to get faster buy in and earlier visibility.

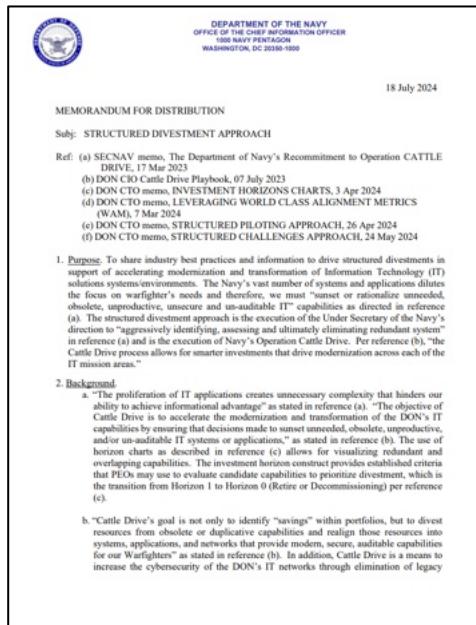
- Doctrine
- Organization
- Training
- Materiel
- Leadership and Education
- Personnel
- Facilities
- Policy



Structured Divestments

A structured divestment is sunsetting a production capability, system or program of record

“No government ever voluntarily reduces itself in size. Government programs, once launched, never disappear...the nearest thing to eternal life we'll ever see on this earth!”



[Enter Operation Cattle Drive](#)







Adobe Stock | #662819771



Help I'm Looking For

1. Revisit/Reframe
 - assumptions of what is possible from and with government
(+ the increasing public-private mesh)
2. Contribute
 - structured AI pilots with divestments
 - quantitative wins (existing and new)
3. Share