



Emerging Technology Accelerator

February 9, 2023

National Use Case and Solutions Library (NUCSL)

2022 Presentation



1 Adoption

First question previously presented:

What is the best go-to-market strategy to increase adoption?

Feedback for NUCSL Adoption:

- Develop tools that guide users through the use case process
- Incorporate incentives for industry to participate
- Increase clarity on the stakeholders, in particular for the acquisition community

Trending Feedback for NUCSL Adoption:

- Accelerator identify different ways to solve trending problems
- Increased awareness of the initiative and the tool provided the government is siloed

2 Shared Services

Second question previously presented:

What is the market opportunity for the NUCSL as a Federal shared service?

Feedback for the Initiative:

- Include the ability to remodel use cases to identify applied solutions from new models
- Structure the platform to include data sharing components
- Identify key areas that intersect across different sectors of the government (defense, intel, healthcare, law enforcement)

Trending Feedback for the Initiative:

- Identify unsolved problem statements across the government to reduce silos and accelerate identification of solutions
- Identify NUCSL partners with non-obvious connections to bridge silos in technology road mapping and use case development



Legislative, Regulatory, and Policy Applications

Use Case Methodology

- *Use case driven approach*
- *“As-is” and “to-be” gap analysis*
- *Technology road mapping*

• *FY23 National Defense Authorization Act (NDAA)*

• *Office of Management and Budget (OMB) Circulars A-123, A-11, and A-130*

• *Executive Order 13960*

• *Government Accountability Office’s recommendations for reaching a comprehensive national cyber strategy*

“To enable agencies to operate across organizational boundaries, coordinating between existing established programs and silos to improve delivery of the agency mission”

“As part of their respective inventories of AI **use cases**, agencies shall identify, review, and assess existing artificial intelligence (AI) deployed and operating in support of agency missions for any inconsistencies with this order”

Results and Challenges

We have a repository of emerging technology use cases, but we do not have a list of **problem statements...**

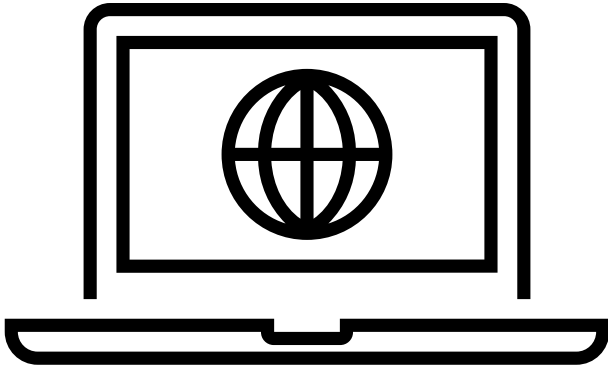
Initiative Results

No.	Result	Total
1.	"Use Case Summits".	3
2.	Use case presentations provided at the Use Case Summits and at the kick off from government, industry, and academia.	25
3.	Items submitted to NUCSL (i.e., not all are fully developed use cases).	281
4.	NUCSL white paper shared through ACT-IAC Communities of Interest, Public Private Partnerships, Federal Communities of Practice, and executive briefings.	350+
5.	Submissions for feedback to the government via Requests for Information.	2
6.	Incentive pilots conducted.	1

Initiative Challenges

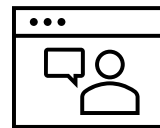
- Focus on government mission objectives and relevant **mission oriented use cases** paired with an agnostic approach to potential technologies
- Incorporate **data literacy** awareness and understanding throughout inter and intra agency efforts, including data standardization across emerging technology use cases
- **Collaborate with the Senior Procurement Executive and acquisition professionals early and often** throughout the process
- Assess the impacts to American citizens and **underrepresented populations** to inform customer service goals and outcomes
- Encourage inter and intra agency collaboration through workshopping and **"Use Case Summits"**

Use Case Repository Overview



NUCSL White Paper

- Focuses on policy considerations
- Provides four key recommendations:
 1. Federal Acquisition Regulation (FAR) Part 7.
 2. Chief Technology Officer Appointment.
 3. Successful Use Cases.
 4. Agency(ies) Sponsorship.



Pilot Platform

- Identifies use case organizations
- Tracks use cases through their full lifecycle
- Enables use case comparisons
- Provides dashboarding for further analysis

Data Captured: Risk(s), Rationale, Constraints, Transformation Enablers, Stakeholders, Business Process Model, Organizational Readiness, Technology Selection, Lessons Learned



Emerging Technologies

- Provides specialized focus areas
- Enables cross sector coordination
- Aligns with requirements outlined in Executive Order 13960 in support of Federal agency use case sharing and collaboration

What is the National Use Case and Solutions Library (NUCSL)?

The NUCSL is a public/private knowledge sharing initiative and was created to provide an easy, searchable database that captures emerging technology use cases which support government mission objectives. Members from government, industry, and academia are invited to submit use cases to the NUCSL. As a common knowledge hub, the NUSCL is designed to capture challenges and successes discovered during the ideation, design, and implementation of emerging technology development. In consideration of unique missions and common threads, the NUCSL helps to identify risks and best practices.

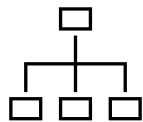
Emerging Technology Accelerator

Emerging Technology Accelerator (Placeholder Name)

A methodology for business professionals and technologists to help readily identify Federal agency **problem statements in alignment with critical mission objectives** to assess how emerging technologies are applied to mission focused objectives. The accelerator crowdsources problem statements with a focus on cloud shared services programs. The methodology is informed by data and information shared via the NUCSL and through other public data sources focused on emerging technologies.

Crowdsource Problem Statements for Business Use Cases

1



Agency Management and Administration



Executive, Congressional, and Federal
Guidance



Councils and Communities of Practice

Identify **Business Use Cases** and Service Measures

2

Align and Workshop **Emerging Technology Use Cases**

3

Federal Integrated Business Framework: Business Use Cases

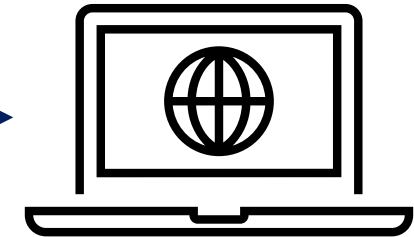
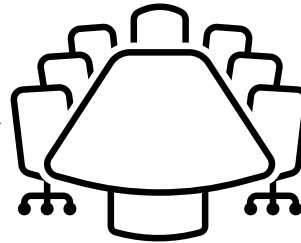
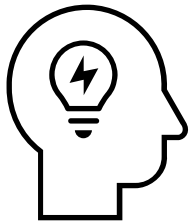
Tech Challenge: Concept Development and Deployment with Acquisition Coalitions

Call to Action

Crowdsource Problem Statements
for Business Use Cases

Identify **Business Use Cases**
and Service Measures

Align and Workshop
Emerging Technology Use Cases



1

How can public and private organizations partner together to identify use cases and make use of them?

2

More emerging technology use cases have become available. What would enable your organization's shared services program(s) to identify **problem statements** to apply **business and emerging technology use cases** to?

What would incentivize **cloud shared services programs** to participate with the Accelerator?