



# ***Applications for Decision Advantage***

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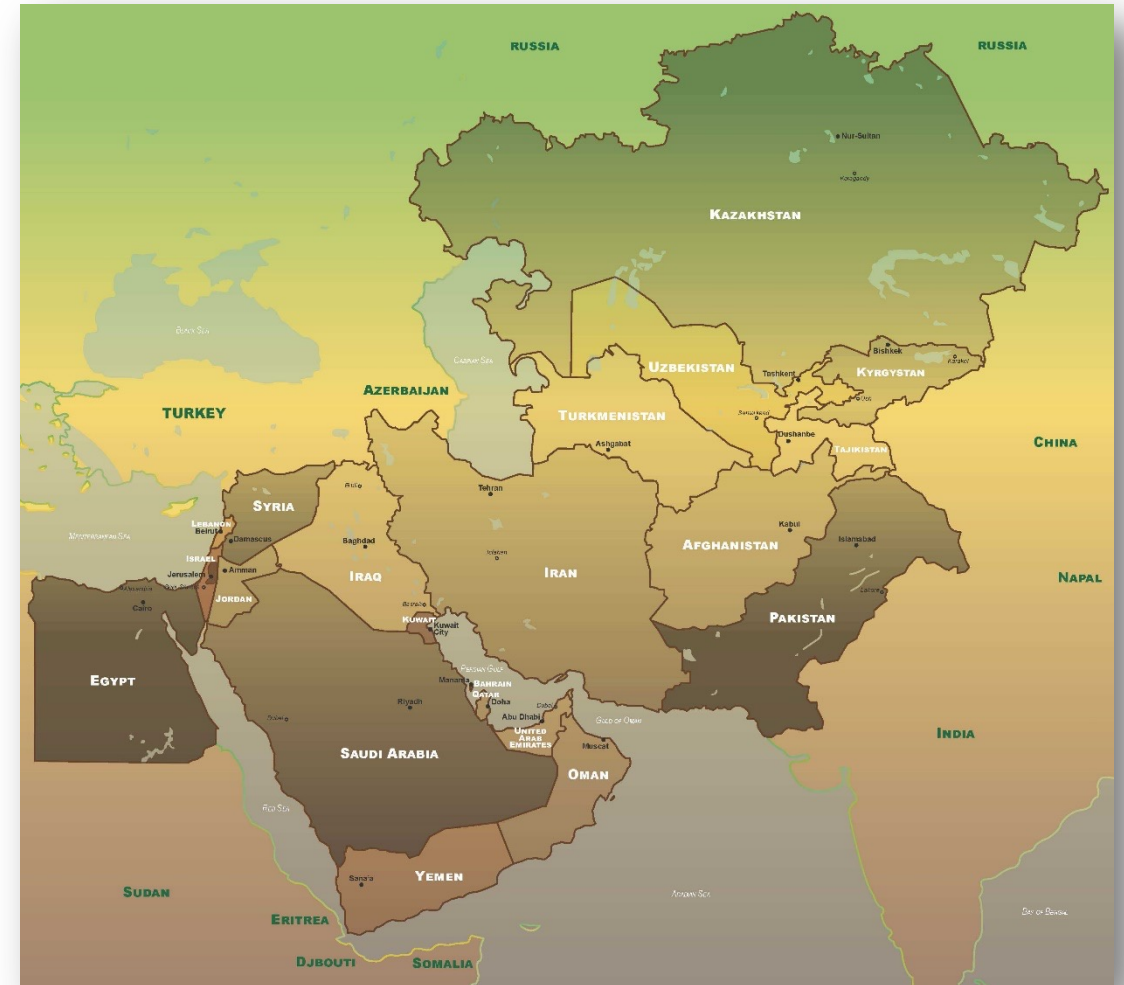


# Setting the Stage

**U.S. Central Command (CENTCOM) sits at the crossroads of key economic, diplomatic, and military global interests.**

- **Critical trade routes**
- **Energy and connectivity hub**
- **Diversity of security challenges**

**Engagement across these interests requires, joint, all-domain, cross-echelon, cross-classification operations and coordination**





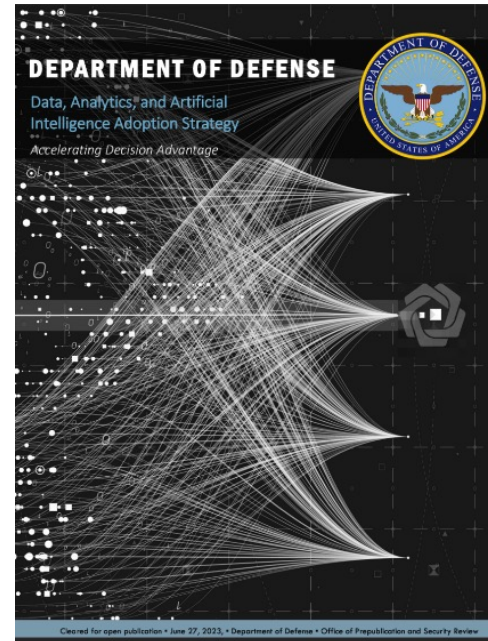
# Diversity of Security Challenges



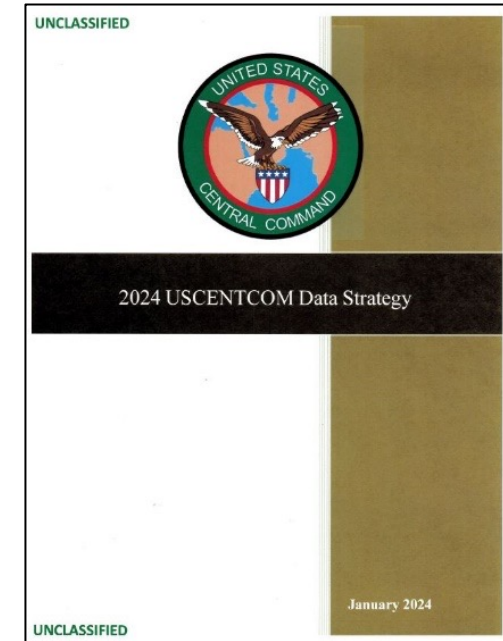


# Data Strategy

- **Data-centric Operations**
  - Governance principles via **VAULTIS**
  - Centralized data stores
  - Unit Testing via **Data Dimensions**
- **Data Resiliency**
- **Smart Tools & Infrastructure**
  - Workflow Automation
  - Artificial Intelligence



**2023 DoD Data,  
Analytics & AI  
Adoption  
Strategy**




**2024  
CENTCOM  
Data Strategy**



# Primary Apps for JADC2 Decision Advantage

*Features in use by CENTCOM*

	Heterogeneous Bulk Ingest	Synchronized Situational Awareness	Automated Workflows	Artificial Intelligence
Maven Smart Systems	★	★	★	★
Advana 	★	★	★	
VJOC		★		



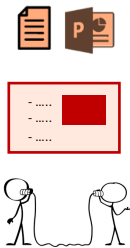
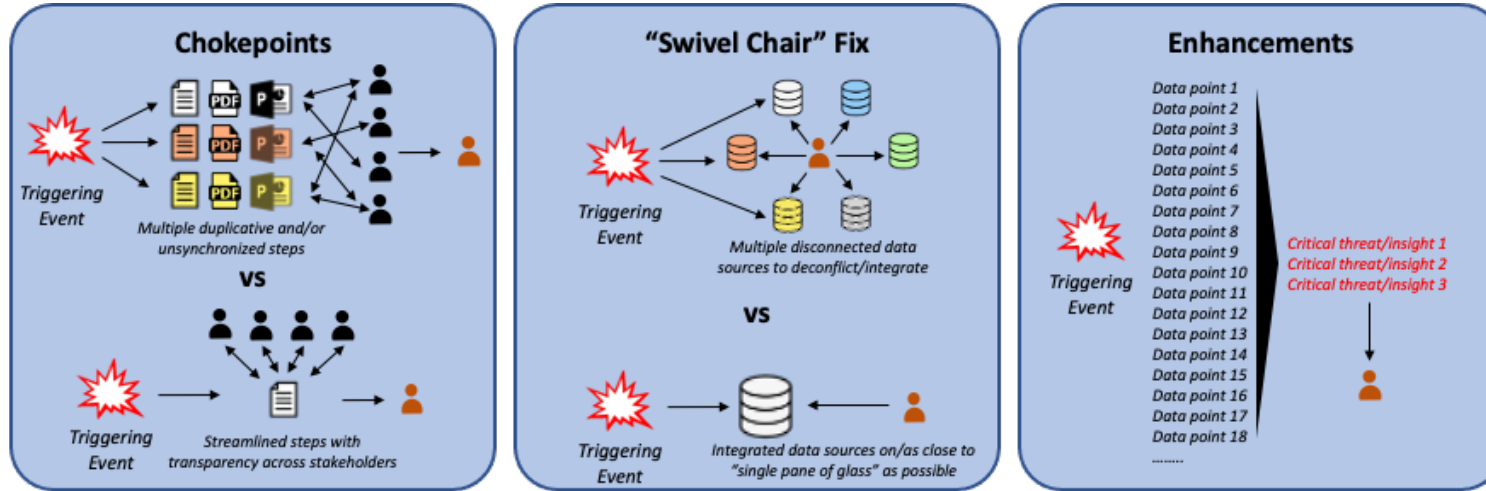
# JADC2: Synchronized Situational Awareness



***Effective fusion, synthesis, and presentation of data to a commander requires a cloud environment (multi-classification), a robust data integration & visualization tool, and heavy coordination of technologies and policies with the entities feeding in data***



# JADC2: Targeting Workflow Case Study



Targeting: Previous Method	
	Mediums with <b>manual version control</b> (e.g., excel)
	Mediums with <b>limited, static data layers</b> (e.g., PPT)
	SA requires <b>active outreach</b> (e.g., phone/email)
	<b>Lack of process transparency</b> (e.g., who made change/why)

Targeting: Enhanced Method	
	Collaborative platform <b>eliminates need for version control</b>
	Platform with <b>large number of live data layers</b>
	Enhanced SA persistently maintained by platform
	Updates & changes <b>tracked and easily accessible</b>

**By leveraging workflow automation tools with common/widely-accessible data layers, teams were able to reduce time for nomination, submission, and approval of a dynamic target from days to hours**



# JADC2: Workflow Automation

A screenshot of the JADC2 workflow automation interface. The interface is dark-themed and shows a collection of targets categorized into four groups: IDENTIFIED TARGET, PRIORITIZED TARGET, IN COORDINATION, and IN EXECUTION. Each group contains target cards with details like name, priority, and status. A right-hand panel shows a detailed view of an "aircraft" target, including its current status, lifecycle, and BDA (Battle Damage Assessment) information.

File Collections Demo ☆ Share 1 MTS//MNF Danube Staging

Search targets... Sorted by Time created Grouped By Decay time status

Linked artifacts Configure HPTL Sync map

IDENTIFIED TARGET (2)	PRIORITIZED TARGET (2)	IN COORDINATION (3)	IN EXECUTION
<b>Decay time exceeded (2)</b> <ul style="list-style-type: none"><li>car (Car • P1) - 1 warning - Created a year ago - MTS//MNF</li><li>car (Car • P1) - 1 warning - Created a year ago - MTS//MNF</li></ul>	<b>Decay time exceeded (2)</b> <ul style="list-style-type: none"><li>SUV (Car • P1) - 2 warnings - Created a year ago - MTS//MNF</li><li>Airplane (Airplane • P2) - 1 warning - Created a year ago - MTS//MNF</li></ul>	<b>Decay time exceeded (3)</b> <ul style="list-style-type: none"><li>car (Car • P1) - 1 warning - Created a year ago - MTS//MNF</li><li>Airplane (Airplane • P2) - 1 warning - Created a year ago - MTS//MNF</li><li>aircraft (Airplane • P2) - Created a year ago - MTS//MNF</li></ul>	No targets

Selection: aircraft ☆

**aircraft** (Airplane • P2)  
Current status: In Coordination (MTS//MNF)

Lifecycle Details Intelligence **BDA** Effectors Activity

**BDA**  
✗ Not destroyed

Notes  
No notes

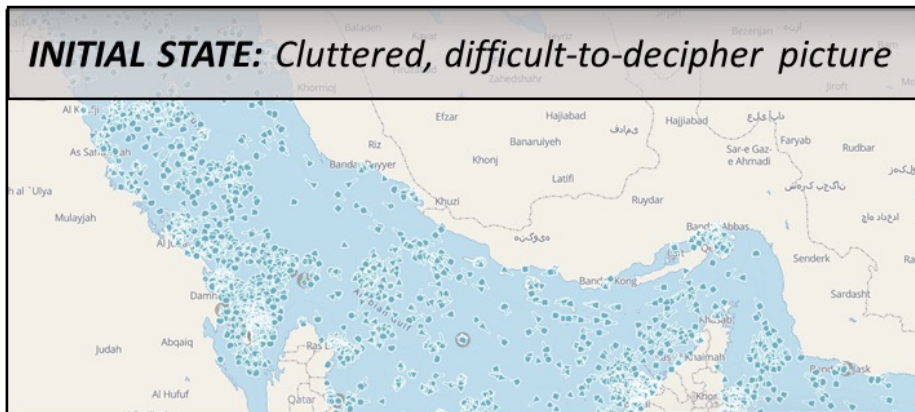
Media  
⚠ No BDA media

***CENTCOM has developed tools to automate the target-refinement process, expediting approval and reporting***



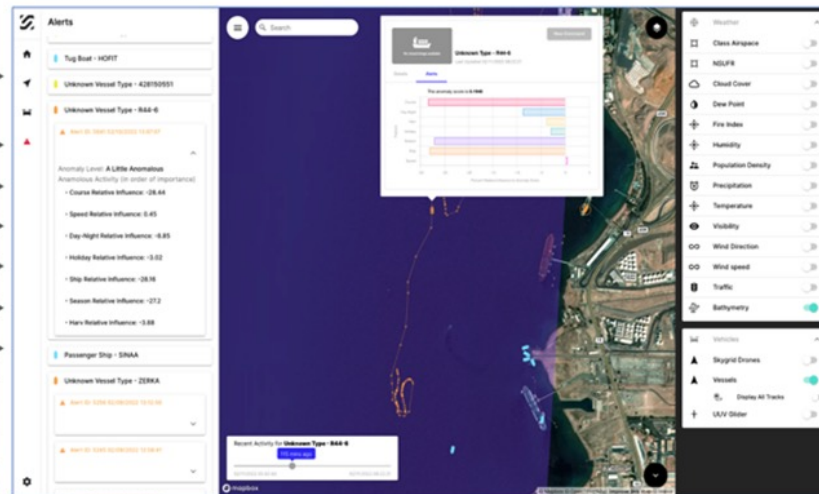


# JADC2: Artificial Intelligence



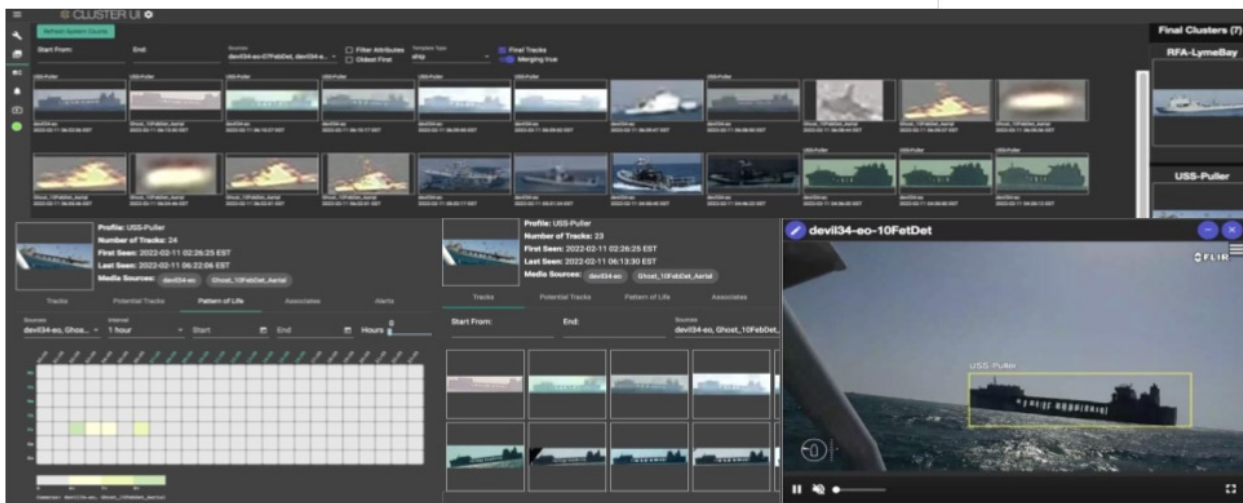
**Seabed to Space**

- Jordanian Navy & AF manned system imagery
- MarineInstruments UAS
- Various DARPA Buoys
- Various Saildrone USV
- Teledyne/L3Harris UUV
- Blue Hotel Navy Cloud
- Local ad-hoc networks



**Capabilities & Outcomes**

- Advance beyond commercial/synthetic data to train AI/ML tools
- Hardware agnostic Open-Architecture (OA) preferred
- Seabed to Space edge-deployed Ocean of Things
- AI-based Pattern of Life (POL) anomaly detection and classification
- HQ workload advantages
- Enhanced multi-domain awareness

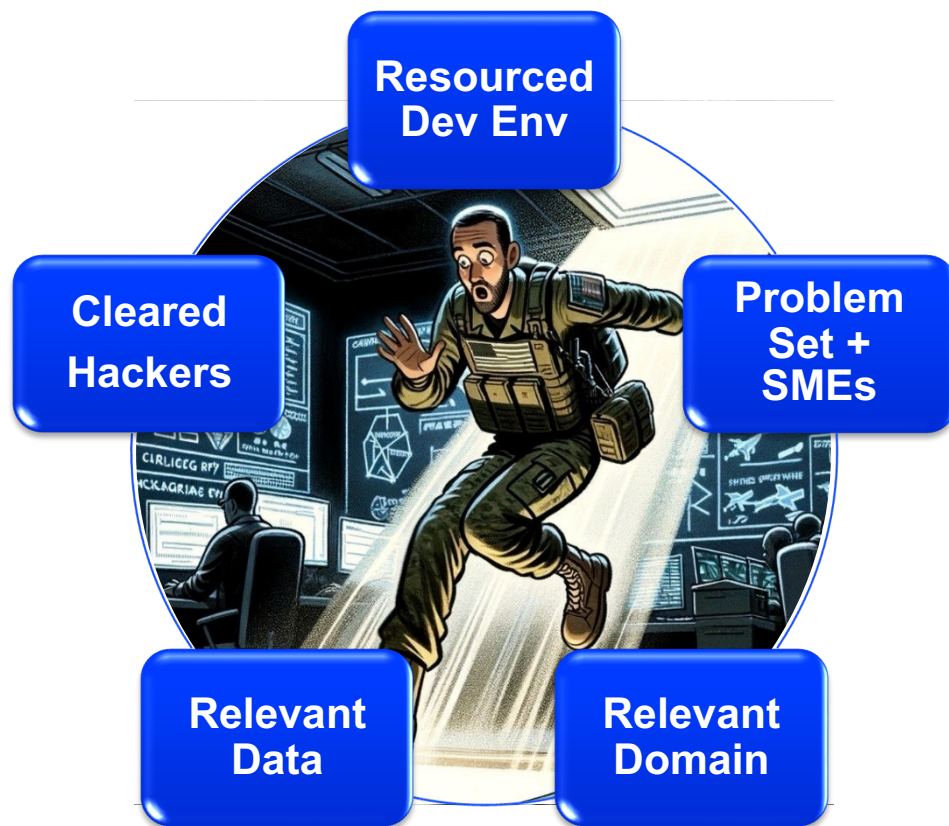


- Computer Vision via Maven
  - Anomaly Detection for Streaming Tracks
  - Recommendation Engines
- Metrics matter! Speed wins!**

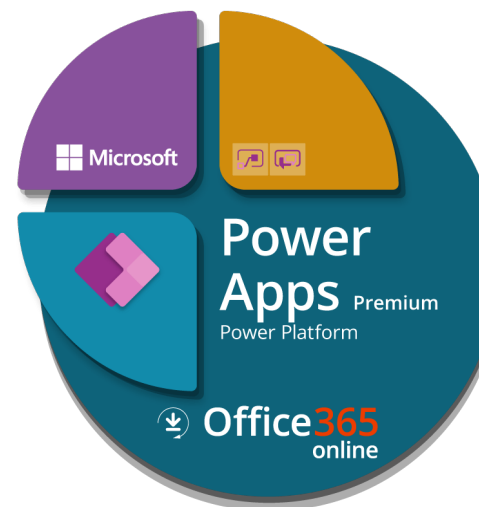


# App Incubation

## Dev Prototyping: SANDTRAP



## No Code / Low Code



Operational Validation



# Decision Advantage via Partnerships





***Questions?***