

# **Acquiring Joint Missions**

Dave Tremper, Dir-Al2 Jan 2023

DOCUMENT RESTRICTIONS

CLEARED For Open Publication

Jul 18, 2023

Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

## Meeting the needs of the NDS



"Integrated deterrence entails developing and combining our strengths to maximum effect, by working seamlessly across warfighting domains, theaters, the spectrum of conflict, other instruments of U.S. national power, and our unmatched network of Alliances and partnerships."

- National Defense Strategy 2022

"Across the region, the United States will work with allies and partners to deepen our interoperability and develop and deploy advanced warfighting capabilities as we support them in defending their citizens and their sovereign interests."

- White House Indo-Pacific Strategy 2022

The NMS introduces the notion of joint combined arms, defined as the conduct of operational art through the **integration** of joint capabilities in all domains.

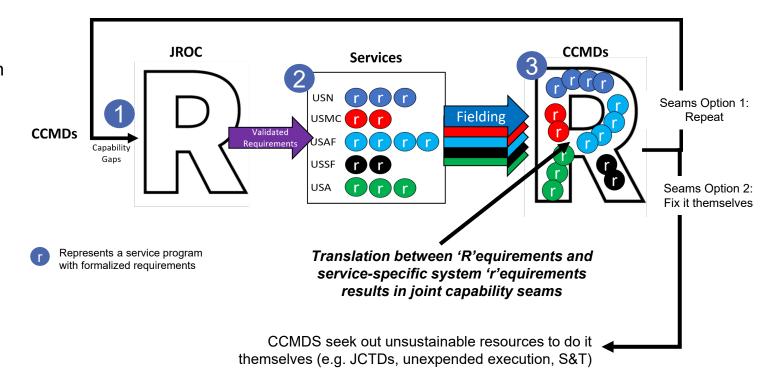
Building a strong, agile, and resilient force requires better **interoperability** and enhancing the combat lethality and survivability of our allies and partners.

National Military Strategy 2018

# Facing the Acquisition Challenge



- CCMDs identify Joint Force capability needs
- Joint Force capability needs are dissected into service-specific acquisition paths
- 3 Service-specific acquisition delivers systems that meet service specific requirements, but lack inherent joint integration and/or interoperability

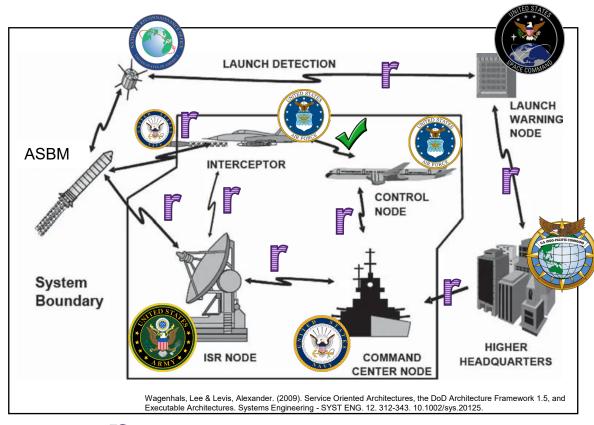


The lack of joint capability acquisition management creates joint capability gaps and/or unsustainable capability solutions

### Joint Mission Requirements: Notional Scenario



Attribute	Technical Requirement
IC satellite support tactical kill chain	×
USSF interoperability with INDOPACOM	
Army radar track ASCM	×
USA ISR tactical interoperability with USN CRUDES	×
USN CRUDES tactical data exchange with USAF C2	×
USAF C2 interoperability with USAF TACAIR	
USA ISR tactical interoperability with USAF TACAIR	×
USAF TACAIR launch USN weapon	×





= joint mission technical requirement

## **System of Systems Acquisition**



- Joint Force, system-of-system mission capabilities (e.g. C-C5ISR&T, IAMD) are emerging as the highest-priority department needs and span multiple domains
  - Critical emerging objectives are *vital* in peer competition and are *unbounded* by mission or domain
    - 10s to 100s of current and future systems and programs that support a wide variety of missions within the Services
    - Joint systems-of-systems 'acquisition' models disrupt conventional service-specific or system specific acquisition paradigms
- Joint Mission Threads, DoD Portfolio Management, & Competitive Advantage Pathfinders (CAPs) are delivering insight into joint system-of-systems capabilities, gaps and opportunities
  - But... oversight gaps exist for translating portfolio management issues into joint system-ofsystems technical solutions and acquisition strategies
  - Joint mission acquisition is currently a coalition-of-the-willing

Dedicated analysis, planning and resourcing are necessary to deliver joint capabilities across disconnected service systems/programs

### AI2 Mission



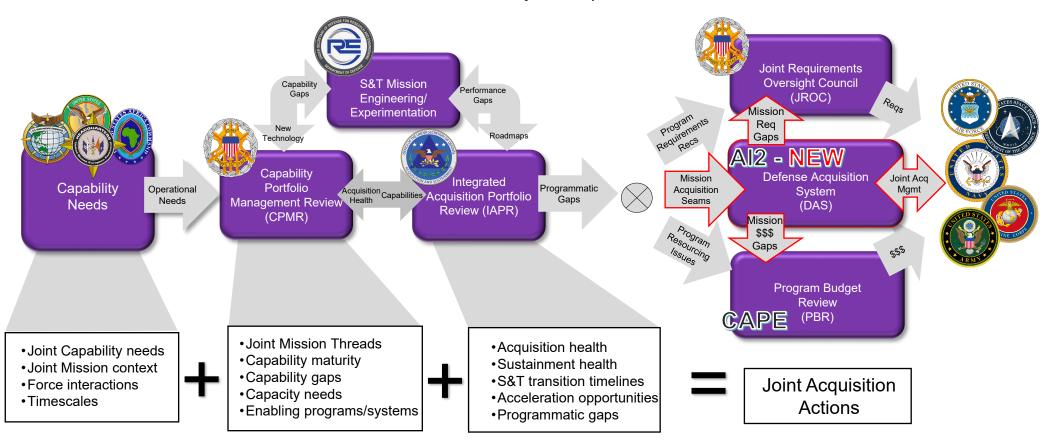
- Create an enduring, acquisition infrastructure for delivering joint, system-of-systems (SoS) capabilities
  - Enable and broadly adopt threat-informed, mission thread analysis
  - Enable the delivery of priority joint capabilities fully leveraging servicespecific system acquisition
- High priority INDOPACOM capability gaps
- Initial Focus Areas: Long Range Fires, Integrated Air and Missile Defense, Counter-C5ISR&T

Al2 enables alignment of acquisition activities across the Services, systems, missions, and domains to support Joint capability needs

### Portfolio Management & Acquisition



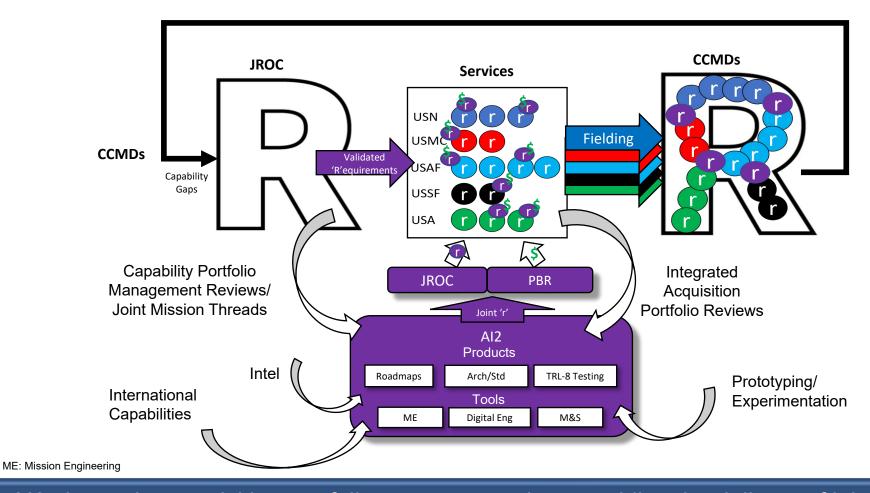
Portfolio Management and Competitive Advantage Pathfinders (CAP) are providing analytic insight into joint gaps which can be translated into joint acquisition action



Al2 is institutionalizing the translation of Joint mission needs into streamlined Joint acquisition strategies and competitive advantage

## Inserting AI2



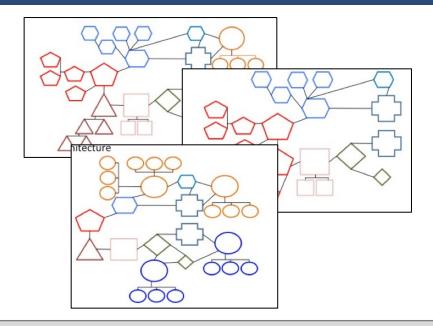


Al2 closes the acquisition portfolio management loop enabling the delivery of joint capabilities fully leveraging the innovation ecosystem & service-specific acquisition

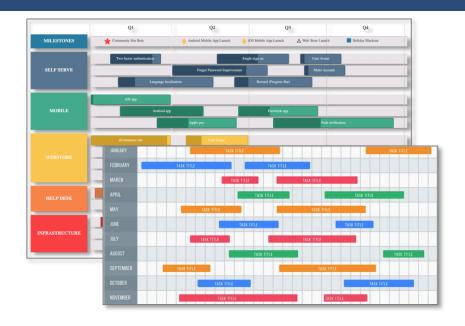
## **Key Deliverables**



### **Joint SoS Architectures**



### Roadmaps / Schedules



Identify, develop and analyze joint, missionfocused system of system architectures, aligning Agency and Service efforts to provide integrated capabilities for CCMDs.

Work with portfolio managers to align strategic plans, investments, and deliveries to deliver integrated suites of capabilities.

### Al2 Lines of Effort



### **Organize**

#### **Build foundation for AI2**

- Identify key partners

   CDAO, R&E, JS, CCMDs, and Service Chief Systems Engineers
- Develop the AI2 charter with DoD Partners outlining specific mission sets as well as roles & responsibilities for AI2
- Form and execute initial joint opportunity forums
- Staff Al2 organization with people, allocate funds, and establish baseline processes

### **Implement**

#### Build execution arms for Complex Joint Systems of Systems (SoS) Acquisitions

- Define the specifics of the joint integration and interoperability problem set
- Review and leverage current SoS Acquisition Solutions and previous Services/Department efforts
- Leverage the INDOPACOM operational needs and other IAPR-identified joint SoS challenges to develop new processes/models

#### **Execute**

# Integrate initial joint capabilities for INDOPACOM leveraging Services, DARPA, R&E, CDAO, JS efforts

- In partnership across OSD, JS, INDOPACOM, and the Services, identify the critical capability gaps in joint operations and develop a strategy and plan to deliver
- Create pathways for Mission
   Engineering and Portfolio Management
   Processes to efficiently deliver SoS
   acquisitions

#### **Outcomes**

- 1. Efficient Integration, Synchronization and Scale of warfighting capabilities (Services, commercial, prototypes, maturing tech)
- 2. Threat informed, mission thread-driven, joint acquisition strategies and SoS solutions
- 3. Empowered and Resourced DoD Authority to solve multi-Service acquisition program challenges at the pace required to meet the National Defense Strategy

# Questions

