



# Software Experts Panel: DoD Software Engineering

**Software Is Immortal: DoD Transformation Initiatives  
to Improve Software Acquisition Outcomes**

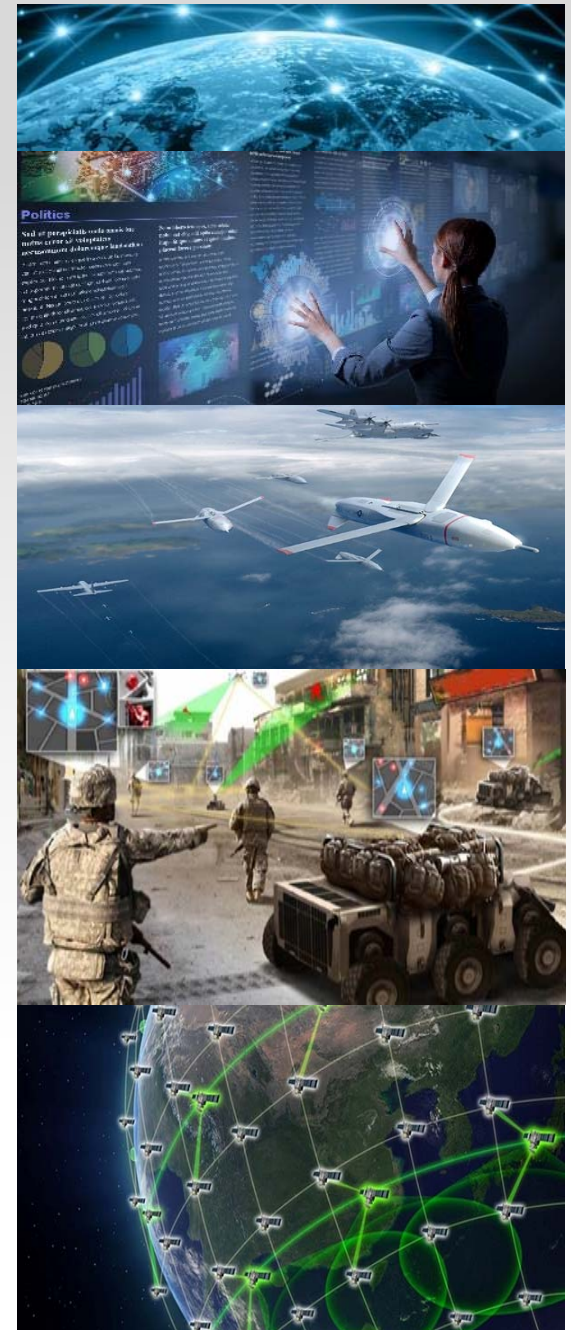
**Dr. Bernard Reger**

**Software Team Lead**

**Engineering Policy and Systems, OUSD(R&E)**

**22<sup>nd</sup> Annual Systems and Mission Engineering Conference**

**Tampa, FL | 24 October 2019**



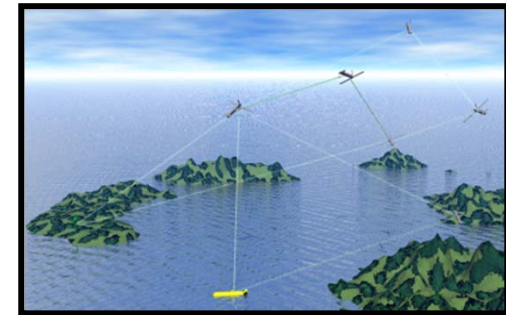


# USD(R&E) Mission



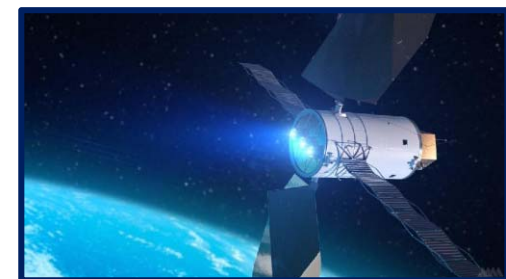
## ■ Ensure Technological Superiority for the U.S. Military

- Set the technical direction for the Department of Defense (DoD)
- Champion and pursue new capabilities, concepts, and prototyping activities throughout the DoD research and development enterprise



## ■ Bolster Modernization

- Pilot new acquisition pathways and concepts of operation
- Accelerate capabilities to the Warfighter



***“Our mission is to ensure that we, if necessary, reestablish and then maintain our technical advantage.” – Under Secretary Griffin, April 2018***



# Modernization Priorities

***“We cannot expect success fighting tomorrow’s conflicts with yesterday’s weapons or equipment.”***  
**– National Defense Strategy**

- 5G
- Autonomy
- Biotechnology
- Cyber
- Directed Energy
- Fully Networked Command, Control, and Communications
- Hypersonics
- Machine Learning / Artificial Intelligence
- Microelectronics
- Quantum Science
- Space

***For each modernization priority, a Portfolio Manager (Assistant Director) is responsible for establishing the DoD-wide, mission-focused strategy and execution plan***



# Software Expert Panel Members



➤ **Dr. Jeffrey Boleng**  
OUSD(A&S) Special Assistant for Software Acquisition – DIB SWAP (Defense Innovation Board Software Acquisition and Practices) overview/summary, how the commercial sector acquires (develops software) and how DoD acquires software. Refactoring DoD acquisition policy for software and the software acquisition pathway policy.



➤ **Ms. Robin Yeman**  
Agile/DevSecOps Industry Expert – Commercial software development best practices, Lockheed Martin Fellow, Agile Enterprise Coach.



➤ **Mr. Sean Brady**  
Defense Acquisition University Learning Director, Software – DevSecOps Academy and Software Alliance, workshops, competencies, training, and modernizing the future DoD workforce.



➤ **Mr. Leo Garciga**  
US Army G2 Senior Executive – Software transformation initiatives, and JIDO (Joint Improvised-Threat Defeat Organization) DevSecOps software development.



# DoD Research and Engineering Enterprise

## Solving Problems Today – Designing Solutions for Tomorrow



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