



Office of the Deputy Director, Engineering Update

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OUSD Research & Engineering
Advanced Capabilities

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National Defense Strategy Lines of Effort



- Build a More Lethal Force
- Strengthen Alliances and Attract New Partners
- Change the Way We Do Business



“A more lethal force, strong alliances and partnerships, American technological innovation, and a culture of performance will generate decisive and sustained U.S. military advantages.” – National Defense Strategy



USD(R&E) Mission



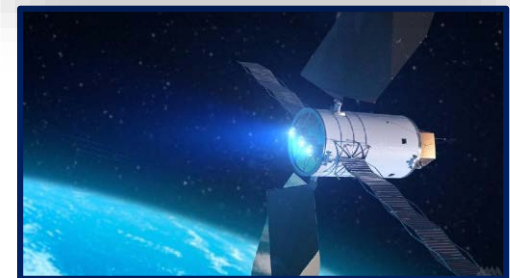
■ Ensure Technological Superiority for the U.S. Military

- 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.”

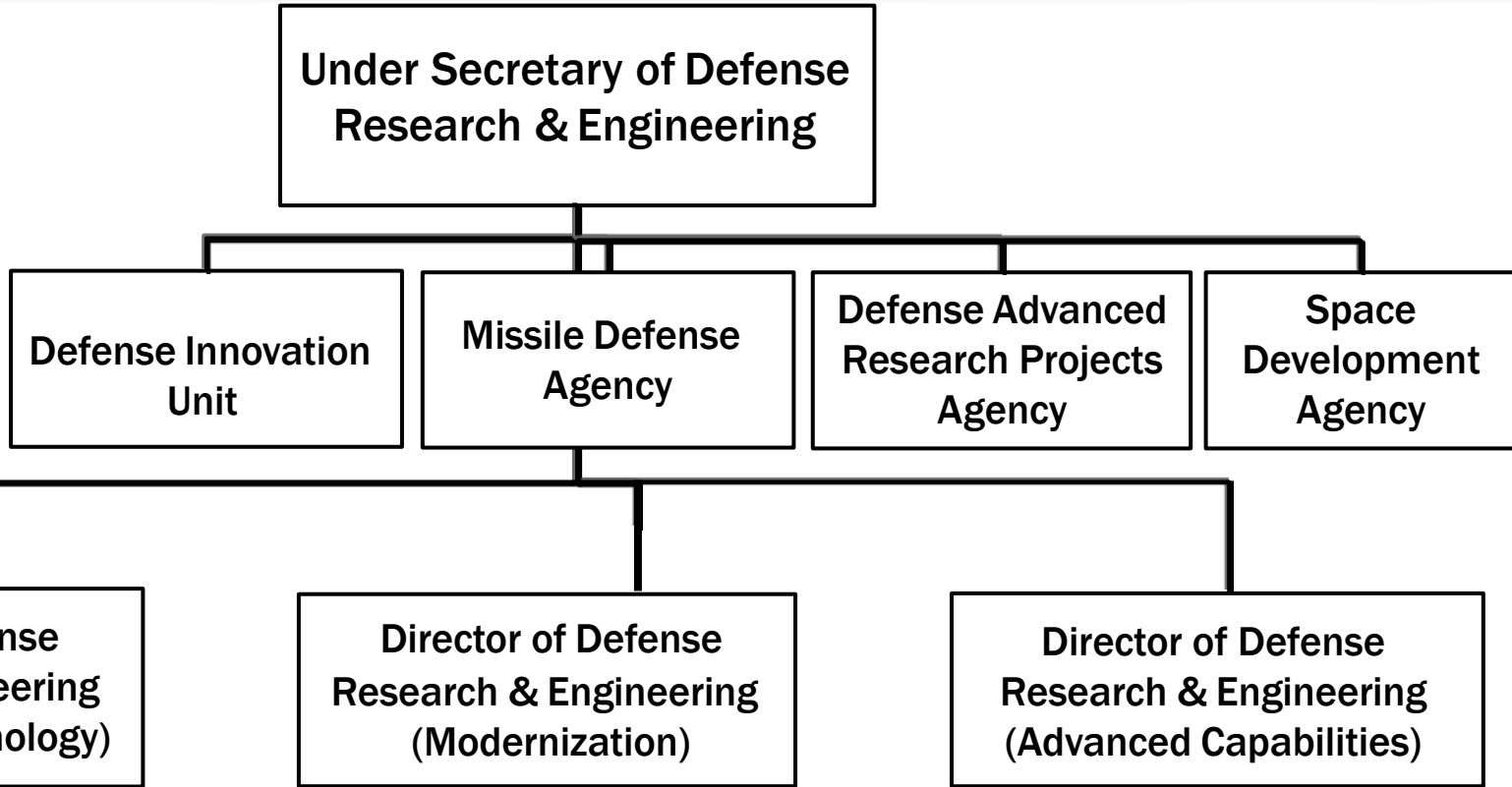
– National Defense Strategy

- 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.

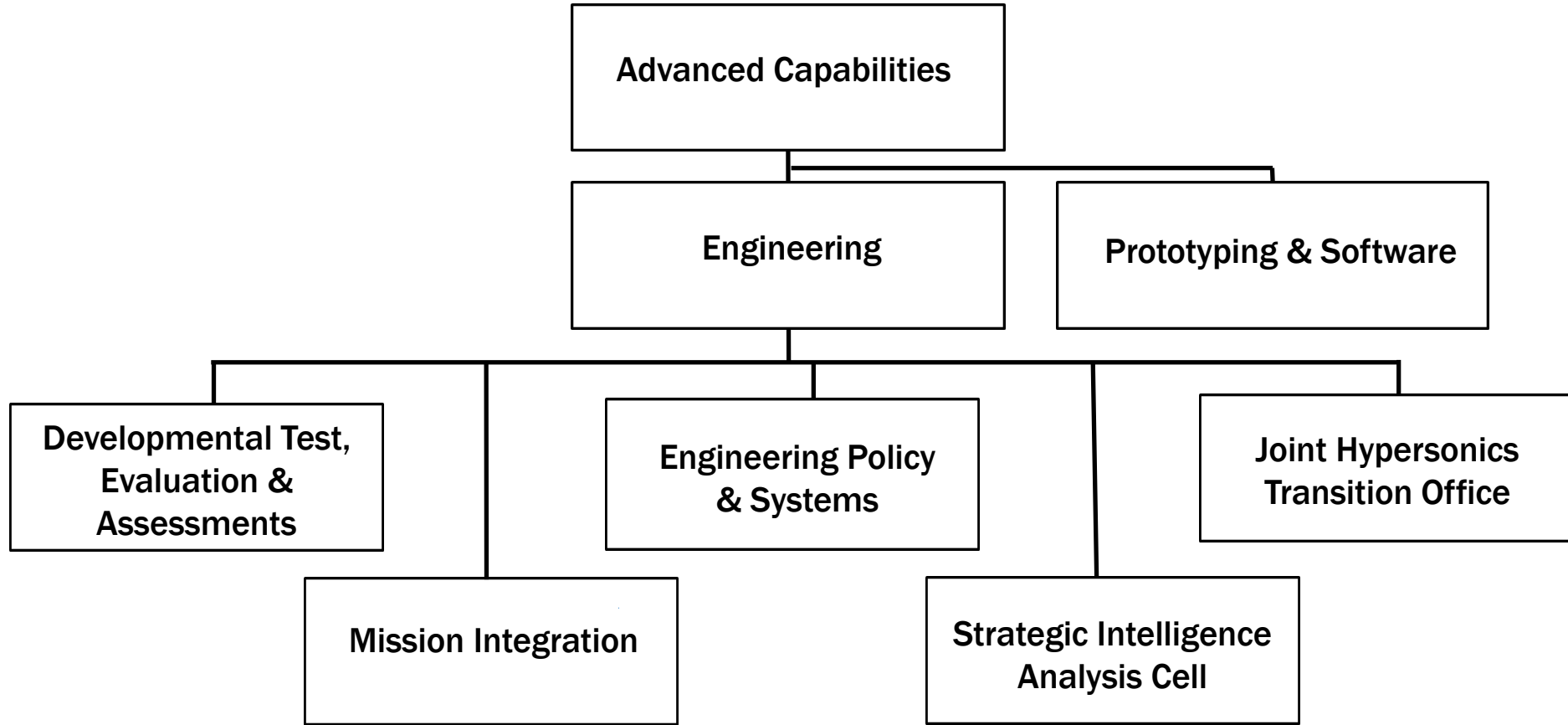


OUSD(R&E) Organization





Advanced Capabilities/Engineering Organization





Engineering – FY2020 Plans



■ **Balancing Priorities**

- Independent Technical Risk Assessments (ITRAs)
- Mission Engineering Support
- ACAT ID Program Engagement

■ **Engineering Policy and Implementation**

- DoDI 5000.02 Engineering Policy rewrite
- Collaborate with A&S and Services to share technical innovations and best practices across programs

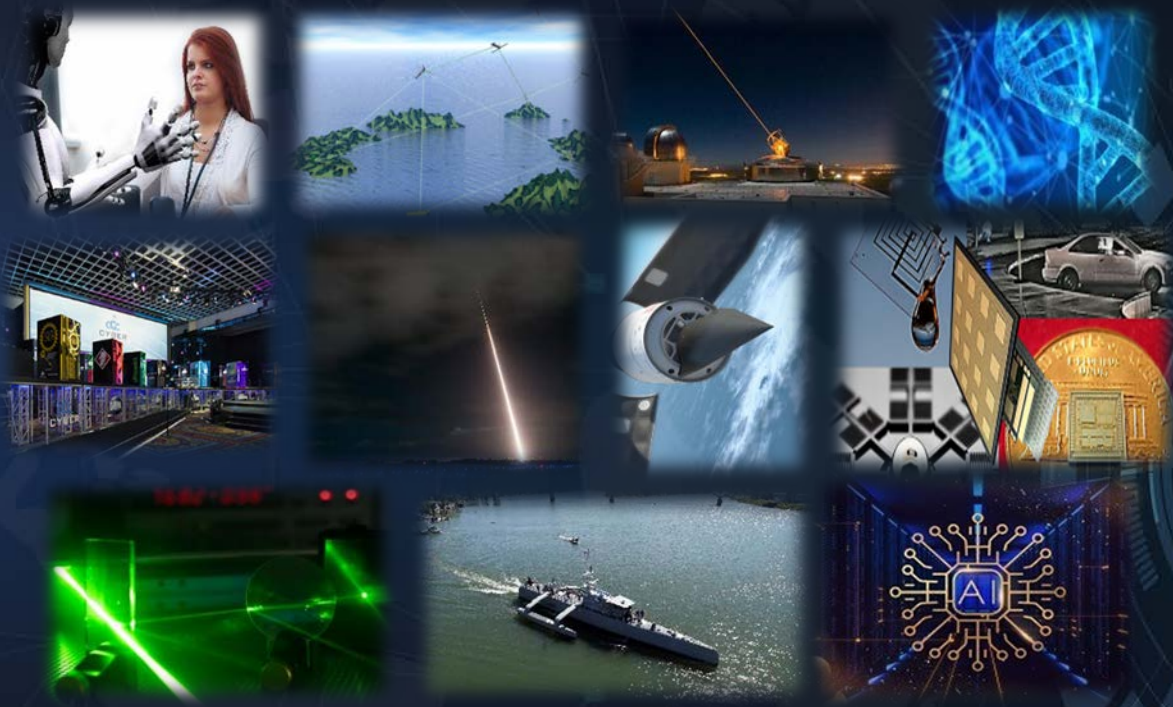
■ **Engineering Focus Areas:**

- Digital Engineering
- Mission Engineering
- Modular Open Systems Approach (MOSA)



DoD Research and Engineering Enterprise

Creating the Technologies of the Future Fight



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