

National Defense Industrial Association Systems and Mission Engineering Conference

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OUSD(R&E) Technology Transition and Engineering Initiatives

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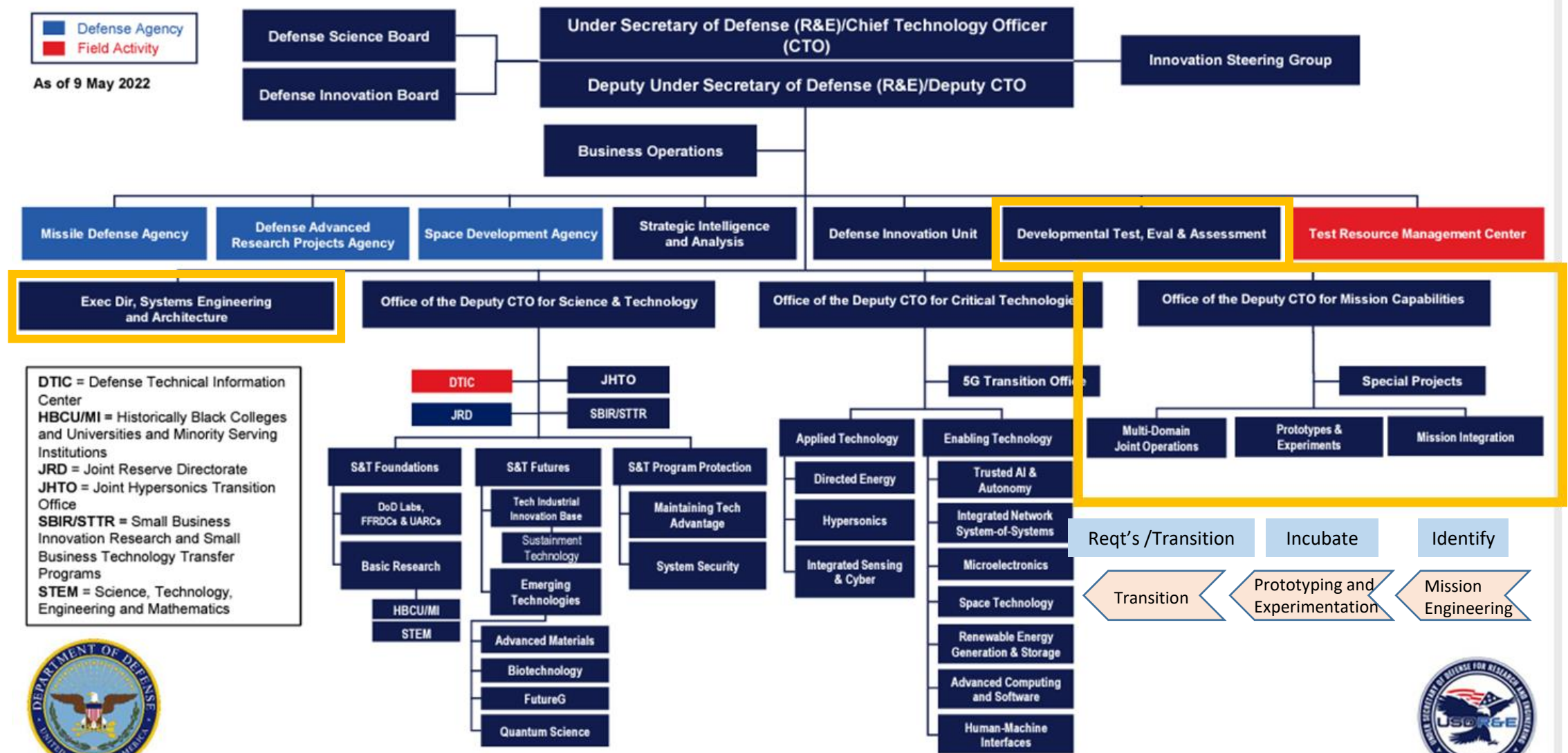




OUSD(R&E) Organizational Structure

Defense Agency
Field Activity

As of 9 May 2022



DTIC = Defense Technical Information Center
 HBCU/MI = Historically Black Colleges and Universities and Minority Serving Institutions
 JRD = Joint Reserve Directorate
 JHTO = Joint Hypersonics Transition Office
 SBIR/STTR = Small Business Innovation Research and Small Business Technology Transfer Programs
 STEM = Science, Technology, Engineering and Mathematics





Rapid Defense Experimentation Reserve (RDER)

The Secretary of Defense established RDER to:

- Focus multi-Component experimentation in a structured, multi-year campaign of learning.
- Proposed experiments based on alignment to Joint missions and potential to yield demonstrable warfighting utility in the near-term.
- Demonstrations and experiments will be conducted at key exercise venues (INDOPACOM Focused).
- Successful demonstrations and experiments can be quickly transitioned to the Components for fielding as new systems or approaches.



“RDER will drive efforts to compete with peer and near-peer adversaries through the development of capabilities that support the Joint Warfighting Concept (JWC) including, but not limited to, fires, command and control, logistics, and capabilities that will drive information advantage.” – Deputy Secretary of Defense Dr. Kathleen Hicks

RDER will bring five benefits to DoD:

1. Accelerate Joint Warfighting Capability
2. Expand International Partnerships and Multi-lateral engagement
3. Focus Service experimentation to enable the JWC
4. Quickly demonstrate and assess innovative ideas
5. Provide feedback to future Warfighting concept development

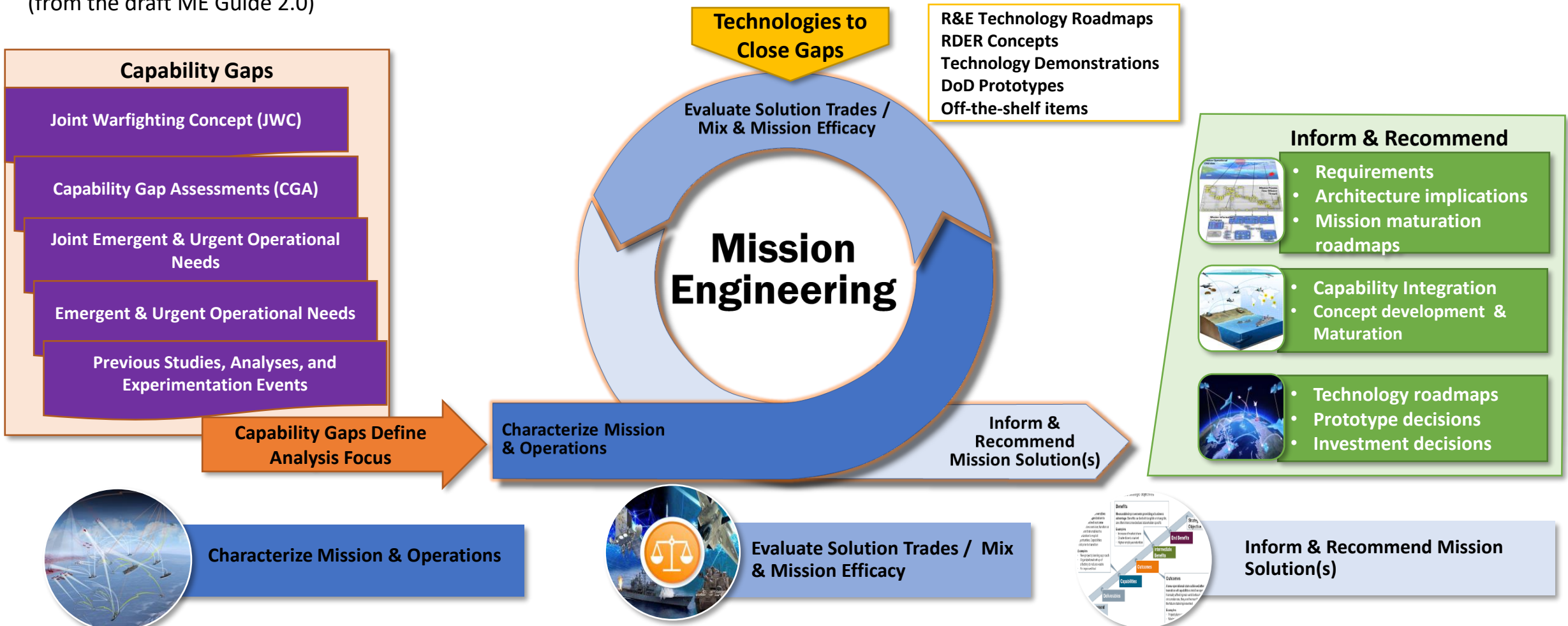




Scope of Mission Engineering

Mission Engineering (ME) – An interdisciplinary approach and process encompassing the entire technical effort to analyze, design, and integrate current and emerging operational needs and capabilities to achieve desired mission outcomes.

(from the draft ME Guide 2.0)





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BACKUP



Policy Changes for Portfolio Management

Legislative direction is driving changes to the acquisition, requirements, and budgeting processes to focus on delivering *integrated mission capability*, not just individual programs.

