



Digital Engineering Discussions

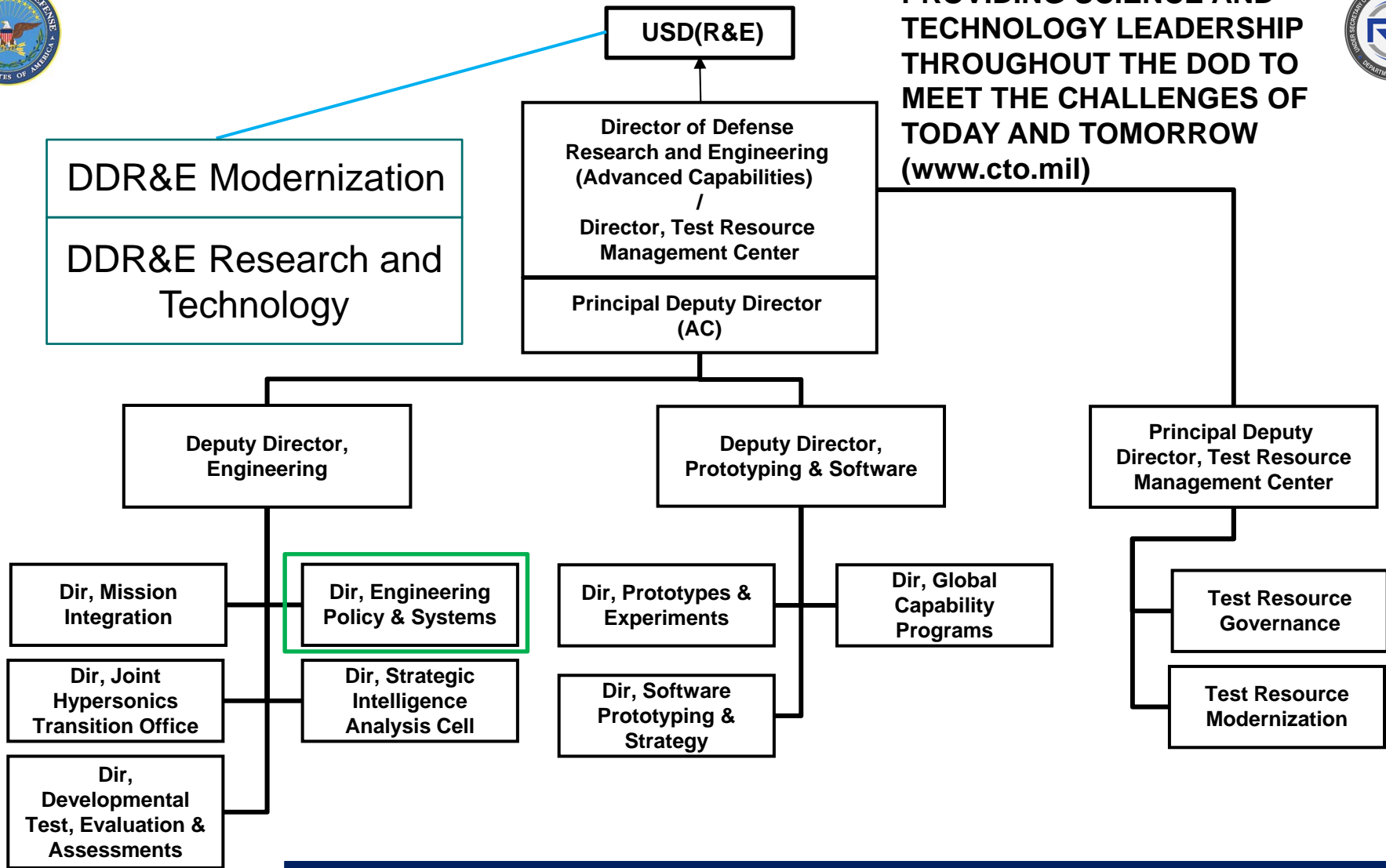
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(Research & Engineering)

Jan 30, 2021





PROVIDING SCIENCE AND TECHNOLOGY LEADERSHIP THROUGHOUT THE DOD TO MEET THE CHALLENGES OF TODAY AND TOMORROW
 (www.cto.mil)

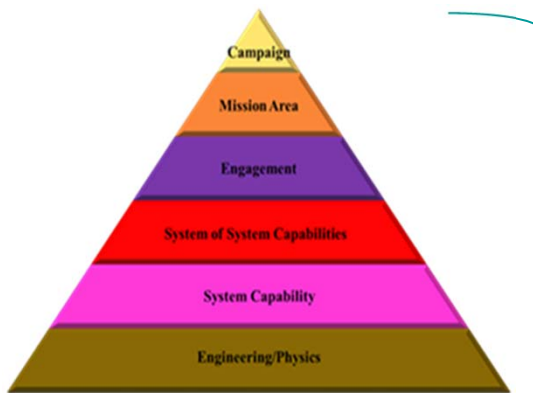


“Advanced Capabilities uses a commercial model for our organization - dividing engineering, prototypes, and test infrastructure to better align with Industry and to ensure products successfully transition from lower TRLs into useful warfighter capabilities.” - Jim Faist, Director of Defense Research and Engineering for Advanced Capabilities



M&S

- Defense Modeling and Simulation Coordination Office transitioned to Model and Simulation Enterprise as part of Engineering Tools and Environments
- Focus is on technical leadership and finding solution to problems for the enabling capabilities of models / simulations



Model: A physical, mathematical, or otherwise logical representation of a system, entity, phenomenon, or process; i.e. “a representation of reality”

All usable in digital engineering; what do you need to do?....

Digital Eng



“The goals (of the Digital Engineering Strategy) promote the **use** of digital representations and components and the **use** of digital artifacts as a technical means of communication across a diverse set of stakeholders.”

“Advancements in computing, modeling, data management, and analytical capabilities offer great opportunities for the engineering practice.

Applying these tools and methods, we are shifting toward a dynamic digital engineering ecosystem.”



Digital Engineering Implementation



Dr. Griffin

“This strategy describes the “what” necessary to foster the use of digital engineering practices. Those implementing the practices must develop the “how” – the implementation steps necessary to apply digital engineering in each enterprise.”

Service Strategies and Plans



Outlines DoD’s five strategic goals for Digital Engineering initiatives



Collaborative Activities

- Collaboration
 - Digital Engineering Working Group / Community of Practice
 - Tiger Teams
 - Systems Engineering Research Center
 - INCOSE/NDIA Digital Engineering Information Exchange Working Group; Conferences, etc
 - Engineering WF Task Force
- DoD Digital Engineering Body of Knowledge (DEBoK)
- Align understanding of Modeling and Simulation with Digital Engineering

Implementing Digital Engineering Across the DoD



For Additional Information



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