Digital Engineering Discussions

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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

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.”

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?....
“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.”

**Outlines DoD’s five strategic goals for Digital Engineering initiatives**

**Service Strategies and Plans**

**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
For Additional Information

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