

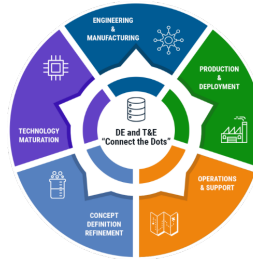


DIGITAL ENGINEERING AND TEST & EVALUATION

CONNECT THE DOTS

WORKSHOP

JUNE 27-29, 2023



Blue background indicates Distribution Statement A, available virtually.

Overflow capacity available in Room 1310. This room will connect to 1202 virtually.

Day 1, Tuesday 27 June — Foundations			
Time (EDT)	Room 1202 Approved for Public Release	Room 1203 Approved for Public Release	Room 1306+1308 Controlled Unclassified Information (CUI)
0800-0915	Event Check-In		
0915-0920	Welcome and Logistics <i>Dr. John Hong, Assistant Director, Institute for Defense Analyses</i>		
0920-1000	T&E as a Continuum: Enabled by Model-based Engineering <i>Mr. Christopher C. Collins, Executive Director, Developmental Test, Evaluation, and Assessments</i>		
1000-1030	Interactive: Welcome to Connect the Dots		
1030-1100	Keynote: Effective Digital Engineering Begins with a Closed Loop Process <i>Ms. Robin Yeman</i>		
1100-1200	Interactive: Meet & Greet to Solve Community Problems		
1200-1230	Acceleration via Models <i>Mr. Daniel Hettema, Director, DEM&S, OUSD R&E</i>		
1230-1330	Lunch		
1330-1400	Digital Engineering/Digital Transformation Acquisition Lifecycle Roadmap <i>Maj. CJ Werner, Digital Life Cycle Management, Space Systems Command</i>	Introduction to The Model-Based Definition Digital Thread <i>Ryan Gelotte JHUAPL</i>	Cultivating Research and Development in the New Frontier: Model-Based Systems Engineering for Space Vehicles (Distribution Statement C) <i>Capt. Christopher Reed, USAF AFRL/RVES</i>
1405-1435	Capture of Structured Data with Human-in-the-loop AI From Acquisition Documents for Test and Evaluation <i>Dr. Amit Juneja, Agile Data Decisions, Inc. (AgileDD)</i>	Issues of Terminology in Digital Engineering <i>Phil Meade, Institute for Defense Analyses</i>	USSF Model-Based T&E Reference Model (Distribution Statement D) <i>Frederick Sexe, Frontier Technologies Inc., Command Test Authority Maj. CJ Werner, Digital Life Cycle Management, Space Systems Command Faris Avdic, Axient</i>

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1440-1510	Recommendations for Statistical Analysis of Modeling and Simulation Environment Outputs <i>Curtis G. Miller, Ph.D., Institute for Defense Analyses</i>	Sensor Emulation and Synthetic Data Generation <i>John E. Ploschnitzig Ansys Government Initiative</i>	Test Mission Engineering Profile (Distribution Statement C) <i>Matthew Alexander, MITRE Tony Kubat, MITRE Dr. Jason Daly, MITRE</i>
1510-1525	Break		
1525-1555		Data-Driven Test and Evaluation <i>Steven H. Dam, Ph.D., SPEC Innovations</i>	ATEC Evaluation Framework (Distribution Statement C) <i>Capt. Terrance Street, ATEC Davin O'Neill, MITRE</i>
1600-1630	Panel Discussion: Positioning Test and Evaluation for the Digital Paradigm <i>Kelli Esser, Ph.D., Virginia Tech National Security Institute</i>	Digital Engineering Is More Than Just Tools - A Tool Vendor's Perspective <i>Andy Ko, Ansys Inc.</i>	David's Sling System Engineering Modeling (Distribution Statement C) <i>Mike Denson, MDA/IPE</i>
1635-1705		Digital Mission Engineering (DME) - From Concept Through Sustainment <i>Whitney Bobbitt, Director of Business Development, Ansys Inc.</i>	A Model-Based Approach to Automated Test and Analysis (Distribution Statement D) <i>Matthew Pillion, Chief Engineer, IDT Missile Defense Business Area Shawn Kline, Director, IDT Systems Engineering Dana Croce, MDA/AB Kurt Chewning, MDA/AB</i>
Return Badge to Security			

Day 2, Wednesday 28 June – Building on Foundations			
Time (EDT)	Room 1202 Approved for Public Release	Room 1203 Hybrid: Approved for Public Release Controlled Unclassified Information (CUI)	Room 1306+1308 Controlled Unclassified Information (CUI)
0800-0930	Event Check-In and Networking		
0930-1000	TRMC Enterprise Infrastructure for MBSE and Digital Engineering <i>Ryan Norman CDO, TRMC</i>		
1005-1035	Model Validation Levels for the T&E Continuum: Concepts and a Case Study <i>Mr. Nicholas Jones, STAT COE</i>	Deep Space Advanced Radar Capability Digital Engineering Approach <i>Sean Ricks, MITRE</i>	Challenges of a Paper-to-Digital Evolution Toward Model-Based Cybersecurity T&E (Distribution Statement D) <i>Jacky Speck, Naval Surface Warfare Center, Philadelphia Division (NSWCPD)</i>

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1040-1110	Model Verification in a Digital Engineering Environment - An Operational Test Perspective <i>Dr. Joanna Capp, Institute for Defense Analyses</i>	MBSE and DevSecOps Integration — T&E Challenges <i>Dr. Than Lam, Professor of System Engineering-Digital, DAU</i> <i>Mr. Brian D. Kozola, DAU, Engineering & Technology Department</i> <i>Dr. James Roch, DAU, Engineering & Technology Department</i>	Driving Innovation in Software Acquisition Pathway with MBSE (Distribution Statement C) <i>Maj. Krista Roth, Chief Developmental Test Space C2 Program Office</i> <i>Lt. Col. Jenny Ji, USSF, Operational Space C2</i>
1115-1145	Automated Reasoning Technologies Will Enable a Correct-by-Construction Approach to Systems Engineering <i>Raheel Mahmood, Sandia National Laboratories</i> <i>Jackson Mayo, Sandia National Laboratories</i> <i>Robert Armstrong, Sandia National Laboratories</i>	Panel Discussion: NAVAIR MBSE/T&E Hack-a-thon <i>Ken Senechal, NAVAIR, Digital Transformation T&E Working Group Lead</i>	Transformation to DevOps and DevSecOps in Hull, Mechanical, and Electrical Systems (Distribution Statement D) <i>Michael Ryan, DevSecOps Lead, Naval Surface Warfare Center, Philadelphia Division</i>
1150-1220			Gateway to Site Using Digital Engineering to Manage Public Private Partnerships (Distribution Statement C) <i>April Valdez, Air Force Research Laboratory</i>
1220-1320	Lunch		
1320-1450	Interactive: Next Steps for DE in T&E		
1450-1500	Break		
1500-1530	Uncertainty Quantification and Fusion Model Calibration to Increase Accuracy and Efficiency of T&E Resources <i>Kishor Ramaswamy, Director Application Engineering (Optics), Ansys Inc.</i> <i>David Green, Ansys Inc.</i> <i>Scott Granger, Ansys Inc.</i> <i>Kalyan Sharma, Ansys Inc.</i>	ATEC Enterprise Architecture (Distribution Statement C) <i>Brian Kelly, CDO, ATEC</i> <i>Davin O'Neill, MITRE</i>	Remote Access to Tactical System of Systems in the Cloud (Distribution Statement D) <i>Scott Bindas, Innovative Defense Technologies</i> <i>Frank Monte, Innovative Defense Technologies</i>

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1535-1605		ATEC Data Mesh (Distribution Statement C) <i>Brian Kelly, CDO, ATEC</i> <i>Davin O’Neill, MITRE</i>	Redstone Test Center’s Approach to Digital Engineering & LVC M&S In Support of Army Modernization (PM FLRAA/FARA) (Distribution Statement D) <i>Jeff Tolleson, Director, PeopleTec</i> <i>Will Harrell, Chief Technologist Redstone Test Center</i>
1610-1640	Interactive Discussion: Joint Test Concept <i>Ms. Christina Houfek, Virginia Tech — Applied Research Corporation</i> <i>Dr. Maegen Nix, Virginia Tech — Applied Research Corporation</i>	Model-Based Test Engineering: Incorporating Test Engineering into the Digital Engineering Transformation (Distribution Statement D) <i>Maj. Steven Wachtel, 780th Test Squadron</i> <i>Mr. Johnston Coil, LinQuest</i> <i>Mr. Robert Riley, AFRL/RQ</i>	A Model Based Test and Evaluation Master Plan (MBTEMP) Approach for the Future Long Range Assault Aircraft (FLRAA) (Distribution Statement D) <i>Mr. Jason Bigger, FLRAA PMO</i> <i>Mr. George Michael Winter, MTSI supporting FLRAA PMO</i>
1645-1715		Case Study: Test and Evaluation of Tactical Energy Management Controls for Navy Power and Energy Systems Based on Digital Twins (Distribution Statement D) <i>Philip Stone, Engineering Manager – Integer Technologies</i> <i>Josh Knight, Integer Technologies</i> <i>Dylan Temple, Integer Technologies</i>	Measuring Operational Resilience Pilot (Distribution Statement D) <i>Peter Beling, Virginia Tech National Security Institute</i>
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Day 3, Thursday 29 June – Action			
Time (EDT)	Room 1202 Approved for Public Release	Room 1203 Controlled Unclassified Information (CUI)	Room 1306+1308
0800-0915	Event Check-In and Networking		
0915-0945	Keynote: Exploring a Digital Twin Maturity Model and its Applications in Digital Engineering Practices <i>Paul Cummings, Ph.D., Unity Technologies, Chief Architect Unity Government and Aerospace</i> <i>Dan McConnell, Booz Allen Hamilton, Chief Technologist</i>		

Day 3, Thursday 29 June – Action

Time (EDT)	Room 1202 Approved for Public Release	Room 1203 Controlled Unclassified Information (CUI)	Room 1306+1308
0950-1020	Benefits & Challenges of Applying Digital Twins & Hybrid Analytics in Testing & Evaluation Programs <i>Anirudh Mukhopadhyay, Ansys Inc.</i>	ATEC Distributed LVC Test Environment for MDO Testing (Distribution Statement D) <i>Dr. Kenneth LeSueur, U.S. Army Test & Evaluation Command</i>	
1025-1055	Virtualization of CONOPS Integrated HIL Testing for Aerospace Applications <i>Anirudh Mukhopadhyay, Ansys Inc.</i> <i>Shital Joshi, Sr. Director, Ansys Inc.</i> <i>Nijas Kunju, Technology Lead, Ansys Inc.</i> <i>Tarun Gupta, Chief Business Manager National Instruments</i> <i>Satya Gopal, Founder & CEO, Constelli Signals</i>	Model-Based Development Activities in F-35 (Distribution Statement D) <i>Mark Pflanz, Ph.D., MBSE Lead, F-35</i>	
1100-1130	The Advanced Weapons Elevator Digital Twin <i>Doug Mintz, Huntington Ingalls Industries</i>	F-35 M&S Centered T&E (Distribution Statement D) <i>Ali Aldjaji, F-35 T&E GT&S Strategy and Investment Lead</i>	
1130-1150	Interactive: Farewell and Gather Feedback <i>Mr. Christopher C. Collins, Executive Director, Developmental Test, Evaluation, and Assessments</i>		

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