# System of Systems Engineering Collaborators Information Exchange (SoSECIE)

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**Extending the DoD Digital Engineering Strategy to Missions, Systems of Systems, and Portfolios**

***Presenters: Ms. Philomena Zimmerman, OUSD(R&E)***

***Dr. Judith Dahmann, The MITRE Corporation***

#### Abstract

This webinar presents digital engineering and the five goals of the Digital Engineering Strategy (DES) to provide the foundation for transforming systems engineering. The Department of Defense (DoD) is pursuing a digital engineering strategy. This webinar demonstrates the benefits of applying digital engineering beyond traditional systems as the DoD increases its focus on mission. The DES focuses on improving engineering of systems through the lifecycle, which can be extended to apply beyond systems – to missions, systems of systems (SoS), and portfolios.

#### Biography

Ms. Philomena Zimmerman has a BS in Mathematics from St. John Fisher College, with an emphasis in Computer Science from Rochester Institute in Technology. She is DAWIA Level 3 certified in T&E, and SPRDE. She is also currently the Deputy Director for Engineering Tools and Environments, within OUSD(R&E). She leads the effort to advance the use of model-based techniques to advance SE concepts in acquisition. As a member of the SE staff, she is responsible for establishing the effective use of modeling and simulation, as a systems engineering tool to support acquisition programs, as well as the related efforts in modular open systems architectures, intellectual property, and data rights. Previously, Ms. Zimmerman served in various leadership positions within the Army’s Future Combat System Program, and PEO Integration. She has been active in standards development, and is a strong proponent of Model Based Engineering. She participates in various professional activities, including INCOSE, NDIA, and SISO.

Dr. Judith Dahmann is a principal senior scientist in the MITRE Corporation Center for the MITRE Systems Engineering Technical Center and the Capability Action Team leader for SoS. Dr. Dahmann is currently the MITRE project leader for the DoD Office of the Deputy Assistant Secretary of Defense for Systems Engineering, and she is the MITRE task lead for a set of SoS technology development projects at the Defense Advanced Research Projects Agency (DARPA). Dr. Dahmann holds a Bachelor’s Degree from Chatham College in Pittsburgh, PA with a year as a special student at Dartmouth College, a Master’s Degree from The University of Chicago and a Doctorate from Johns Hopkins University.