



OFFICE OF THE DEPUTY ASSISTANT SECRETARY OF DEFENSE SYSTEMS ENGINEERING

System of Systems Engineering Collaborators Information Exchange (SoSECIE)

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System of Systems (SoS) Systems Engineering in Acquisition Program Planning

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Abstract

Over the past year, the Office of the Deputy Assistant Secretary of Defense for Systems Engineering (ODASD(SE)) has been incorporating an explicit review of systems of systems (SoS) issues and risks into oversight of DoD Major Defense Acquisition Programs (MDAPs), particularly reviews of Systems Engineering Plans (SEPs) and Acquisition Strategies. The current SEP outline calls out SoS-related considerations that provide insights into the SoS context for the program and how the program is addressing SoS considerations in its technical planning. This presentation provides an overview of this experience.

Biographies

Dr. Judith Dahmann is a principal senior scientist in the MITRE Corporation Center for Advanced Systems Analysis and Acquisition. Dr. Dahmann is currently the technical director for Systems Analysis in ODASD(SE). In this capacity, she is part of a team working to develop approaches to the acquisition, development and systems engineering of integrated user capabilities with a focus on early systems engineering, SoS and advanced systems engineering applications. She led development of a guide for systems engineering of SoS and ongoing SoS engineering guidance, oversight and research. Prior to this, Dr. Dahmann was the Chief Scientist for the Defense Modeling and Simulation Office for the US Director of Defense Research and Engineering. Dr. Dahmann holds a Bachelor's Degree from Chatham College, spent 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.

Kristen Baldwin is the Principal Deputy in the Office of the Deputy Assistant Secretary of Defense for Systems Engineering (ODASD(SE)). Ms. Baldwin acts on behalf of the DASD and is responsible for engineering and technical workforce, policy, and acquisition program implementation across the Department of Defense (DoD). She is also overseeing the DoD's strategies for Engineering Resilient Systems and Trusted Systems Design. A member of the Senior Executive Service, Ms. Baldwin is also the acting Director for Systems Analysis. She leads modeling and simulation activities across DoD, system assurance, program protection, systems engineering for systems of systems, and SE research and development initiatives. She oversees the DoD Systems Engineering Research Center, a University Affiliated Research Center dedicated to advancing systems engineering methods, processes, and tools, and the MITRE National Security Engineering Center, a DoD Federally Funded Research and Development Center. Ms. Baldwin received a bachelor's degree in mechanical engineering from the Virginia Polytechnic Institute and a master's degree in systems management from the Florida Institute of Technology.