# System of Systems Engineering Collaborators Information Exchange (SoSECIE)

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**Mission Analysis and Operational Architectures**

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#### Abstract

This briefing will describe and demonstrate the uses of a systems metamodel for performing Mission Analysis when architecting a systems of systems. Mission Analysis, sometimes referred to as Business Analysis, can be defined as the process of understanding the socio-economic and technological context in which potential problems or opportunities reside. To this end it is important to identify the tasks and capabilities for end-users that enable specific operational (or business) outcomes demanded by stakeholders. This presentation will explain the metamodel and apply the metamodel to specific examples of Mission Analysis. The metamodel described in this presentation is available in all Vitech tools but may also be adapted for use in other products.

#### Biography

Mark Simons is a Principal Systems Engineer at the Vitech Corporation where he is responsible for consulting and training functions. Mark has many years of experience in systems engineering of space, aviation, telecommunication, and defense systems. Mark has previously worked for MITRE and NASA. He has also instructed topics in systems engineering in the Johns Hopkins Whiting Engineering for Professionals program.