



# *Systems Engineering Forum*

## Virtual Series

### **Enterprise Engineering Analytics**

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**Abstract:**

Customers across the Department of Defense (DoD) and Intelligence Community (IC) are adopting Model-Based Engineering (MBE) and Agile practices in the development of software-intensive enterprises and their constituent systems-of-systems and systems. Each of these practices has its own processes and frameworks that generate a wealth of engineering and management data. This data is distributed over multiple tools, organizations and lifecycle phases, making it difficult to track and assess the health and status of engineering and management processes and products holistically. The Aerospace Corporation is building a flexible Enterprise Analytic Dashboard (EAD) framework to access, aggregate and analyze this distributed data, to create the right knowledge at the right time, enabling effective, integrated engineering and management decisions across tools, organizations and lifecycle phases. The EAD framework is comprised of reusable templates and patterns that can be customized to an agile enterprise's processes, roles, and distributed data sources. Specialized KPIs, metrics and visualizations harness the power of distributed MBE and Agile enterprise data to: (1) Create holistic, Agile enterprise knowledge; (2) Inform effective, integrated decision-making; (3) Highlight issues and reduce risk; This presentation will discuss specialized KPIs and metrics selected to support the EAD framework and provide a demonstration of the EAD framework's current capabilities and future direction. Additionally, this presentation will also provide insights on the challenges and lessons learned to adopting the EAD framework to DOD and IC customers.