Research on Enterprise Systems of Systems as Complex Systems

Develop methods, processes, and tools that

Model

.... allow quick and insightful modeling of enterprises/SoS so that the **effects of changes in policies, practices, components, interfaces, and technologies** can be anticipated and understood in advance of their implementation

Acquire

.... allow insight into enterprise/SoS acquisition approaches in the face of significant uncertainty and change to **minimize unintended consequences and unforeseen risks**

Evolve

.... facilitate evolving and growing an enterprise/SoS, including insight into different **architectural and integration approaches** that facilitate evolution in the face of uncertainty and change in how an enterprise/SoS is employed, the technologies available to realize it, and the environment in which it exists

Verify

..... allow the properties of an enterprise/SoS to be **anticipated, monitored and confirmed** during development and evolution, including an enterprise/SoS which includes legacy

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SE Research Center (SERC) thrust in Enterprise Systems of Systems