

# An Enterprise Systems Engineering Model

From SEBoK

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DeRosa, J.K. 2006. "An Enterprise Systems Engineering Model." Proceedings of the 16th Annual International Council on Systems Engineering (INCOSE) International Symposium, July 9-13, 2006, Orlando, FL, USA.

## Usage

This source is considered a primary reference for the Enterprise Systems Engineering Key Concepts article.

## Annotation

In this paper, DeRosa has included the following process areas in the ESE process to close the gap between ESE and product SE:

- Strategic Technical Planning
- Enterprise Architecture
- Capabilities-Based Planning Analysis
- Technology Planning
- Enterprise Analysis and Assessment

SE is viewed by many organizations and depicted in many process definitions as bounded by the beginning and end of a system development project. In DeRosa's paper this restricted definition was referred to as Traditional SE (TSE). However, he expands upon this to include additional processes that are essential to performing SE at the enterprise level. These ESE processes are shown in the context of the entire enterprise in the figure below. The ESE processes are shown in the middle with business processes on the left and TSE processes on the right.

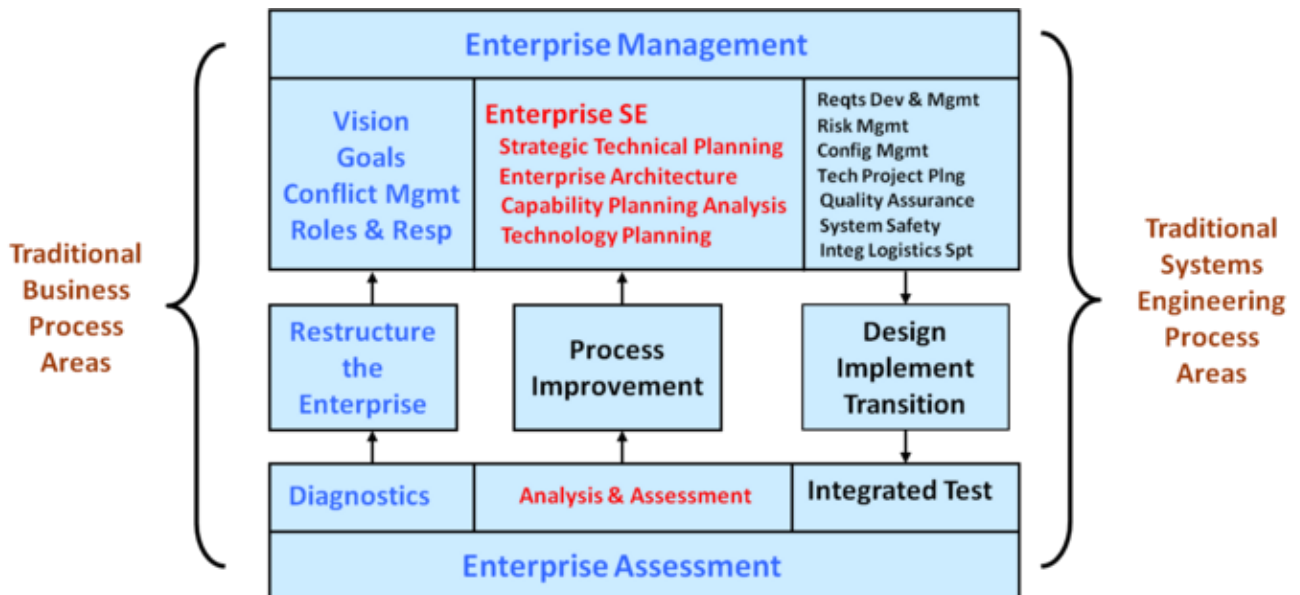


Figure 1. Enterprise SE Process Areas in the Context of the Entire Enterprise (DeRosa 2006). Reprinted with permission of © 2011. The MITRE Corporation. All Rights Reserved. All other rights are reserved by the copyright owner.

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