

Guide to the Systems Engineering Body of Knowledge (SEBoK)

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On behalf of the Editorial Board, the Governing Board, and our authors and sponsors, welcome to SEBoK version 2.10.

Released 06 May 2024

Welcome to SEBoK v. 2.10

The SEBoK provides a guide to the key knowledge sources and references of systems engineering organized and explained to assist a wide variety of individuals. It is a living product, accepting community input continuously, with regular refreshes and updates. The SEBoK is not a compendium but instead references existing literature.

Systems engineering is an interdisciplinary approach and means to enable the full life cycle of successful product, service and enterprise systems. It includes problem discovery and formulation, solution definition and realization, and operational use, sustainment, and disposal. It can be applied to single-problem situations or to the management of multiple interventions in commercial or public enterprises. Those new to systems engineering can find introductory articles which provide an overview of systems engineering, place it in historical context, and discuss its economic value in Part 1 of this body of knowledge.

What's New?

A blue rounded rectangular button with a white border and a subtle drop shadow. The text "Download the SEBoK" is centered in a bold, black, sans-serif font.

**Download
the SEBoK**

The latest update includes:

- A new Get Involved invitation page including a new SEBoK content review form
- Significant Part 3 Systems Engineering and Management updates to reflect current practice
 - Renaming of System Life Cycle Models articles to simplify the titles
 - A new Requirements Management article
 - "Business and Mission Analysis" knowledge area renamed to System Concept Definition
 - "Stakeholder Needs and Requirements" is now Stakeholder Needs Definition
 - "Stakeholder Requirements Definition" is now System Requirements Definition
 - A new System Architecture Design Definition knowledge area article
 - The System Maintenance knowledge area has been reorganized
- Minor updates to articles throughout the SEBoK

You will see these identified in the left side outline and in the SEBoK Table of Contents page. Enjoy!

SEBoK Organization



Figure 1. Scope of SEBoK: Parts and related knowledge.
Click on a Part to navigate to it. (SEBoK Original).

The SEBoK is a **guide** to the broad scope of SE-related knowledge. The core of this is tested and proven knowledge that has been developed through practice, documented, reviewed, and discussed by the SE community. In addition, the SEBoK also covers some of the emerging aspects of SE practice, such as Systems of Systems, Agile Life Cycle approaches and Model Based Systems Engineering (MBSE).

Systems engineering has its roots in the fundamentals, principles, and models of foundational systems sciences, and associated management and engineering sciences. It is effective systems engineering processes are applied within a managed life cycle working with a number of other management, engineering, and specialist disciplines. While traditionally applied to product development, systems engineering can also be applied to service and enterprise systems. As systems engineering is a collaborative approach, working with other engineering and management disciplines and specialties, it relies on competencies at the individual and team levels and appropriate structure and governance at organizational levels.

Starting from this basic view of the scope of knowledge relevant to SE, the SEBoK is organized into 8 parts as shown in Figure 1. **Click on Figure 1 to navigate to any part of the SEBoK.**

The SEBoK includes a glossary and a list of recommended references. The main content of the SEBoK can be downloaded as a PDF for offline access if

desired.

SEBoK Governance

The SEBoK is overseen by the Governing Board appointed by the stewards, who oversee the SEBoK Editor-in-Chief and Editorial Board. The stewards contribute resources to manage the SEBoK wiki, support new releases, and encourage SEBoK adoption. Volunteer authors from the worldwide SE community continue to propose and create new content. Other volunteers review that new content. The stewards are INCOSE, the IEEE Systems Council, and Stevens Institute of Technology.

SEBoK Stewards



Contact us at sebok@incose.net.

Go to Part 1 >

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