

Development of SEBoK v. 2.2

From SEBoK

Development of SEBoK v. 2.2

This version of the SEBoK was released 15 May 2020. This is a significant release, including the first new Part to be added since v. 1.0 - Emerging Knowledge - which is a place to highlight new topics in systems engineering that are important but may not yet have a large body of literature. Recent dissertations around emerging topics are also included. A new case study on Apollo 1 was added to Part 7, which has also been reorganized around topics. Additional minor updates have occurred throughout.

Contents

- 1 Content and Feature Updates for v. 2.2
- 2 BKCASE Governing Board
- 3 Editorial Board
 - 3.1 Student Support

Content and Feature Updates for v. 2.2

This section provides a summary of changes for SEBoK v. 2.2. See letter from the Editor for a wider discussion of the changes and future plans.

A new part has been added to the SEBoK. Part 8: Emerging Knowledge is the first new Part to be added since v. 1.0 was released in 2012. Part 8 highlights new topics in systems engineering that are important but may not yet have large body of publications. The new knowledge area added in v. 2.1 around digital transformation has been moved to Part 8. In addition, a new knowledge area has been added to Part 8 on Emerging Research. This highlights recent dissertations in emerging aspects of systems engineering. The Editorial Board expects that Part 8 will grow significantly for the next release.

Part 7, which focuses on real-world examples of systems engineering, has been reorganized to group the examples by domain area. A new article on the Apollo 1 Disaster has also been added.

SEBoK functionality has been improved to make it more multimedia friendly and new videos have been added to several topics, including: ***TOPICS***

Finally, there is a version 2.2 PDF available on the Download SEBoK PDF page.

BKCASE Governing Board

The three SEBoK steward organizations - the International Council on Systems Engineering (INCOSE), the Institute of Electrical and Electronics Engineers Systems Council (IEEE-SYSC), and the Systems Engineering Research Center (SERC) provide the funding and resources needed to sustain and evolve the SEBoK and make it available as a free and open resource to all. The stewards appoint the BKCASE Governing Board to be their primary agents to oversee and guide the SEBoK and its companion BKCASE product, GRCSE.

The BKCASE Governing Board includes:

- **The International Council on Systems Engineering (INCOSE)**
 - Art Pyster (Governing Board Chair), Paul Frenz
- **Systems Engineering Research Center (SERC)**
 - Jon Wade, Cihan Dagli
- **IEEE Systems Council (IEEE-SYSC)**
 - Stephanie White, Bob Rassa

Past INCOSE governors Bill Miller, Kevin Forsberg, David Newbern, David Walden, Courtney Wright, Dave Olwell, Ken Nidiffer, Richard Fairley, Massood Towhidnejad, John Keppler. The governors would also like to acknowledge Andy Chen and Rich Hilliard, IEEE Computer Society, who were instrumental in helping the Governors to work within the IEEE CS structure and who supported the SEBoK transition to the IEEE Systems Council.

The stewards appoint the SEBoK Editor in Chief to manage the SEBoK and oversee the Editorial Board.

Editorial Board

The SEBoK Editorial Board is chaired by the Editor in Chief, who provide the strategic vision for the SEBoK. The EIC is supported by a group of Editors, each of whom are responsible for a specific aspect of the SEBoK. The Editorial Board is supported by the Managing Editor, who handles all day-to-day operations. The EIC, Managing Editor, and Editorial Board are supported by a student, Madeline Haas, whose hard work and dedication are greatly appreciated.

SEBoK Editor in Chief



Robert J. Cloutier

University of South Alabama
rcloutier@southalabama.edu

Responsible for the appointment of SEBoK Editors and for the strategic direction and overall quality and coherence of the SEBoK.

SEBoK Managing Editor



Nicole Hutchison

Systems Engineering Research Center
nicole.hutchison@stevens.edu or emtnicole@gmail.com

Responsible for the the day-to-day operations of the SEBoK and supports the Editor in Chief.

Each Editor has his/her area(s) of responsibility, or shared responsibility, highlighted in the table below.

SEBoK Part 1: SEBoK Introduction

Lead Editor: Robert J. Cloutier

University of South Alabama
rcloutier@southalabama.edu

SEBoK Part 2: Foundations of Systems Engineering

Lead Editor: Gary Smith

Airbus
gary.r.smith@airbus.com

Assistant Editor: Dov Dori

*Massachusetts Institute of Technology (USA) and
Technion Israel Institute of Technology (Israel)*
dori@mit.edu
Responsible for the Representing Systems with
Models knowledge area

Assistant Editor: Peter Tuddenham

College of Exploration (USA)
Peter@coexploration.net

Assistant Editor: Duane Hybertson

MITRE (USA)
dhyberts@mitre.org
Jointly responsible for the Systems
Fundamentals, Systems Science and Systems
Thinking knowledge areas.

Assistant Editor: Cihan Dagli

*Missouri University of Science & Technology
(USA)*
dagli@mst.edu
Responsible for the Systems Approach Applied to
Engineered Systems knowledge areas.

SEBoK Part 3: Systems Engineering and Management

Assistant Editor: Barry Boehm

University of Southern California (USA)
boehm@usc.edu
Jointly responsible for the Systems Engineering
Management and Life Cycle Models knowledge
areas

Assistant Editor: Gregory Parnell

University of Arkansas (USA)
gparnell@uark.edu
Responsible for Systems Engineering
Management knowledge area.

Assistant Editor: Phyllis Marbach

Incose LA (USA)
prmarbach@gmail.com

Assistant Editor: Kevin Forsberg

OGR Systems
kforsberg@ogrsystems.com
Jointly responsible for the Systems Engineering
Management and Life Cycle Models knowledge
areas

Assistant Editor: Garry Roedler

Lockheed Martin (USA)
garry.j.roedler@lmco.com
Responsible for the Concept Definition and
System Definition knowledge areas.

Assistant Editor: Ken Zemrowski

ENGILITY
kenneth.zemrowski@incose.org
Responsible for the Systems Engineering
Standards knowledge area.

SEBoK Part 4: Applications of Systems Engineering

Lead Editor: Tom McDermott

Systems Engineering Research Center (SERC)
tmcdermo@stevens.edu

Assistant Editor: Judith Dahmann

MITRE Corporation (USA)
jdahmann@mitre.org
Jointly responsible for Product Systems
Engineering and Systems of Systems (SoS)
knowledge areas.

Assistant Editor: James Martin

The Aerospace Corporation
james.martin@incose.org
Responsible for the Enterprise Systems Engineering knowledge area.

Assistant Editor: Michael Henshaw

Loughborough University (UK)
M.J.d.Henshaw@lboro.ac.uk
Jointly responsible for Product Systems
Engineering and Systems of Systems (SoS)
knowledge areas

SEBoK Part 5: Enabling Systems Engineering

Lead Editor: Nicole Hutchison
Systems Engineering Research Center
nicole.hutchison@stevens.edu

Assistant Editor: Emma Sparks
Cranfield University
Jointly responsible for the Enabling Individuals
and Enabling Teams knowledge areas.

Assistant Editor: Rick Hefner
California Institute of Technology
Rick.Hefner@ngc.com

Assistant Editor: Bernardo Delicado
MBDA / INCOSE
bernardo.delicado@mbda-systems.com

SEBoK Part 6: Related Disciplines

Lead Editor: Art Pyster
George Mason University (USA)
apyster@gmu.edu

SEBoK Part 7: Systems Engineering Implementation Examples

Lead Editor: Clif Baldwin
FAA Technical Center
cliftonbaldwin@gmail.com

SEBoK Part 8: Emerging Knowledge

Lead Editor: Daniel DeLaurentis
Purdue University
ddelaure@purdue.edu

Student Support

Madeline Haas, a student at George Mason University, is currently supporting the SEBoK and we gratefully acknowledge her exemplary efforts. Ms. Haas has also taken responsibility for managing the Emerging Research knowledge area of the SEBoK. The EIC and Managing Editor are very proud of the work Madeline has done and look forward to continuing to work with her.

Retrieved from

"https://www.sebokwiki.org/w/index.php?title=Development_of_SEBoK_v._2.2&oldid=59186"

-
- This page was last edited on 14 May 2020, at 14:32.

