

# Development of SEBoK v. 2.3

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Risk Management > Development of SEBoK v. 2.3

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This version of the SEBoK was released 30 October 2020. This is a minor release, including two new articles: Brief History of Systems Engineering and Portfolio Management. A number of additional minor edits, including a new overview graphic for the SEBoK, clean up of existing pages, software updates, etc. were incorporated.

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## Content and Feature Updates for v. 2.3

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As we have mentioned in previous briefings, the “Top 10 Most Viewed Pages” shifts from month to month. I find it interesting to understand what knowledge is being sought after in the SEBoK. So, in that spirit, here are the Top 10 pages viewed for September 2020:

Types of Models  
Types of Systems  
Stakeholder Needs and Requirements  
System Requirements  
Reliability, Availability, and Maintainability  
Systems of Systems (SoS)  
Life Cycle Models  
System Life Cycle  
Process Models  
Vee System Architecture  
Systems Engineering Overview  
So, what is new in this 14th release?

When you go to the top pages of each Part, you will find a new graphic. The old graphic needed to be retired so

we could add Part 8 which first appeared in the last release. This graphic reflects the connectivity of the multiple parts of the SEBoK.

We moved to a newer version of the underlying Mediawiki platform that fixes bugs and improves performance, fixed typos in a number of articles, and made numerous other small housekeeping updates. More importantly, the major content changes in this version are:

A new article on Cycles and the Cyclic Nature of Systems in Part 2/Systems Science/ provided by Gary Smith (Part 2 Lead Editor) You will find a new article on Portfolio Management in Part 6/SE and Project Management/ provided by Eric Speckling, Greg Parnell and Ed Pohl. Thanks to Holly Handley from ODU for updating the Human Systems Integration article in Part 6/SE and Specialty Engineering/. We have added five new videos to the Part 6/SE and Specialty Engineering/Security Engineering article. These videos were created by Keith Willett, with support from the INCOSE Systems Security Engineering Working Group.

## **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**

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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: 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.

**Assistant Editor: Peter Tuddenham**

*College of Exploration (USA)*

Peter@coexploration.net

**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: Kevin Forsberg**

*OGR Systems*

kforsberg@ogrsystems.com

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: Garry Roedler**

*Lockheed Martin (USA)*

garry.j.roedler@lmco.com

Responsible for the System Concept Definition and System Definition knowledge areas.

**Assistant Editor: Phyllis Marbach**

*Incose LA (USA)*

prmarbach@gmail.com

**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: 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

**Assistant Editor: James Martin**

*The Aerospace Corporation*

james.martin@incose.org

Responsible for the Enterprise Systems Engineering knowledge area.

## **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.

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