

# Development of SEBoK v. 1.7

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This version of the SEBoK was released 27th October 2016. This is a minor release of the SEBoK which includes updates to SEBoK Part: 1 SEBoK Introduction, 4 Foundations of Systems Engineering, 5 Enabling Systems Engineering, 6 Related Disciplines, 7 SE Implementation Examples.



## Contents

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Content and Feature Updates for v. 1.7

SEBoK v. 1.7 Authors

SEBoK v. 1.7 Editors

Editorial Board

## Content and Feature Updates for v. 1.7

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This section provides a summary of changes for SEBoK v1.7. See letter from the editor for a wider discussion of the changes and future plans.

This is a minor update, that features a new Healthcare SE Knowledge Area (KA) in Part 4: Applications of Systems Engineering introducing four new articles on healthcare, Overview of the Healthcare Sector, Systems Engineering in Healthcare Delivery, Systems Biology, Lean in Healthcare.

The focus on MBSE has also been expanded with two new articles, an MBSE case study added to Part 7 and an article describing the use of SysML for modelling Systems Engineering Core Concepts. Part 7 has been expanded with an additional case study on

the Northwest Hydro System. The article on Technical Leadership in Part 5 has been updated with new material, and Part 6 has also seen major updates of the Reliability, Availability, and Maintainability article as well as the System Resilience (formerly "Resilience Engineering") article.

Finally, work has been done on describing the organization of knowledge within the SEBoK with the aim of providing readers with better guidance through the SEBoK structure. The Structure of the SEBoK has been update to provide a better overview of the SEBoK and a simplified version of the central model created for the SEBoK structure has been added to the SEBoK main page and to the introductions of each individual part of the SEBoK.

## **SEBoK v. 1.7 Authors**

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Editors (in bold) and Authors who contributed materials specifically to the v. 1.7 products are listed in Table 1, below

**Table 1. SEBoK v. 1.7 Authors.** (SEBoK Original)

<b>SEBoK Part</b>	<b>Editors and Authors</b>
Part 1	Sanford Friedenthal (USA), Rick Adcock, Cranfield University (UK), John Watson (USA)
Part 4	<b>Nicole Hutchison</b> (USA), Chris Unger (USA), Brigitte Daniel Allegro (France), Robert J. Malins (USA), INCOSE Healthcare Working Group
Part 5	<b>Tim Ferris</b> , Cranfield University (UK), Rupert England (UK)
Part 6	<b>Alice Squires</b> , <i>Washington State University</i> (USA), <b>Paul Phister</b> (USA), Myron J. Hecht (USA) John Britis (USA)
Part 7	<b>Dick Fairley</b> (USA), Steve Mitchell (USA)

## **SEBoK v. 1.7 Editors**

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The Editorial Board for v. 1.7 is listed in Tables 2, 3, and 4 below.

## **Editorial Board**

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The SEBoK Editorial Board is chaired by an Editor in Chief, supported by a group of Associate Editors.

**Table 2. SEBoK v. 1.7 Leadership.** (SEBoK Original)

**BKCASE Editor in Chief**



**Richard D. Adcock**  
*Cranfield University (UK)*  
richard.adcock@incose.org  
Responsible for the appointment of SEBoK Editors and for the overall content and coherence of the SEBoK.

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

**Table 3. SEBoK v. 1.7 Associate Editors.** (SEBoK Original)

**SEBoK Part 1 SEBoK Introduction**

**Ariela Sofer**

*George Mason University (USA)*  
asofer@gmu.edu  
Responsible for Part 1

**SEBoK Part 2: Foundations of Systems Engineering**

**Cihan Dagli**

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

**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

**Duane Hybertson**

*MITRE (USA)*  
Jointly responsible for the Systems Fundamentals, Systems Science and Systems Thinking knowledge areas

**Janet Singer (USA)**

Jointly responsible for the Systems Fundamentals, Systems Science and Systems Thinking knowledge areas

**Mike Yearworth**

*University of Bristol (UK)*  
Jointly responsible for the Systems Fundamentals, Systems Science and Systems Thinking knowledge areas

**SEBoK Part 3: Systems Engineering and Management**

**Barry Boehm**

*University of Southern California (USA)*

boehm@usc.edu

Jointly responsible for the Systems Engineering Management and Life Cycle Models knowledge areas

**Kevin Forsberg**

*OGR Systems*

Jointly responsible for the Systems Engineering Management and Life Cycle Models knowledge areas

**Gregory Parnell**

*University of Arkansas (USA)*

gparnell@uark.edu

Responsible for Systems Engineering Management knowledge area.

**Garry Roedler**

*Lockheed Martin (USA)*

garry.j.roedler@lmco.com

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

**Ricardo Valerdi**

*University of Arizona (USA)*

rvalerdi@email.arizona.edu

Responsible for the System Realization knowledge area.

**Ken Zemrowski**

*TASC*

kenneth.zemrowski@incose.org

Responsible for the Systems Engineering Standards knowledge area.

**SEBoK Part 4: Applications of Systems Engineering****Judith Dahmann**

*MITRE Corporation (USA)*

jdahmann@mitre.org

Jointly responsible for Product Systems Engineering and Systems of Systems (SoS) knowledge areas

**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

**James Martin**

*The Aerospace Corporation*

james.martin@incose.org

Responsible for the Enterprise Systems Engineering knowledge area.

**SEBoK Part 5: Enabling Systems Engineering****Emma Sparks**

*Cranfield University*

Jointly responsible for the Enabling Individuals and Enabling Teams knowledge area

**Rick Hefner**

*California Institute of Technology*

**Tim Ferris**

*Cranfield University*

**Bernardo Delicado**

*MBDA / INCOSE*

**SEBoK Part 6 Related Disciplines****Alice Squires**

*Washington State University (USA)*

alice.squires@wsu.edu

**Paul Phister**

*MANIAC Consulting*

phisterp@juno.com

## **SEBoK Part 7 Systems Engineering Implementation Examples**

### **Dick Fairley**

S2EA

Responsible for Part 7:  
Systems Engineering  
Implementation Examples,  
which includes Case Studies  
and Vignettes

### **Brian White**

*CAU>SE (USA)*

bewhite71@gmail.com

Responsible for Part 7:  
Systems Engineering  
Implementation Examples,  
which includes Case Studies  
and Vignettes

### ***Graduate Reference Curriculum for Systems Engineering (GRCSE)***

### **David H. Olwell**

*Naval Postgraduate School (USA)*

Senior Editor for GRCSE.

The Assistant Editors provide general editorial support across all topics. They assist both with content improvement and production issues.

**Table 4. SEBoK v. 1.7 Assistant Editors.** (SEBoK Original)

#### **BKCASE Assistant Editors**

### **Claus Ballegaard Nielsen,**

*Cranfield University (UK)*

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