Development of SEBoK v. 1.7

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.

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Content and Feature Updates for v. 1.7

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 updated 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

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)

<table>
<thead>
<tr>
<th>SEBoK Part</th>
<th>Editors and Authors</th>
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</table>
Part 1  Sanford Friedenthal (USA), Rick Adcock, Cranfield University (UK), John Watson (USA)

Part 4  Nicole Hutchison (USA), Chris Unger (USA), Brigitte Daniel Allegro (France), Robert J. Malins (USA), INCOSE Healthcare Working Group

Part 5  Tim Ferris, Cranfield University (UK), Rupert England (UK)

Part 6  Alice Squires, Washington State University (USA), Paul Phister (USA), Myron J. Hecht (USA) John Britis (USA)

Part 7  Dick Fairley (USA), Steve Mitchell (USA)

SEBoK v. 1.7 Editors

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

Editorial Board

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)

<table>
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<tr>
<th>BKCASE Editor in Chief</th>
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<tbody>
<tr>
<td>Richard D. Adcock</td>
</tr>
<tr>
<td>Cranfield University (UK)</td>
</tr>
<tr>
<td><a href="mailto:richard.adcock@incose.org">richard.adcock@incose.org</a></td>
</tr>
<tr>
<td>Responsible for the appointment of SEBoK Editors and for the overall content and coherence of the SEBoK.</td>
</tr>
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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)

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

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
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

**Gregory Parnell**  
*University of Arkansas (USA)*  
gparell@email.unc.edu  
Responsible for Systems Engineering Management knowledge area.

**Ricardo Valerdi**  
*University of Arizona (USA)*  
rvalerdi@email.arizona.edu  
Responsible for the System Realization knowledge area.

**Kevin Forsberg**  
*OGR Systems*  
Kevin.Forsberg@OGRSystems.com  
Jointly responsible for the Systems Engineering Management and Life Cycle Models knowledge areas

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

**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)*  
jdhamm@mitre.org  
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.

**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

**Emma Sparks**  
*Cranfield University*  
Responsible for the Enabling Individuals and Enabling Teams knowledge area

**Tim Ferris**  
*Cranfield University*  

**Rick Hefner**  
*California Institute of Technology*  

**Bernardo Delicado**  
*MBDA / INCOSE*  

SEBoK Part 6 Related Disciplines

**Alice Squires**  
*Washington State University (USA)*  
alice.squires@wsu.edu

**Paul Phister**  
*MANIAC Consulting*  

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)


- This page was last edited on 21 August 2019, at 20:18.