What is this "Systems Engineering Book of Knowledge" (SEBoK) thing, anyway?

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Today's Topics

- SEBoK Overview
- How to use SEBoK
- 2025 Plans
- Q&A

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We want your input!

https://www.menti.com/aln3ta58gzjh

What has your level of engagement with SEBoK been to date?

In a few words, how do you use the SEBoK?

What do you believe is the value of the SEBoK?

It's a great survey on SE topics. It's my starting point when I am researching a new topic

I haven't used it yet, but am interested in industry examples

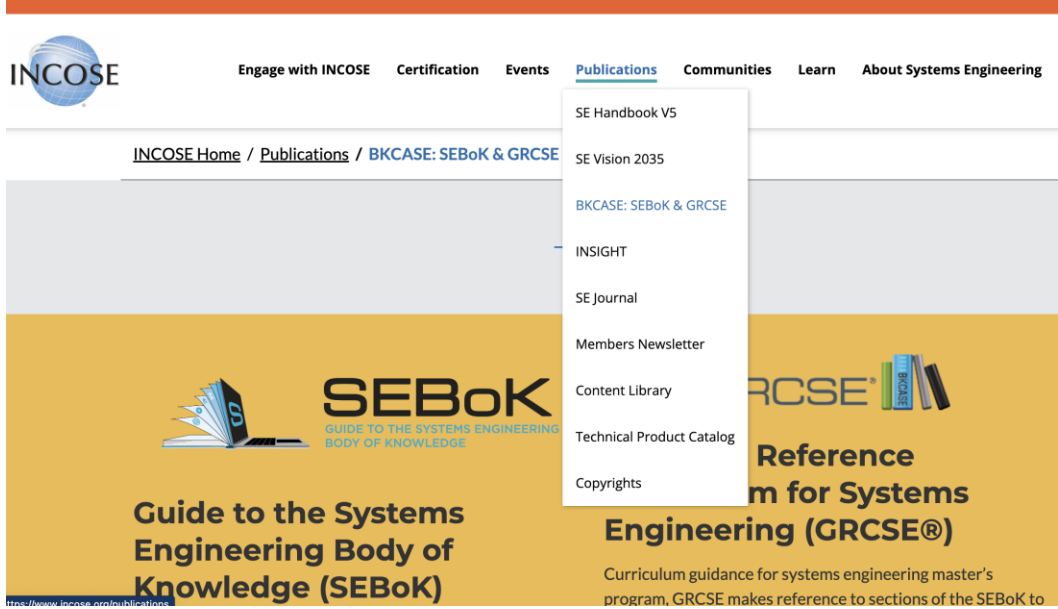
Buzz word is MBSE... I was gonna see if there a standard of what MBSE is defined in the SEBoK? I want to look for "standards" that are followed.

2024 SEBoK Use Summary

- **Total Page Views for 2024: 624,705**
- **Total Unique Visitors for 2024: 279,438**
- Total Page Views for 2012-2024: 8,633,185
- Total Unique Visitors for 2012-2024: 3,568,383
- **Total Visits for 2024: 406,666**
- Total Visits for 2012-2024: 4,304,211

SEBoK Vision

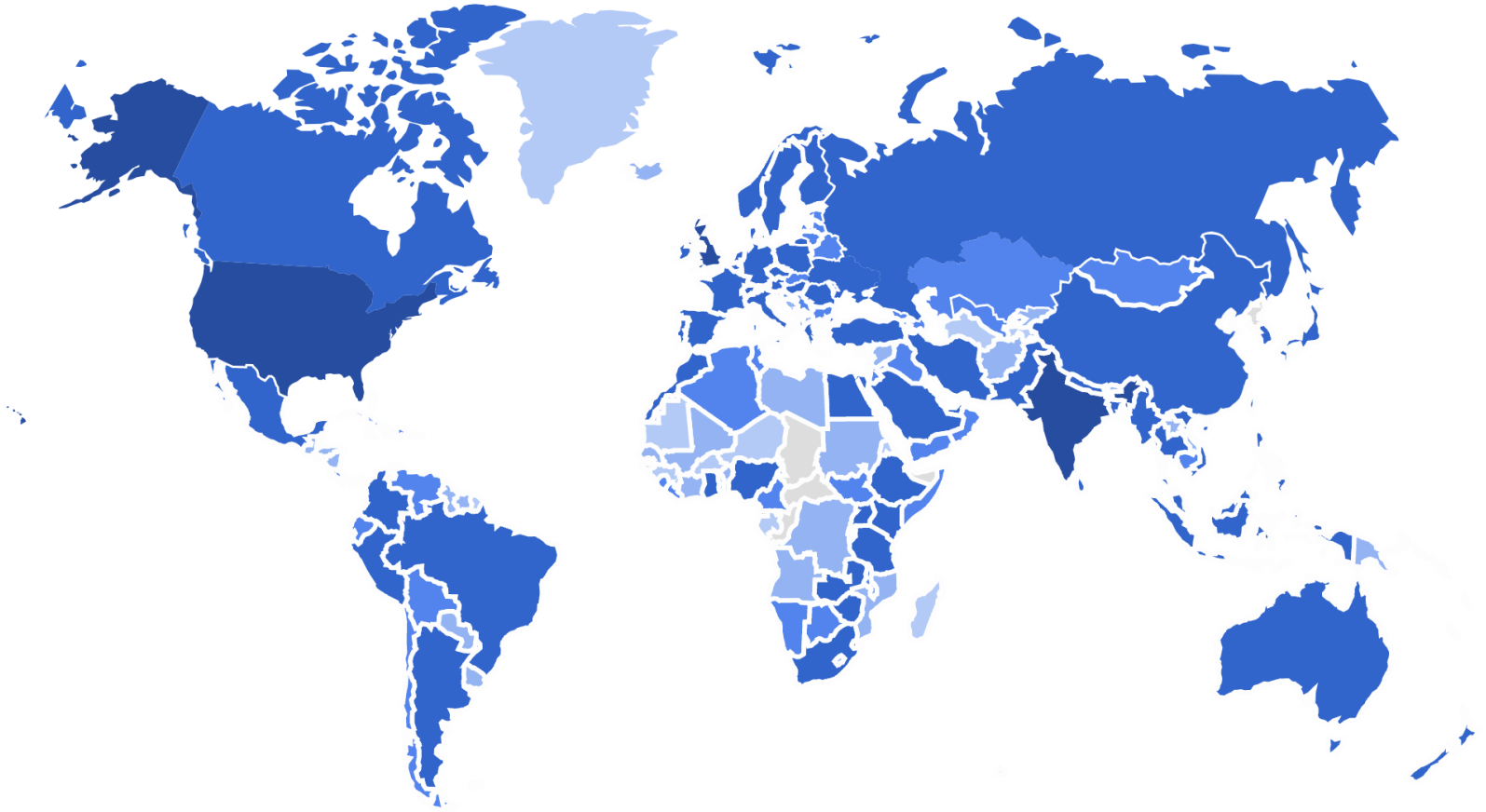
The SEBoK is **the** guide to the body of knowledge. It is intended to provide awareness, context, and resources on key topics relevant to systems engineering. This includes including references for different views when appropriate, such as in new and evolving areas. The SEBoK will be the global reference for systems engineering, providing current references and insights on theory, application, and practice.



https://sebokwiki.org/

Analytics (2024)

- Over 406k users
- Over 624k page views
- 208 countries
  - USA
  - India
  - UK
  - Australia
  - China
  - Germany
  - Canada
  - Philippines
  - Indonesia
  - France

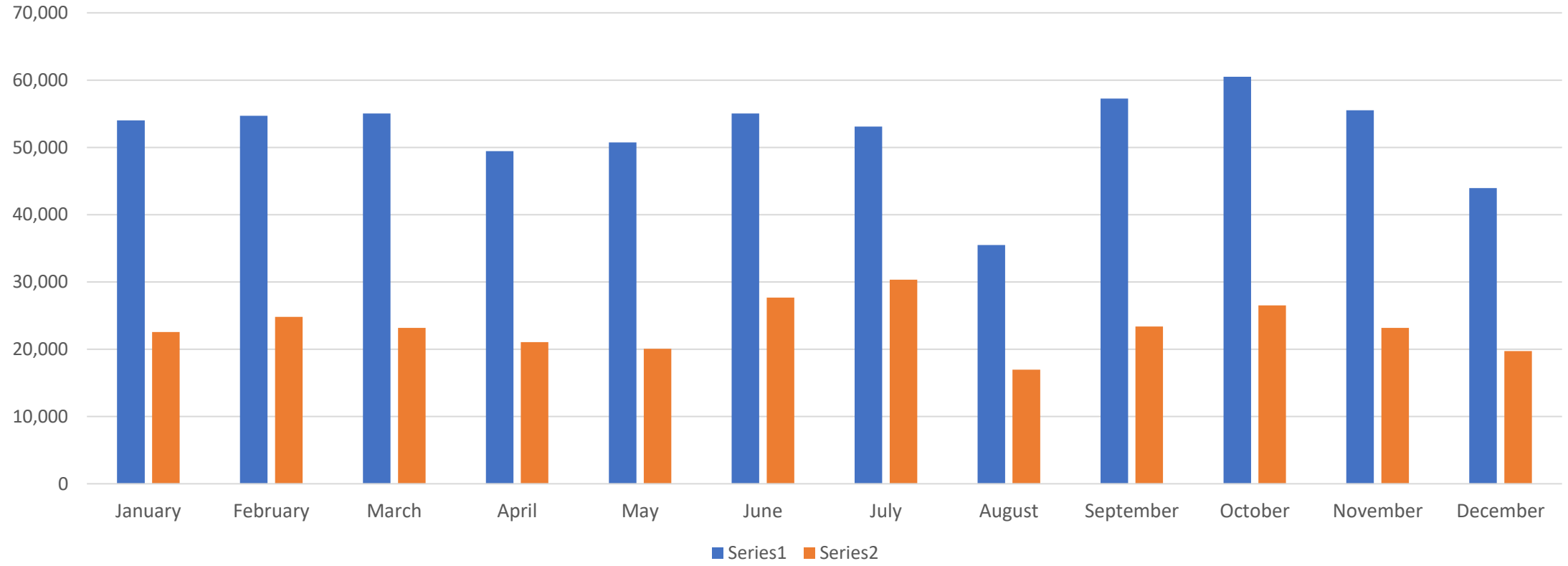


Download the SEBoK had 8k views (thousands of downloads)

We've surpassed 8.6 million page views!

Page Views & Unique Visitors: 2024

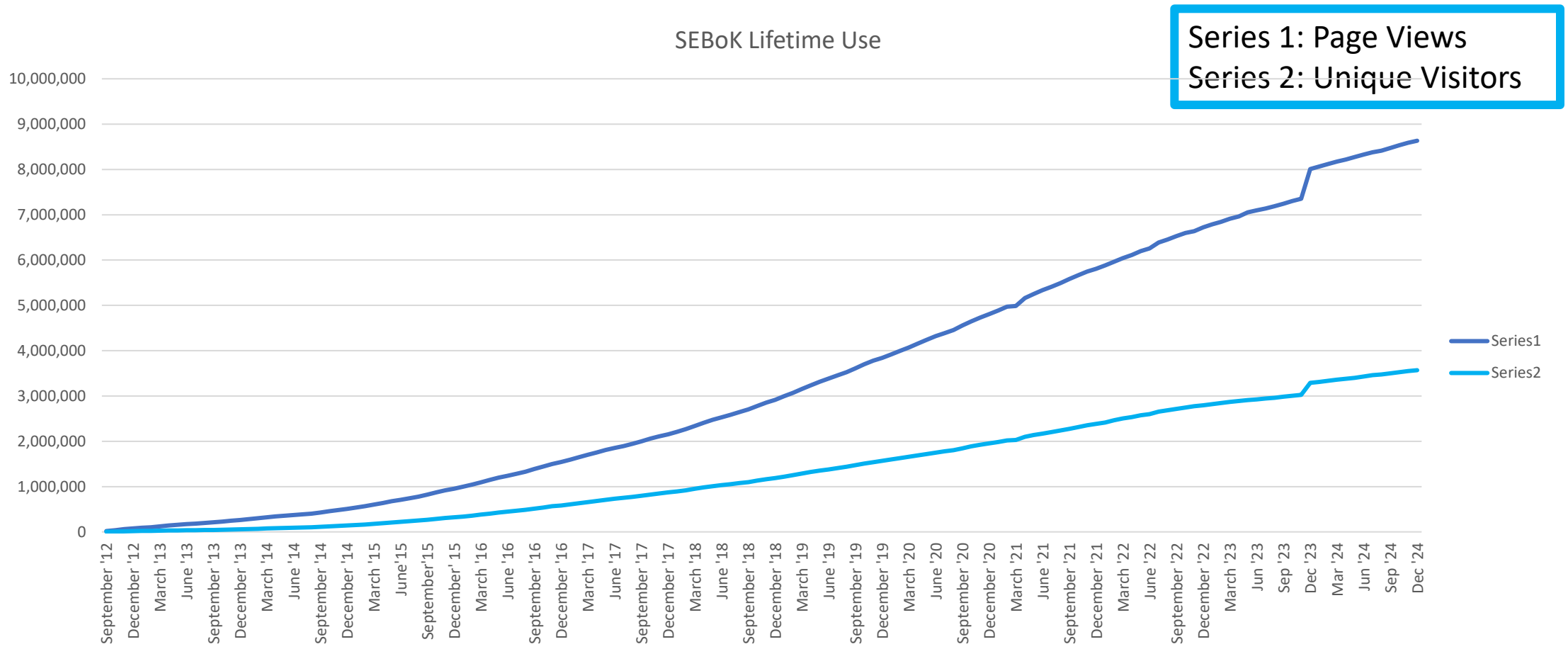
Series 1: Page Views
Series 2: Unique Visitors



Top Pages (2024)

Page	# Views
SEBoK (home page)	68,166
Types of Systems	16,145
INCOSE Systems Engineering Handbook	10,042
Types of Models	9,689
Logical Architecture	9,293
Download SEBoK PDF	7,959
System Reliability, Availability, and Maintainability	7,861
Stakeholder Needs Definition	7,837
System Verification	5,825

SEBoK Lifetime Use



https://sebokwiki.org/wiki/Structure_of_the_SEBoK

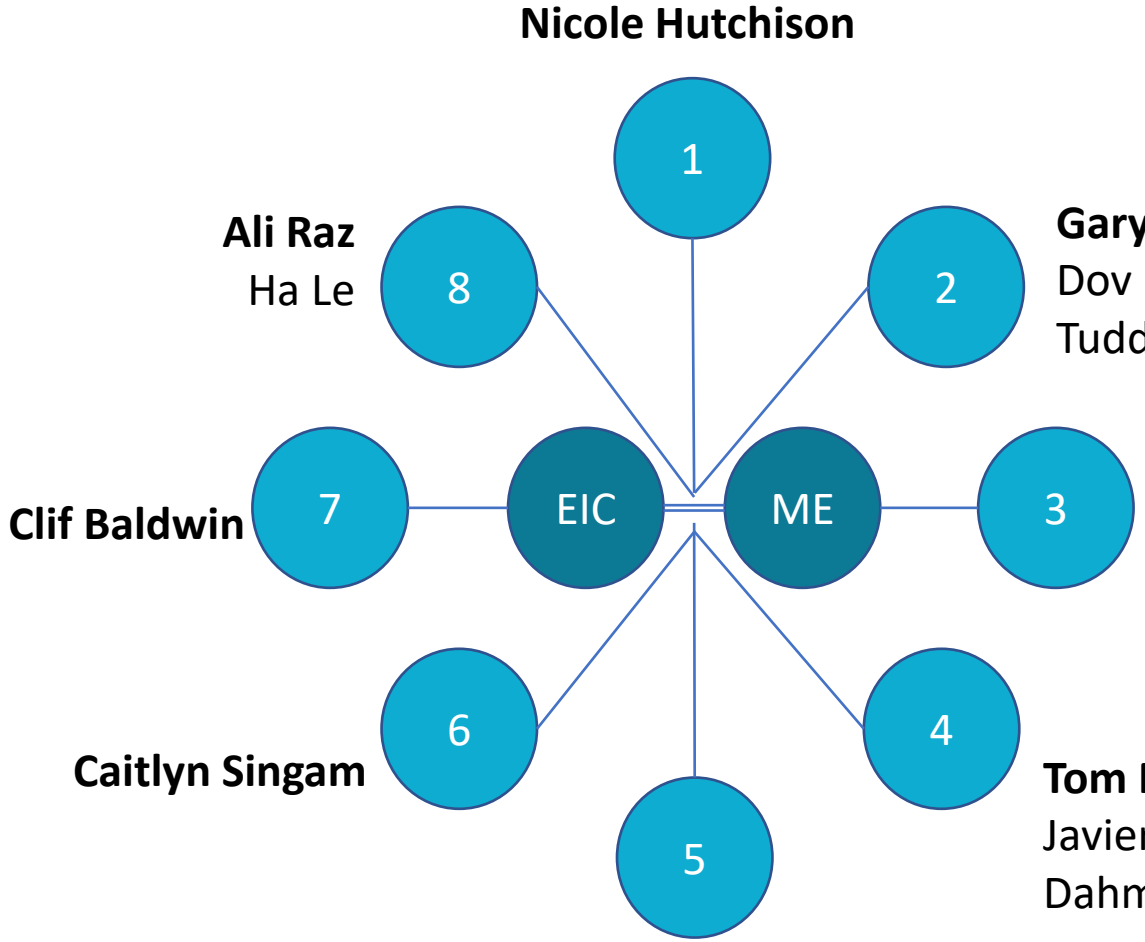
Current Editorial Board

Student Editors Support EIC/ME and other editors and authors as needed

DE **Ray Madachy**

Stds **David Endler**

Authors are engaged based on subject matter expertise.



Nicole Hutchison

Ali Raz
Ha Le

Gary Smith
Dov Dori, Duane Hybertson, Peter Tuddenham, Cihan Dagli

Clif Baldwin

Nicole H. (temp – David Endler starting Fall 2025)
Phyllis Marbach, Cecilia Haskins

Caitlyn Singam

Tom McDermott
Javier Calvo-Amodio, Judith Dahmann, Mike Henshaw

Bernardo Delicado
Emma Sparks, Rick Hefner

EIC/Part 1

Managing Editor

Student Editor

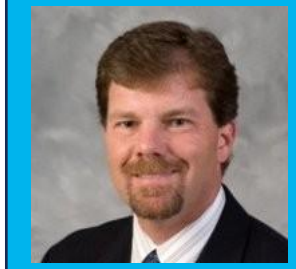



Part 2


Part 3

DE/MBSE

Standards




Part 4



Part 5

Part 6

Part 7



Part 8

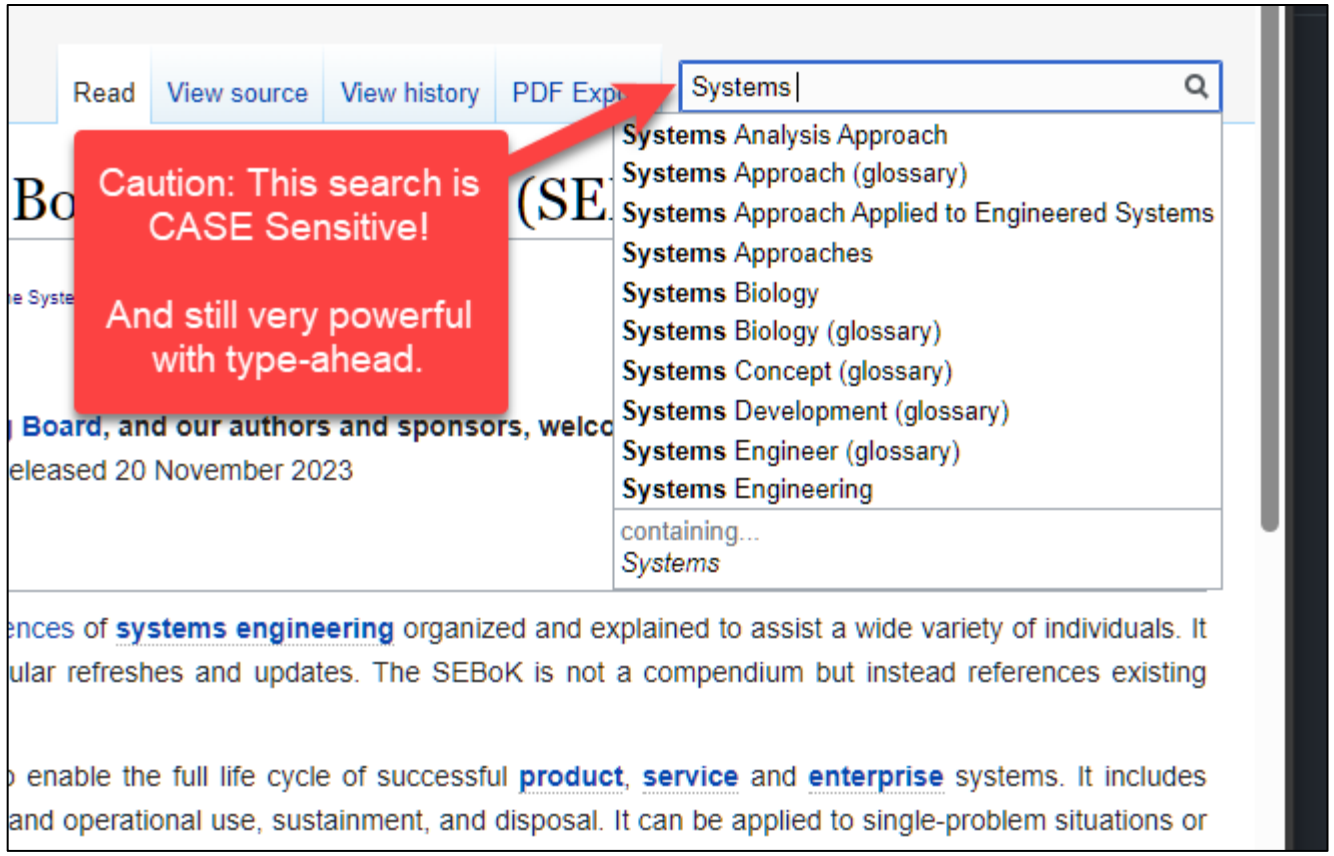
How to use SEBoK

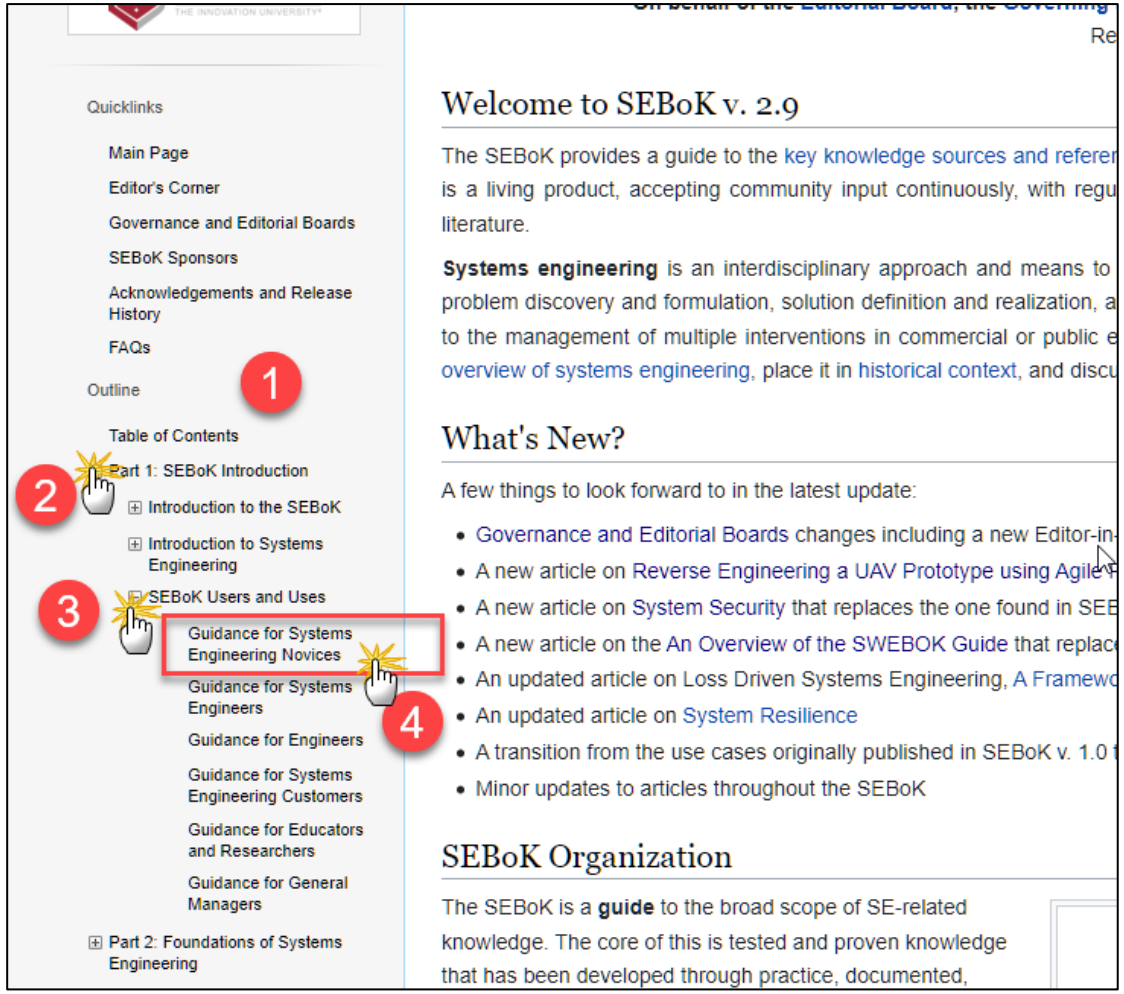
Search & Table of Contents

Some Use-Cases

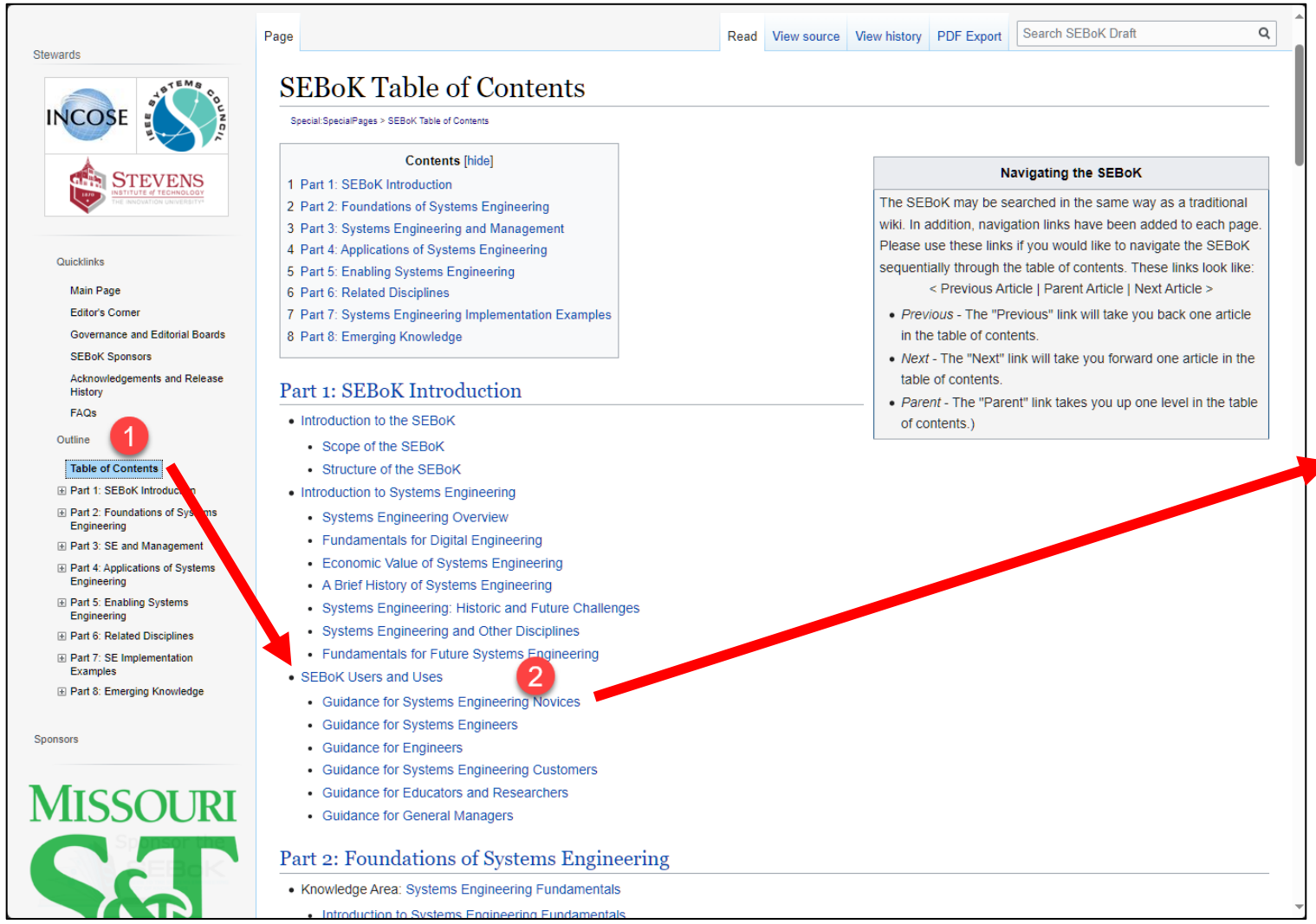
FAQ

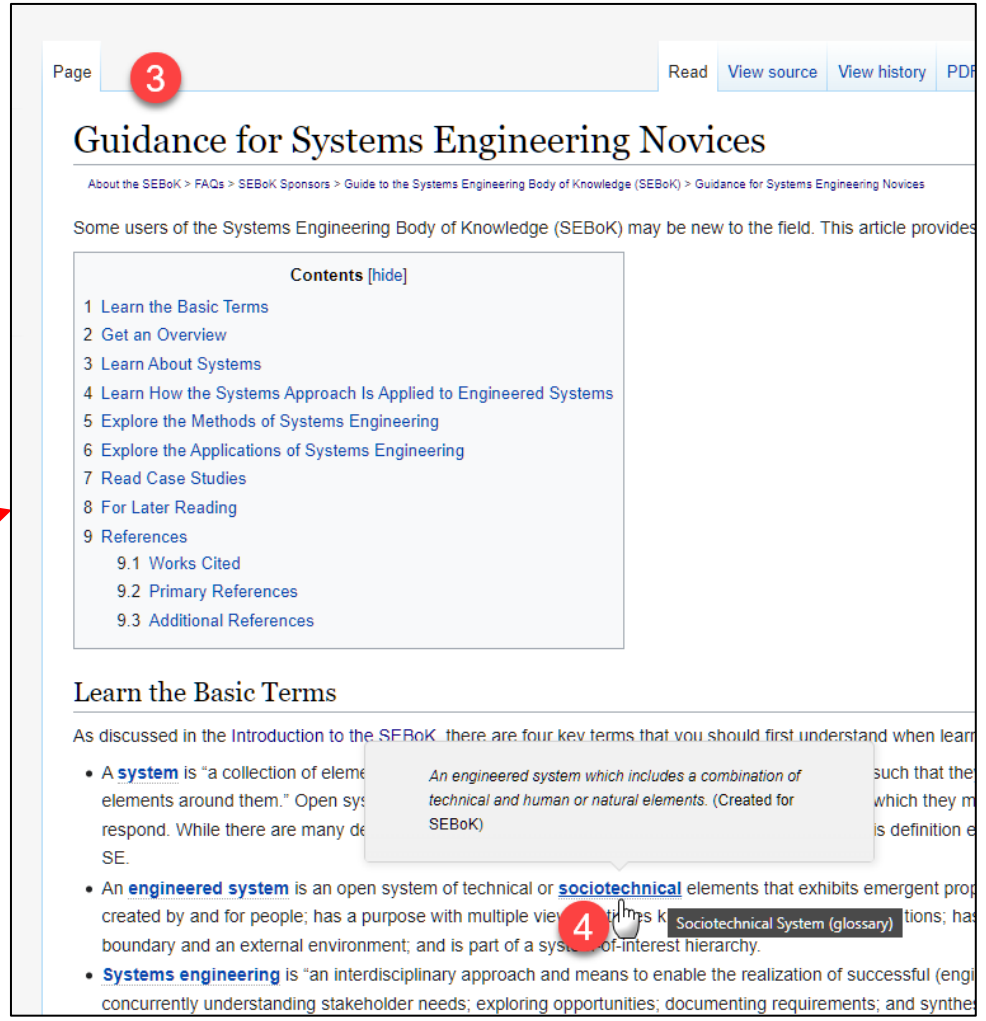
Search & Table of Contents





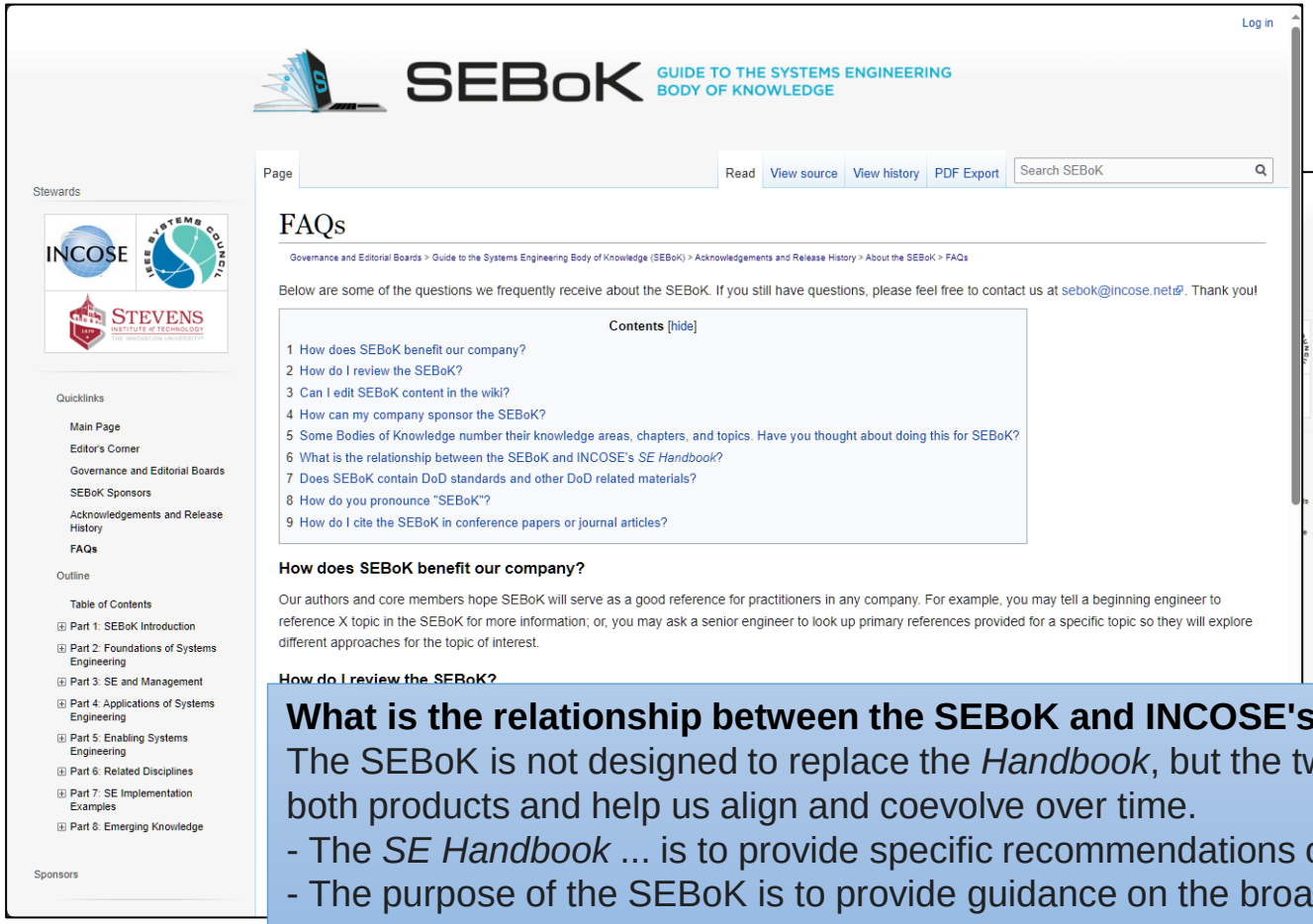
Some Use Cases



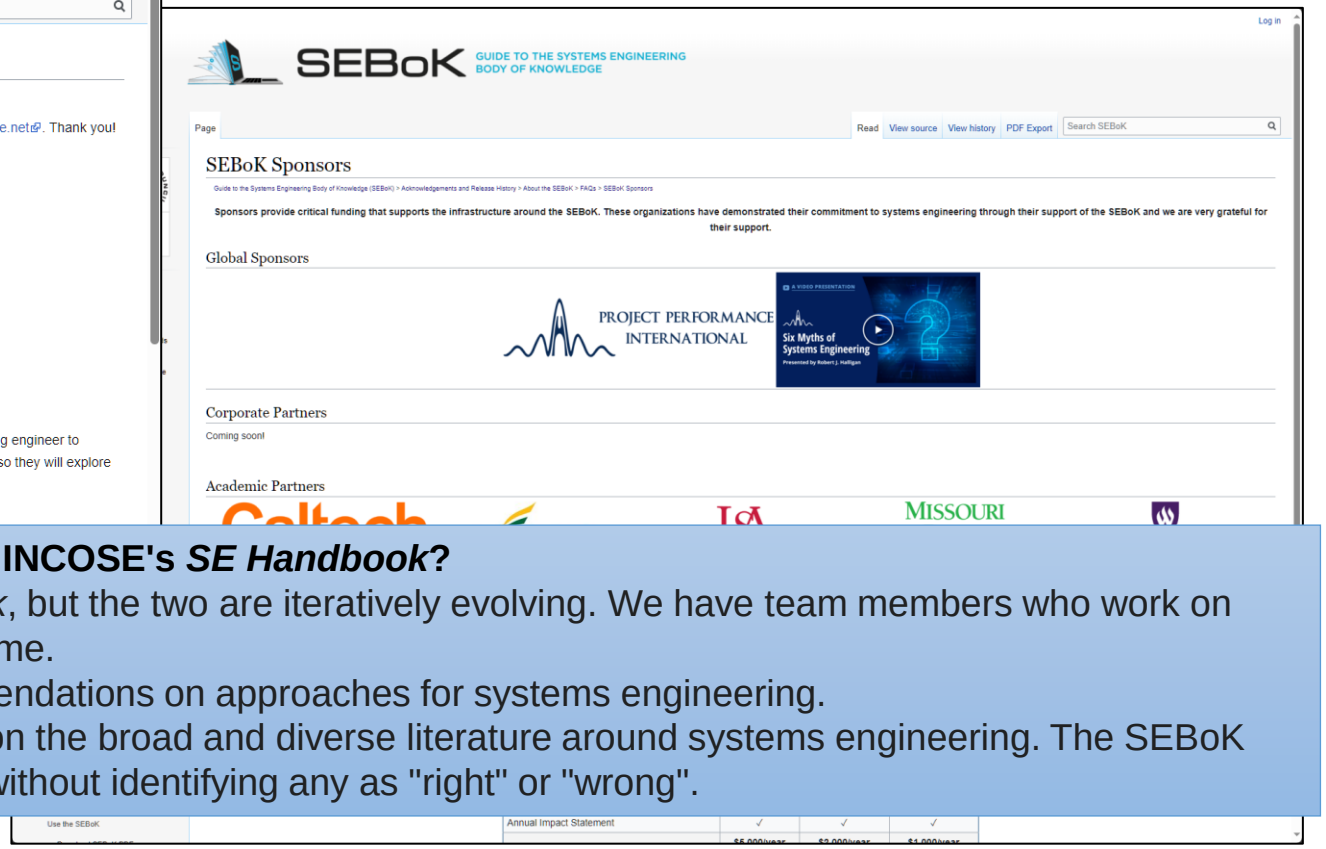


https://sebokwiki.org/wiki/SEBoK_Table_of_Contents

Frequently Asked Questions



https://sebokwiki.org/wiki/SEBoK_Sponsors



What is the relationship between the SEBoK and INCOSE's *SE Handbook*?
The SEBoK is not designed to replace the *Handbook*, but the two are iteratively evolving. We have team members who work on both products and help us align and coevolve over time.
- The *SE Handbook* ... is to provide specific recommendations on approaches for systems engineering.
- The purpose of the SEBoK is to provide guidance on the broad and diverse literature around systems engineering. The SEBoK may provide multiple perspectives and approaches without identifying any as "right" or "wrong".

https://sebokwiki.org/wiki/FAQs

Plans for 2025

Release schedule

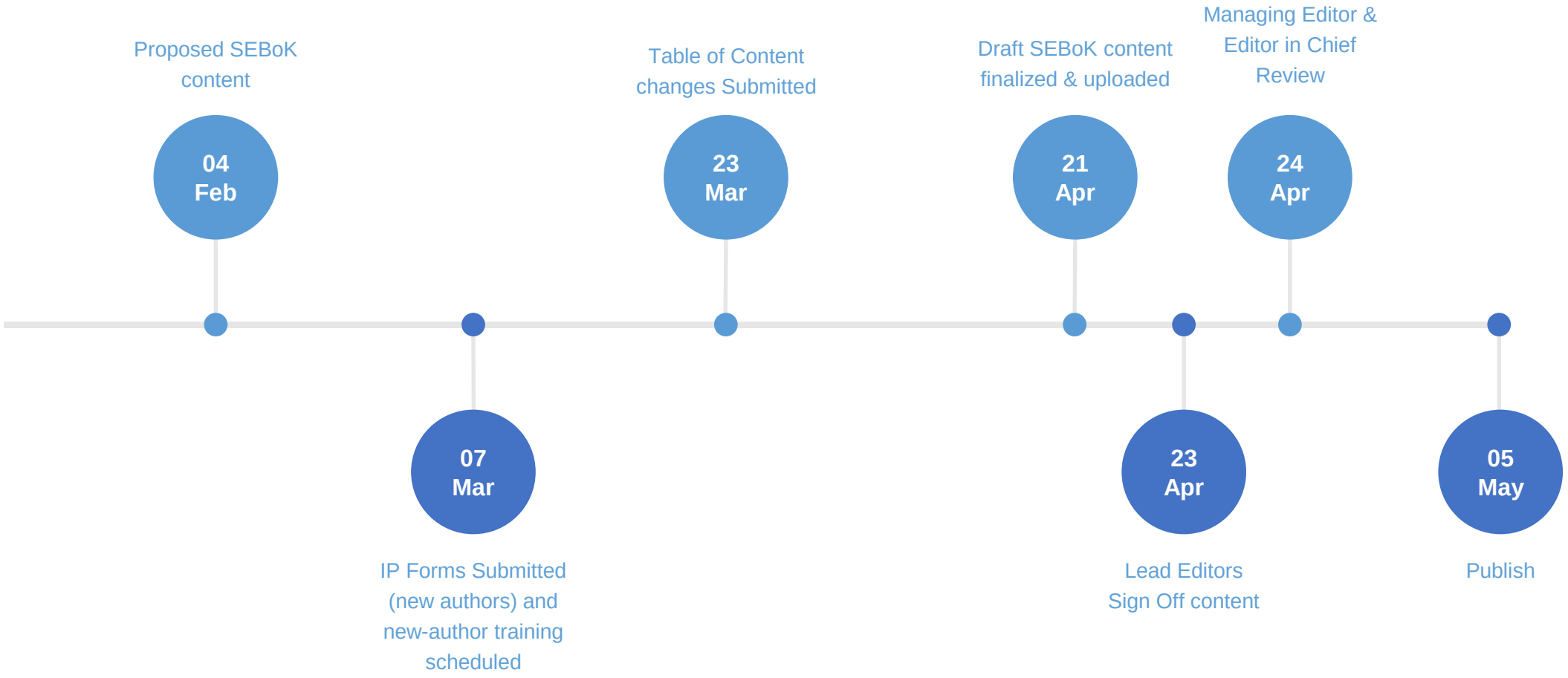
Content updates for next version

Questions, actions you will take, and feedback

2025 Release Timeline

Milestones for v 2.12 release (5 May 2025). Next release is in mid-November.

- Needs to be satisfied
- Source material available
- Committed Authors
- Engaged Editors



https://sebokwiki.org/wiki/Acknowledgements_and_Release_History

SEBoK v 2.12 - Updates

(Send proposals to sebok@incose.net)

Part	Part / Knowledge Area / Article	Proposed changes for v 2.12	Future changes
3	Configuration Management	Updates from Sandrine Gonthier and Adriana DeSouza (CMWG)	
3	Information Management	Updates from Sandrine Gonthier and Adriana DeSouza (CMWG)	
4	Mission Engineering	Update from Rhys Kissell triggered by Ali Raz paper? Maybe in Part 8?	
5	Part 5: Enabling Systems Engineering	Rename: "Building Systems Engineering Capability"	Terminology harmonization within Part 5, review figures.
5	Knowledge Area: Enabling Businesses and Enterprises	Rename: "KA: Systems Engineering Organizations"	Avoid overlapping with Part 4, improve cross-links.
5	Knowledge Area: Enabling Teams	Rename: "KA: Systems Engineering Teams"	
5	Knowledge Area: Enabling Individuals	Rename: "KA: Systems Engineering Practitioners/Systems Engineers"	
5	Roles and Competencies	Update to more fully address roles, add Helix, update NASA	
5	Assessing Individuals	Rename to "Assessing Competencies", add INCOSE SE Competency Framework	
5	Developing Individuals	Update and add some Helix career path insights for "Growing Systems Engineers"	
5	Ethical Behavior	Rename to "SE Ethics and Professional Conduct", update article.	
6	System Security	Updates from Mark Winstead	
7	Part 7: Systems Engineering Implementation Examples	Updates or additions from Mukul Marwah and Clif Baldwin?	
8	Artificial Intelligence	Figure 1 is missing.	
8	Systems Engineering guide to Large Language Models	New article	

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If you could change one thing about the SEBoK, what would it be?

Don't know yet - haven't used it

A chatGPT type navigation, with prompt engineering

In your opinion, what is the most important topic in systems engineering?

2 responses

graded approach

risks in ai use

Thank you!

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