



Please join us on the 5th INCOSE/GfSE Webinar

When

Wednesday, March 30th, 2022 from 11:00am-12:00pm EST
(4:00pm-5:00pm UTC, 5:00pm – 6:00pm CET)

Topic

**Lessons Learned of the introduction of
Systems Engineering**

Speaker

Daria Wilke
and
Lukas Bretz



Abstract

The product development of intelligent technical systems (ITS) is increasingly challenging due to rising complexity, interdisciplinarity and shorter development cycles. With Systems Engineering companies can overcome these challenges. Many companies have recognized the potential for Systems Engineering and are moving to embed it company-wide.

One question that arises again and again in introduction projects is: What is the ideal way to start a Systems Engineering introduction?

The research project SE4OWL, Systems Engineering for OWL¹, addresses this question. To find answers, the approach of qualitative research was chosen. In July and August 2021, an interview study took place. Fifteen Systems Engineering experts from all over Germany were interviewed. The experts come from the fields of research, consulting and industry and have many years of experience in Systems Engineering. In the interview, they reflected on Systems Engineering projects they had carried out. In particular, the topics of processes, roles, methods, and tools were addressed, as well as the topic of qualification.

In this webinar we will present our approach and provide insights into the results of the qualitative interview study:

- Which Lessons Learned on Systems Engineering implementation were increasingly mentioned in the interviews?
- Is it possible to make a recommendation on what to start with?
Or is a Systems Engineering implementation depending on certain factors?
- What were the learnings on already implemented implementation projects?
- This will be followed by a quantitative study.

Finding and propagating best practices for the introduction of Systems Engineering contributes to the **INCOSE Systems Engineering Vision 2035** by enabling an increasing growth of the Systems Engineering application within all domains. Increasing numbers of experts will in turn improve the available good practices, increasing the added value of Systems Engineering even further.

Take Away Message

If you are struggling with the introduction of Systems Engineering and are wondering how to proceed, you can learn the tips and tricks of Systems Engineering experts from Germany in our presentation. If you also have Systems Engineering experience, you can share it during the webinar and support our subsequent quantitative research survey. We are looking forward to your participation.

[1] Intelligent Technical Systems OstWestfalenLippe

Biography

Daria Wilke is project coordinator of the research project SE4OWL. Since 2019, she has been a research associate at the Fraunhofer Institute for Mechatronics Design IEM in Paderborn, where she is working towards her PhD in the subject area of Systems Engineering. During her dual studies, she worked in the field of virtual product development and dealt with various simulation methods. Since November 2021, she is the Vice President of the German Chapter of INCOSE.

Lukas Bretz is senior expert and business developer for Systems Engineering at the Fraunhofer Institute for Mechatronics Design IEM and supports the research project SE4OWL. Since 2014, he supports industrial partners from various industry sectors in projects to apply and introduce Systems Engineering and Model-Based Systems Engineering in their daily business. In 2021, he obtained his PhD for his thesis titled "Framework for the introduction of Systems Engineering and Model-Based Systems Engineering".

Please visit Fraunhofer Institute for Mechatronics Design IEM at:

<https://www.iem.fraunhofer.de/en.html>

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<https://www.incose.org/systems-engineering-certification/certification-faqs>

Regards,
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