

Is MBSE stuck in a niche?

How AI could
drive adoption!

Open Space
MBSE Summit 2025



Challenges in Product Development

Competition | Complexity | Compliance | Technology Evolution



Is MBSE the Solution? Can AI help?

Can AI Accelerate Product Development?

And what have we tried so far?

- SE Maturity
- Agil / Lean
- MBSE
- SysML v2
- DevOps for Hardware

**AI is not the solution, but it is
complementary**

The ChatGPT moment (2022)

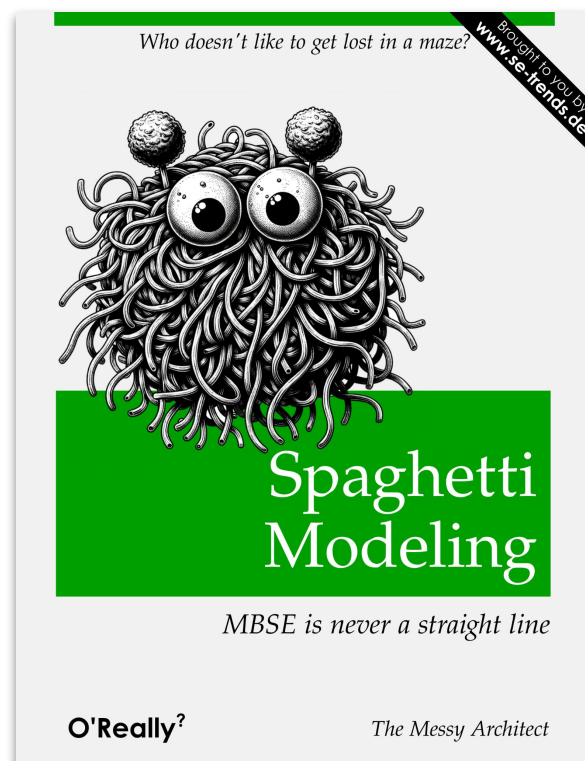
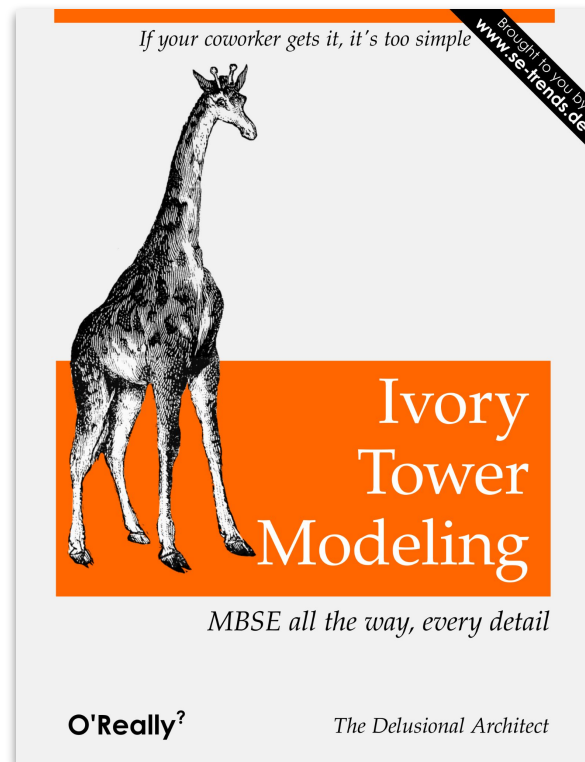
Before ChatGPT

- Structure instead of understanding
- Rules instead of Learning
- AI = Science fiction
- Processes dominate tools

ChatGPT changed our thinking

After ChatGPT

- Understanding instead of Structure
- Learning instead of rules
- AI = Standard
- Tools define processes



MBSE Challenges: Can AI help?

Problem	Cause	Consequence	AI
Cultural Resistance	Habits, fear of change	Low acceptance, low introduction	
Lack of MBSE Competency	Lack of training, lack of experience in team	Useless models	
Tool Challenges	Complicated MBSE tools; mediocre tool integration	Frustration, rejection, high effort	
Unclear ROI	Usefulness hard to measure	Hesitating management	
Lack of methods and standards	No consistent modeling rules or roles	Inconsistent models, reuse is tricky	

Tools: Can drive MBSE adoption with AI



- **AI Platform / Model**
e.g. Raiqon
- **Tool developed with AI in mind**
e.g. trace.space
- **Specialized use cases**
e.g. storywise

Modern Product Development Tools

Boost Productivity



Focus on Parameters



User-Centric MBSE



AI Requirements



SysML v2 Platform



Portfolio Solutions



Open Space Questions

I have to leave
before the closing
today

Reach out to me
at

se-trends.de

- Can AI unleash the potential of MBSE?
- If so, how?
- Is there already a product with this vision?

Dr. Michael Jastram

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