

AI4SE & SE4AI WORKSHOP

2026

📅 Sep 22-23, 2026 📍 Washington, DC

Artificial Intelligence in Systems Engineering Tools Panel

Panelists



Tom McDermott

Chief Technology
Officer - SERC

Stevens Institute of
Technology



Benjamin
Schumeg

Armaments Center
U.S. Army Combat
Capabilities
Development
Command



Daniel
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Senior Solutions
Architect
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Senior Advisor
Komposition Ltd Pty



Chris Helmerich

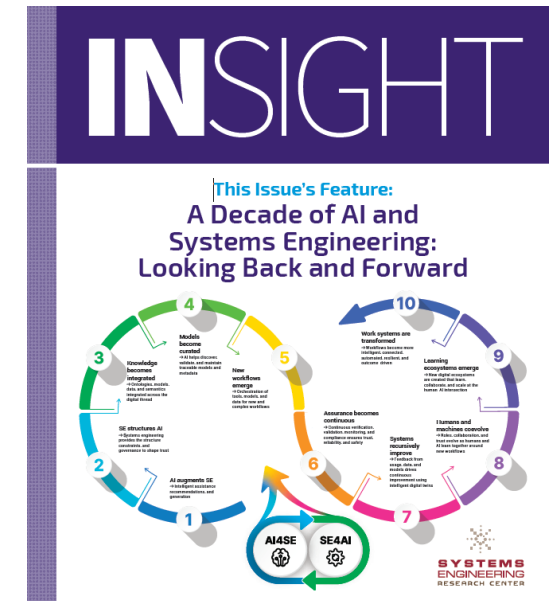
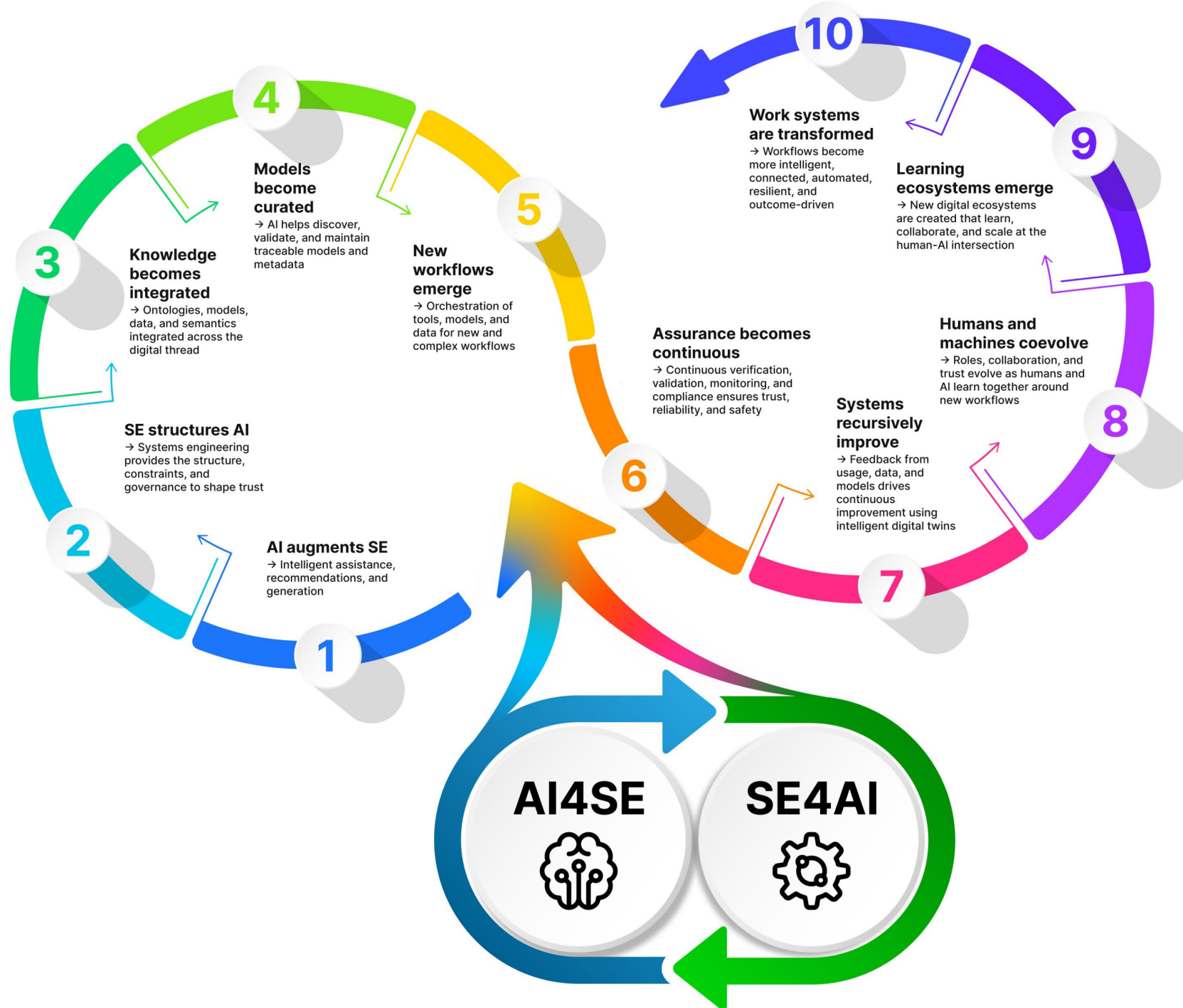
Chief Technology
Officer
Celedon Solutions



Sebastian Vökl

Chief Executive
Officer
Dalus, Inc

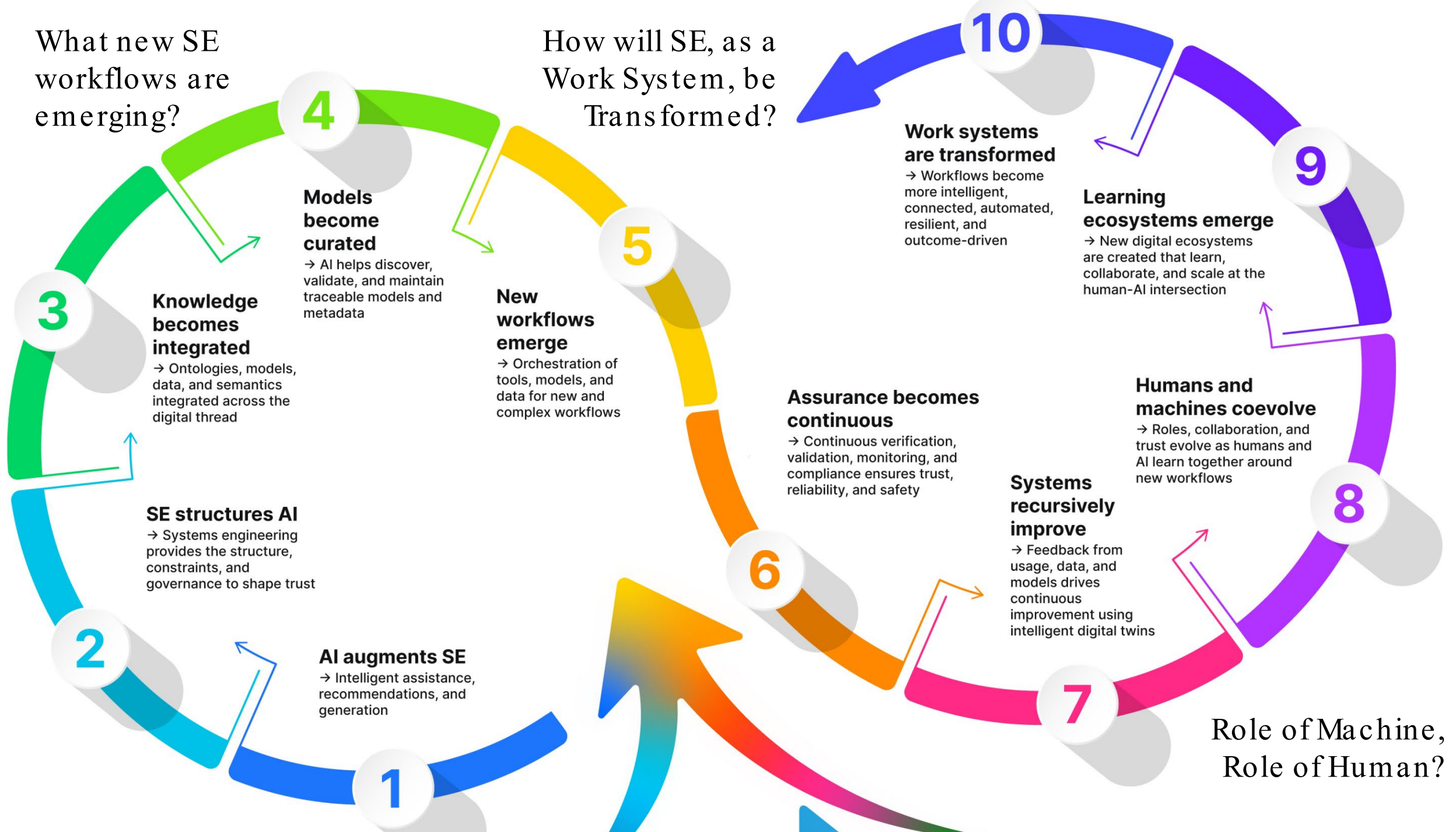
Moderator



<https://www.incose.org/resources-publications/technical-publications/insight-magazine/>



What new SE workflows are emerging?



Benjamin Schumeg



AI4SE & SE4AI

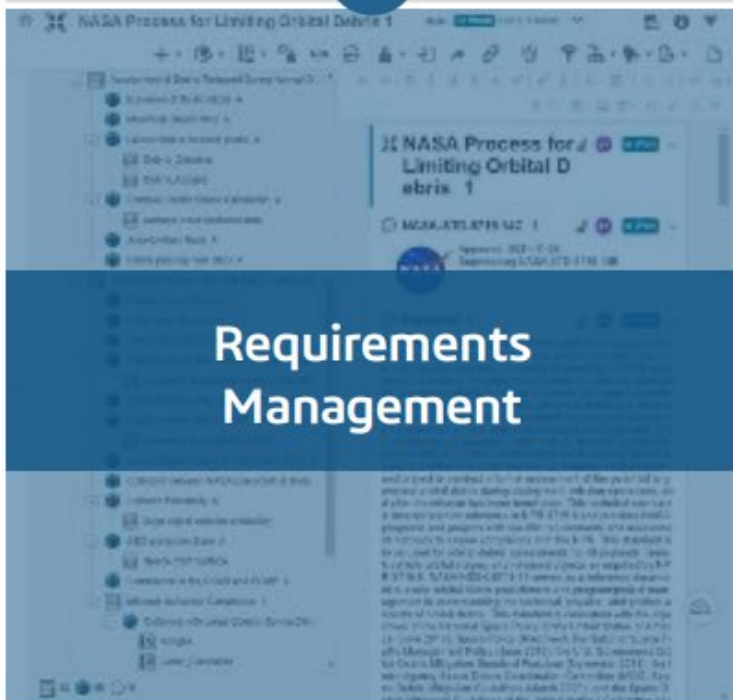
RESEARCH AND APPLICATION WORKSHOP

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GENERATIVE AI FOR CATIA SYSTEMS

1

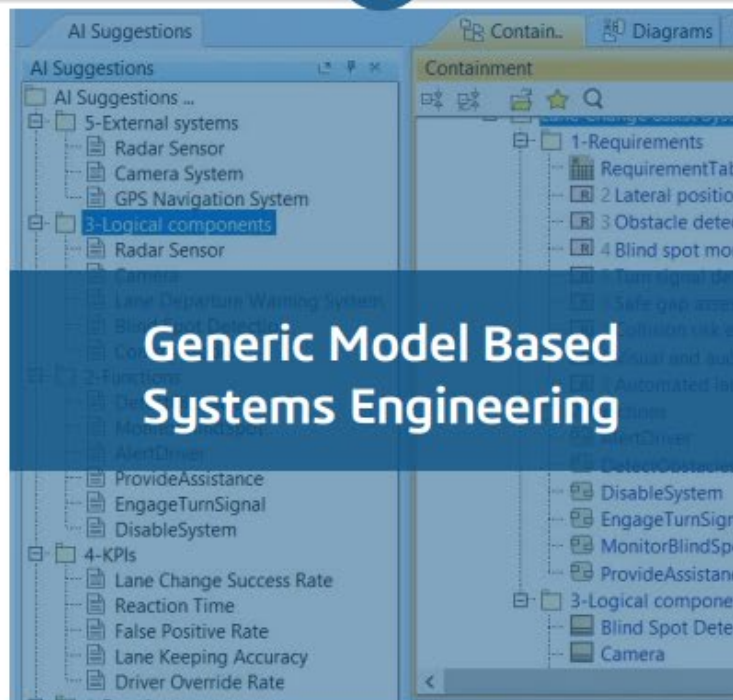


Requirements Management



AURA | Regulatory Compliance
R2026x FD02 (Controlled Availability)

2



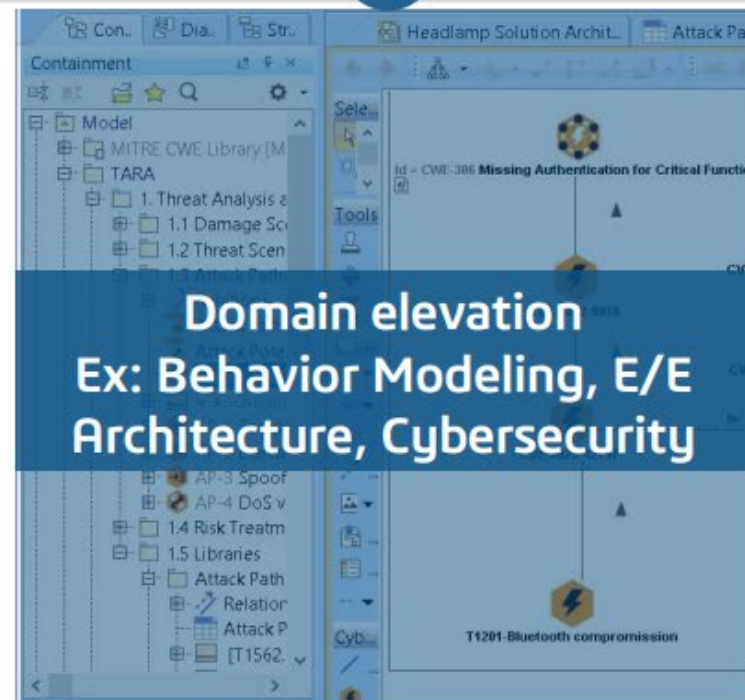
Generic Model Based Systems Engineering



LEO | Systems Architecture
R2026x FD03 (Controlled Availability)



3



Domain elevation
Ex: Behavior Modeling, E/E Architecture, Cybersecurity



LEO | Systems Behavior Engineering
R2026x FD03 (Controlled Availability)



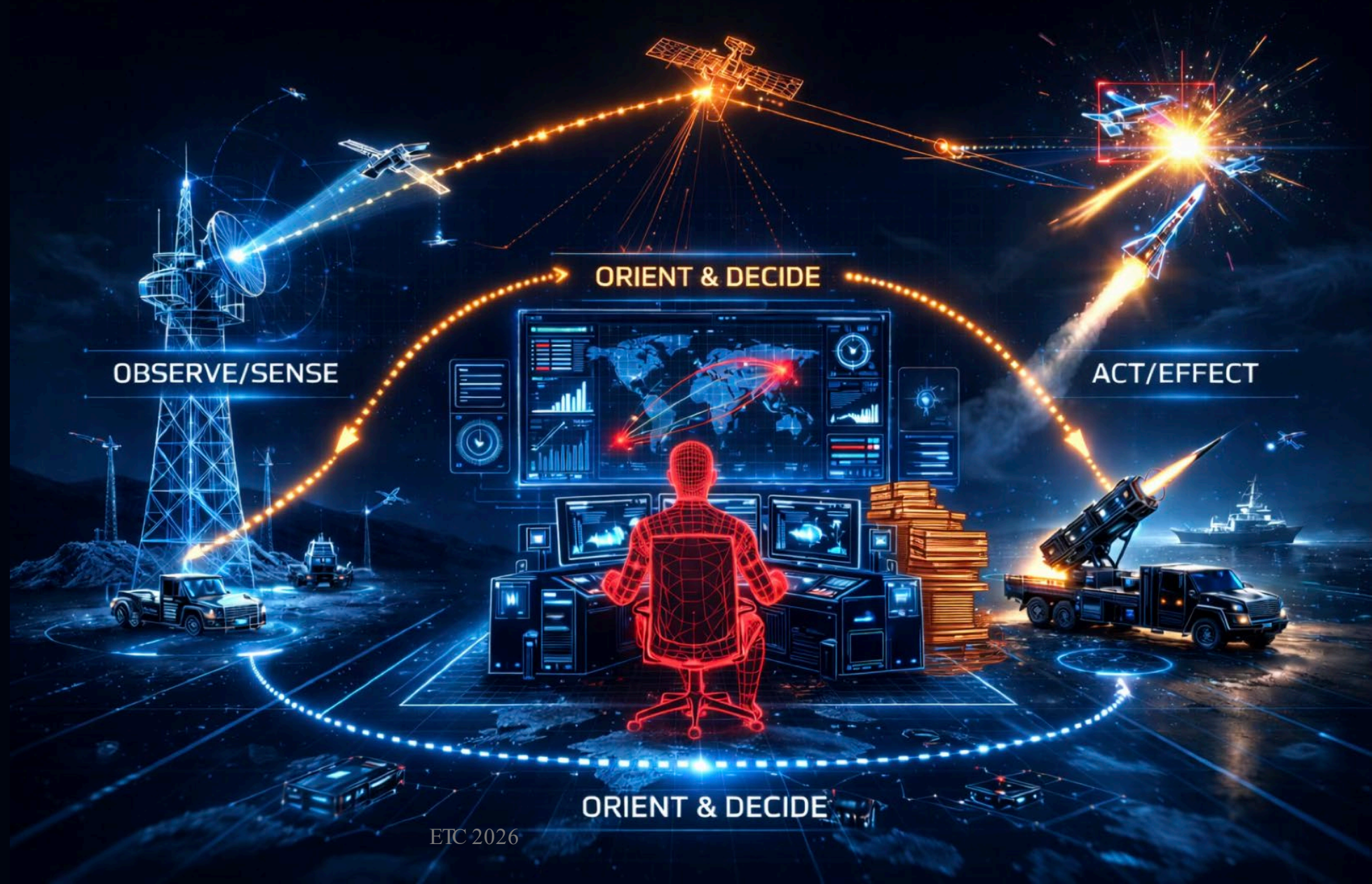
LEO | Electrical, Electronics and Software
Generative Architecture (planned)



LEO | Systems Safety & Cyber Security
Assessment (planned)



We are designing systems of systems at a scale where the components are human, organisational, abstract, or themselves complex systems of systems. Previous engineering methods, which worked when our understanding of components and their behaviour was scientific, are not effective at this scale.





The engineer describes intent. The model gets built or updated. The human stays the reviewer.

THE DALUS WORKFLOW

1 · Engineer

Describes the system or the change



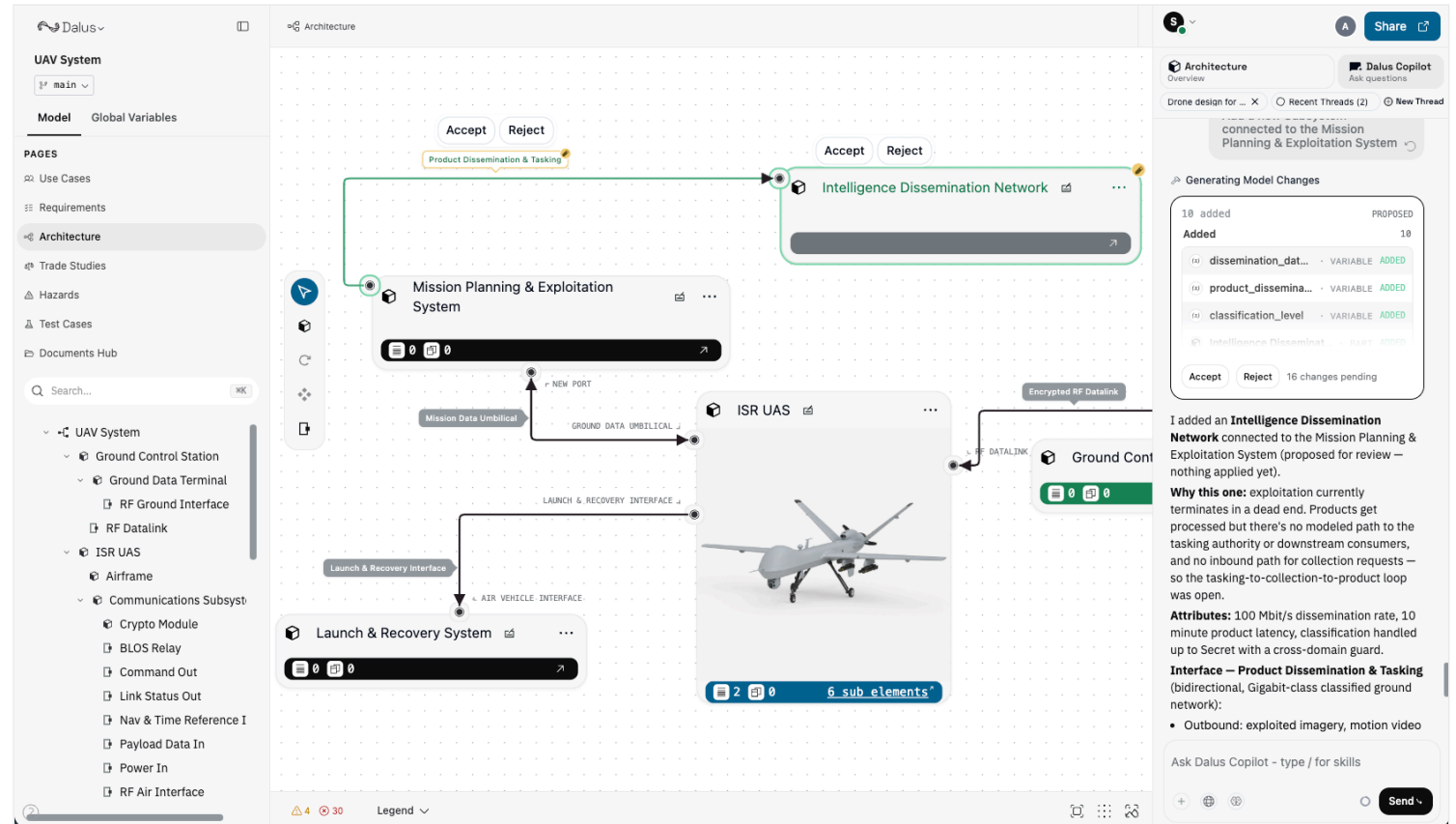
2 · Dalus

Generates or updates the model in SysMLv2, visualized in the Dalus UI



3 · Engineer

Reviews, corrects and decides



Sebastian Völkl, CEO, Dalus · dalus.io



Seed Questions

- How will AI accelerate systems engineering and the adoption of MBSE as an SE discipline?
- In the future, how will SEs and AI work in a Co-Evolutionary Model?
- What changes to our engineering infrastructure—models, digital threads, tool integration, and workflows—are necessary to make AI a trusted member of the engineering team rather than just another analysis tool?
- Five years from now, what engineering task will systems engineers be surprised they ever had to do manually? (What are they discovering today?)
- Most "AI for SE" today is a chatbot bolted onto a tool that was never designed to be read by a machine. What actually changes when the model itself is the thing the AI operates on?
- Engineers will not trust AI-generated requirements or architecture they cannot verify. How do we make AI output in SE checkable, not just plausible?
- Where does the Army feel AI in SE tooling can be most beneficial?
- What tooling exists to support the AI MLOps pipeline to better reflect the capability DevSecOps brings (e.g. rapid release of software updates to customers)?
- What changes when AI moves from drafting systems-engineering artifacts to executing engineering workflows across requirements, CAD, simulation, and verification?
- How do we prevent the same AI from writing the requirement, designing the system, and then creating a test that only confirms its own assumptions?