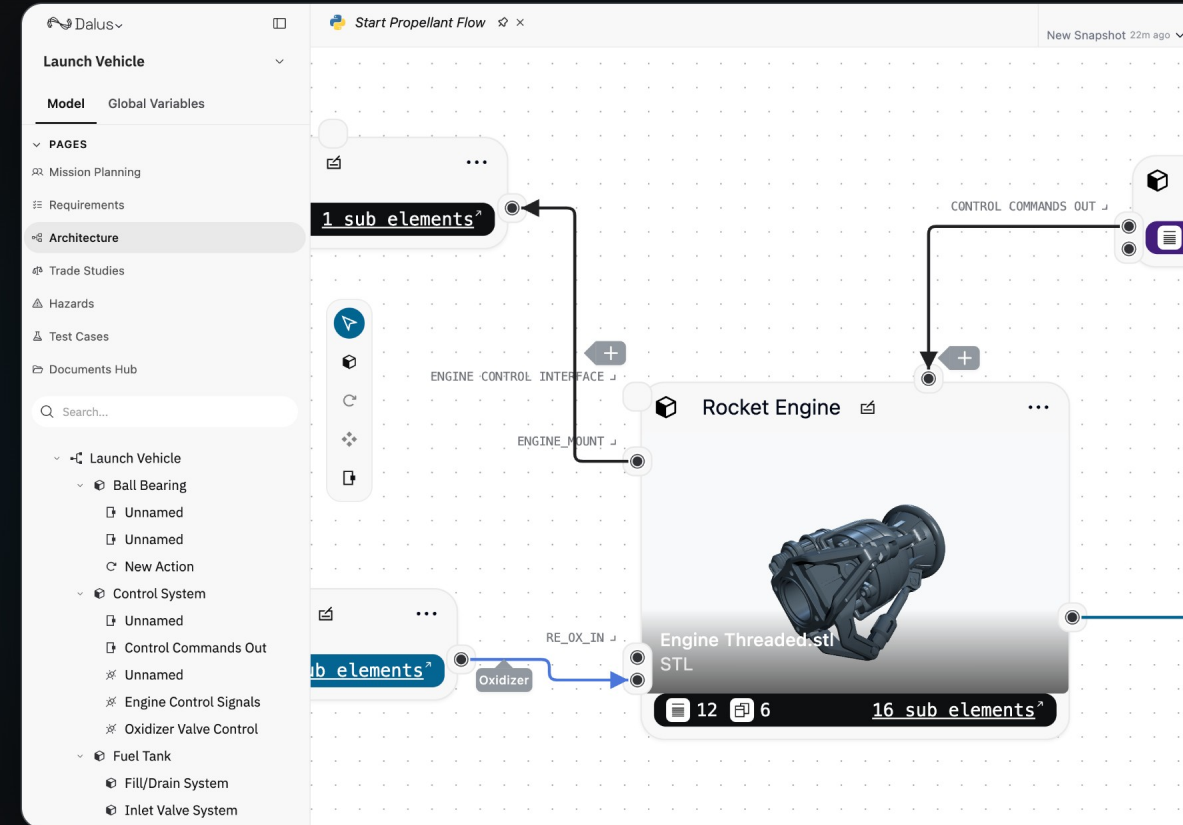


INCOSE SE LAB DEMO DAY · 7 OCTOBER 2026

The Self-Building Model

Live AI workflows for the next era of MBSE
in SysML v2



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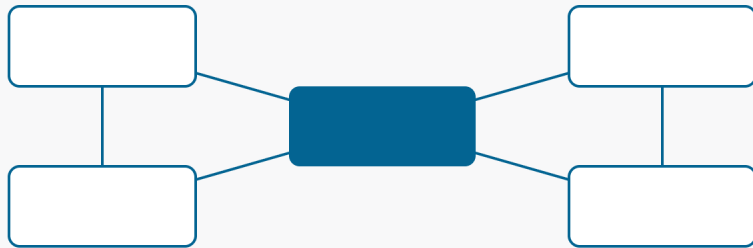
THE PROBLEM

For thirty years, the model was something you built by hand.

That cost, more than any doubt about the value of modeling, is why most hardware teams still ship from documents and spreadsheets.

MBSE as intended, and as practiced

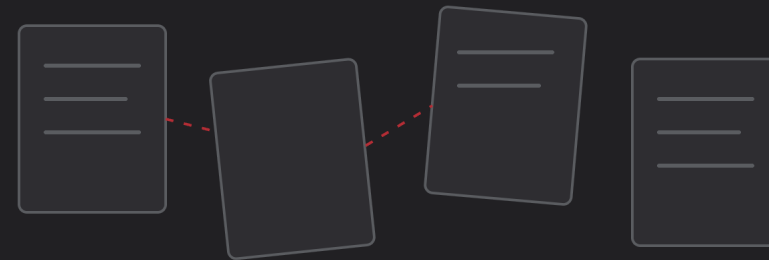
THE GAP



AS INTENDED

One authoritative model.

Requirements, architecture, hazards and verification linked in one place. Every review reads from it. A change shows its impact.



AS PRACTICED

A model a few specialists maintain.

Specs in Word, budgets in Excel, diagrams in slides. The model is redrawn before each milestone and drifts between them.

What changed

TWO SHIFTS, ONE RESULT



SysML v2

The model became text and an API.

A precise language a machine can read, write and query, not only draw.

+



Language models

AI can work inside that structure.

Draft elements, trace links, check consistency, answer questions about the model.

=



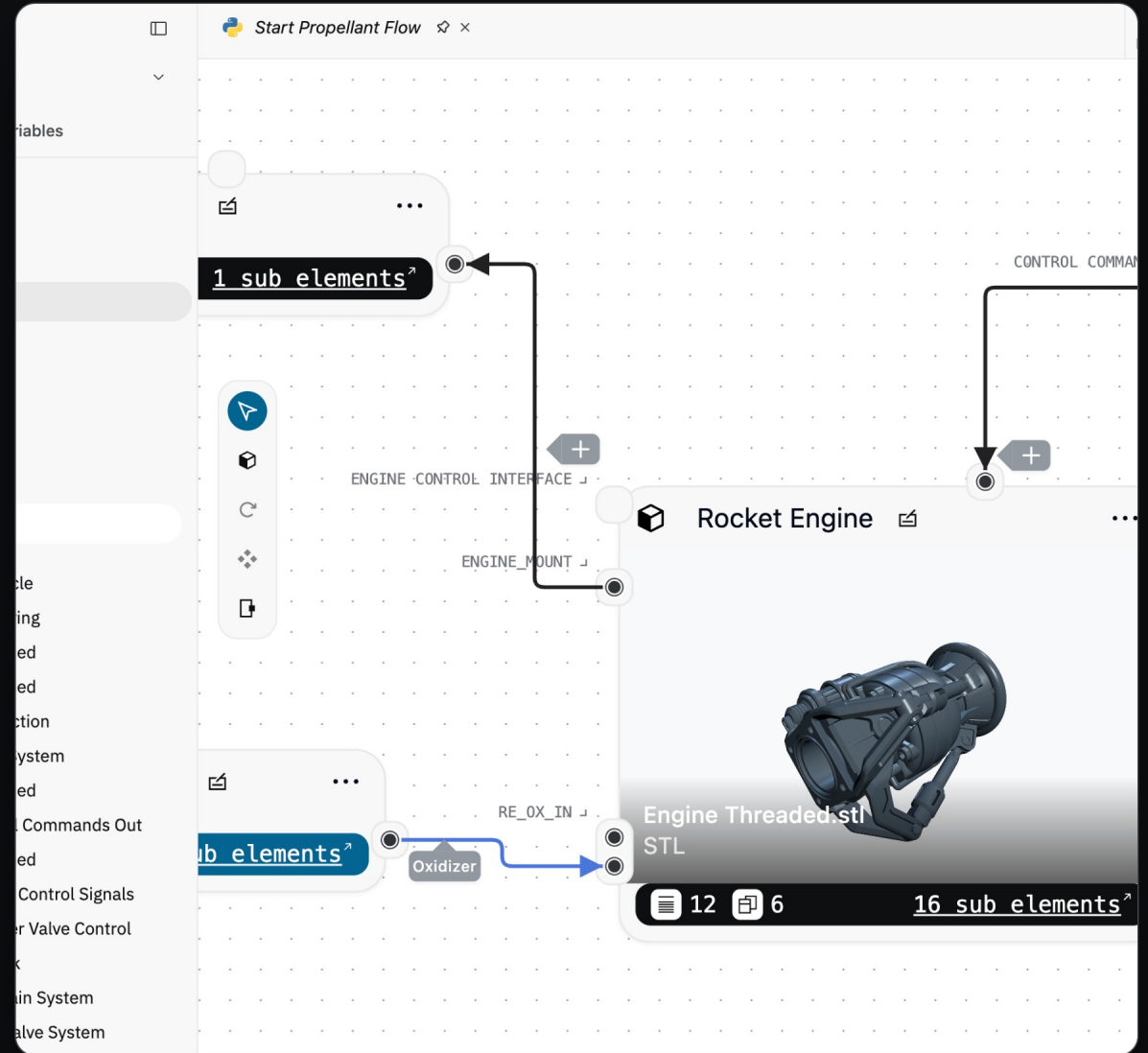
Result

The labor problem shrinks.

Building and maintaining the model stops being the bottleneck. Review becomes the job.



A SysML v2 workspace with an AI copilot built in.



Three things we bet had to change

OUR HYPOTHESES

01

Requirements live next to system design and analysis.

Not in a separate requirements tool, exported and reconciled at milestones. In the same model as the architecture, hazards and tests they trace to.

02

The software has to be easy to understand.

An intuitive UI a mechanical or electrical engineer can use on day one, without learning the notation first. If only the modeling team can open it, the model dies.

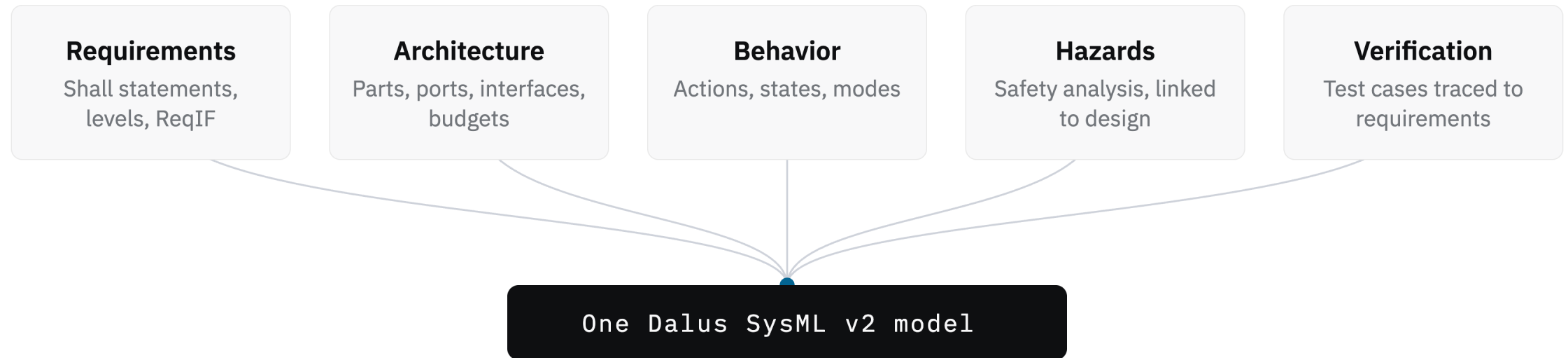
03

AI native, not AI added.

The model is structured so an AI can build, query and check it from the start. A chatbot bolted onto a desktop tool is not the same thing.

One model behind every view

THE PLATFORM



⚡ Copilot

Builds, edits and questions the model, with your team's own skills and rules.

🔒 Version control

Branches and merge requests. Main is protected, from the AI too.

🔗 Open connections

An MCP server, so Claude, ChatGPT or Cursor work on the model alongside Jira, Word and your CAD.

Your data stays where your program needs it

DEPLOYMENT



CLOUD

**Hosted, with data
residency**

US, EU and Australian regions.
Start in minutes.



GOV CLOUD

**For export-controlled
work**

AWS GovCloud for ITAR and
EAR programs.



ON-PREMISE

**In your own
environment**

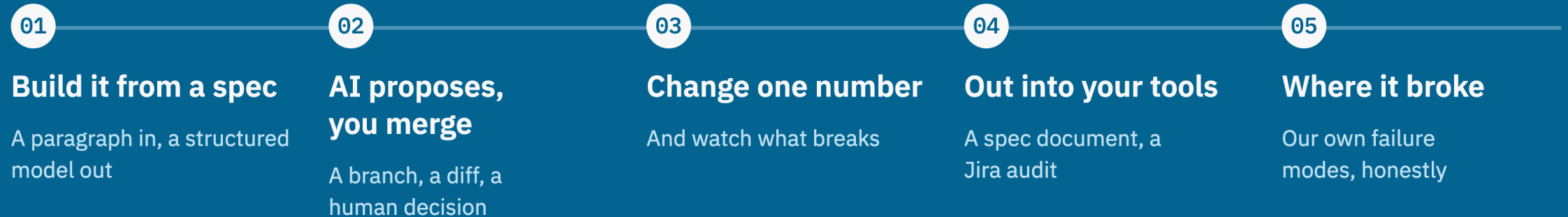
Deployed into your infrastructure.
Nothing leaves it.

SOC 2 Type 2

Used by teams in aerospace, defense, automotive and robotics.

THE NEXT 50 MINUTES

One system, chosen by you, built live.



Then what we learned deploying with aerospace, defense and automotive teams, and your questions.

YOUR TURN

Name a system you work on.

Drop it in the chat. One sentence is enough:
what it is and one thing it has to do.

a cubesat ADCS

an EV battery pack

a hospital infusion pump

