

Designing AI-Enabled Organisations

Design the non-negotiables before
you build the solution.

DESIGN DECISION #1

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Over the last few months, Siemens has continued to expand the capabilities of its Eigen Engineering Agent, including the ability to generate **standards-compliant** engineering projects.

That caught my attention for one reason.

The AI can only produce standards-compliant work because someone first defined what “good” looks like.

The first design decision isn't which model to use.
Or which platform to buy.
It's something much simpler.

What must this solution never get wrong?

Most organisations already have principles.

They already have standards.

They already have governance.

The question isn't whether they exist.

The question is whether they're **design inputs** or **design checks**.

There's a big difference.

A DESIGN CHECK ASKS

“Did the solution meet our standards?”

A DESIGN INPUT ASKS

“How do we design the solution so those standards shape every decision it makes?”

Think about a maintenance planning solution in mining.

Before anyone writes a line of code, I'd want to know:

- 01 Which engineering standards must every recommendation comply with?
- 02 Which recommendations should always require an engineer's judgement?
- 03 When should the system stop and escalate rather than guess?
- 04 What evidence should every recommendation automatically produce?
- 05 How will we know it's improving maintenance performance?

None of those are technical questions.

They're design decisions.

Answer them before the build starts and the technology has a much stronger foundation to succeed.

Leave them until afterwards and people end up compensating with more reviews, more approvals and more manual checking.

Review doesn't scale.
Design does.

A DIFFERENT WAY TO THINK ABOUT IT

Good AI solutions aren't defined by what they can do. They're defined by what they were **designed** to do.