



AI ENGINEERING SYSTEM FOR REGULATED HARDWARE

Build hardware at software speed.

Koddex helps engineering teams cut time to market for complex hardware in regulated industries, with specialized AI agents that work alongside them.

The screenshot displays the Koddex software interface. On the left, a sidebar shows a project hierarchy: 'Novae Systems' > 'Cabin Seating' > 'Seat platforms' > 'Vela Business Platform' > 'Vela Nova Business'. The main area shows the 'Vela Nova Business' project details, including a table of components and their weights.

Name	Supplier	#	Unit weight	Status	Mass share
Seat frame Vela	Aeroframe		34.50 kg	Released	69.2 %
Seat Cushion Set	Comfortex		2.22 kg	In review	4.5 %
Armrest assembly	Aeroframe		4.10 kg	Released	8.2 %
Tray table	Tablo		3.05 kg	Released	6.1 %
Headrest	Comfortex		2.40 kg	Released	4.8 %
IFE bracket	Skylink		2.75 kg	Released	5.5 %
Literature pocket	Tablo		0.85 kg	Released	1.7 %
weight_actual_kg = Σ components			49.87 kg	target 48.50 kg	-2.82 %

THE PROBLEM

In regulated industries, the time to market of a complex product is measured in years.

It has to be designed, documented and proven compliant. Three things slow down every step.

01

Data leaking

Between teams and partners, data travels as exports and attachments. Nobody knows which version is the right one.

02

Iterations that take months

Every change goes through meetings and spreadsheets before anyone knows what it affects.

03

Tools out of sync

One change, and the CAD, the PLM, the ERP and the spreadsheets no longer say the same thing.

OUR ANSWER

Design, document and prove compliance on a fully traced source of truth, with AI agents in the team.

Design

The BOM, requirements, architecture and tests in one model, changed by the whole team at the same time.

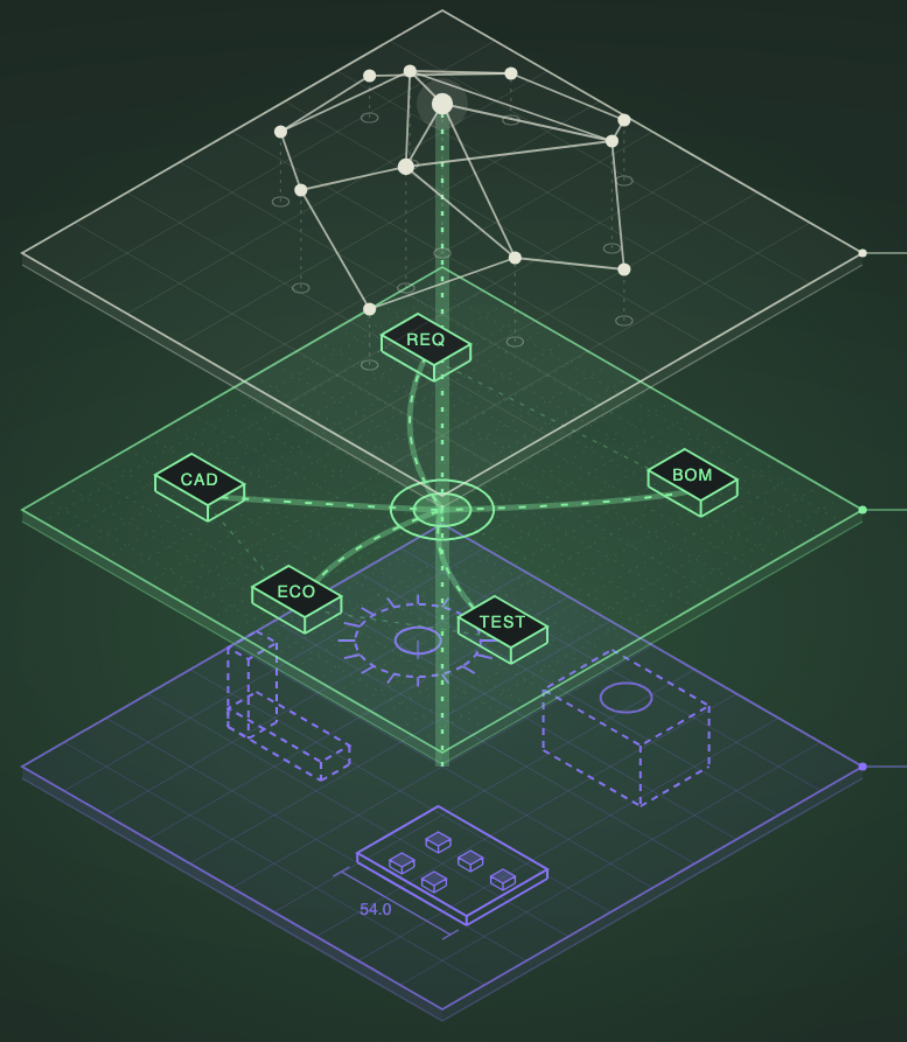
Document

Every piece of data and every decision is versioned: the documentation builds up while you design.

Prove compliance

Requirements, evidence and baselines are linked: the audit file is ready at any time.

The way developers already work with code: **the agent executes, the engineer validates**, and the structure keeps every action traced and within bounds.



THE TECHNOLOGY

Koddex Forge, where engineers and agents work together.

Millions of linked data points

Requirements, parts, tests and documents linked, at the scale of a whole programme.

Granular access, full traceability

Permissions on every item. Every change keeps its author, person or agent.

Your own data model

You model your product and your processes, without development.

I build my BOM

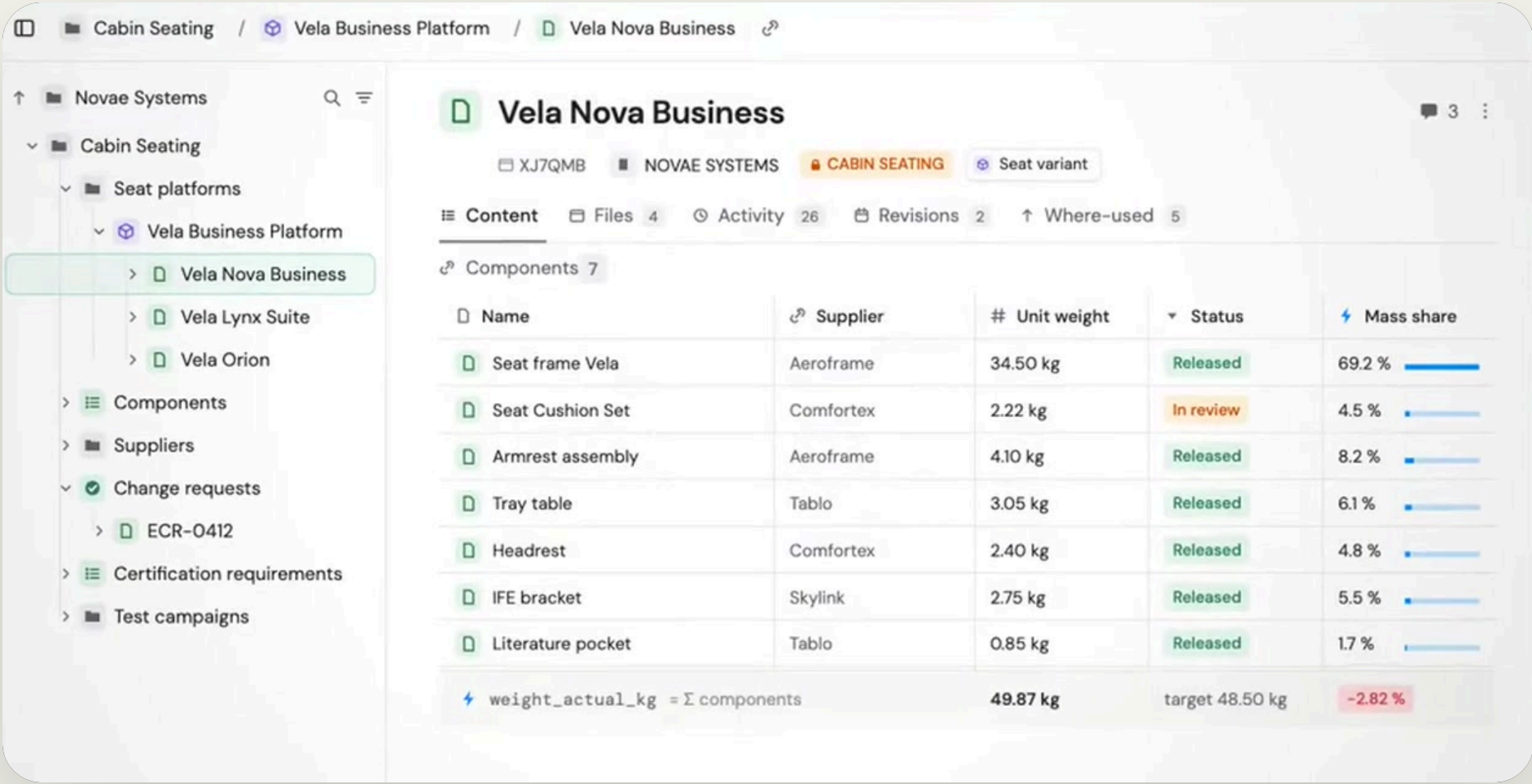
BEFORE

~~2 to 3 days in Excel to assemble a complex product structure~~

WITH KODDEX

15 min. A living product tree, with mass and cost computed automatically.

Reference-customer figure



I see the impact of every change, live

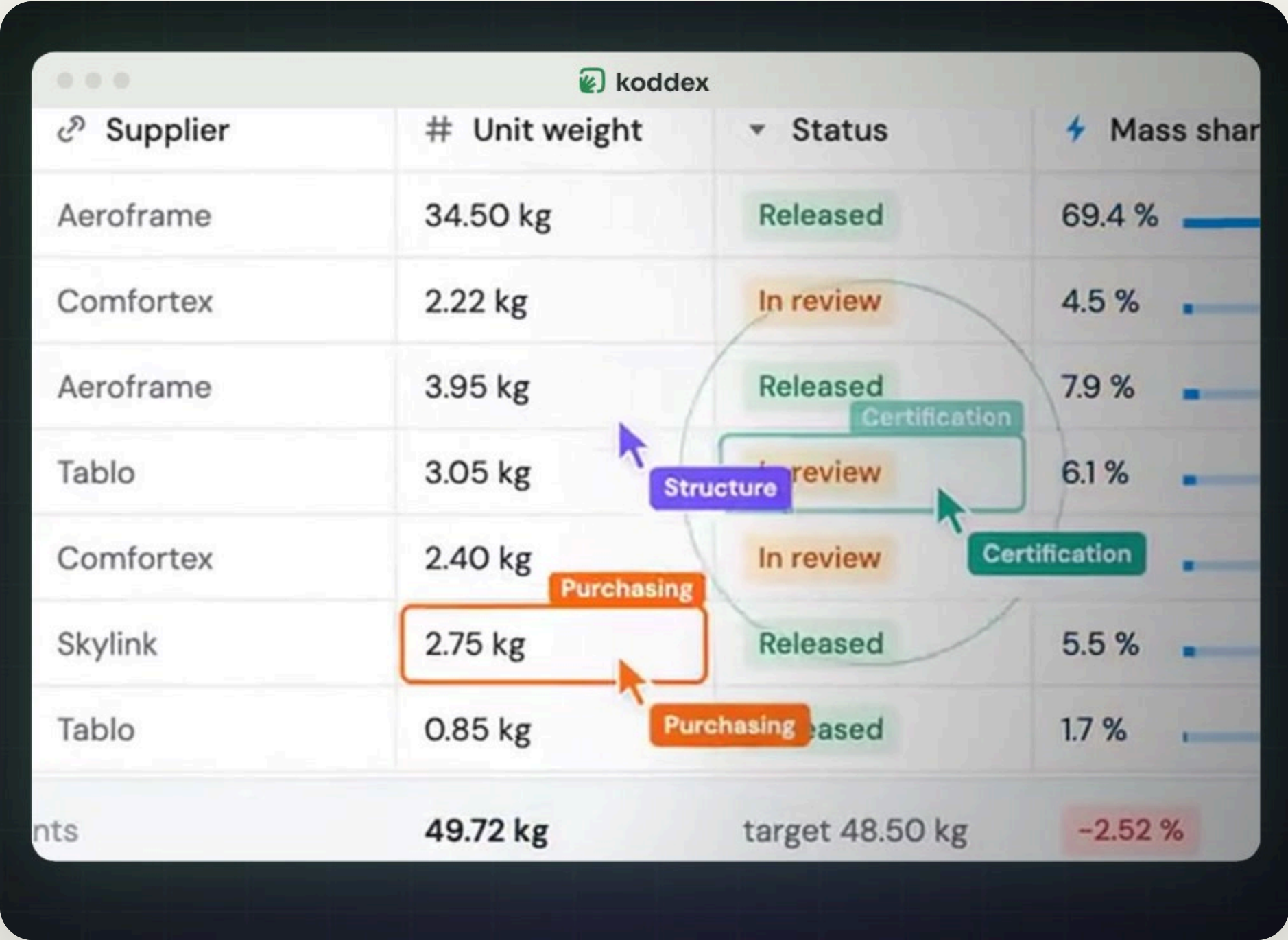
BEFORE

~~2 weeks of meetings and spreadsheets~~

WITH KODDEX

1 day. Design, certification and purchasing work together, and the whole team sees what a change affects.

Reference-customer figure



I approve, revise and trace

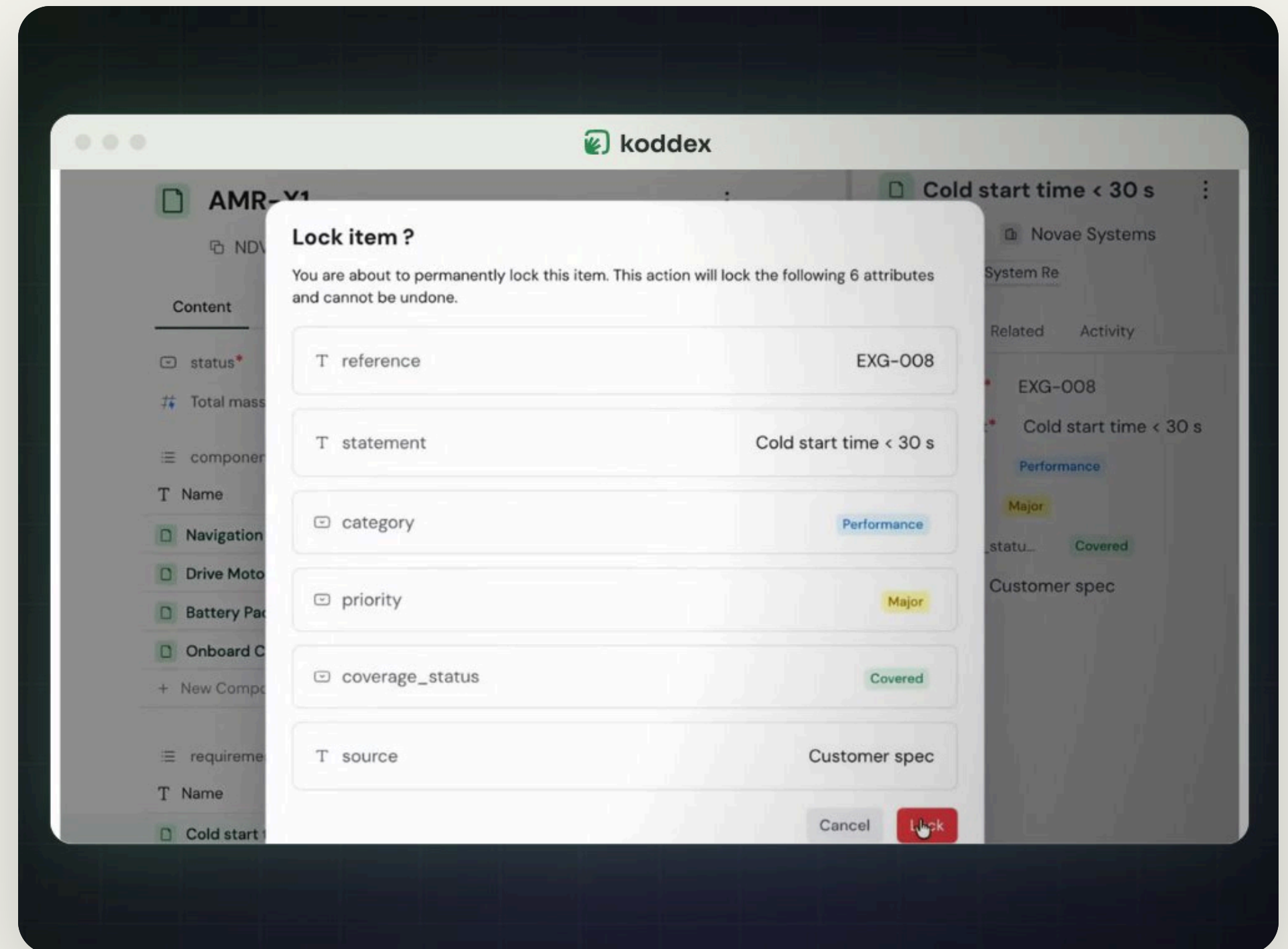
BEFORE

~~45 min to find the right information across many tools~~

WITH KODDEX

10 s. Requirements and certifications linked, baselines locked, every revision kept.

Reference-customer figure



04 / 06 · SPEED UP

I hand repetitive tasks to AI agents

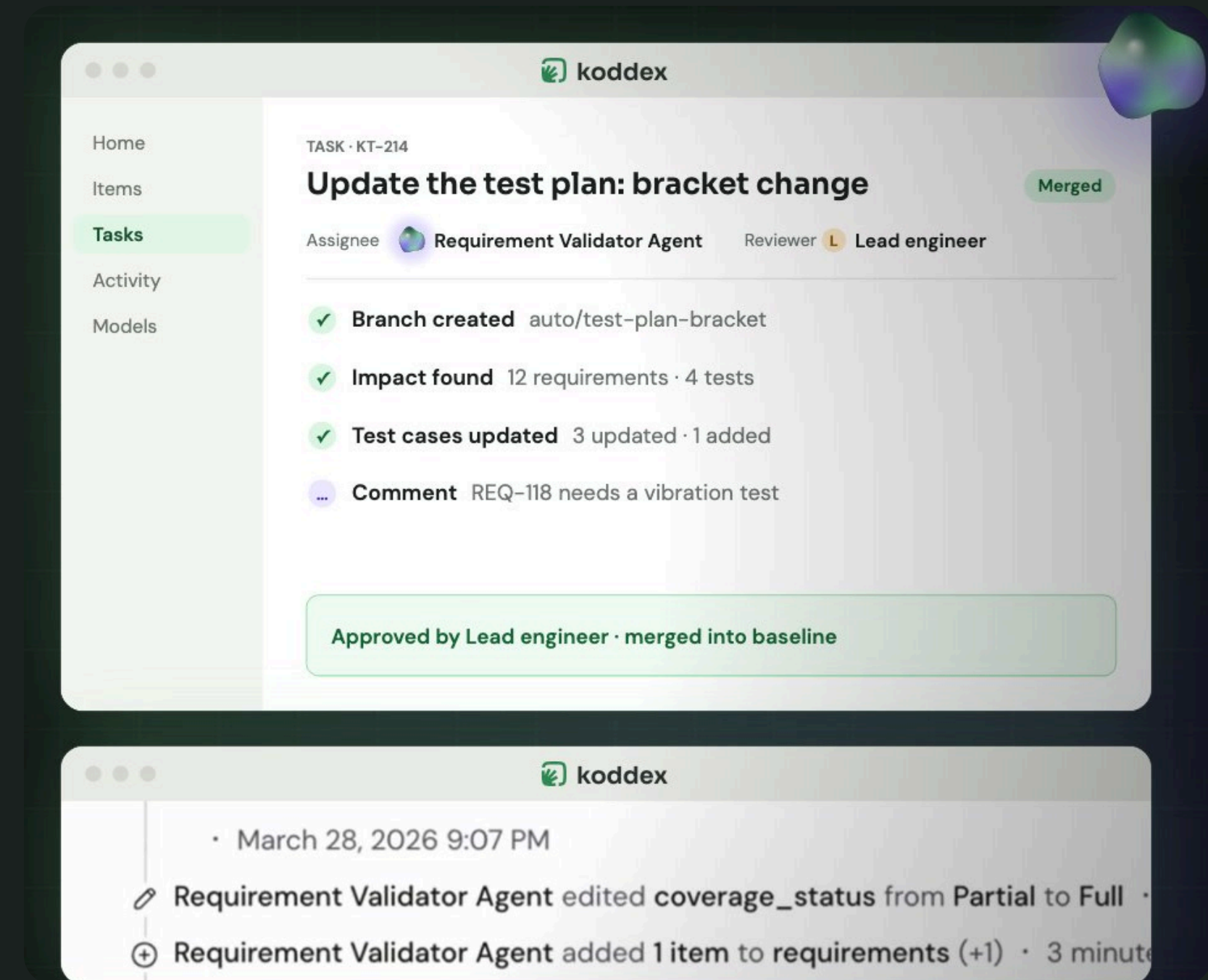
BEFORE

~~Hours spent tracing links, checking coverage and updating test plans~~

WITH KODDEX

-50% time on those tasks. The agent executes, the engineer validates, every action is traced.

Observed on guided deployments



Simulated example, in the Koddex interface

05 / 06 · ITERATE

I run my V-model up to 4x faster

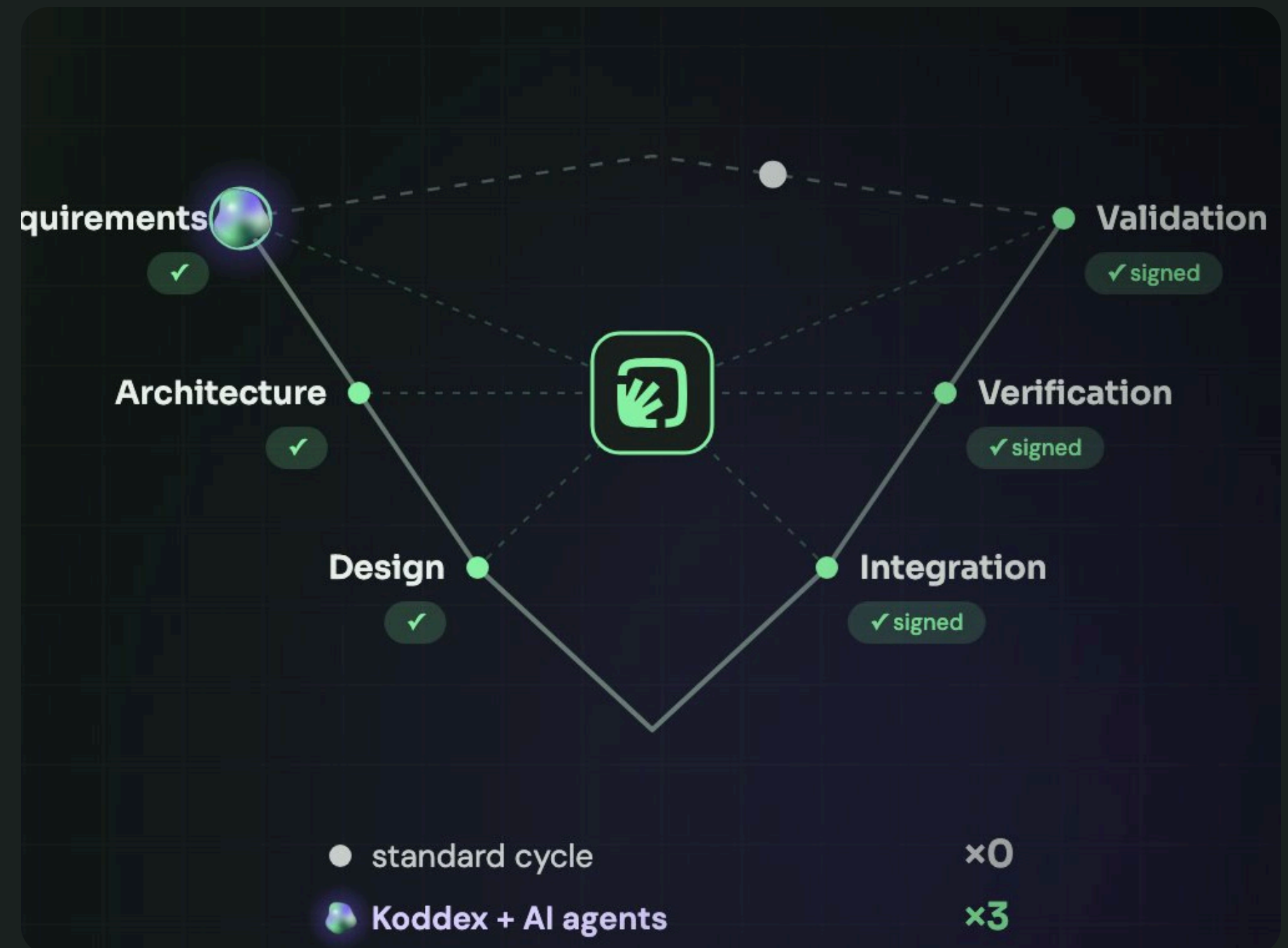
BEFORE

~~A V cycle counted in months~~

WITH KODDEX

Requirements, design, integration and validation on one model. I focus on what I do best.

Observed on guided deployments



06 / 06 · SHARE

I share the data, without leaks

BEFORE

~~Exports passed around by email~~

WITH KODDEX

Quality, project managers, product, integrators and suppliers: each one sees their scope, nothing more.

Koddex works alongside your CAD, PLM and ERP: it connects to them through its API during integration, so nothing is typed twice.



BEFORE AND WITH KODDEX

Orders of magnitude measured at our reference customer.

Task	Before	With Koddex
Assemble a complex product structure	2 to 3 days in Excel	15 min
Find the right information	45 min across many tools	10 s
Analyse the impact of a change	2 weeks of meetings and spreadsheets	1 day
Engineering time on the product	Lost to administration	+30%

Measured at our reference customer after a year in use. Your first use case measures them on your own perimeter.

INDUSTRIES

One source of truth for every regulated industry.



Space

ECSS-E-ST-10C, ECSS-E-ST-10-O2C, PDR and CDR reviews



Aeronautics and defense

ARP4754A, DO-178C, DO-254, EN 9100



Robotics

ISO 13849, generations, variants, installed fleet



Advanced manufacturing

EBOM, MBOM, ECO, ISO 9001



Automotive

ISO 26262, ASPICE, platforms and variants

Also: medical devices (ISO 13485, EU MDR), nuclear energy, renewable energy.

THEY DESIGN IN KODDEX

Exotec designs its warehouse robotics systems in Koddex.

Its requirements moved from PDFs into one engineering knowledge base, shared with its partner organisations.

1,000+

users in Koddex

1

source of truth for
product data

20

partner organisations in
the model

WHAT YOUR TEAMS GAIN

–30%

up to 30% shorter time to market

–50%

time on repetitive engineering tasks

Observed on guided deployments, not an audited average. We walk through the calculation on your perimeter during the demo.

ROLLOUT

A 20-min demo. Your first use case live in 1 month.

1

Demo

20 min on a use case close to yours.

2

Workshop

Your data model, shaped around your product.

3

Import

BOM, requirements, permissions and roles set up.

4

Live

First use case live in 1 month, first baseline locked.

5

Scale

AI agents, external sharing, integrations.

Onboarding is hands-on and close to your team: we work beside your engineers, with a dedicated CSM for the first three months.



Build hardware **at** **software speed.**

Next step: a 20-minute demo on a use case from your product,
with any of your team members who want to join.

BOOK A DEMO

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Book a demo →