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# From prompt to process: AI-powered BPMN workflow generation with Cardanit

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# Agenda

- Introduction to **Cardanit**
- Process Modeling
- Process Improvement
- Why engineers need **Cardanit**
- AI-assisted modeling workflow - (R&D)
- AI demo

# Introduction to Cardanit

Process modeling and simulation - in one cloud workspace

## What is Cardanit?

Cardanit is a web-based SaaS solution built on the **BPMN 2.0** and **BPSim** standards.

It combines intuitive process modeling and simulation in a single cloud workspace - no plugins, no install, no context-switching.

## **BPMN 2.0 + DMN**

Industry-standard notation.  
Precise, readable, interoperable.

## **BPSim Simulation**

Test scenarios & forecast outcomes before going live.

## **Cloud**

Browser-based. Real-time collaboration. **No installation.**

## **ESTECO DNA**

Built by engineers, for engineers.  
Backed by optimization expertise.

# Process Modeling

Making the invisible visible.

Engineering teams have processes - they just live in people's heads, not on paper.

## Visual modeling

- ▶ **Drag-and-drop** BPMN 2.0 editor
- ▶ Auto-layout keeps complex diagrams readable
- ▶ Model tasks, data flows, gateways & events
- ▶ DMN support for decision logic integration

## Collaboration & Governance

- ▶ Real-time, browser-based team collaboration
- ▶ Version control - track every change
- ▶ Export to PDF, XML for stakeholder sharing
- ▶ Contributes to BPMN interoperability standards

## For Engineers Specifically

- ▶ Map simulation pipelines (CFD, FEM, MDO workflows)
- ▶ Model multi-team, multi-tool handoffs with precision
- ▶ **BPMN**: precise enough for engineers, clear for managers
- ▶ Shared notation bridges technical & strategic levels

# Process improvement

Test before you transform

## Model



Map workflows  
with BPMN 2.0

### Reduce bottlenecks

Identify where time and  
cost pile up — before  
they hit production.

## Parameterize



Set time, cost &  
resource data (BPSim)

### Compare alternatives

Run multiple scenario  
variants; choose the  
best-performing option.

## Simulate



Run scenarios;  
spot bottlenecks

### Lower risk

Validate changes in  
simulation before  
disrupting live workflows.

## Optimize



Compare alternatives;  
validate improvements

### Data-driven decision

Engineers love data —  
give them process  
performance metrics.

# Why engineers need this

BPMN turns tribal knowledge into traceable, optimizable systems

*"Everyone on the team knows the process — but nobody has ever written it down.  
The process exists only in people's heads."*

01

## Repeatability

Same process, every time — regardless of who runs it.

02

## Faster Onboarding

New engineers understand workflows immediately from the diagram.

03

## Cross-team Clarity

Map multi-discipline handoffs across CFD, FEM, software and systems.

04

## Traceability

Every task, input and output is recorded and attributable.

05

## Evidence-based change

Simulate before disrupting — engineers trust data, not opinions

06

## AI-ready data foundation

Structured processes generate the data AI needs to suggest improvements.

# AI-assisted modeling workflow - (R&D)

AI-assisted modeling flow

- User describes a workflow in natural language
- **AI** interprets activities, actors, and sequence
- **BPMN** workflow is generated
- User reviews and refines
- Process becomes ready for analysis and simulation

## Key engineering value

AI reduces the friction between:

- process knowledge
- process formalization

# Demo

## Simple workflow generation

Useful for:

- Fast ideation
- Process discovery
- Workshop acceleration



# Demo

## Amend workflow

Useful for:

- Iteration
- Experimentation
- Continuous improvement



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# Thank you

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