Bringing AI to Design Change Management

From days to minutes

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Who are we?

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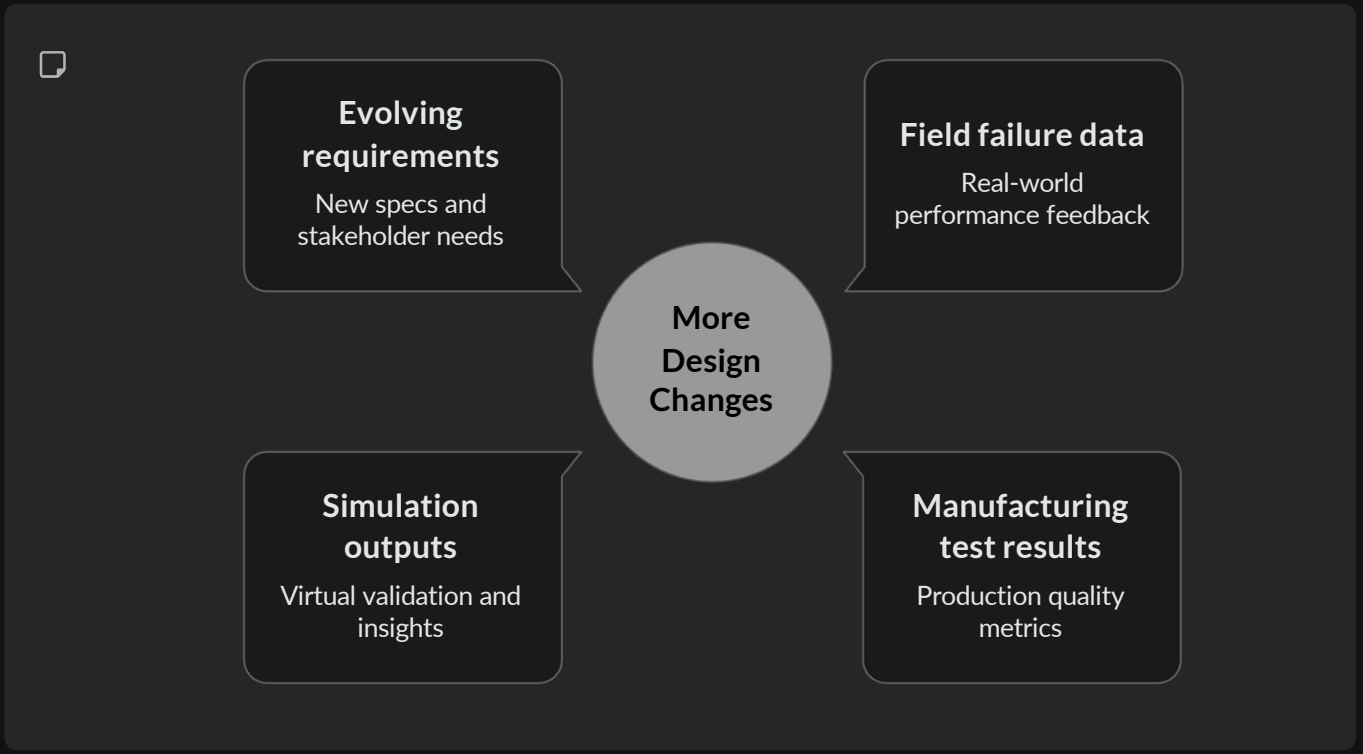
The Engineering Design Cycle

Engineering teams are in a constant cycle of designing, testing, and iterating. New products are being developed, existing designs are being updated. The pace of iteration is accelerating, and with it, the volume of design changes flowing through an organization.



The Cross-Functional Ripple Effect

Every design change ripples outward across the entire organization. The engineering change order (ECO) process governs how changes are shared, reviewed, and approved - and it touches nearly every function in a hardware organization.

Manufacturing

Assesses tooling impact and evaluates updated pricing implications

Supply Chain

Evaluates new lead times and material sourcing requirements

Finance & Leadership

Reviews and signs off on broader cost implications before approval

The Bottleneck

The Core Problem

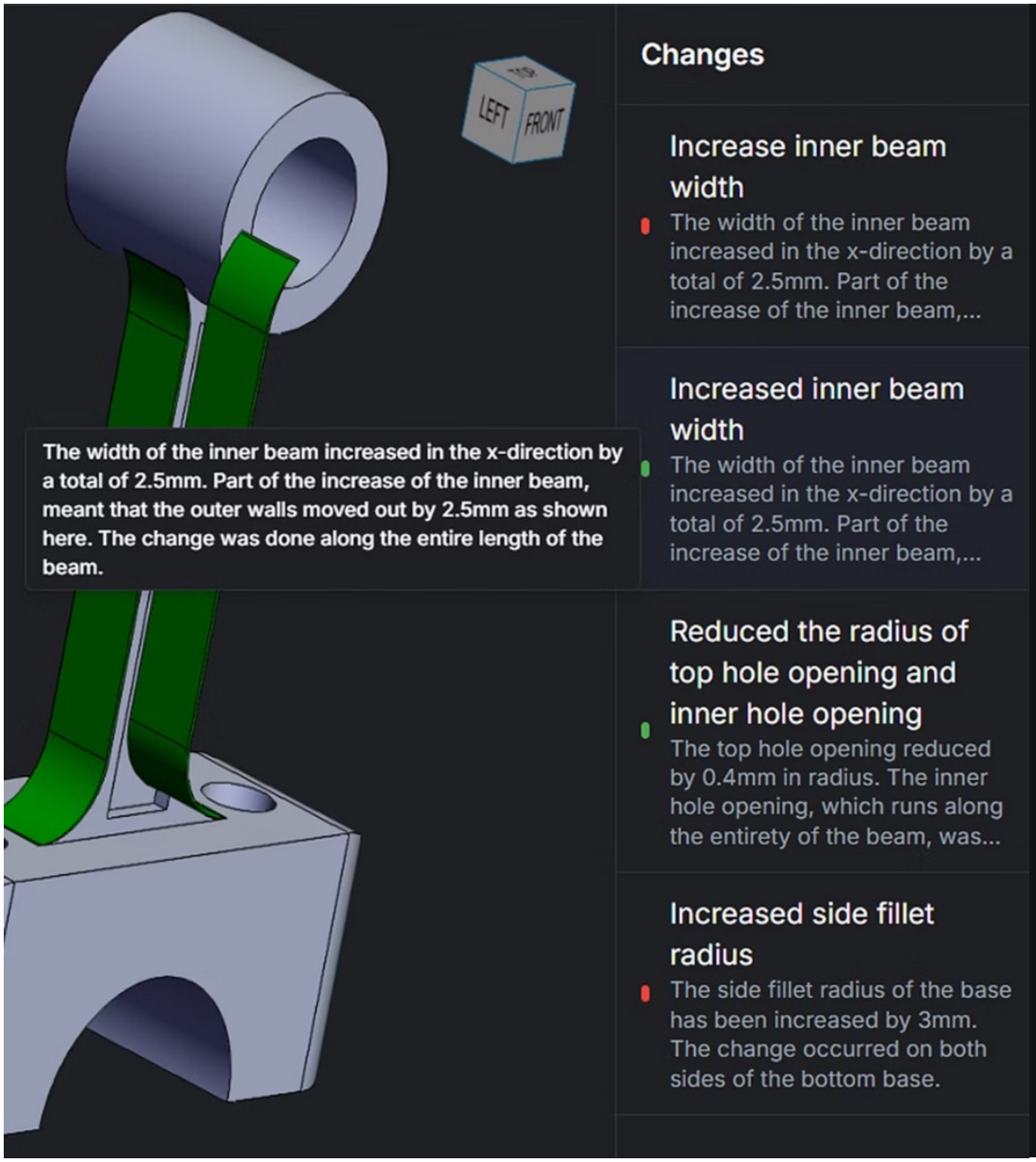
When a design is updated, understanding *what exactly changed* requires a detailed review and comparison in CAD. Most cross-functional stakeholders don't have CAD tools or the expertise to use them.

So they rely on engineers to manually surface changes through screenshots, slide decks, and design review meetings.

The Consequence

- Single point of dependency on engineer availability and thoroughness
- Delayed reviews, missed context, and incomplete change documentation

Days of added cycle time on every change order



INTRODUCING

Meet Meru (MechE Reasoning Unit)

Meru is the first AI model purpose-built for design change management. Its flagship application, **Meru Delta**, ingests CAD designs, automatically identifies what changed between revisions, and surfaces those changes with annotated, contextual detail.

Automated Change Detection

Ingests CAD revisions and identifies every change without manual engineer effort

Contextual Annotations

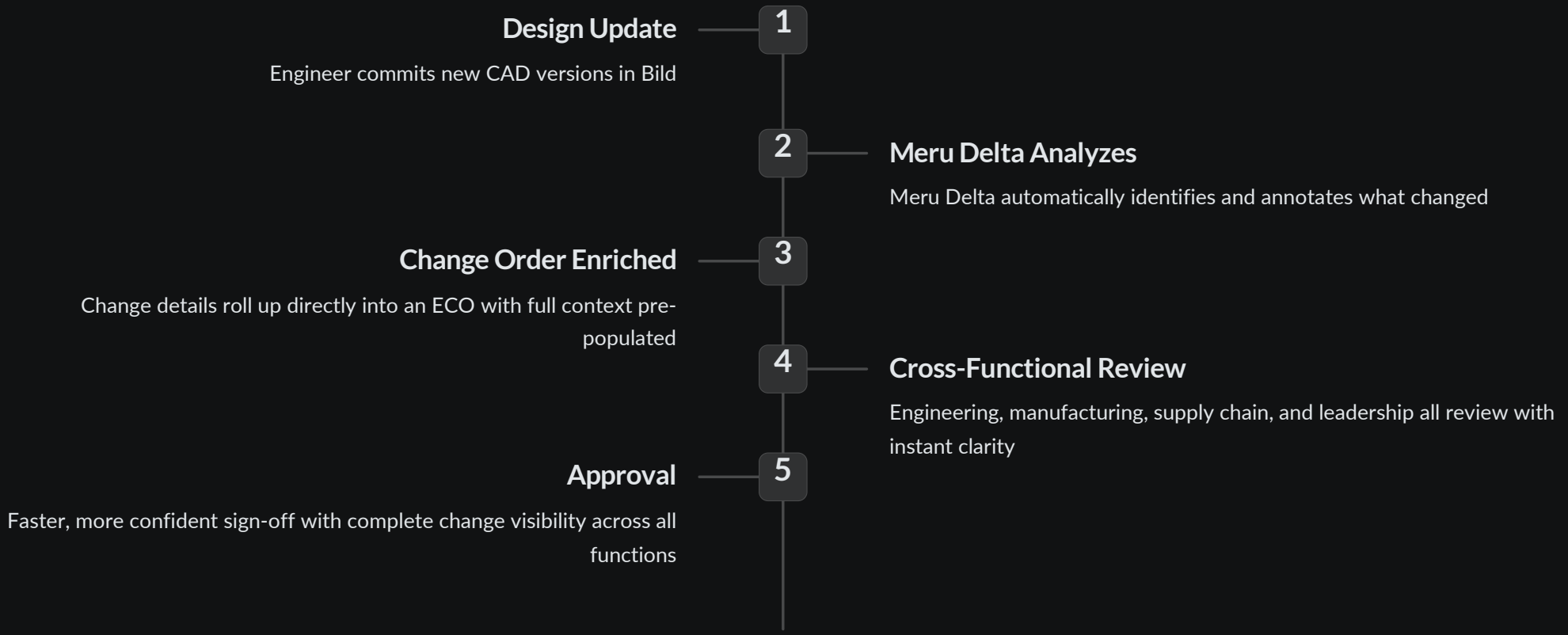
Surfaces changes with rich, human-readable detail any stakeholder can understand

Democratized Access

Eliminates cross-functional dependency on engineer availability to explain changes

Integrated, Not Isolated

Delta isn't a standalone tool bolted onto your workflow. It's fully embedded into Bild's change order process - delivering instant context to every stakeholder from the moment a change is initiated.



Under the Hood

Meru is a multi-modal model built specifically for the complexity of mechanical design. It doesn't just tell you a dimension was updated - it understands *why it matters* within the broader assembly and change history.

Feature Recognition

Identifies geometry-level changes across parts and assemblies with precision

Change History

Contextualizes new changes against prior revision history for full lineage

CAD Geometry Relations

Understands parametric dependencies and downstream assembly impacts

Commit Messages

Synthesizes engineer notes with geometric analysis for holistic change understanding

Early Results

Over the last month and a half, Meru Delta has been in beta with select Bild customers. The early results speak for themselves: real time saved, real meetings eliminated, and a measurably leaner change process across hardware organizations.

60%+

Cycle Time Reduction

Faster change order completion from initiation to final approval

2.7

Meetings Saved

Average meetings eliminated per design cycle, per change order

These results represent early beta feedback. Engineers get time back. Cross-functional teams get faster approvals. Organizations get a leaner change process.

See Meru Delta in Action

If you'd like to see how Meru Delta can give your team complete visibility across the engineering design cycle and dramatically reduce the time your organization spends managing change orders, reach out directly. We'd love to show you a live demo.

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Learn More

getbild.com/meru