

Altium.

Digitally-Integrating Electronics Design

Extending the Digital Thread

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PLM Road Map™ & PDT North America 2023
The Digital Thread in a Heterogeneous, Extended Enterprise Reality
A call for PLM Professionals to share their knowledge & experience

CIMdata May 3 & 4 eurostep

1

Digitalization and Transformation

Business Culture

- Adaptive
- Empowered
- Collaborative

Workforce Enablement

- Productivity
- Platform
- Communication

Operational Agility

- Alignment
- Focus
- Flexibility

Digital Processes

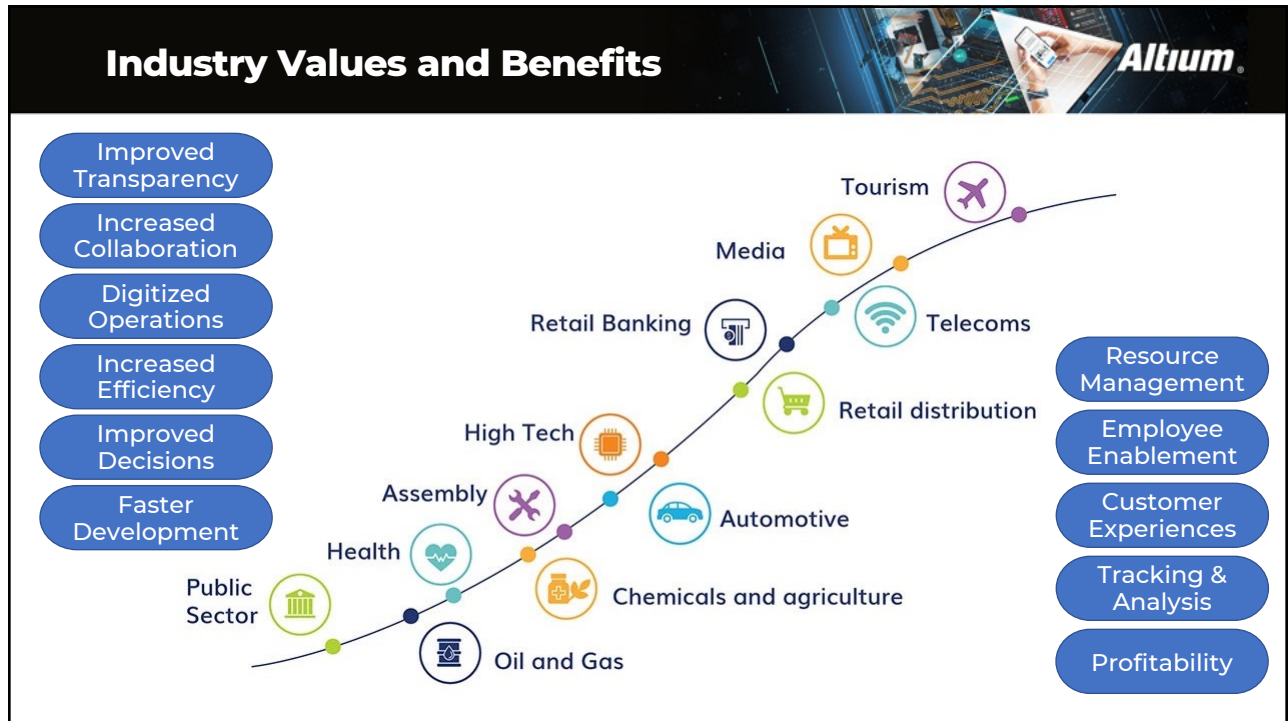
- Integrated
- Automated
- Managed

Customer Experience

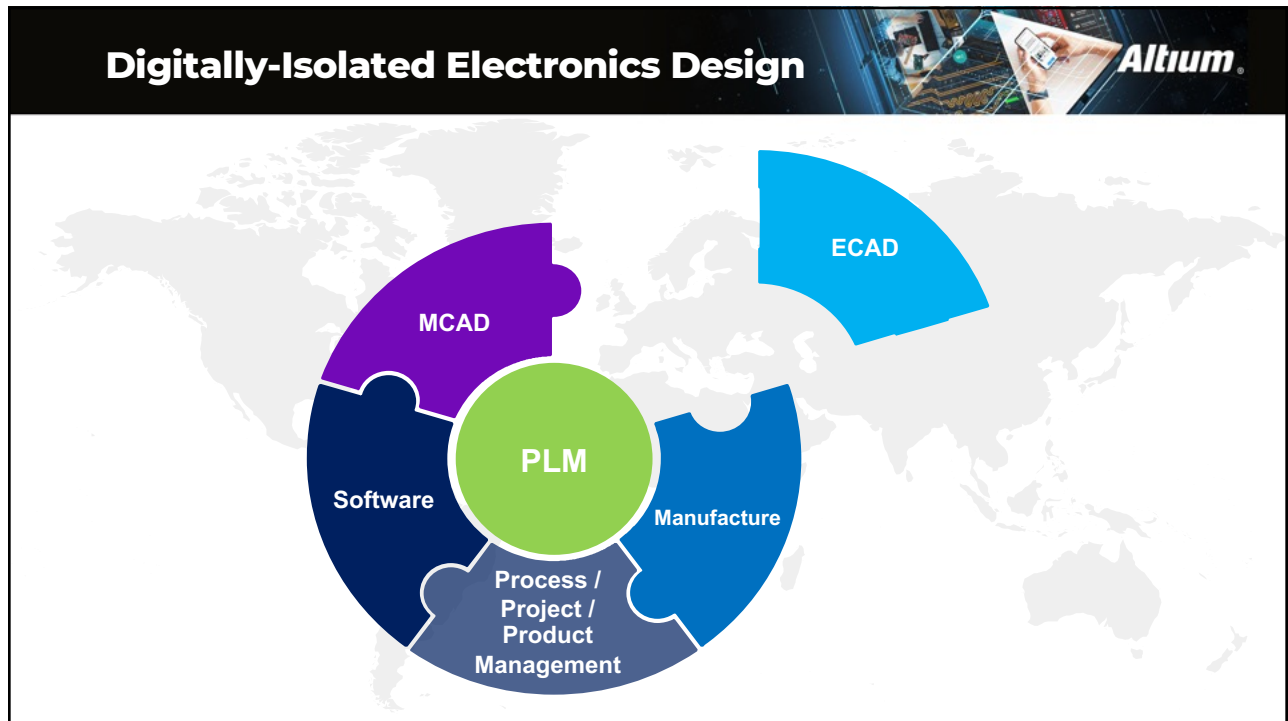
- Connected
- Engaged
- Informed

STRATEGY / PEOPLE / ORGANIZATION / TECHNOLOGY / INNOVATION

2

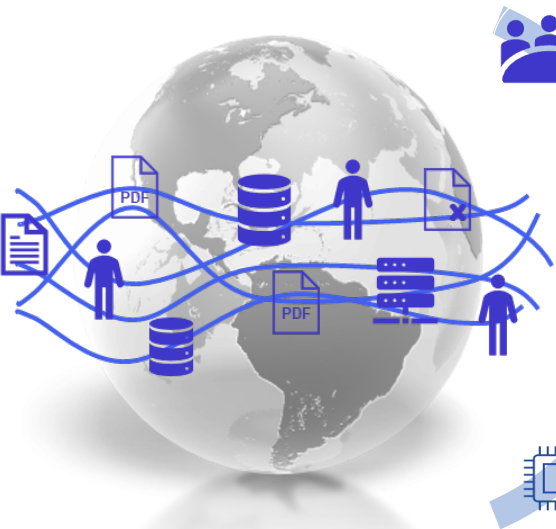


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Digital Development Complexity




Key stakeholders and team members need up-to-date visibility and access to designs, data, and status

Growing number of products requiring managed processes, parts, data and supply chain integration


PLM integration is a necessity to keep up with multiple BOMs, files, revisions, and management requirements

Regulatory and compliance standards require more cross-domain collaboration, traceability, consistency, and predictability




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iRobot Digital Challenges



"It was the [Windchill] check-in process that you had to understand. I do this. I do this. I do this. It was a real challenge for our engineers to break from their usual working processes to perform the upload to Windchill PLM."

Scott Morris, Platform Manager, iRobot

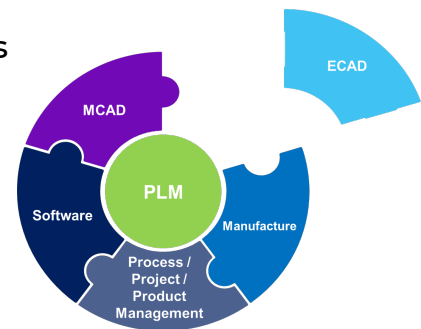


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iRobot Digital Engineering Challenges

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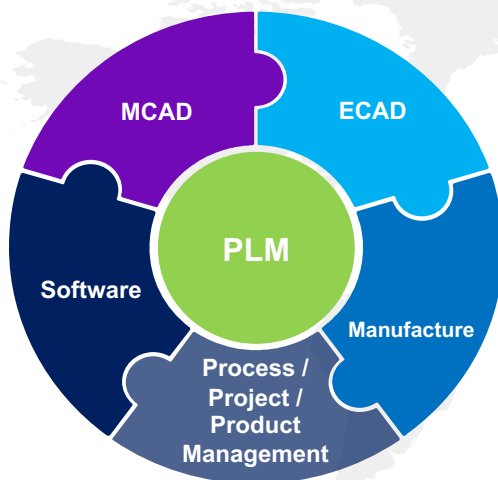
- “Ad-Hoc” electronics design environment
- Disjointed product engineering
- Manual, isolated design processes
- Unmanaged data and process workflows
- Difficulty tracking requirements and changes
- Manual, inefficient synchronization with PLM
- Complicated versioning and revisioning



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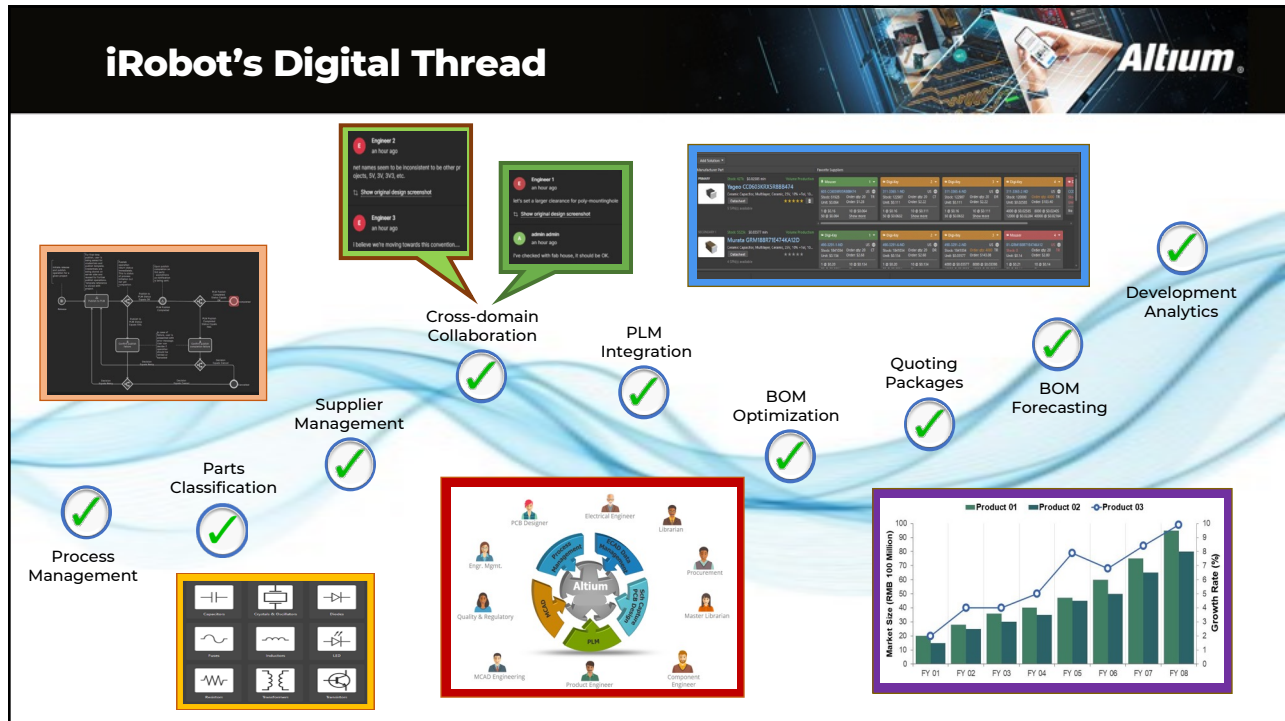
Digitally-Integrated ECAD

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- Digitally-integrated design environment
- Data flows naturally through the organization
- Stakeholders have visibility to data and status
- Data integrity is maintained throughout the product life cycle
- Workflows optimized to individuals / teams
- Easy and efficient traceability of changes
- Easy and efficient design data exchange

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Benefits of iRobot's Digital Thread

- ✓ Single source of truth for product and design data
- ✓ Seamless integration with the larger business enterprise
- ✓ Vendor package creation in minutes instead of weeks
- ✓ Intelligent cross-domain collaboration
- ✓ Significantly reduced development costs
- ✓ Streamlined approval processes
- ✓ Minimized duplicate and costly parts
- ✓ Better product decisions

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Thank You!!

To learn more about Altium and Altium enterprise solutions that enable the digital thread for ECAD, visit www.altium.com/enterprise