



# How High Tech and Manufacturing Companies *Can Maximize the Entire Product Lifecycle* by Using Oracle Cloud PLM

eBook





## Navigate Complexity

High tech and manufacturing companies face increasingly complex challenges, including rapidly evolving market demands, intense global competition, and stringent regulatory requirements. To stay competitive, you must innovate quickly and efficiently while maintaining high standards of product quality and compliance.

Oracle Cloud Product Lifecycle Management (PLM) is part of Oracle Supply Chain Management (SCM). It helps you manage every stage of a product's life, from the first idea to design, production, and end-of-life. Oracle Cloud PLM facilitates seamless collaboration across dispersed teams, integrates disparate systems, and ensures accurate, real-time data access. This reduces development cycles and minimizes errors.

Additionally, Oracle Cloud PLM supports regulatory compliance and risk management by maintaining comprehensive records and traceability. By using PLM, you can be more flexible, make processes simpler, improve product quality, and speed up time to market.

## Streamline to Succeed

Oracle Cloud PLM offers a comprehensive, cloud-based solution designed to streamline processes across the entire product lifecycle. By integrating all phases from ideation and design to production and commercialization, PLM enables seamless collaboration and communication among cross-functional teams. This holistic approach reduces development time, minimizes errors, and enhances product quality.

## Break Down Barriers

Oracle Cloud PLM significantly enhances collaboration by providing a unified, cloud-based platform that connects all stakeholders involved in the product development process. This integration breaks down traditional barriers between departments. It lets engineering, design, manufacturing, and supply chain teams talk and share information in real time. PLM makes it easier to work together and manage documents. This means that everyone can get the latest product data and specifications. With features like social collaboration tools, project management dashboards, and automated notifications, teams can coordinate more effectively, quickly address issues, and make collective decisions.

## Ignite Innovation

Oracle Cloud PLM fosters innovation by providing a complete, integrated platform that supports the entire innovation process. PLM enables seamless idea management, enabling the capture, evaluation, and prioritization of new ideas from diverse sources. With advanced design and simulation tools, teams can experiment and iterate rapidly, turning concepts into viable products with greater efficiency. Robust data analytics and reporting capabilities empower stakeholders with real-time insights, facilitating informed decision making and strategic planning.

**The following pages explain ten reasons why Oracle Cloud PLM can help product lifecycle management processes work well and efficiently across your complex supply chains.**

## Reason 1: Improved Collaboration

### Common issue:

Siloed departments and poor communication, especially in large-scale manufacturing and high-tech projects.

*Example:* A high-tech company's engineering and marketing teams working in isolation, leading to misaligned product features and market needs.

### How PLM addresses it:

PLM integrates all departments, including engineering, manufacturing, procurement, and marketing, providing a single source of truth and facilitating real-time collaboration.

*Example:* Using PLM, the same high-tech company integrates its engineering and marketing teams, ensuring that product designs meet market demands.

### Benefits:

Enhanced teamwork across engineering and manufacturing teams, faster decision-making, and reduced errors in product development, leading to more efficient production cycles.

*Example:* Faster iterations and fewer reworks, resulting in a 20% reduction in time-to-market for new products.

## Reason 2: Enhanced Data Management

### Common issue:

Inconsistent and scattered product data, critical in industries with complex regulatory requirements and documentation needs.

*Example:* A manufacturing company facing issues with version control of product specifications, leading to production errors.

### How PLM addresses it:

PLM centralizes product data, ensuring accuracy and accessibility across the organization, from design to production.

*Example:* Implementing PLM centralizes product design data and BOMs, ensuring all teams have access to the latest data.

### Benefits:

Improved data integrity, easier data retrieval, compliance with industry standards, and more informed decision making, which is vital for maintaining product quality and meeting regulatory requirements.

*Example:* Enhanced data integrity leads to a 30% reduction in compliance-related delays and errors.



## Reason 3: Accelerated Time to Market

### Common issue:

Delays in product development and market launch due to lengthy design and regulatory approval processes.

*Example:* A tech company taking 18 months to develop and launch a new gadget, missing market opportunities.

### How PLM addresses it:

PLM optimizes workflows and automates processes, reducing time spent on administrative tasks and enabling faster design iterations.

*Example:* Automating design approvals and integrating regulatory feedback within PLM reduces development cycle time.

### Benefits:

Faster product launches, increased market competitiveness, and higher revenue potential, which are critical in industries where time-to-market can determine market share.

*Example:* The same tech company reduces its product development cycle to 12 months, capturing more market share and increasing revenue by 15%.



## Reason 4: Better Compliance & Risk Management

### Common issue:

Difficulty in adhering to stringent industry regulations and managing risks, particularly in high tech and manufacturing sectors.

*Example:* A tech company struggling to meet requirements due to lack of proper documentation and tracking.

### How PLM addresses it:

PLM provides tools for compliance tracking and risk assessment throughout the product lifecycle, ensuring all regulatory requirements are met.

*Example:* Using PLM, the company tracks all compliance requirements and documentation in one place, ensuring audit readiness.

### Benefits:

Reduced legal risks, improved product quality, and enhanced brand reputation, ensuring that products meet safety and regulatory standards.

*Example:* Enhanced compliance leads to 40% fewer product recalls and a stronger reputation in the market, increasing client trust.

## Reason 5: Cost Reduction

### Common issue:

High costs due to inefficiencies and waste in production and supply chain processes.

*Example:* A manufacturing company facing high costs due to excessive scrap and rework by manufacturing from an outdated version of the product documentation.

### How PLM addresses it:

PLM streamlines the product release and update process, ensuring manufacturing is working with the most current version of the product design data.

*Example:* Implementing PLM helps ensure all departments have access to and use the latest-released product documentation.

### Benefits:

Lower production costs, increased profit margins, and better resource allocation, allowing companies to invest more in innovation and quality improvement.

*Example:* The company reduces scrap by 25%, resulting in significant cost savings and higher profit margins.



## Reason 6: Improved Product Quality

### Common issue:

Inconsistent product quality and high defect rates, especially in high tech products with complex components.

*Example:* An electronics manufacturer experiencing high defect rates in their latest model.

### How PLM addresses it:

Implementing PLM, the manufacturer standardizes quality checks and monitors them throughout the production process.

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### Benefits:

Higher customer satisfaction, reduced returns, and strengthened brand loyalty, as customers receive high-quality, reliable products.

*Example:* The manufacturer sees a 40% reduction in defect rates, leading to higher customer satisfaction and fewer returns.





## Reason 7: Enhanced Innovation

### Common issue:

Stagnation and lack of innovative ideas in competitive markets.

*Example:* A tech company struggling to come up with new product ideas and features.

### How PLM addresses it:

PLM fosters a collaborative environment that encourages idea sharing and innovation, integrating feedback from various departments and stakeholders.

*Example:* Using PLM, the tech company sets up an innovation hub where ideas can be shared and developed collaboratively.

### Benefits:

More innovative products, a competitive edge, and increased market share, crucial for staying ahead in high tech and manufacturing industries.

*Example:* The company launches a groundbreaking new product that captures a significant market share, boosting its competitive position.

## Reason 8: Streamlined Supply Chain Management

### Common issue:

Supply chain disruptions and inefficiencies, which can significantly impact manufacturing operations.

*Example:* A manufacturer experiencing delays due to poor supplier coordination and access to the latest product data.

### How PLM addresses it:

PLM provides visibility and control over the entire supply chain, ensuring timely and efficient coordination of product data between suppliers and manufacturers.

*Example:* Implementing PLM, the entire supply chain gains real-time visibility into the latest product data.

### Benefits:

Smoother supply chain operations, reduced delays, and lower costs, enhancing overall efficiency and reliability in product delivery.

*Example:* Improved supply chain management leads to a 20% reduction in production delays and lower overall costs.



## Reason 9: Better Resource Management

### Common issue:

Poor utilization of resources and talent, often leading to project delays and cost overruns.

*Example:* A manufacturing company frequently missing project deadlines due to misallocated resources.

### How PLM addresses it:

PLM helps in optimizing resource allocation and tracking, ensuring that resources are used effectively and efficiently.

*Example:* Using PLM, the company tracks resource availability during the new product design and introduction process and allocates them based on project priorities and timelines.

### Benefits:

Maximized productivity, better talent utilization, and improved project outcomes, ensuring that projects are completed on time and within budget.

*Example:* The company sees a 15% improvement in on-time project delivery and better utilization of technical resources.

## Reason 10: Strategic Decision Making

### Common issue:

Lack of comprehensive data for strategic decisions, hindering long-term planning and innovation.

*Example:* A high tech company struggling to plan its product roadmap due to fragmented data.

### How PLM addresses it:

PLM provides robust analytics and reporting tools, offering insights into every aspect of the product lifecycle.

*Example:* Implementing PLM, the company gains access to comprehensive data analytics, supporting better strategic planning, resulting in a more valuable product portfolio.

### Benefits:

Data-driven decisions, better strategic planning, and improved business outcomes, positioning for long-term success in a competitive environment.

*Example:* The company makes more informed strategic product development and resourcing decisions, leading to a 20% increase in market share over three years.



## Conclusion

Oracle Cloud PLM offers a comprehensive and integrated solution that brings unparalleled value to high tech and manufacturing companies. By enhancing collaboration and communication across teams, PLM ensures seamless information sharing and up-to-date access to critical data, breaking down traditional silos. This streamlining of workflows not only accelerates product development and reduces errors but also significantly improves product quality. With robust data management and advanced analytics, you gain real-time insights that drive informed decision making and strategic planning.

Furthermore, Oracle Cloud PLM supports regulatory compliance and risk management through meticulous documentation and traceability. Its scalability and flexibility ensure adaptability to evolving industry needs, enabling rapid innovation and sustained competitive advantage.

Oracle Cloud PLM helps you bring high-quality products to market more efficiently, confidently, and quickly, providing:

1. Improved collaboration
2. Enhanced data management
3. Accelerated time to market
4. Better compliance & risk management
5. Cost reduction
6. Improved product quality
7. Enhanced innovation
8. Streamlined supply chain management
9. Better resource management
10. Strategic decision making

As a longtime Oracle partner, Argano can help you implement Oracle Cloud PLM, either by itself, as part of a larger Oracle Cloud SCM implementation, or cross-pillar Oracle Cloud Applications transformation. Argano has a unique approach and toolset to accelerate cloud implementation. This is achieved through business process and configuration analysis, combined with test automation and data migration tools. Our methodology and assessment framework help develop the business case and a practical plan for your cloud journey, focused on business value realization.

Want to learn more? Reach out to us at [oracle@argano.com](mailto:oracle@argano.com) or visit [oracle.argano.com](https://oracle.argano.com)

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## About Argano

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