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Siemens PLM Software

Achieve a digital breakthrough with the NPDI cost and risk management solution

Expedite time-to-market by optimizing your new product development and introduction process

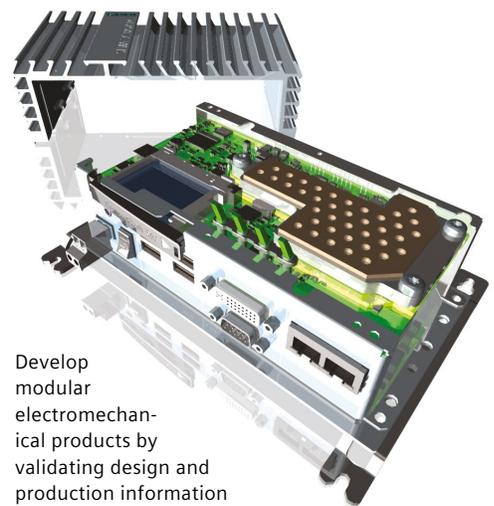
Benefits

- Achieve accurate and repeatable cost predictions to enhance margins
- Develop competitive products that satisfy customer needs
- Ensure that products are compliant with global regulations and are eco-friendly
- Accelerate product development while maintaining a high level of quality

Keeping up with challenging trends

The electronics and semiconductor industry continues to face challenges that are transforming the way it works. The explosion of new technologies that enable devices to talk to each other to automate our lives and industrial processes has created a trend around the "Internet of Things," in which the interconnection of devices extends the wireless landscape of automation and communication. From intelligent wireless interaction of household appliances to the dynamic flow of materials in an automated manufacturing plant, consumers are looking for new and innovative products to take their lives and businesses to the next level of ease and efficiency.

Miniaturization has long been a catalyst for progress in this industry to the point that a



Develop modular electromechanical products by validating design and production information against driving requirements, cost predictions and regulatory restrictions across the product lifecycle.

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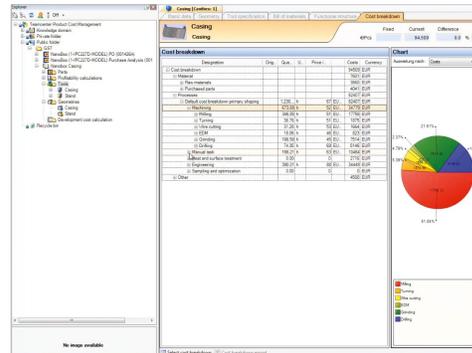
smartphone today has more computing power than the computers used in the Apollo moon mission. This is still a driving trend that demands more complexity and functionality in smaller spaces with lower power consumption, all while maintaining high quality and reliability at lower cost. Leading information technology (IT) analyst firms report that failure rates for new product development and introduction (NPDI) can be as high as 50 percent, so electronics manufacturers must expand the scope and efficiency of the NPDI process to beat the competition to market with these innovative products so they can capture market share; and they must do it with high reliability and eco-friendly content to grow brand loyalty and ensure competitive pricing by accurately predicting costs.

Succeeding with an NPDI solution

Siemens PLM Software offers an integrated solution for NPDI cost and risk management to help electronics manufacturers achieve accelerated development while maintaining high quality. This solution enables you to continuously manage costs, requirements and specifications from an early phase of the process while validating design and manufacturing activities to conform to design intent and customer expectations. In addition, you can employ new approaches to evaluate modular, cost-effective alternate products, and proactively manage sustainability and substance-related product regulations.

The NPDI Cost and Risk Management solution provides capabilities to enhance the speed and quality of developing electronics products so you can grow your business and capture market share. This helps electronics manufacturers to ensure consistency of critical product and process information, including requirements, costs, materials and substance compliance and schedules. You can standardize an NPDI

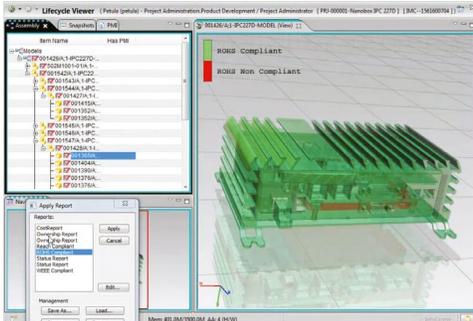
dashboard on key performance indicators so you will understand where you stand in terms of a set of defined metrics for cost, time and quality.



Product costing includes tooling estimates of multiple production processes that enable you to determine cost-effective options.

Cost management

Siemens PLM Software provides the leading product cost management and analysis capability to develop accurate and repeatable costing models that take into account multiple factors for materials, tooling, manufacturing processes and the value chain. This improves management visibility and insight into product cost drivers, including components, materials, shipping, labor, machines, processes and product unit volumes. You can model the interaction of product changes to cost drivers, and provide enterprise-wide, standard models from which to derive reasonable and high-quality cost forecasts and targets. Replace isolated, incomplete and inconsistent spreadsheet-based product cost data with accurate and repeatable models that validate product profitability long before you have committed the costs to design and production.



Visualize key product parameters such as costs, compliance and performance to identify issues early in the process.

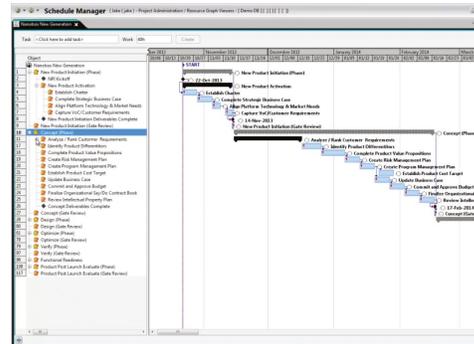
Substance compliance management

The Siemens PLM Software substance management solutions efficiently demonstrate product compliance with material content regulations, such as the Restriction of Hazardous Substances Directive (RoHS); Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and the Environmental Protection Assessment Tool (ePEAT), etc. You can quickly respond to customer or regulatory agency requests with documentation for the presence or absence of specific substances, percentage of recycled packaging materials and many other factors with configurable reports, providing a unified information and declaration platform for compliance. The solution provides a well-controlled and efficient process capability to manage supply chain compliance risks. You can also optimize the part selection process by factoring in substance compliance and environmental regulation as key selection criteria.

Requirements management

Integrate requirements to capture and manage the voice of the customer in a single, secure location that is available to the extended enterprise and managed throughout the lifecycle. Link and trace requirements to functional, logical and physical implementations. Requirements traceability can track and audit compliance to regulations, specifications and design intent. Our requirements capability helps you deliver products that meet customer needs, hit revenue and performance

targets, capitalize on market opportunities, improve productivity and quality, ensure regulatory and contractual compliance and leverage existing software investments and expertise to minimize risk.



Dynamically track development progress by using integrated schedule and execution management to update task completion.

Execution management

Validate NPDI program execution against schedule constraints, and then drive the schedule with proactive workflows that update the status of the program in real time. Automatically update schedule tasks, validate required deliverables for gate reviews and manage all phases of development of multiple, concurrent projects, sharing resources across the organization. Siemens PLM Software provides unified solutions for the electronics and semiconductor industry to accelerate the NPDI process to get products to market faster, while reducing costs and risks of failure, while increasing product quality. This approach results in better products made with smarter decisions during the entire product lifecycle, enabling you to capture market share and customer loyalty while delivering a digital breakthrough every time.

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