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PLB03043-USEN-01



High-Tech industry

Accelerating market-driven innovation through integrated PLM solutions



IBM delivers Product Lifecycle Management (PLM) solutions, built on Dassault Systèmes new Version 6 PLM online platform, including CATIA, SIMULIA, DELMIA, ENOVIA and 3DVIA, to help High-Tech and electronics companies in their strategic initiatives in the transformation of product development, manufacturing and enterprise collaboration processes.

IBM, one of the major leading High-Tech companies, is using these IBM and Dassault Systèmes PLM solutions as part of a deep R&D transformation. IBM through its Global Business Services and Software Group organizations can help High-Tech electronics companies in bringing new value and better competitive positioning.

As innovation can't be separated from demand management, production, and distribution, IBM delivers PLM solutions that integrate business process management with cutting-edge tools for design, engineering and manufacturing planning. By managing thrusts coming from the market and facilitating enterprise-wide collaboration, organizations are becoming much more efficient, productive and responsive to changes in the marketplace and the value chain.

In the electronics sector, demands for devices with increased autonomy, mobility and connectivity drive the emergence of new technologies. To survive in an industry where cooperative competition is the norm, companies must master the development of complex mechatronics product development processes while forming profitable alliances with geographically dispersed suppliers.

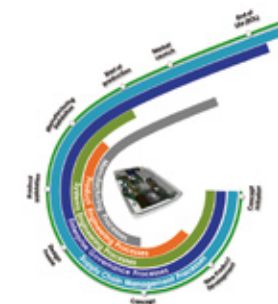


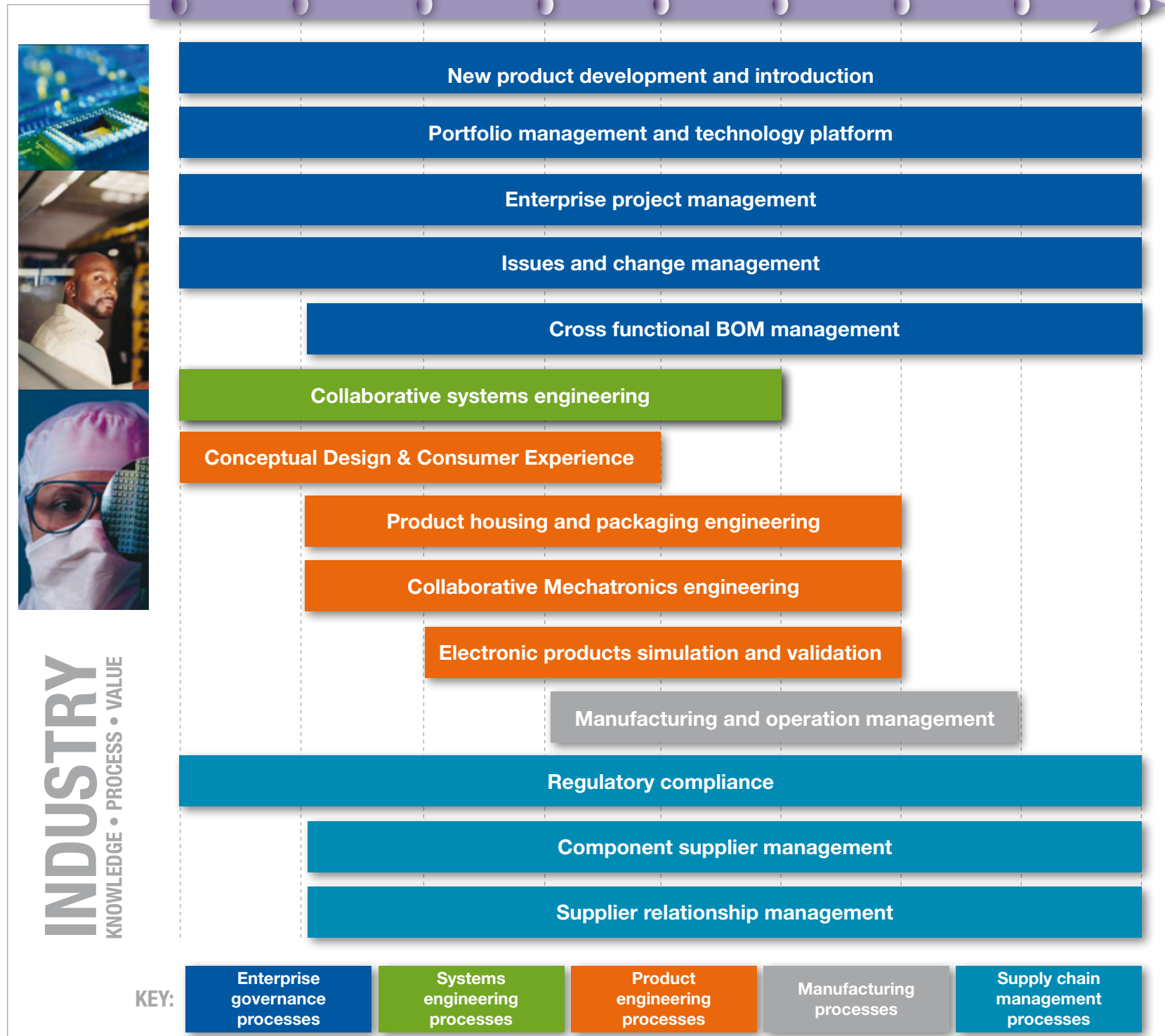
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- ### Highlights
- **Design the entire system**
 - **Build a single digital product definition**
 - **Perform virtual product qualification**
 - **Manage complexity**
 - **Integrate regulatory requirements into the product development process**
 - **Maximize production performance**
 - **Use a single repository.**



The High-Tech Industry Process Referential

Concept initiation New product development Concept freeze Design freeze Product validation Manufacturing validation Start of production Market launch End of life



New product development and introduction
Drives and manages the introduction of new products to the market by tracking decisions from ideation to development and commercialization planning.

Portfolio management and technology platform
Manages product portfolios in a streamlined process based on a platform strategy, which links user requirements and product's features, to enable diverse product configurations.

Enterprise project management
Plans and manages complex projects by accessing real-time to projects pipelines while facilitating efficient stakeholder interactions for rapid problem analysis and stage-gates decision making.

Issues and change management
Keeps reported problem integrity and accountability of changes required to fix the problem in a product's lifecycle.

Cross functional BOM management
Handles cross-functional Bill of Materials (BOM) management from as-Designed, as-Manufactured, as-Planned to as-Built phase.

Collaborative systems engineering
Master collaborative multi-discipline systems development process with dynamic modeling, simulation and end-to-end traceability from needs identification to final product validation.

Manufacturing and operation management
Plans, simulates and optimizes production processes in a virtual world before the actual launch of production and commitment to capital investments.

Conceptual Design & Consumer Experience
Delivers virtual design experience that anticipates customer expectations to help design products that stand out from the competition.

Product housing and packaging engineering
Provides capabilities required by the OEM and tool makers to optimize the entire product housing and packaging part development process, from bidding preparation to design and manufacturing.

Collaborative mechatronics engineering
Enables communication and collaboration across mechanical, electronic and software engineering disciplines for product design efficiency.

Electronic products simulation and validation
Assesses robustness and performance of product design and validates its compliance with requirements/ specifications for rapid, efficient and right-to-market product development.

Regulatory compliance
Manages material composition for make/buy components and assesses their compliance with global regulations such as RoHS, WEEE and others.

Component supplier management
Manages part development and drives strategic sourcing strategy to ensure component compliancy and enables 'Design Anywhere, Manufacture Anywhere' agility and savings.

Supplier relationship management
Enables supplier collaboration and performance development through plans, scorecards and real-time access to product information, and leverages their innovation capabilities along the product lifecycle.