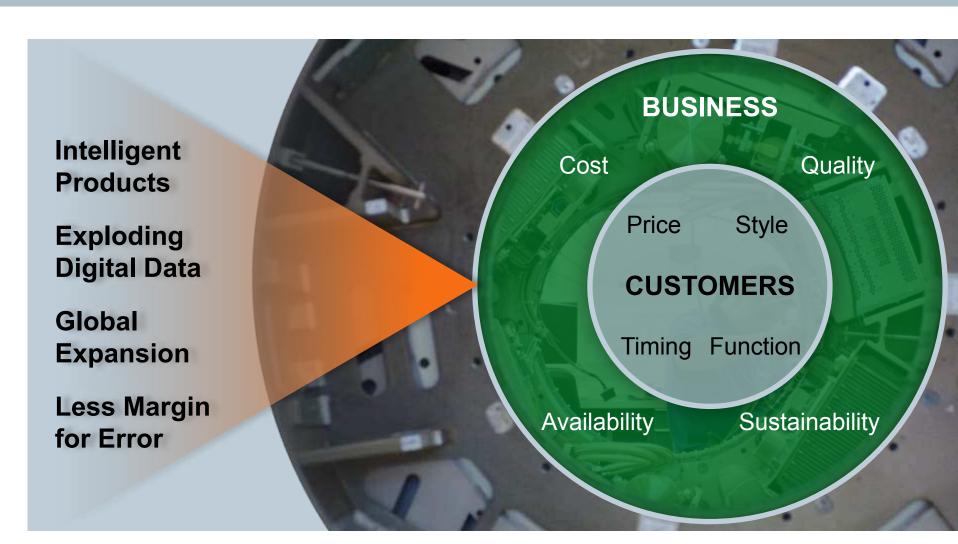


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PLM for the Midmarket

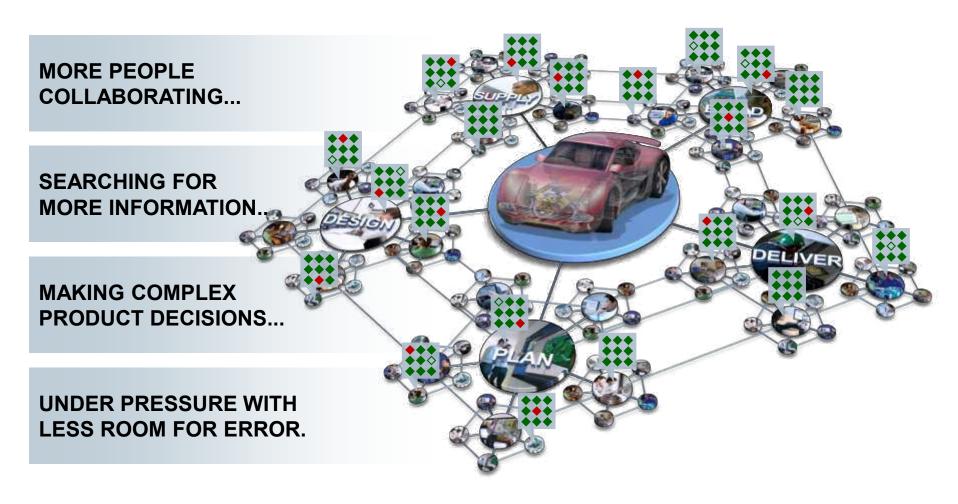


Making Successful Products Has Never Been More Complex...





The New Realities of Manufacturing





The Job of PLM Isn't Done



Page 4



PLM Helps to Conquer Complexity



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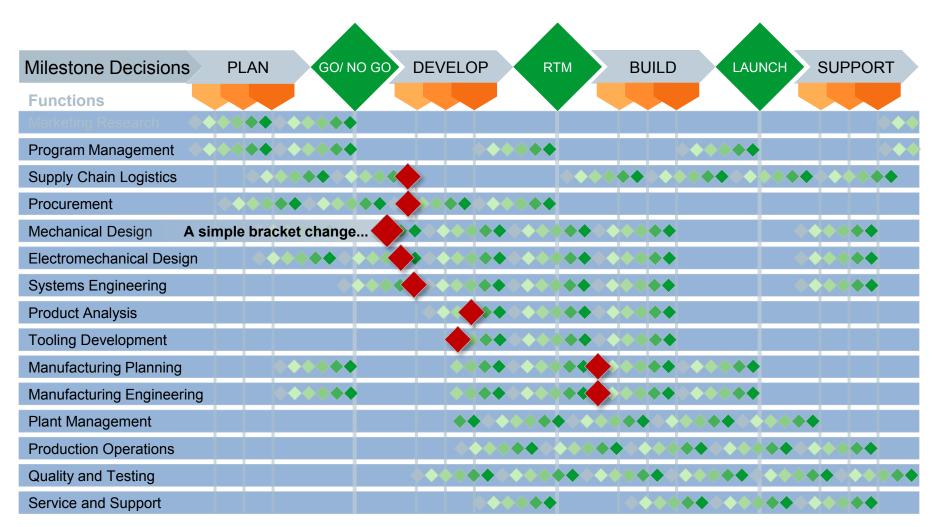


Anyone Can Make the Decision that Makes the Difference in Your Product





All the Small Decisions that Lead to Your Milestone Decisions Must be Right

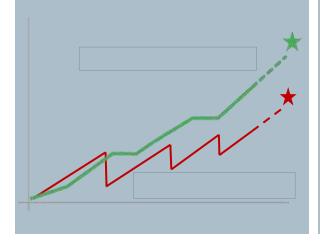




Future-proof Architecture

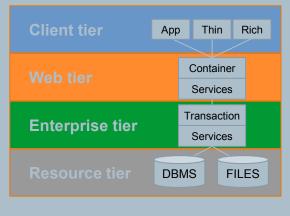
Open

- Seamless continuous upgrade approach: enhance the system but don't leave data behind
- Standards based support for enterprise ecosystem



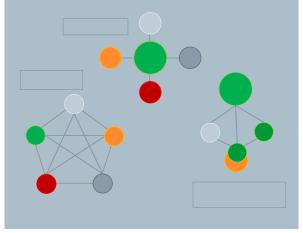
Scalable

- Transparent adjustment to needs based on demand
- Four-tier architecture: add new technologies as available



Flexible

- Configurable model to support unique business strategies
- Data model extensibility through BMIDE: define behavior without coding





Small Medium Enterprises (SMEs) in EMEA

.... of the 26 million businesses in the European Union (EU) about 2.5 million (10%) are manufacturing based; over 99% are SMEs.

EU manufacturing business employs over 36 million people and contributes approximately 22% to total EU GDP

Manufacture – A Vision for 2020



SMEs cover the complete Manufacturing Spectrum

Manufacturing	No of SMEs	Sectors	Countries with highest number of SMEs as %
High tech	45,871	Pharmaceuticals, Computers, Electronics	Germany:17, UK: 15, Italy:14, CR:8, France:8
Medium-high-tech	192,980	Chemicals, Machinery, Motor Vehicles	Italy:19, Germany:14, CR:13, UK:9, Spain:8
Medium-low-tech	691,096	Rubber & plastic, Metal Products	Italy:21, Germany:11, Spain:10, France:9, CR:9
Low-tech	1,060,868	Food, Beverages, Tobacco, Textiles	Italy:21, France:12, Spain:10, Germany:8, Poland:8

Source: 2011 Estimates - www.ec.europa.eu



SME vs. Enterprise Characteristics

SME	Enterprise	
Limited resources	Specialists and departments	
Short-term and re-active approach	Stand back and take the longer view	
Limited documented processes	Well defined and documented processes	
Informal management systems	Formal management systems	
Limited by scale	Benefits from scale	
Mainly privately/family owned	Mainly corporate or public ownership	
Command and Control culture	People empowered within defined scope	
OOTB solutions	Configurable Solutions	

Globalisation and Competition

Total Cost of Ownership

Compliance and Regulatory

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Adapted from FutureSME

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PLM - Product Lifecycle Management

PLM supports process standardization according to lean principles across the critical product lifecycle workstreams from Engineering and Product Development thru Manufacturing and Supply Chain while specifically enabling:

- Collaborative creation, management, dissemination, and use of product definition information globally
- Optimized key process flows according to lean principles across the extended enterprise (customers, joint ventures, supply partners, ...)
- Integrated people, processes, business systems, and information
- Scalability to span the entire lifecycle from concept to end of life of a product





PLM Value to the Business

PLM helps companies deliver faster with improved quality bringing more business at a reduced cost.

Time = move faster

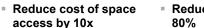
cost = control expense

Quality = better result

Revenue = grow sales







50% productivity improvement



- Reduce rework by 80%
- 90% fewer deviations in project and technical documentation



- Faster quotes and more accurate cost estimates
- Plant design costs reduced by 2/3



- Find information immediately on-line
- Better informed engineering decisions



- 50% reduction in development cycle times
- 20% cycle time savings thanks to cPDM



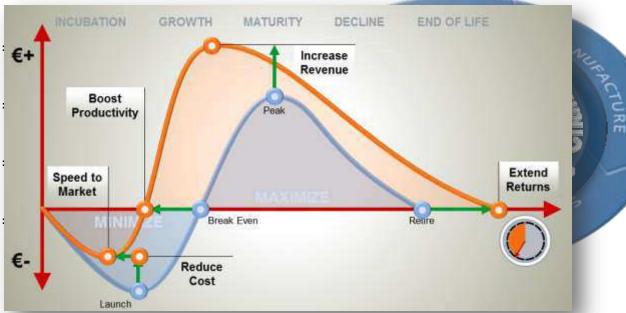
- Tasks completed in 2-3 days vs. 2-3 weeks
- Faster cycle times helps win new business



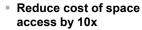
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PLM is a Strategic Business System



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Confidence in Information and Processes

Find it fast

...a single source of data

Trust it

...revision and security control

Comprehend it

...intuitive 2D/3D visualization

Understand context

...rich information relationships

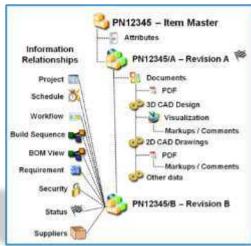
Know when & what to do

...schedule and workflow automation

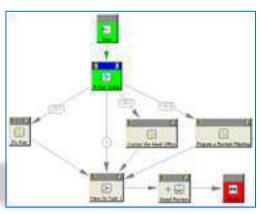
Make it visible to others

...automatic notification and reporting











Core concepts for PLM

Manage Information

- Manage the data
- Manage the process
- Single Virtual Source

Find Information

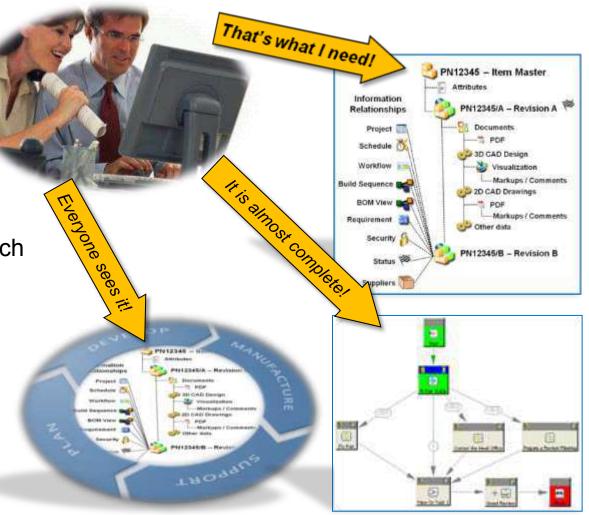
Simple and detailed search

Where used/referenced

Process status

Share Information

- Real-time collaboration
- Attached to workflow
- Visualization





A PLM Platform ties applications together

Combine information, process and communication to capture how your business really works providing...

Comprehensive

...more from a single solution partner

Modular

...align investment with requirements over time

Out-of-the-box

...use best practices -vs- build from scratch

Configurable

...faster deployment lowers TCO

Scalable

...high performance for any number of users

OPFN

...industry standard technologies

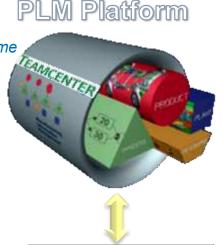












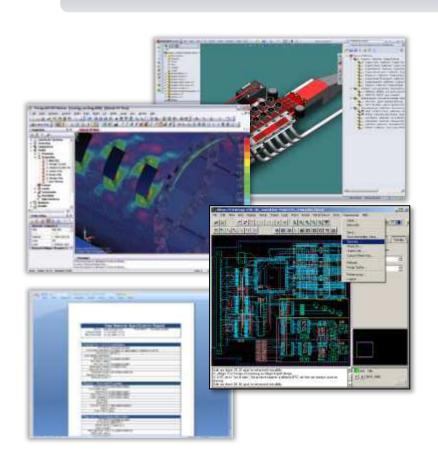


ERP



PLM provides a single source of the truth

If it's available in electronic form, PLM can manage it.



MultiCAD in a Single Source:

NX, Solid Edge, SolidWorks, Pro/E, , AutoCAD, Inventor, CAM Data

ECAD Integrations: Altium, Cadence, Mentor, Intercept, EDA Gateway

SLM Integrations: NXNastran, Abaqus, Ansys, Fluent, Hypermesh, SLM Toolkit

Basic Data Types: Word, Excel, Text, PDF, ZIP, HTML, etc...

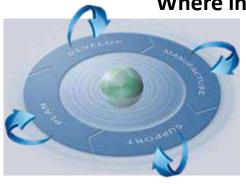
Configurable Datasets to map any application for Teamcenter to manage the information.



Company / Enterprise wide Progress Visibility

Macro and Micro visibility of status

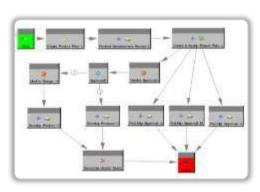
Where in the Product Lifecycle?

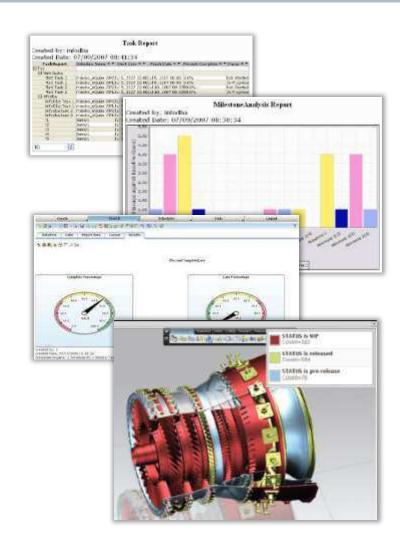


- Release Status
- Product Dev. Phases
- Change Process

Where in a Process Workflow?

- Completion status
- Who's task is due
- Where is it going







Global / Local Collaboration from Anywhere



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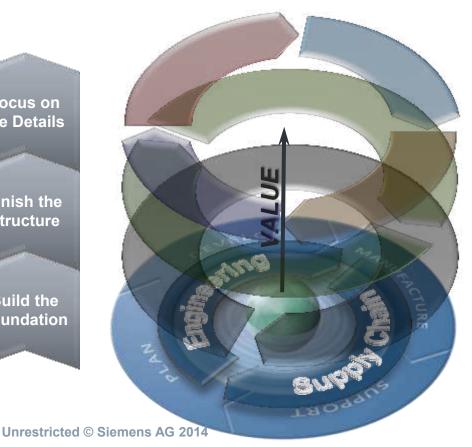
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Phased approach to PLM Initiatives

Adopting End-to-End PLM takes time so a phased strategy is best practice of building a solid foundation in Engineering, expanding the flow of information to Manufacturing, and integrating strategic Business operations.





Optimize the Business

Specialized PLM solutions (applications) that provide specific capabilities as needed for different operations thru the product lifecycle.

Product Information & Processes

Expand to the management of any information and processes that *supports* the development, production, and documentation of product.

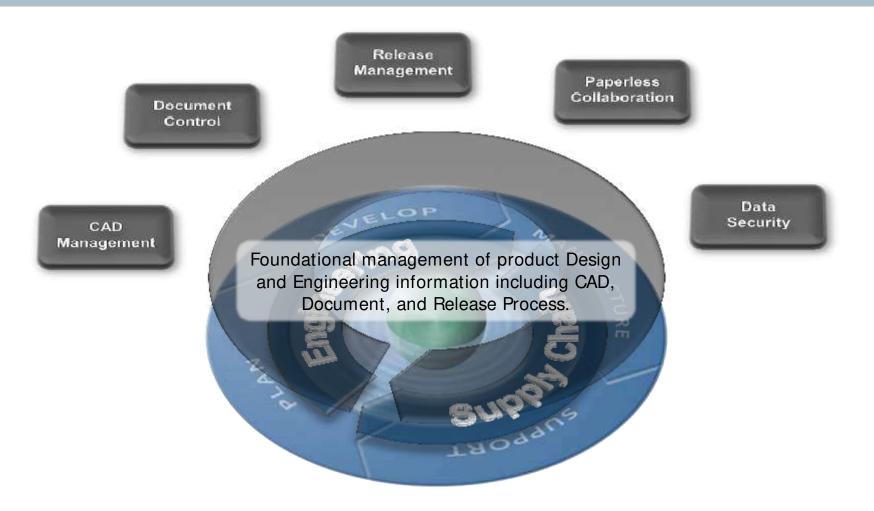
PLM Foundation (PDM)

Foundational management of product Design and Engineering information including CAD, Document, and Release Status.

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Foundational PLM (*Product Data Management*)

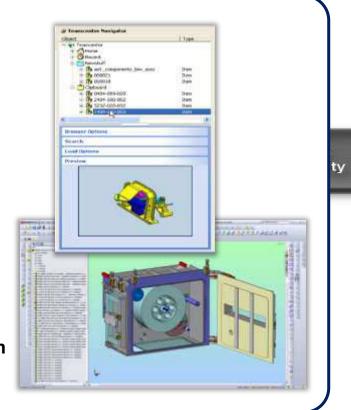




Foundational PLM (*Product Data Management*)

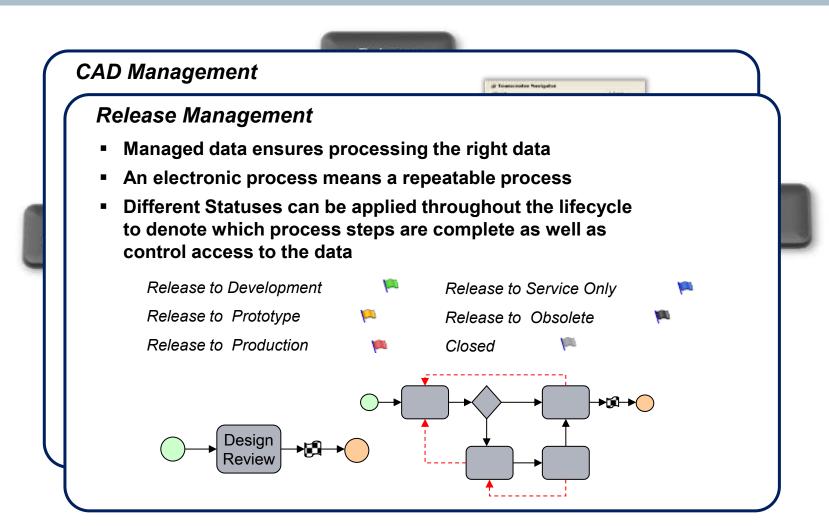
CAD Management

- Full Check IN / Check Out control
- Automatic Versions/Revisions
- Full Support of CAD modeling features
- Product Structure Synchronization
- PLM access without leaving CAD
- Advanced Search exposed in CAD
- Automatic auxiliary file generation
- Bi-Directional Attribute Synchronization



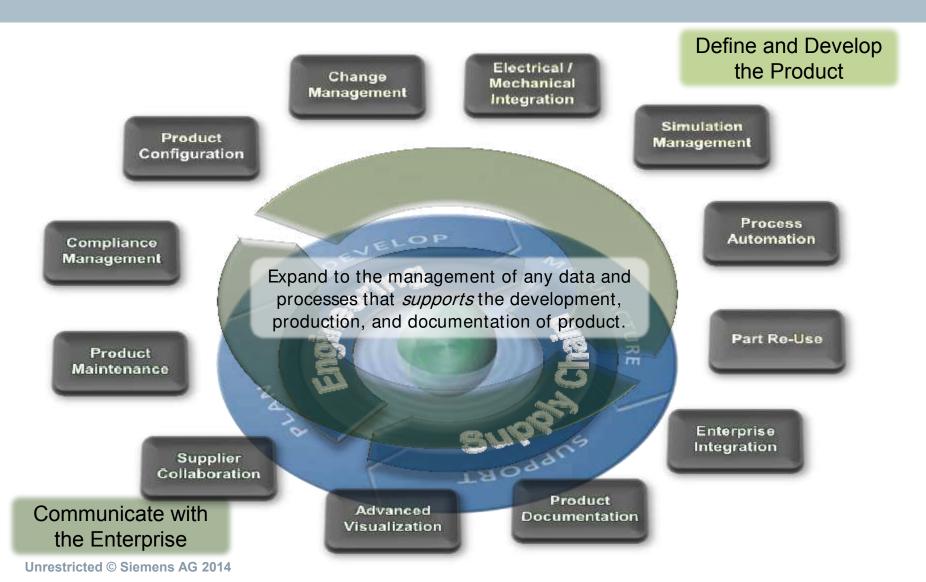


Foundational PLM (*Product Data Management*)





Product Information & Processes



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Product Information & Processes

Define and Develop

oduct

nc

se

Part Reuse

Enable companies to achieve the highest reuse cost-savings through the promotion of reuse and prevention of duplication

 Organize existing parts to support reuse processes

Search for reusable parts by attribute or by shape

 Automation tools extend and refine part reuse

 Access reusable parts within the CAD environment





Communicate with the Enterprise

Ma

Advanced Visualization Product Documentation

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Product Information & Processes

Define and Develop

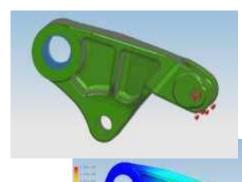
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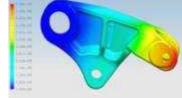
Part Reuse

Simulation Management

A Single Source for Simulation Information and Processes

- Manages CAE specific data
- Synchronizes CAE with CAD data
- •Facilitates reuse of existing designs and engineering knowledge
- Integrates existing CAE applications
- •A single environment for requirements, project, workflow, and reporting.
- Interactive visualization of model and results with JT





Commun

Ma

the Enterprise

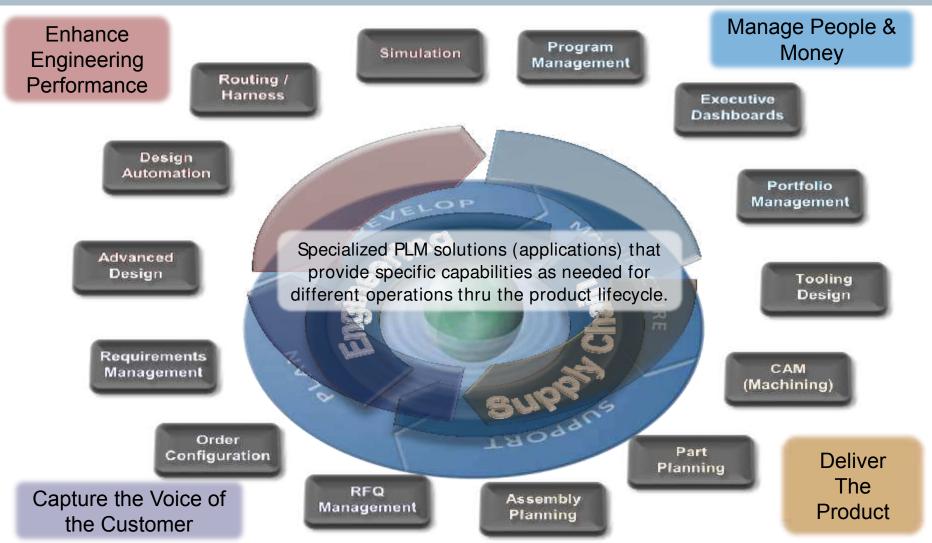
Visualization

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Optimize the Business



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Optimize the Business

Perform

Order Configuration

ETO addresses the challenge with a comprehensive solution spanning sales, engineering and manufacturing. By capturing process knowledge and using it to automate key business processes across the enterprise.

Sales quotation benefits

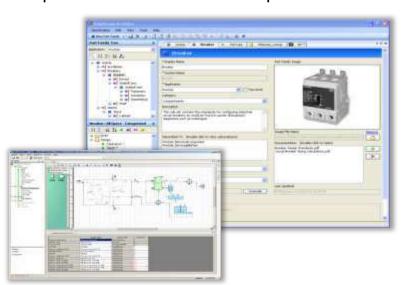
- · Increased bid rate
- Increased win rate
- Margin security

Order engineering benefits

- · Shorter lead times
- Increased productivity
- Fewer errors

Order manufacturing benefits

- Fewer work stoppages
- Greater asset utilization
- More throughput



Capture the Voice of the Customer

RFQ Management

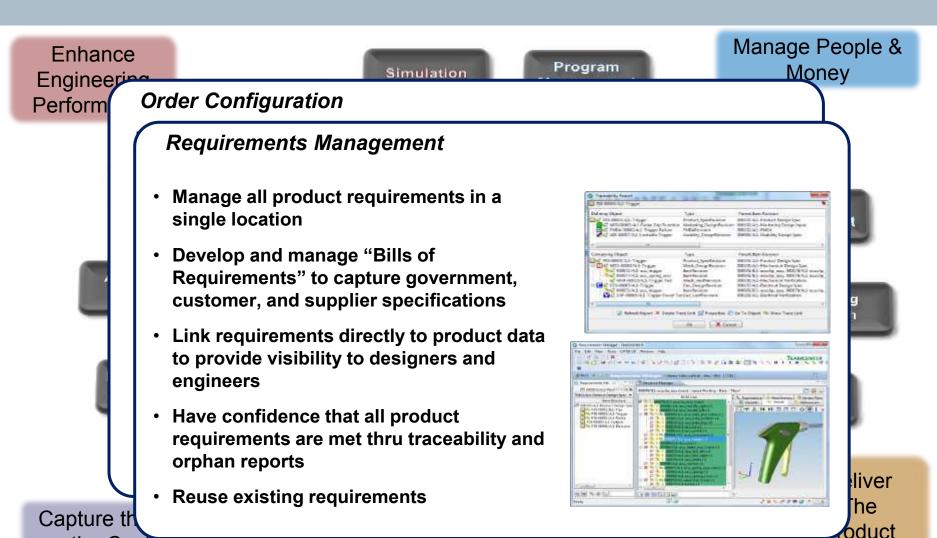
Assembly Planning Deliver The Product

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Optimize the Business



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the Customer

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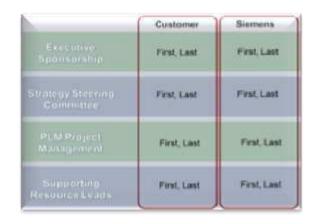


Components for a successful implementation



Align People, Process and Technology to ensure good communication and integration of business needs with PLM best practices.

Establish partnership relationships with defined roles and responsibilities to manage the PLM implementation.

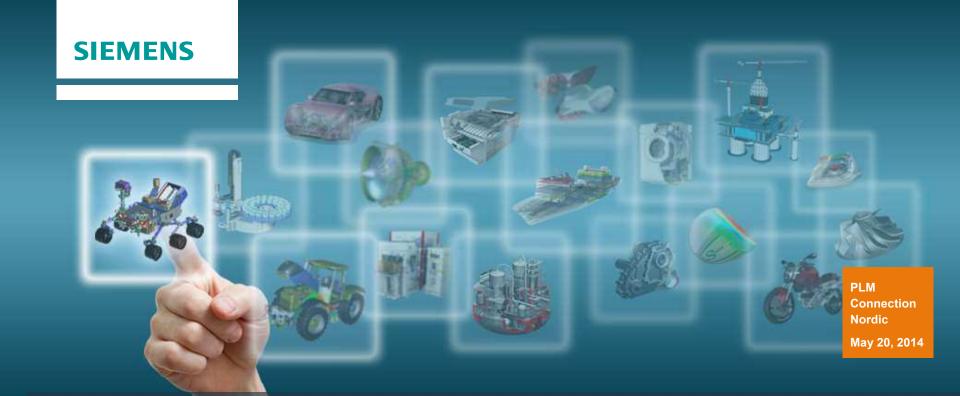




Develop a well defined project plan with target milestones so that everyone is working to the same objectives.

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Thank You