

Siemens Industry Software

The background of the slide is a composite image. On the left, there is a close-up of a large industrial crane or lifting mechanism. On the right, there is an offshore oil or gas platform. A large, semi-transparent blue gear is overlaid in the center, partially covering the crane and the platform. The overall color scheme is dominated by blues and greys, with some yellow highlights from the platform's structure.

Answers for industry.

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Siemens - Integrated Technology Company



71,000 customers and 7M lics

Aerospace & Defense



Automotive & Transportation



Machinery & Industrial Equipment



Energy & Utilities

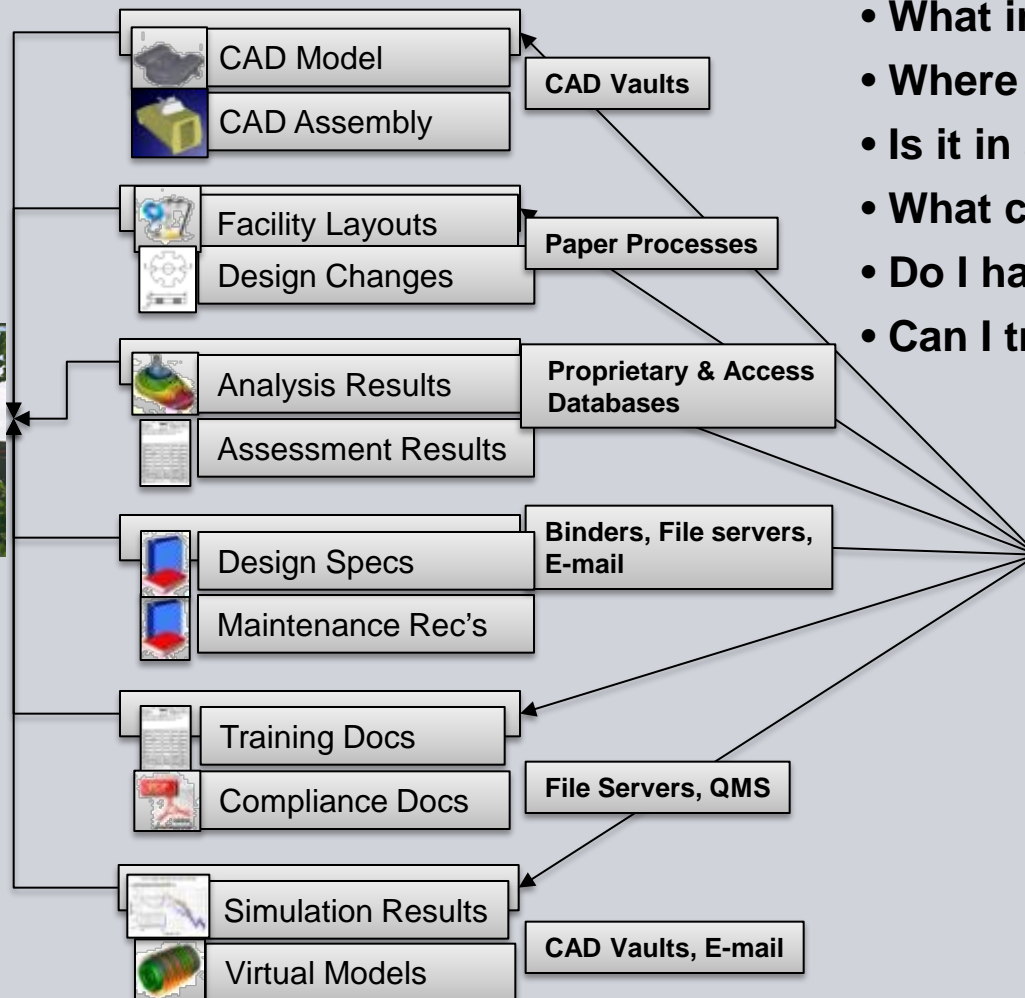


Shipbuilding, Energy CPG & Life Sciences



10,700 Academic Partners... training over 1 million students per year

Dispersed Data and Knowledge



- What information do I need?
- Where is the information?
- Is it in a usable format?
- What can I reuse?
- Do I have the correct version?
- Can I track the changes?



Siemens PLM Energy and Utilities Customers

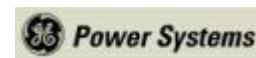
OIL AND GAS



GE
Oil & Gas



POWER GENERATION



UTILITIES AND INFRASTRUCTURE



ENGINEERING AND CONSTRUCTION

























Unified Platform Enabling *Digital Lifecycle Management*

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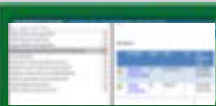
Unified Platform Enabling *Digital Lifecycle Management*

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	 Bidding and Requirements Management	 Project Management	 Hybrid Design & CAD Mgmt (3D, 2D, P&ID)	 Fabrication and Manufacturing	 Virtual Commissioning	 Maintenance and Operations
Owner / Operator						
EPC						
Equipment Manufacturer						

Unified Platform Enabling *Digital Lifecycle Management*

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Bidding and
Requirements
Management



Project
Management



Hybrid Design
& CAD Mgmt
(3D, 2D, P&ID)



Fabrication
and
Manufacturing



Virtual
Commissioning



Maintenance
and
Operations

Owner /
Operator

EPC

Equipment
Manufacturer

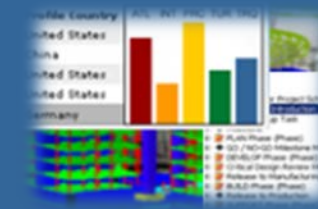
Requirements
and Planning



Hybrid Design



Fabricate and
Construct



Operate and
Maintain

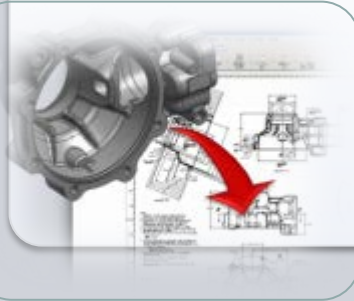


Planning & Requirements Management

Ensuring Strategic Planning and Execution Alignment

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Capital Project Planning



Manage a global portfolio of project and assets. Build Net Present Value calculations



Requirements Management

Full requirements and specifications traceability to ensure licensing and building compliance

Compliance Management



Documents and records management for full compliance audits



Hybrid Design

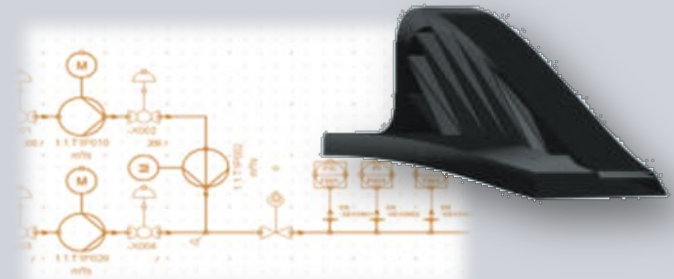
Delivers Cross Discipline Collaboration & Process Automation

SIEMENS

Multi-CAD Management

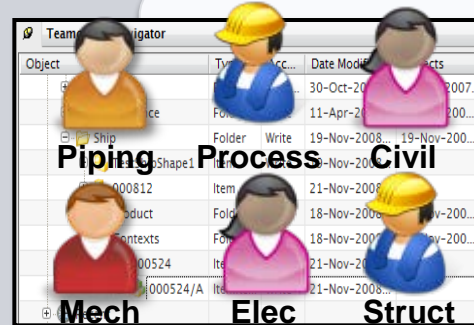


Teamcenter provides unmatched experience in data management for MCAD, ECAD, Process, P&ID, Civil



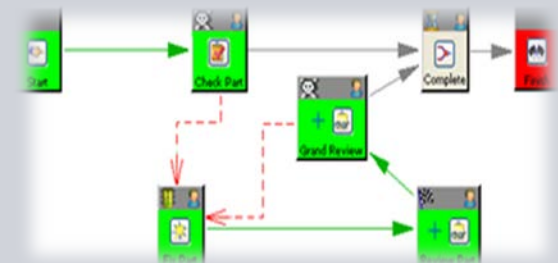
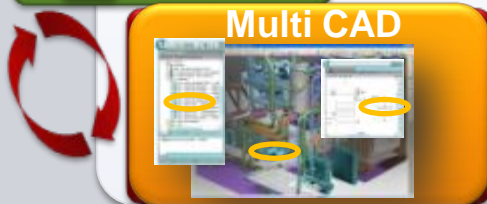
Cross discipline collaboration

Cross discipline design collaboration with Civil, Structural, Mechanical and Process Engineering



Integrated process automation

Process automation for configuration, check-in/out, where-used, where-referenced across disciplines



Fabrication and Construction

Highly Automated and Integrated

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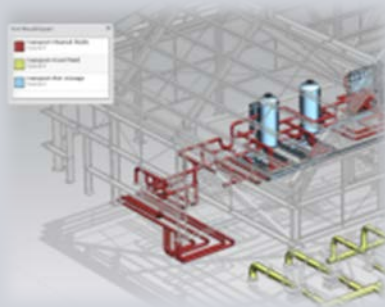
Digital Design & Manufacturing



Accelerate manufacturing and fabrication with totally integrated and automated process optimization and simulation



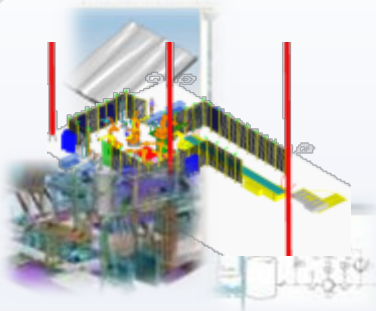
Integrated Project Execution



Object	Type	Acc...	Date Modified	Projects
Ship	Folder	Write	30-Oct-2007...	
Process	Folder	Write	11-Apr-200...	
Civil	Folder	Write	19-Nov-2008...	19-Nov-200...
Mech	Item		21-Nov-2008...	
Elec	Folder		18-Nov-2008...	
Struct	Folder		18-Nov-2008...	
	Item		21-Nov-2008...	
	Item		21-Nov-2008...	

Cross discipline collaboration with Civil, Structural, Mechanical and Process Engineering for project execution

Virtual Commissioning



3D environment for pre-job briefing, virtual assessments and compliance to requirements and audit trail

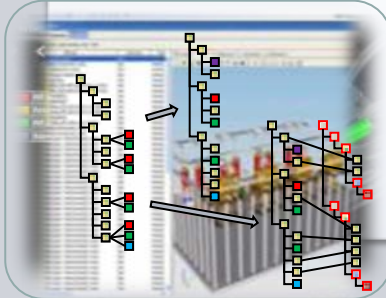


Operate and Maintain

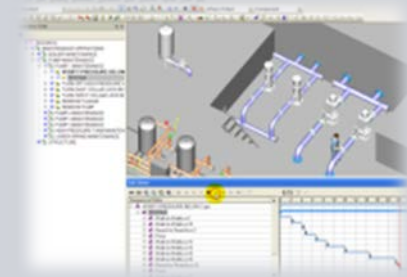
Extending and leveraging Asset Lifecycle Management

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Asset Configuration Mgmt



As-Designed, As-Built, As-Maintained structure management for licensing, maintenance and compliance



Maintenance Planning & Exec.



Cross discipline collaboration for MRO on assets driven from the asset driven from configuration vs. task based

Virtual Training



Comprehend the big picture with 3D presentation and immersive technology of digital data for operations, safety and compliance training



Conclusions



Manage accurately Licensing, Permitting, Codes and Customer Specifications with Requirements Management



Enable integrated project development with process automation



Accelerate and automate fabrication and manufacturing with digital manufacturing



Optimize handover using virtual commissioning via virtual walkthroughs and virtual manuals



Reduce maintenance and repair costs with configuration management of assets throughout the entire lifecycle

Thank You!

