

2015 China ZEN 西门子 PLM 软件大中华区 2015 年度技术培训会议

Industry Catalyst

Li Zhiming

Siemens PLM Software





Realize Innovation.

Agenda



- Catalyst Overview
- Industry Pillars

 Functional Safety Catalyst for ISO 26262 Compliance

Restricted © Siemens AG 2015Page 220XX-XX-XX

Siemens PLM Software

Agenda



Catalyst Overview

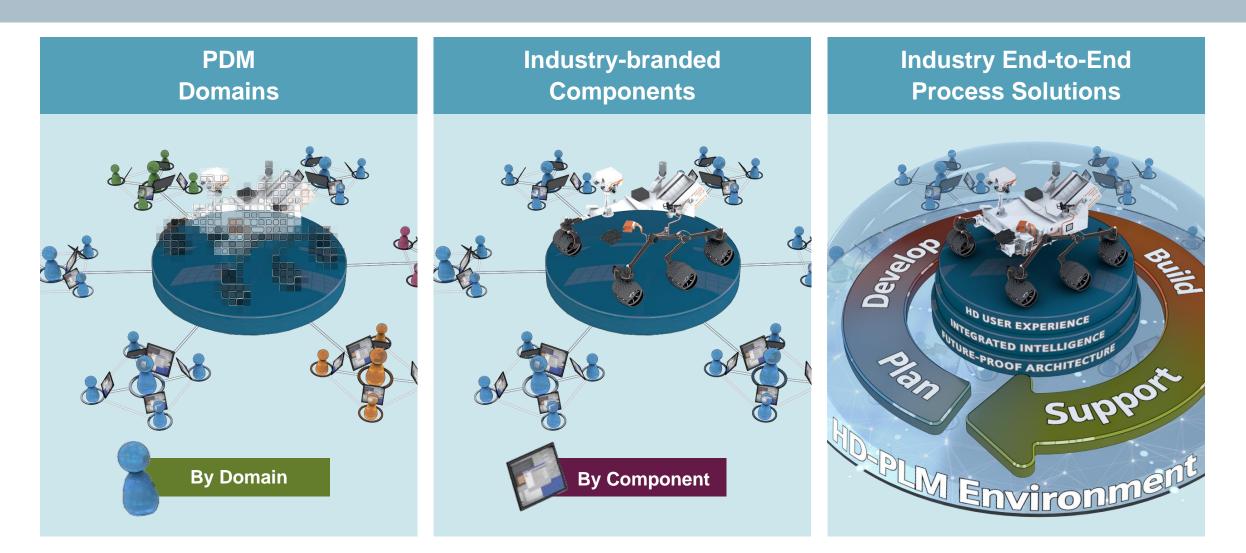
• Industry Pillars

 Functional Safety Catalyst for ISO 26262 Compliance

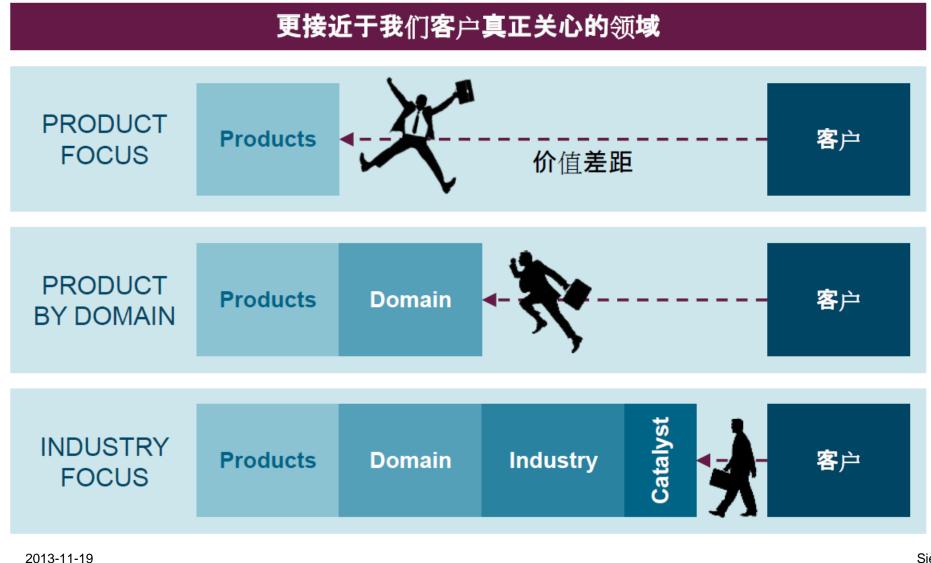
Restricted © Siemens AG 2015Page 320XX-XX-XX

Siemens PLM Software

Three views of how to deliver PLM to specific industries



为什么走行业路线的市场策略非常关键...



Siemens PLM Software

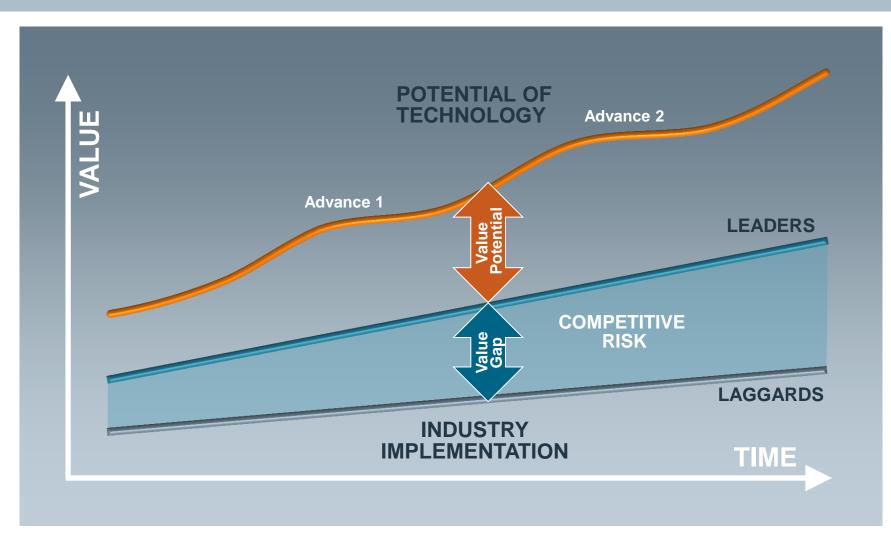
Page 5

Restricted © Sie

Industry End-to-end Process Solutions Eight Focus Industry Sectors

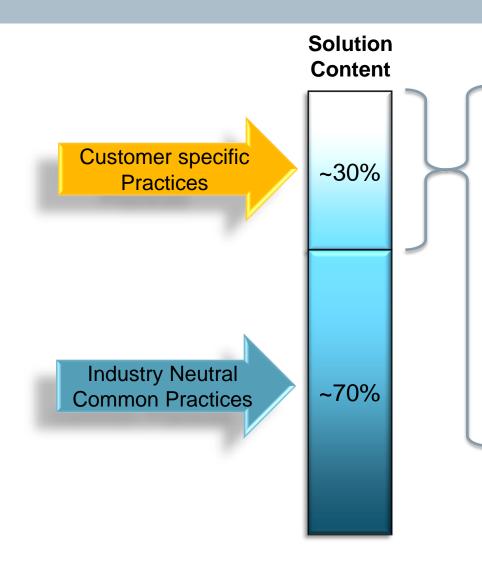


Industry PLM实施现状



Restricted © Siemens AG 2013 All rights reserved.

Current PLM Industry Situation



Typical PLM Deployments

- Lengthy definition phases
- Business processes not aligned with "Best Practices"
- System configuration required
- Customer acceptance testing
- Customizations prevent timely upgrades
- Some customers locked into old versions

发布Industry Catalyst系列

Industry Catalyst可以加速特定行业 CATALYST 实施中的价值回报,同时又能提供一个 快速适应未来技术发展的环境.

Restricted © Siemens AG 2013 All rights reserved.

Industry Catalyst的构成元素

Industry Best Practices 详细的指南,可以优化关键的行业过程

Deployment Accelerators

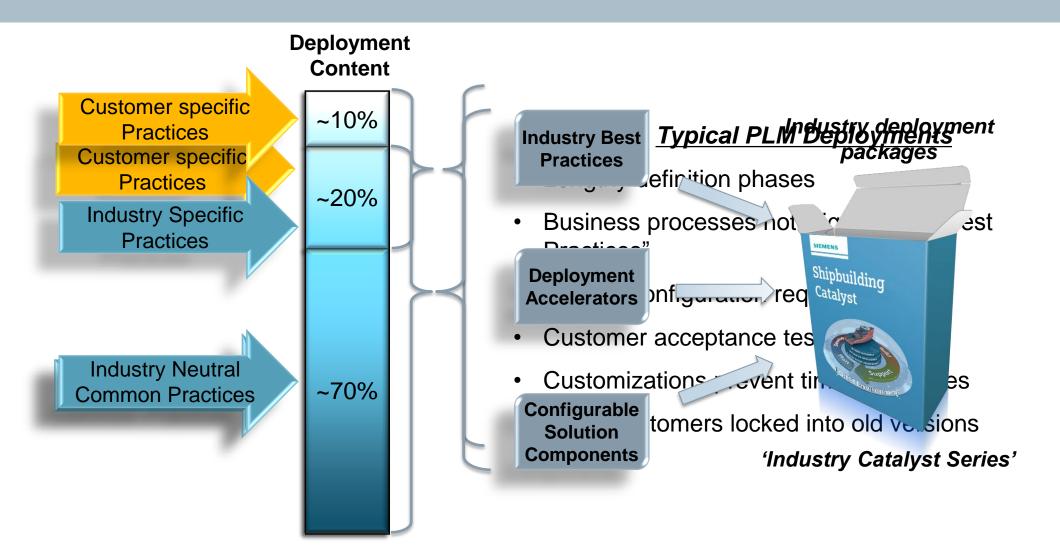
经过证明的行业实施步骤,提高PLM运营效率

Configurable Solution Components 无需编程、通过配置方法,定制客户的PLM系 统的行为

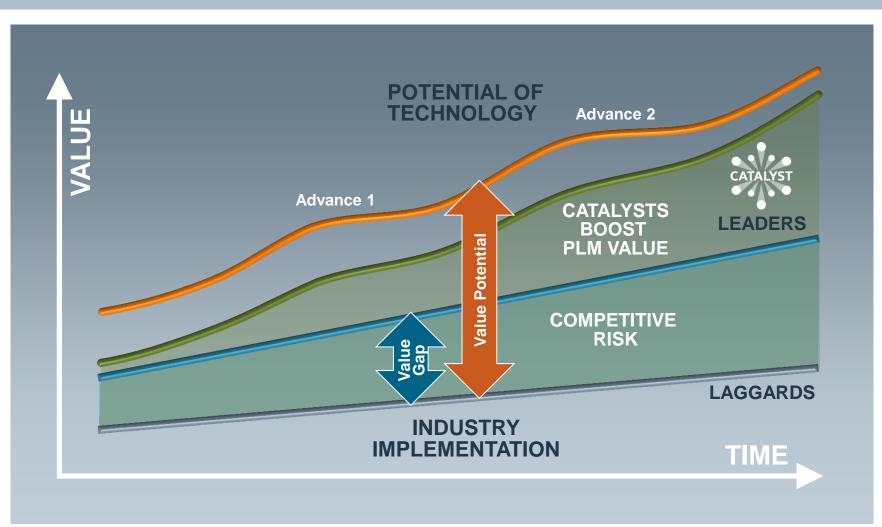




Industry Catalyst 目标



Industry Catalyst 系列 更快地发挥PLM的潜力



■ 简**化部署, 快速交付**业务**价** 值

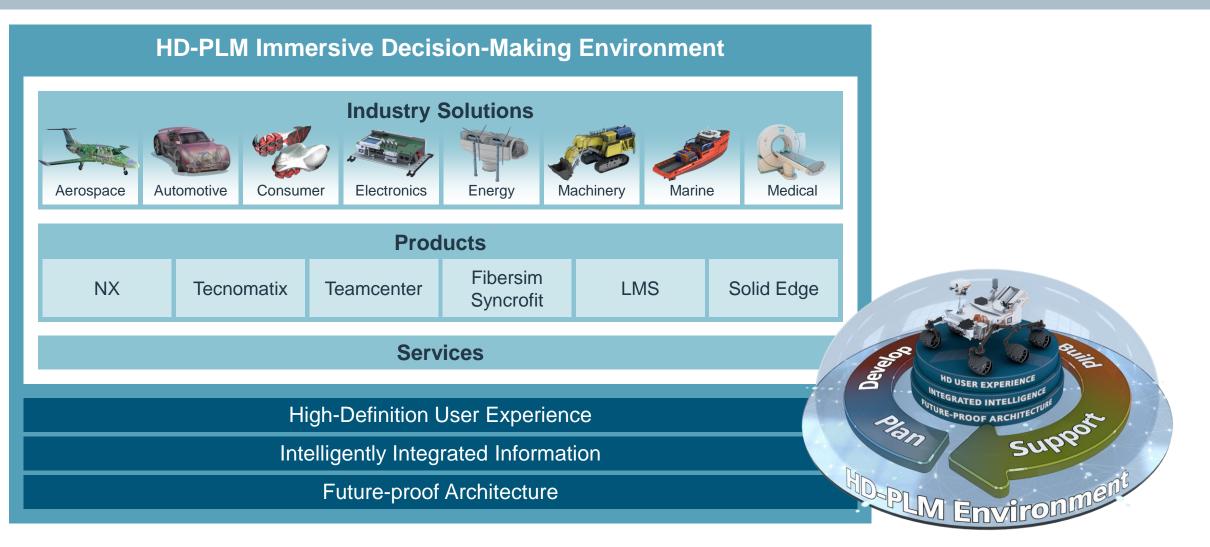
SIEMENS

- 基于预配置的解决方案组件,
 利用行业最佳实践
- 降低部署的成本和时间(节 省~30%的成本和实践)
- 避免了不能适应未来新技术
 的陷阱

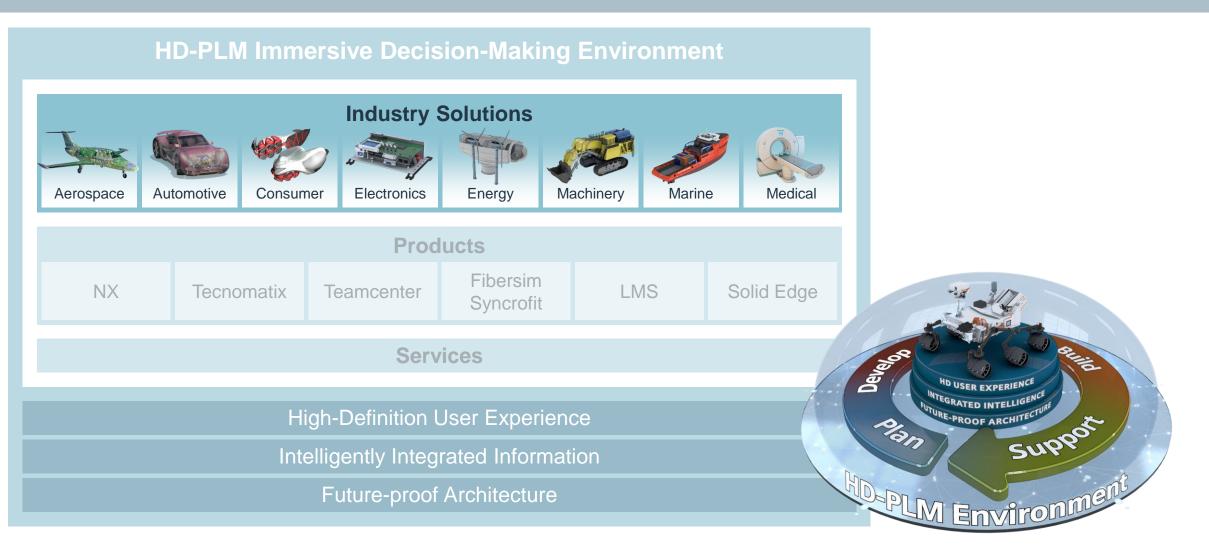
Restricted © Siemens AG 2013 All rights reserved.

Page 12 2013-11-19

HD-PLM Industry Solutions



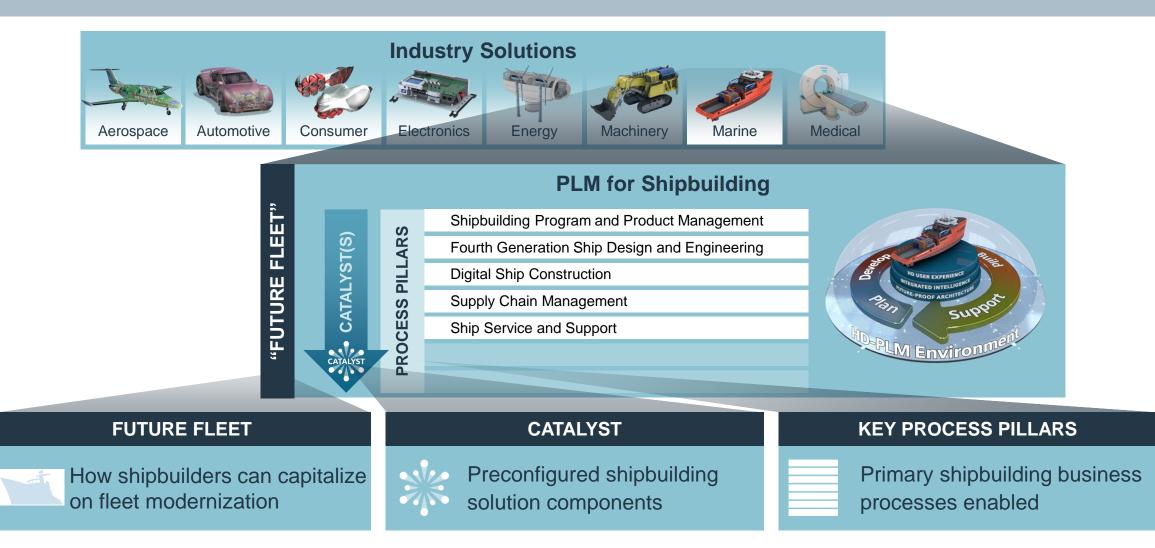
HD-PLM Industry Solutions



Restricted © Siemens AG 2013 All rights reserved.

Page 14 2013-11-19

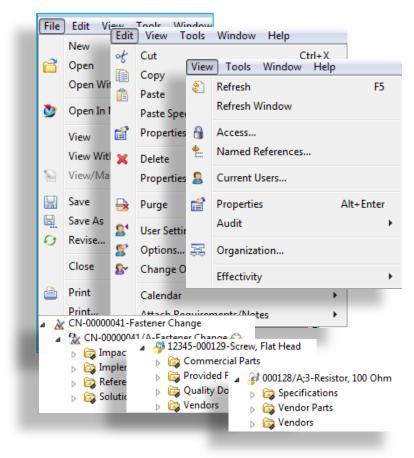
Industry Solution Components



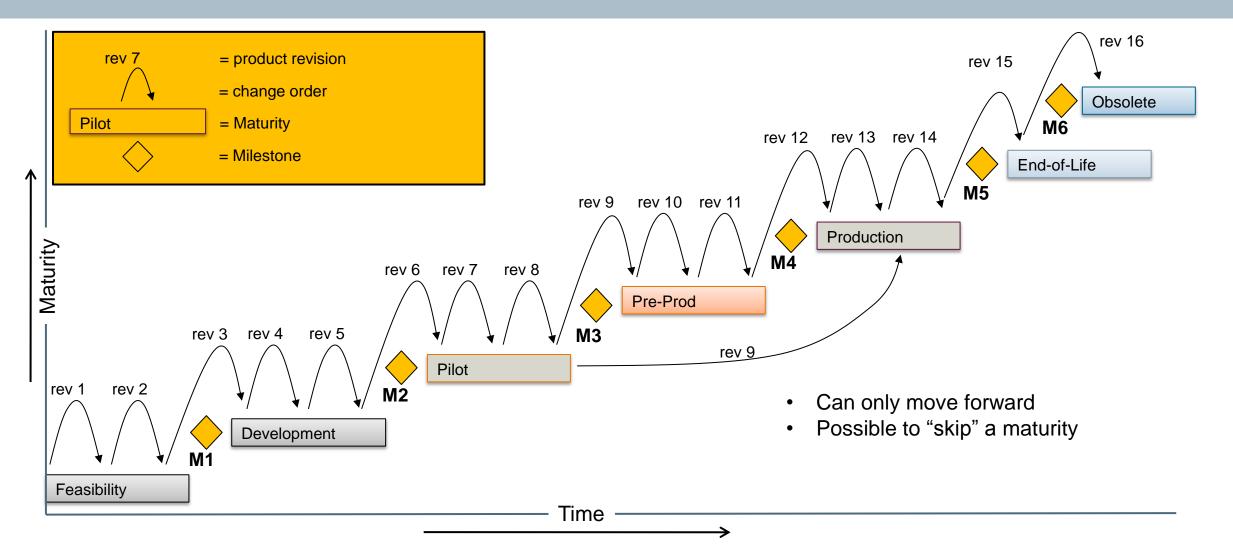
Industry Catalyst Electronics and Semiconductor Example

Siemens PLM Software的电子和半导体行业 Catalyst提供了一个<u>预配置的</u>行业最佳实践的集合, 能够快速地部署.

- 第一个版本的Catalyst主要解决了下列业务过程领域:
- Type extensions for Parts, Docs, Change
- Enhanced UI (Stylesheets, Command suppression, Display Rules & Hidden Perspectives)
- Product 'Maturity Progression' model
- Pre-configured part & BOM life cycle workflow
- Pre-configured Change life cycle workflow (PR, ECR, ECN)
- Enhanced change management usability



Product 'Maturity Progression' model ... Adopt Common Practices ...



Restricted © Siemens AG 2013 All rights reserved.

Page 17 2013-11-19

E&S Look & Feel ...

Owner:	Last Modified Date:				Type: Design Revision		á ^l	🗢 👉 🚖 🔩 🦊 🦛 🔿 Sen	id To 🔻 🗟 🕶 🍼
		Released	ucture *) Vendor		Design Revision	Case Assemb			
Overview Attachments History Changes Where Used * Structure * V				view		Owner: Last M	Nodified Date: Release Status: II-2012 23:05 Released		Type: Design Revision
Name:	case_assy						(2) (20) (2)		
Description:	001389				, S	Overview Attachments Histor	Changes Where Used *	Structure * Vendor Parts	
Maturity Status:	Pre-Production				2	 Parent Assemblies 			
Release Status:	Released			6		Open Selected in Structure Man			
Date Released:	30-Jul-2012 23:05					Structure Manager	ager		
Effectivity:				1993					
Revision Effectivity				and a		001389/H;1-case_assy (View) - Latest Wor BOM Line	king - Date - "Now" 🛅 🏭 🐱	001389/I;1-case_assy (View) - Latest Workin BOM Line	ng - Date - "Now" 🛅 🖡 Item Rev Status
						001389/H;1-case_assy (View)	Approved H	001389/1;1-case_assy (View)	
Owner:	Ed Engineer (ed)					001352/C;1-a5e_frame_7207 x 2	Released C	001352/C;1-a5e_frame_7207 x 2	Released
Group ID:	🍇 <u>Demo</u>					001350/B;1-a5e_frame_7204 001363/B;1-a5e_outcase_7203	Released B Released B	001350/B;1-a5e_frame_7204	Released Released
ast Modifying User:	Ed Engineer (ed)					001351/B;1-a5e_frame_7205	Released B	001351/B;1-a5e_frame_7205	Released Released
Checked-Out:	<u> </u>		- Act	ions					neressed
Checked-Out By:	No Value		h <u>c</u>	ору					
				evise					
More Properties				ave As		001389/G;1-case	- /		_
Classification Prop	erties			IVE AS		Owner: Last	Modified Date: Release Status: ul-2012 23:05 Released		Type: Design Revision
Structure Manager 🗴								Church we William day Davida	
						History	ry Changes Where Used *	Structure Vendor Parts	
1389/L;2-case_assy (V	'iew) - Latest Working - Dat	e - "Now"							
BC	OM Line	Item Rev Status	Revision	Quantity	Maturity	Object	Maturity Status Release Status	Date Released Owner	
001389/L;2-case_ass	v (View)				Production	001389/J;1-case_assy	Pre-Production	🧟 Ed Engineer (e	
001415/D;1-a5e_		Released	D		Production	001389/I;1-case_assy	Pre-Production Pre-Production MApproved	S Ed Engineer (e 17-Aug-2012 07:23 S Ed Engineer (e	
		Released	с С	2	Production Pre-Production	🙀 001389/G;1-case_assy 🗱	Pre-Production 🖄 Released	30-Jul-2012 23:05 🙎 Ed Engineer (e	d)
				2		001389/F;1-case_assy 🗱		13-Jul-2012 22:56 S Ed Engineer (e 29-Jun-2012 22:47 S Ed Engineer (e	
1001350/C;1-a5e_		Released	C		Production	001389/E;1-case_assy	2 Name	29-Jun-2012 22:47 💆 Ed Engineer (e 21-Jun-2012 06:05 🙎 Ed Engineer (e	
001363/C;1-a5e_outcase_7203		Released	С		Production	💒 001389/C;1-case_assy 🗱	Feasibility 🗱 Released	21-Jun-2012 05:51 🧕 Ed Engineer (e	d)
		Released	С		Production	001389/B;1-case_assy 🗱		21-Jun-2012 05:19 S Ed Engineer (e 21-Jun-2012 05:19 S Ed Engineer (e	
		Released	A N	4	Production	and ourses, or cuse_assy par	incleased		.,

Catalyst comes from? E&S Catalyst Example



- Common Process and Practices Proven in Production (customers and other Siemens divisions)
- Solutions vetted by E&S Global Executive Council
- "Drink our own champagne"! Proven inside Siemens
- Capabilities Proven at Select Customers
- Architecture accepts components from 3rd parties

Industry Catalyst Series Consulting Partner Ecosystem for Industries

Atos

Deloitte.

Accenture - "The industry catalyst supports clients PLM implementations in the context of a business transformation and as a result realize greater business value and acceptance of the solution." Sarat Maitin

Deloitte - "Deloitte Consulting's strong industry aligned consulting practice and Siemens PLM Software's strategy will enable both parties to jointly deliver industry focused solutions that combine Deloitte Consulting's lean engineering processes with Siemens software innovation to achieve significant value for our clients." Brian Meeker

Atos - "With joint industry solutions from Siemens PLM Software and Atos like our new supplier collaboration solution we offer unparalleled value to the market, through consulting, software, integration options and flexible operating models perfectly tailored to meet client's business demands." Luca Benporath

Restricted © Siemens AG 2013 All rights reserved.





Industry Catalyst Series Summary



Catalyst Licensing

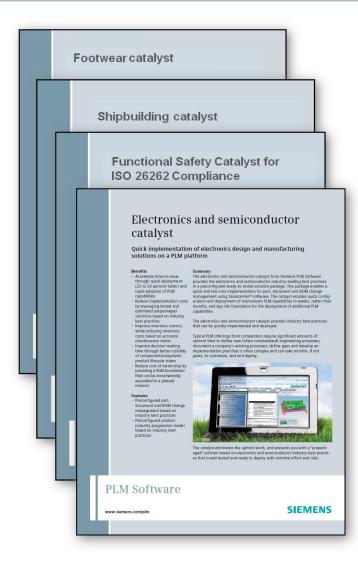
- 软件产品
- 服务器许可证费用和维护费用

Catalyst Delivery

- 通过GTAC下载和支持
- 在一个包中包括行业最佳实践,部署加速器和
 可配置的解决方案组件

Catalyst Availability Dates

- Automotive Functional Safety–Avail now
- Electronics & Semiconductor Avail now
- Shipbuilding Avail now
- Footwear January 2014



Industry Deliverables Industry Catalysts

SIEMENS



Industry Best Practices

Step-by-step guides for optimizing key industry processes

Deployment Accelerators

Proven industry implementation procedures to boost PLM performance

Configurable Solution Components

Configuration aids to personalize the behavior of your PLM system without custom programming



Page 22	2013-11-19

Automotive and Transportation Functional Safety Catalyst 	Aerospace and Defense • Verification Management Catalyst
Medical Devices and Pharmaceuticals Medical Device Catalyst 	Industrial Machinery and Heavy Equipment • Industrial Machinery Catalyst
Electronics and Semiconductor • Electronics and Semiconductor Catalyst	<u>Consumer Products and Retail</u> • Footwear Catalyst (Jan 2014) • CPG Catalyst
<u>Marine</u> • Shipbuilding Catalyst	Energy and Utilities Energy & Utilities Catalyst

Catalyst Q&A -1

- Do we have any customer/analysts who will contribute a quote?
- Are there any existing industry references or early adopters (comments on value in general)?

Working on that with the individual Bus Dev leads from Industry. Here is the one from BSH that I have out of a case study. They are not actually using the catalyst but they are totally endorsing the concept.

The choice of Siemens PLM Software as BSH's PLM partner is paying off in another important way – in reducing the total cost of PLM ownership. Realizing that building interfaces and custom coding add significantly to the cost of the PLM system, Siemens PLM Software has evolved its PLM solution to minimize these efforts. "We could not survive if we had to continue to customize the PLM system as much as we had been doing in the past," says Vasselak. "It's too expensive. The new approach taken by Siemens PLM Software allows us to configure the system to our needs instead of developing custom software. I expect to see a 25 to 35 percent reduction in PLM implementation and maintenance costs as a result."

Another way Siemens PLM Software technology reduces the total cost of PLM ownership is by offering a familiar user interface that simplifies learning and ease of use. "I believe we will be able to lower our total cost of ownership by reducing training costs," says Bronowski. "This is particularly important in our growth regions such as Asia and North America where we are employing many new people. It's critical to bring these people up to speed quickly and Siemens PLM Software has made this job easier by offering a user interface that's very much like Windows."

Siemens PLM Software product lifecycle management technology is the right choice for BSH's next-generation PLM system, from both the end-user and the management perspective, concludes Bronowski. "With end users, it doesn't matter how powerful a solution is. If they don't like it, they won't use it. Our end users are happy with software from Siemens PLM Software because it is fast, easy to use and it helps them achieve the ultimate goal of creating innovative products. For management, which is extremely cost-driven, user acceptance fand Siemens PLM Software's focus on lowering cost of ownership are exactly the things they want to see." Page 23 2013-11-19

Catalyst Q&A -2

- What's the business value to new customers and existing customers?
- Who is our "ideal" target in terms of selling the Catalyst initiatives... existing customers, new customers or both?

For new customers, in industries where PLM is a relatively new concept, the catalyst greatly reduces the alignment process that every PLM implementation team goes through. Deployment Accelerators that include recommended product selections, network design decisions, configuration procedures, best practices and training for deployment. Each industry solution has been developed in a real-world environment and thoroughly tested by a Siemens PLM industry team. New customers use these proven implementations to rapidly deploy Siemens PLM solutions in production with the assurance that they will perform, scale and upgrade as expected. This is the case with the Shipbuilding catalyst which will have elements that support the entire ship lifecycle.

For existing customers, in industries where PLM use is quite mature, the catalyst will rarely define an end to end product lifecycle process. Instead, the catalyst will focus more on new process areas that the industry is struggling with like functional safety and the implantation of an ISO standard across the industry.

 Can an existing customer that is using a customized implementation now implement a Catalyst and interoperate between the two?

Interoperation between dissimilar PLM environments has long been a viable solution for Teamcenter customers. Global multisite has been developed to specifically enable this type of heterogeneous communication. The industry catalysts are fully compatible with global multisite.

Page 24 2013-11-19

Do we sell this once and are done with it or is it some sort of subscription model to go with it including updates or roadmap with more content?

The Siemens Catalyst Series are products that in addition to the industry best practices do include developed code that does get installed at the customer's site. These products are licensed at the site level, and do have a server license fee as well as a maintenance fee. Their development is guided by an industry roadmap and managed by the Siemens Q-Gate process and their release is achieved through ALRT process. They will be supported by GTAC.

• What supporting (sales) material do we have?

Currently there is a full content bill of material for sales that accompany the industry catalysts. It currently includes a Fact Sheet, a Value Presentation, and an update to the Selling Essentials document for the industry.

Are there localization plans for the Catalyst initiative... and how will the countries be involved?

Each Industry Catalyst will be marketed as a part of its individual industry go-to-market plan. To the extent that an individual industry campaign includes program elements for awareness, demand generation or sales enablement the necessary content items will be created and made available for execution in the course of that campaigns execution. Localization will be available for any and content to support execution in the zones and will be funded by the Industries organization. This localization will follow the standard localization process of adoption by country and then executed in the content of one of the localization trains available throughout the 2014 fiscal year.

Page 25 2013-11-19

Catalyst Q&A -4

Catalyst is being billed as an "OOTB" objective; however, Teamcenter already has RapidStart. How do they differ?

The two have similar value propositions but the scale to which they target that value is where they differ. Teamcenter RapidStart is positioned as a low-risk, high-value, and industry neutral preconfigured PDM system based on proven product data management best practices. RapidStart boasts a two-week predefined deployment methodology delivering the basic functions of PDM – multi-CAD data management, document management, simple process management, preconfigured roles and functionality, CAD-neutral visualization, Microsoft integration – all delivered with the proven Teamcenter PLM platform.

Conversely, the industry catalysts are very specific to each industry and deliver deployment methodology well beyond the basic functions of PDM to the full product lifecycle. Siemens PLM's Catalyst series accelerate the time and value of each industry implementation while providing an environment for swift adoption of new technology. Each catalyst delivers:

Business Processes & Practices Model

Deployment Accelerators

Open and Configurable Industry Solution Components

Catalyst Q&A -5

How does Catalyst initiative relate to the AdvantEdge initiative?

AdvantEdge is a tool for managing our collective knowledge for how one might configure and deploy our technology. Generally these are a pretty specific, granular level for our services teams to consume. A Catalyst may consume the best practices found in AdvantEdge, when they meet the specific business process needs for that industry and when they are available. If nothing is available in AdvantEdge to address as specific process area, the capability developed for the Catalyst is consumed by AdvantEdge for use by others.

The Confirmation Components seem like a great idea. Do we have best practices defined and fleshed out per-industry? How do we know these are "best practices" versus what we "think" are best practices?

Yes we do have best practices defined in the areas we have developed Catalysts and End to End Solutions. This does not mean we have them detailed out into a complete set of business processes as there areas that we have decided not to pursue at that particular time. The last question is quite loaded in my opinion. I would basically respond and say, please define what you think is a "best practice", we can then define what we have relative to that. My general feeling is we have internal best practices based upon our customer/field experience, that we know will work for a customer.

Agenda



Catalyst Overview

Industry Pillars

 Functional Safety Catalyst for ISO 26262 Compliance

Restricted © Siemens AG 2015Page 2820XX-XX-XX

Siemens PLM Software

Industry Highlights Automotive and Transportation Pillars

SIEMENS



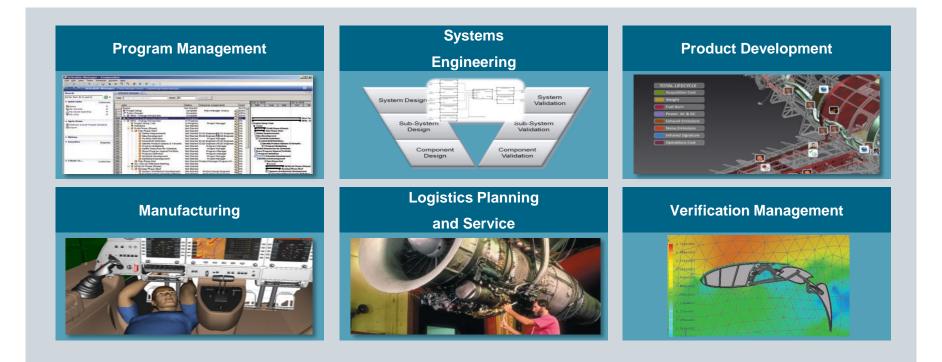
Industry Highlights Electronics and Semiconductor Pillars





Industry Highlights Aerospace and Defense Pillars





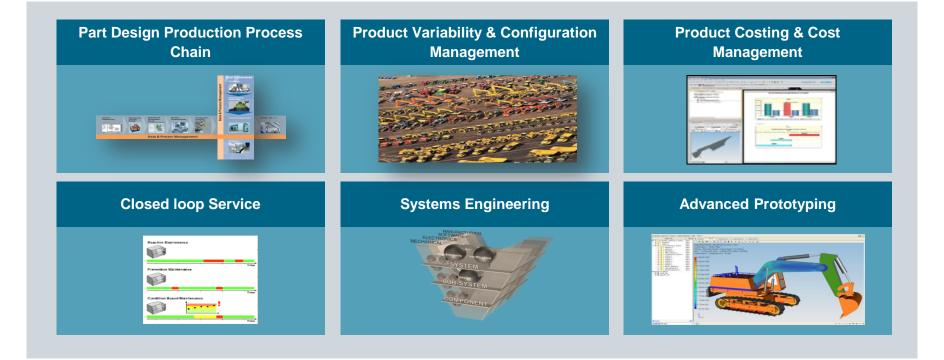
Industry Highlights Consumer Products & Retail Pillars





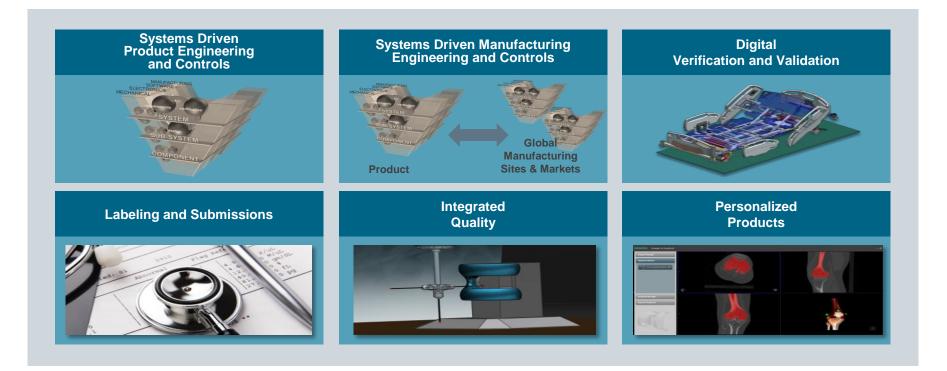
Industry Highlights Industrial Machinery and Heavy Equipment Pillars

SIEMENS



Industry Highlights Medical Devices and Pharmaceuticals Pillars

SIEMENS

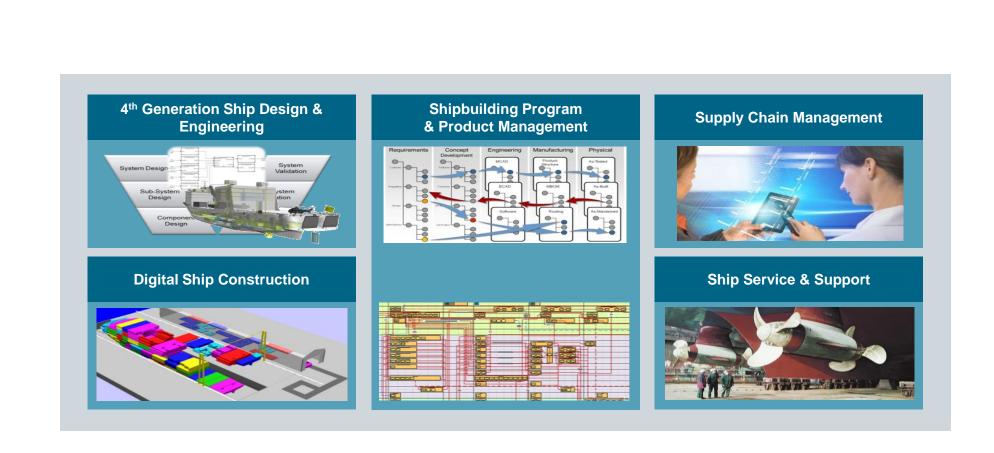


Industry Highlights Energy & Utilities Pillars

SIEMENS



Industry Highlights Marine Pillars



Agenda



- Catalyst Overview
- Industry Pillars

 Functional Safety Catalyst for ISO 26262 Compliance (TC030112 NU)

Restricted © Siemens AG 2015Page 3720XX-XX-XX

Siemens PLM Software



Thanks