insight to !nspiration

Nexplant
PLM

Accelerate your product development, with a smart and innovative solution.

Development time reduced

- Customer demands have grown more complicated and diverse
- Managers have poor visibility on the ongoing project
- Product info cannot be quickly retrieved or reused
- Inefficient offline product development projects exist

Product quality improved

- Customers expect high quality as regulations are tightened
- Manual-driven change management creates design/deployment errors
- Product development is not properly associated with quality control & production
- Product development know-how is hard to become an asset
- Growing collaborative outsourcing entails higher data leak threats

Development cost saved

- Higher customer demands and product spec changes raise development costs
- Hard to predict cost at the onset of product development cycle
- Similar product developments consume unnecessary resource/cost
- Lack of an objective KPI for projects evaluation

3D CAD Mobile Viewer

Nexplant PLM

What are the key success factors for product development innovation?

Leading companies with success stories are pushing the boundaries in a rapidly changing market environment through product development innovations. To accelerate the product's time to market and maximize its cost competitiveness, you need to satisfy the three key success factors below.

Reduce development time

01
- Real time project management
- System-driven decision making process
- Remove unnecessary projects and streamline them

Improve product quality

02
- Keep quality, development and production linked
- Well-thought out collaborative environment
- Build product development know-how into asset
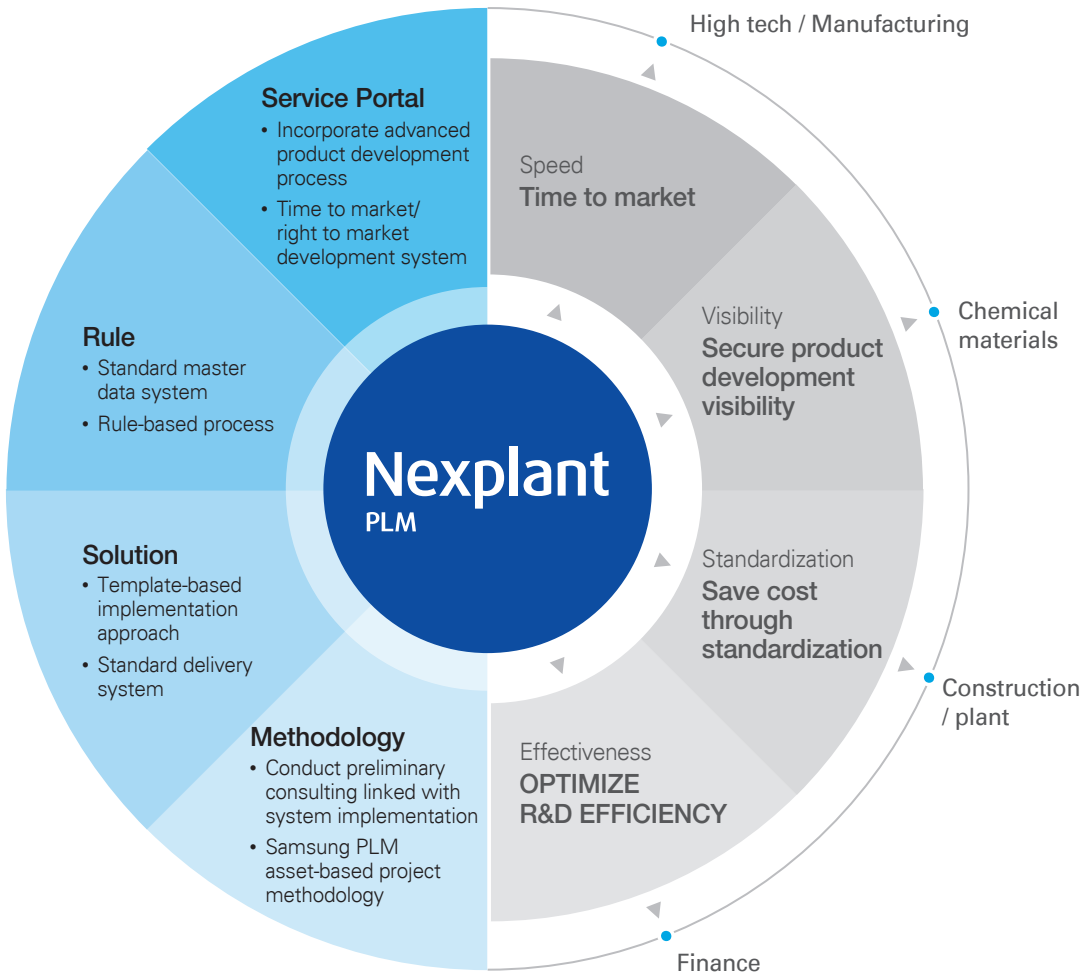
Save development cost

03
- Set up criteria for products/components
- Transparent cost control
- Establish a project evaluation framework

Nexplant PLM delivers smart innovation for your product development!

Nexplant PLM provides an optimal PLM experience that best serves the customer environment through a smart solution reflecting our long experience and knowhow in the PLM business.

High tech / Manufacturing

Service Portal
- Incorporate advanced product development process
- Time to market/ right to market development system

Rule
- Standard master data system
- Rule-based process

Solution
- Template-based implementation approach
- Standard delivery system

Methodology
- Conduct preliminary consulting linked with system implementation
- Samsung PLM asset-based project methodology

Nexplant PLM

Speed
Time to market

Visibility
Secure product development visibility

Standardization
Save cost through standardization

Effectiveness
OPTIMIZE R&D EFFICIENCY

Chemical materials

Construction / plant

Finance

Nexplant PLM Service

Based on advanced IT technology and differentiated industry expertise, Nexplant PLM Consulting helps you define system requirements and standardize product development processes and master data
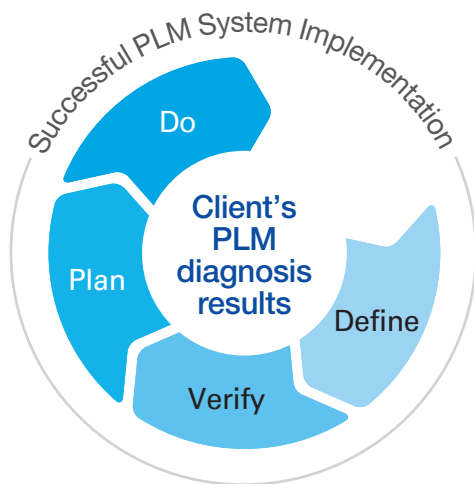
Nexplant PLM maximizes customer satisfaction by adopting an innovative PLM methodology proven in various industries and solution.

Process

PLM pre-diagnosis and roadmap building

- Diagnose and evaluate As-Is
- Prepare roadmap for actions

PLM system implementation planning

- Define PLM system requirements
- Establish PLM system implementation plan

Solution

System can be quickly implemented through a template-based customized service

Configure a solution module optimized for customer business.

Rule

Organize standard master data structure

- Standardize product master data
- Consistent master data provision structure

Organize standard process structure

- Standardize product development process
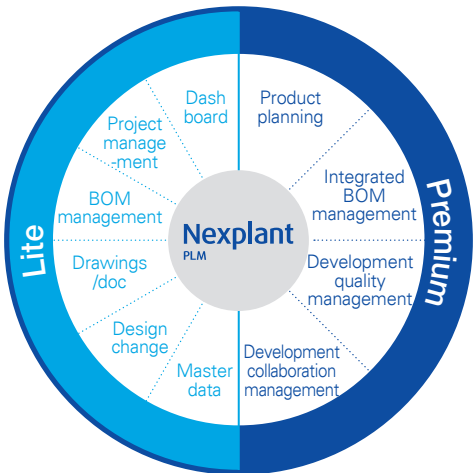- Upgrade a consistent process incorporating Best practice

Methodology

Provide an empirical methodology throughout the full scope from pre diagnosis to stabilization.

- Complete preparation for repository including project procedures as well as tools

Optimize PLM implementation by systematically reflecting 20 year's of knowhow.

- Contribute real customer value by proposing \ the implementation period and cost which best serve the customer needs.
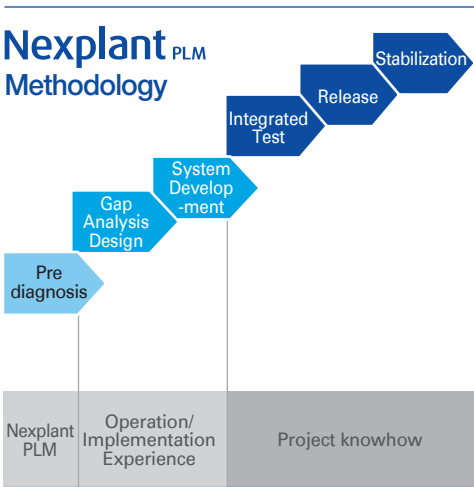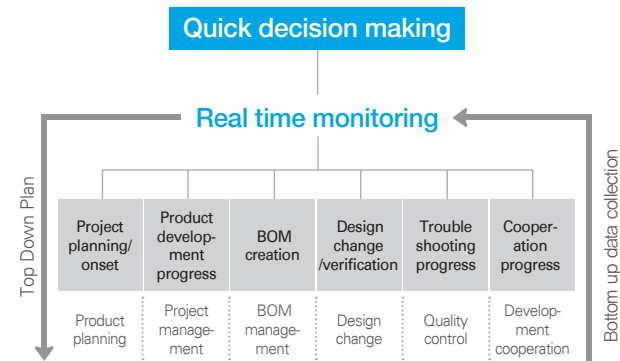
Nexplant PLM Lite

Nexplant PLM Lite enables rapid implementation of PDM-basedout of the box functions with minimized customization.
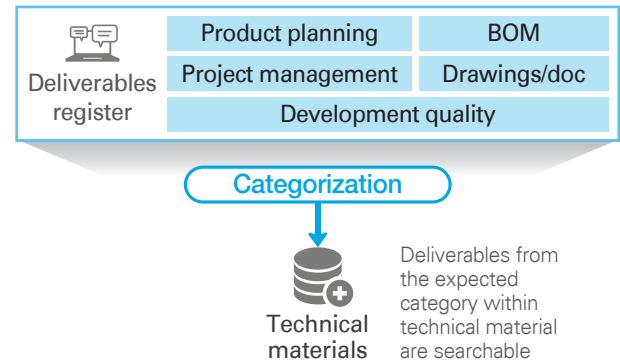
Project management

Monitoring ongoing projects supports better decision making for time to market.

Quick decision making

Real time monitoring

Top Down Plan	Project planning/ onset	Product develop- ment progress	BOM creation	Design change /verification	Trouble shooting progress	Cooper- ation progress	Bottom up data collection
	Product planning	Project manage- ment	BOM manage- ment	Design change	Quality control	Develop- ment cooperation	

Drawing/document management

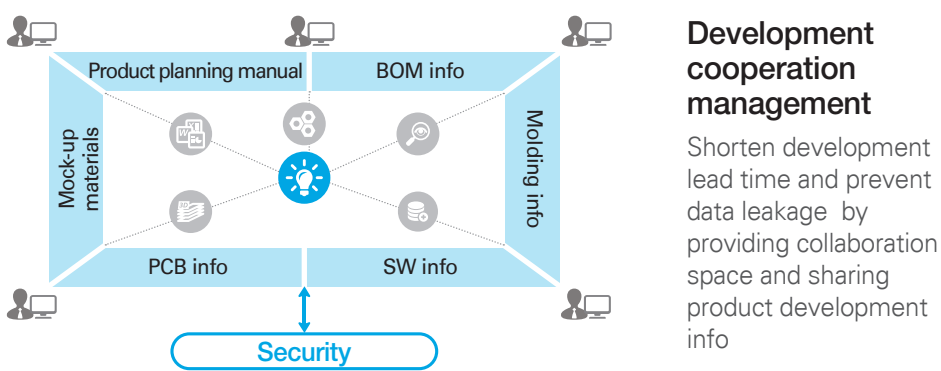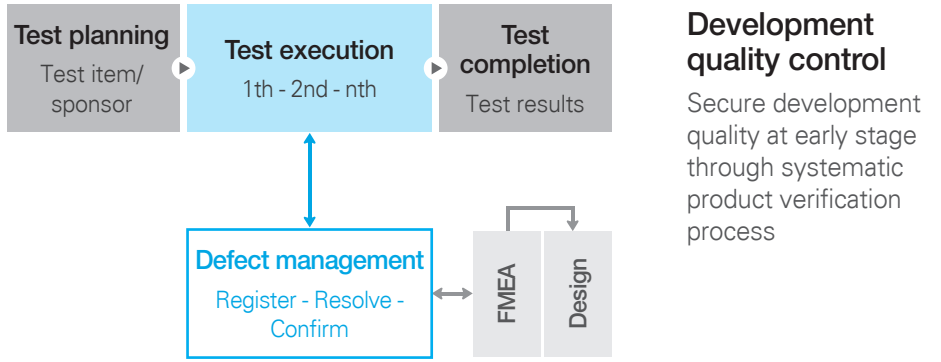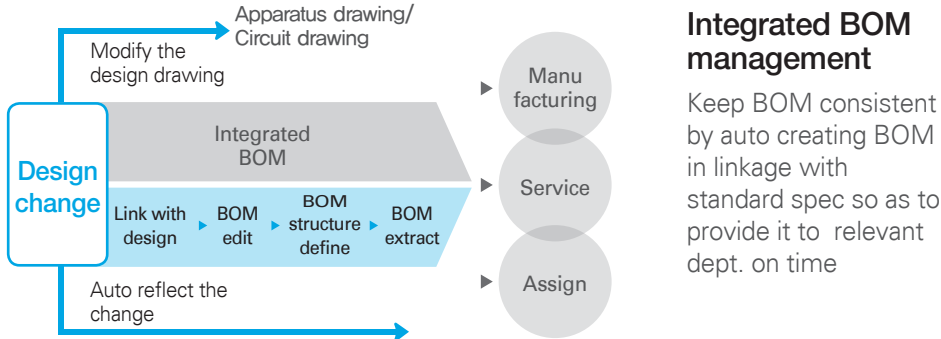Drawings and documents are managed and shared systematically throughout the entire product development cycle.

Deliverables register	Product planning	BOM
	Project management	Drawings/doc
	Development quality	

Categorization

Technical materials — Deliverables from the expected category within technical material are searchable

Master data management

Consistent master data that fit for the purpose of various fields are available

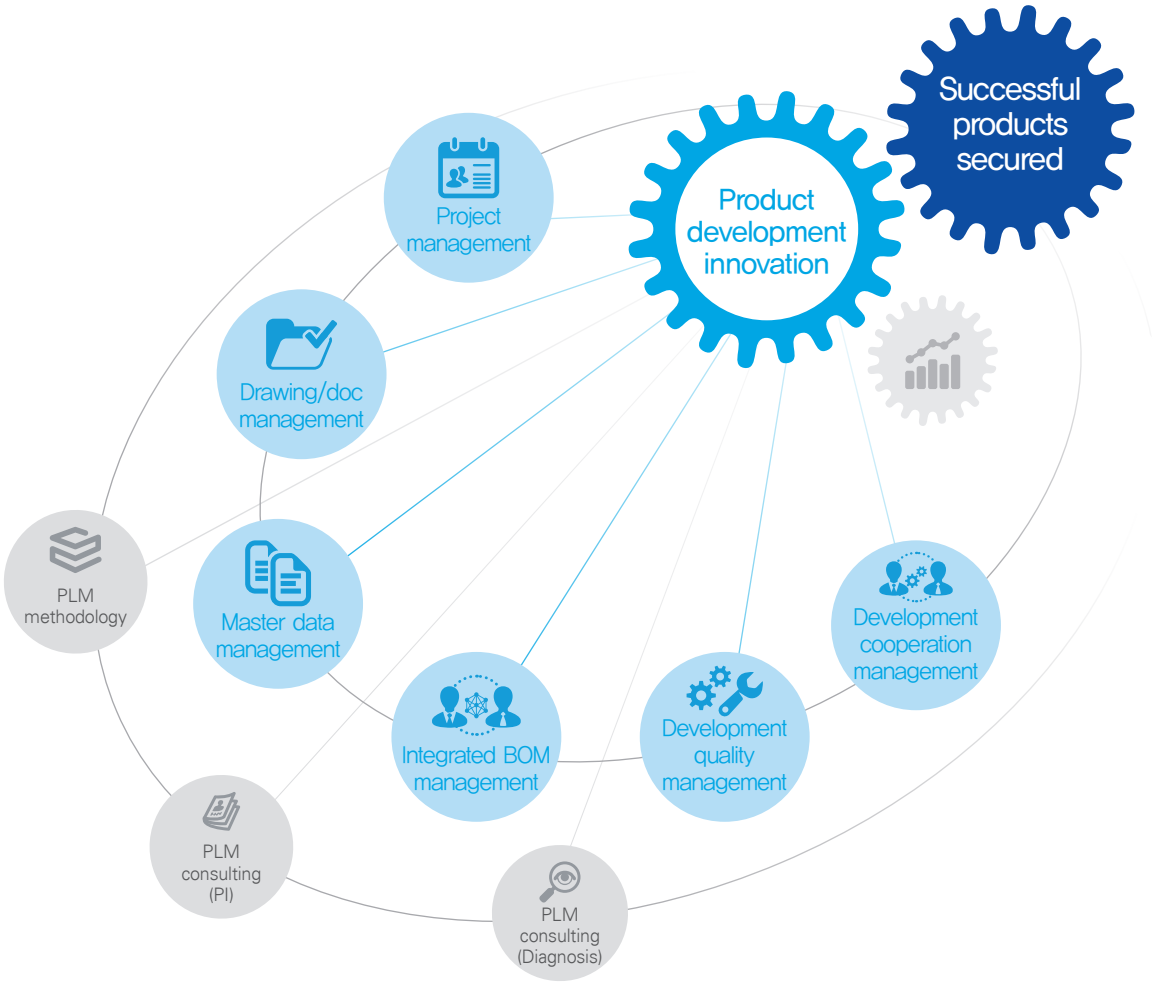|	Master data	Standardi- zation	Master data operation principle
Entire master	Component info	Classification	1 Master data quality control
	Spec info		2 Integrated management
	System info	Attributes	3 Duplicated code prevention
	Product code		4 Discontinuance management
Module master	Company info	Identification	5 Code cost reduction
	BOM		6 Grade management
	Change info	Notation	7 Code linkage/ Integrated management
	Auto-classify	1spec 1code operation	
	Project info		

Nexplant PLM Premium

Nexplant PLM Premium provides PLM-based enhancement functions specialized for each customer through customization.

Center diagram

Nexplant PLM

Lite: Project management, BOM management, Drawings/doc, Design change, Master data

Premium: Dash board, Product planning, Integrated BOM management, Development quality management, Development cooperation management

Integrated BOM management

Modify the design drawing → Apparatus drawing/ Circuit drawing

Design change — Integrated BOM — Link with design → BOM edit → BOM structure define → BOM extract

Auto reflect the change

Manu facturing / Service / Assign

Keep BOM consistent by auto creating BOM in linkage with standard spec so as to provide it to relevant dept. on time

Development quality control

Test planning Test item/ sponsor	Test execution 1th - 2nd - nth	Test completion Test results

Defect management
Register - Resolve - Confirm

FMEA / Design

Secure development quality at early stage through systematic product verification process

Development cooperation management

Mock-up materials

Product planning manual	BOM info
PCB info	SW info

Molding info

Security

Shorten development lead time and prevent data leakage by providing collaboration space and sharing product development info

Success Story

Over more than 20 years, Samsung has achieved continuous improvement in product development by utilizing PLM.

	Activities	Achievement
Company A Global High-Tech Manufacturer	Strengthen development management and inter-department collaboration	On-time delivery achieved by 94%
	Organize development resources management structure	Reduce development cost by simplifying business
	Integrate the overall processes and systems	Support quick decision making driven by data
Company C Eco-friendly energy solution company	Visualize overall project status and performance	Prevent delay in new product release/sales
	Strengthen proactive issue management	Increase in successful products of development/sales after accepting order
	Make the system more efficient and improve infra	Deliver user-oriented integrated system

Samsung PLM implementation by client

○ PDM introduction ○ PDM spreading ○ PDM advancement ◉ PLM application

Company A
- PDM introduction — Product info management
- Collaborative development introduction
- PDM spread — Global project management
- PDM advancement — BOM management
- PLM application — Product lifecycle management

Company B: 2000 | 2004 | 2007 | 2013

Company C: 2001 | 2004 | 2007 | 2014

Company D: 2000 | 2004 | 2008 | 2012

Company E: 2001 | 2004 | 2007 | 2014

2000   2005   2010   2015

Product development innovation

Successful products secured

- Project management
- Drawing/doc management
- Master data management
- Integrated BOM management
- Development quality management
- Development cooperation management
- PLM methodology
- PLM consulting (PI)
- PLM consulting (Diagnosis)

Samsung SDS provides the best-in-breed PLM system powered by an innovative solution leveraging our deep experience and knowhow in the PLM industry.

Our smart product lifecycle management accelerates resolution to various product development problems by understanding customer needs.

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