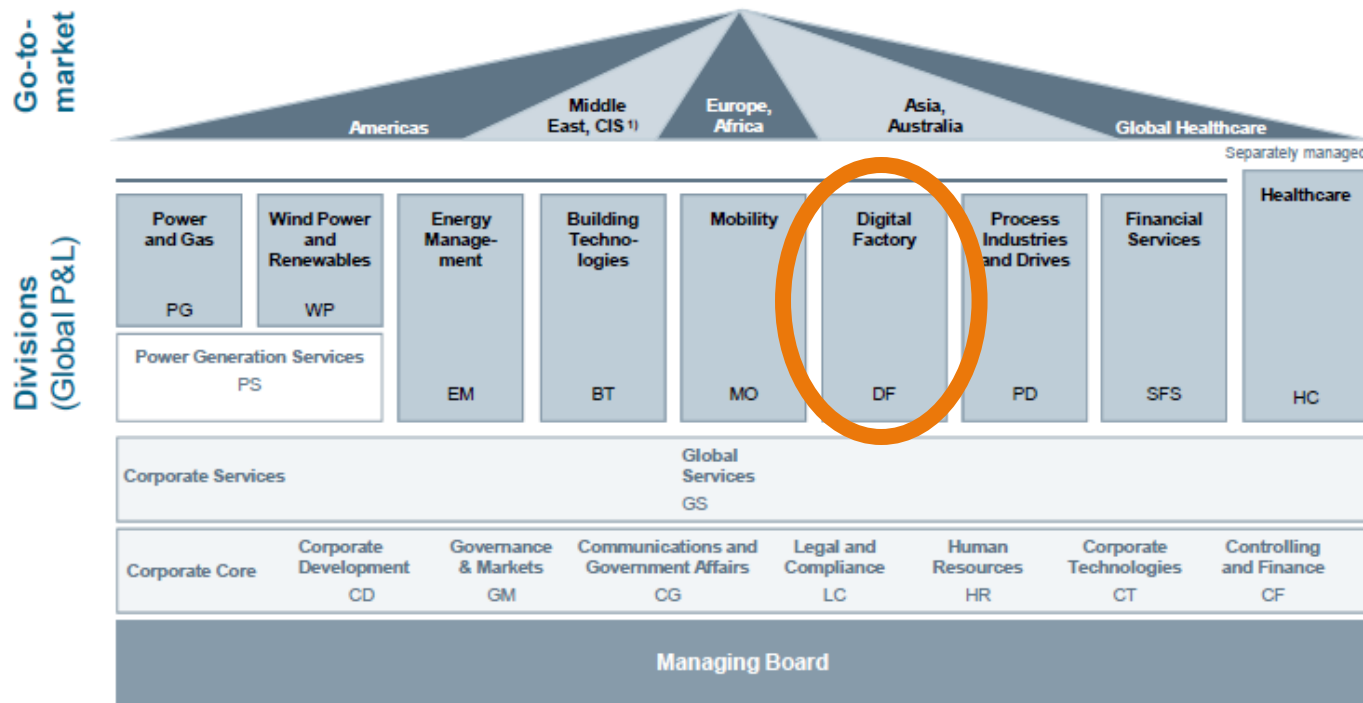


**SIEMENS**  
*Ingenuity for life*



**Siemens Industry Software**

# Siemens – Company Structure

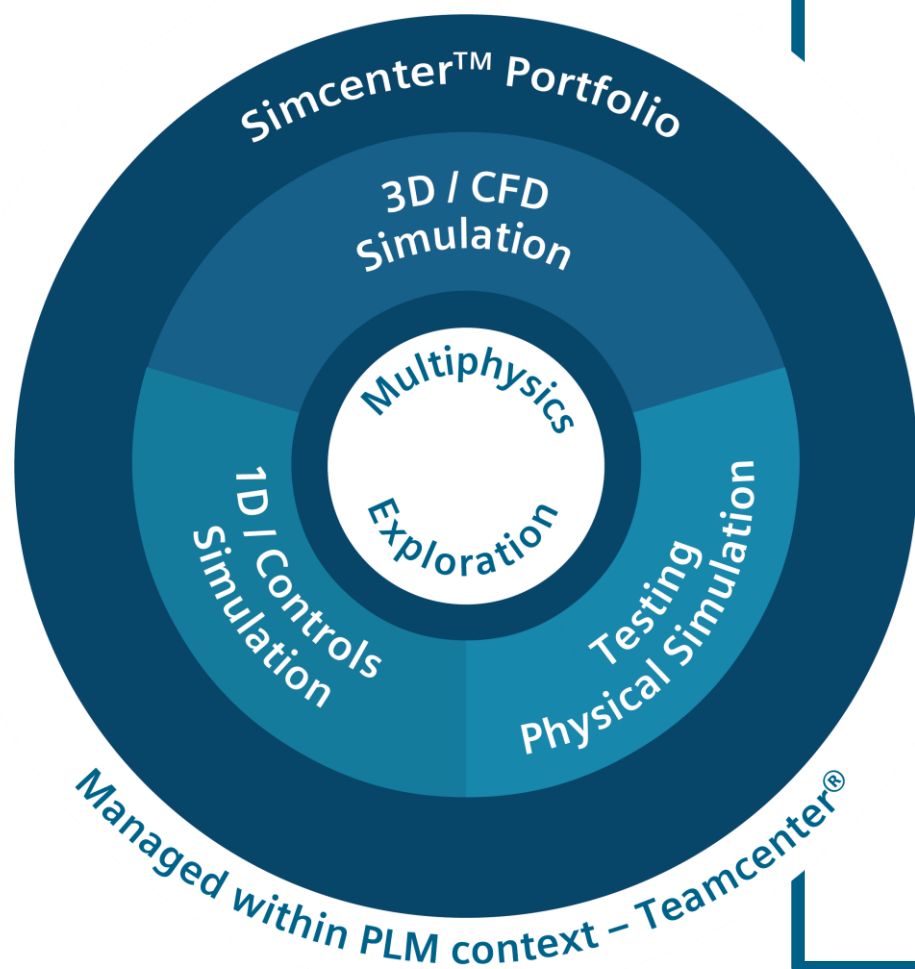


## Siemens PLM Software

DF	Digital Factory
DF FA	Factory Automation
DF MC	Motion Control
DF CP	Control Products
DF PL	Product Lifecycle Management
DF EC	Energy Control Systems
DF CS	Customer Services DF&PD

**77,000**  
Customers

**9,000,000**  
Licensed Seats



# Simcenter™

# Motivation

## Market situation and customer expectations

### Technology shifts

Integrate advanced technologies to fit stringent regulation and market expectations

## Attributes

Performance



Pollutant Emissions



Fuel Consumption



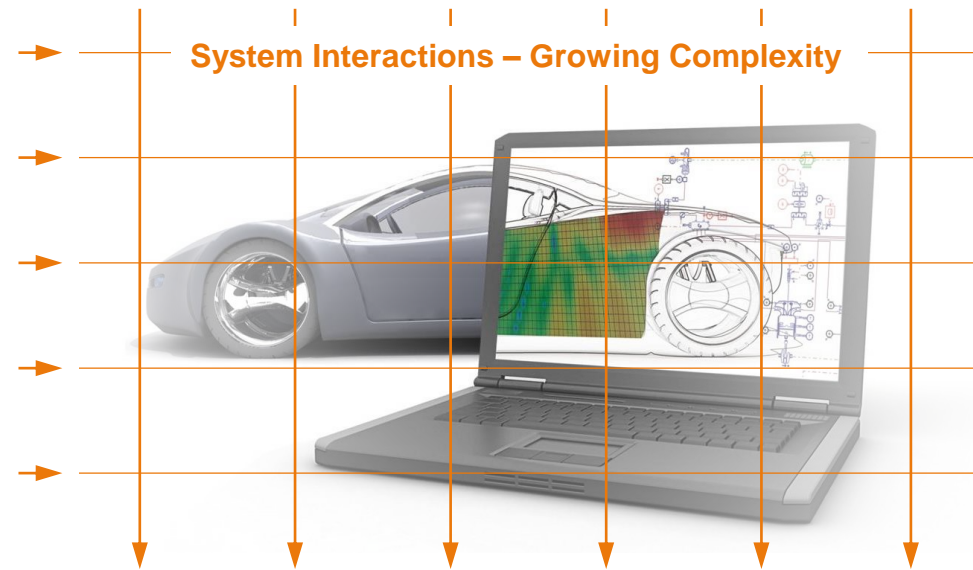
Drivability



Dynamics Comfort



80% of future automotive innovation is related to intelligent systems - McKinsey, AD-Little, Berger



Body



Drivetrain



Electrics Electronics



Vehicle Integration



Embedded Software

# Motivation

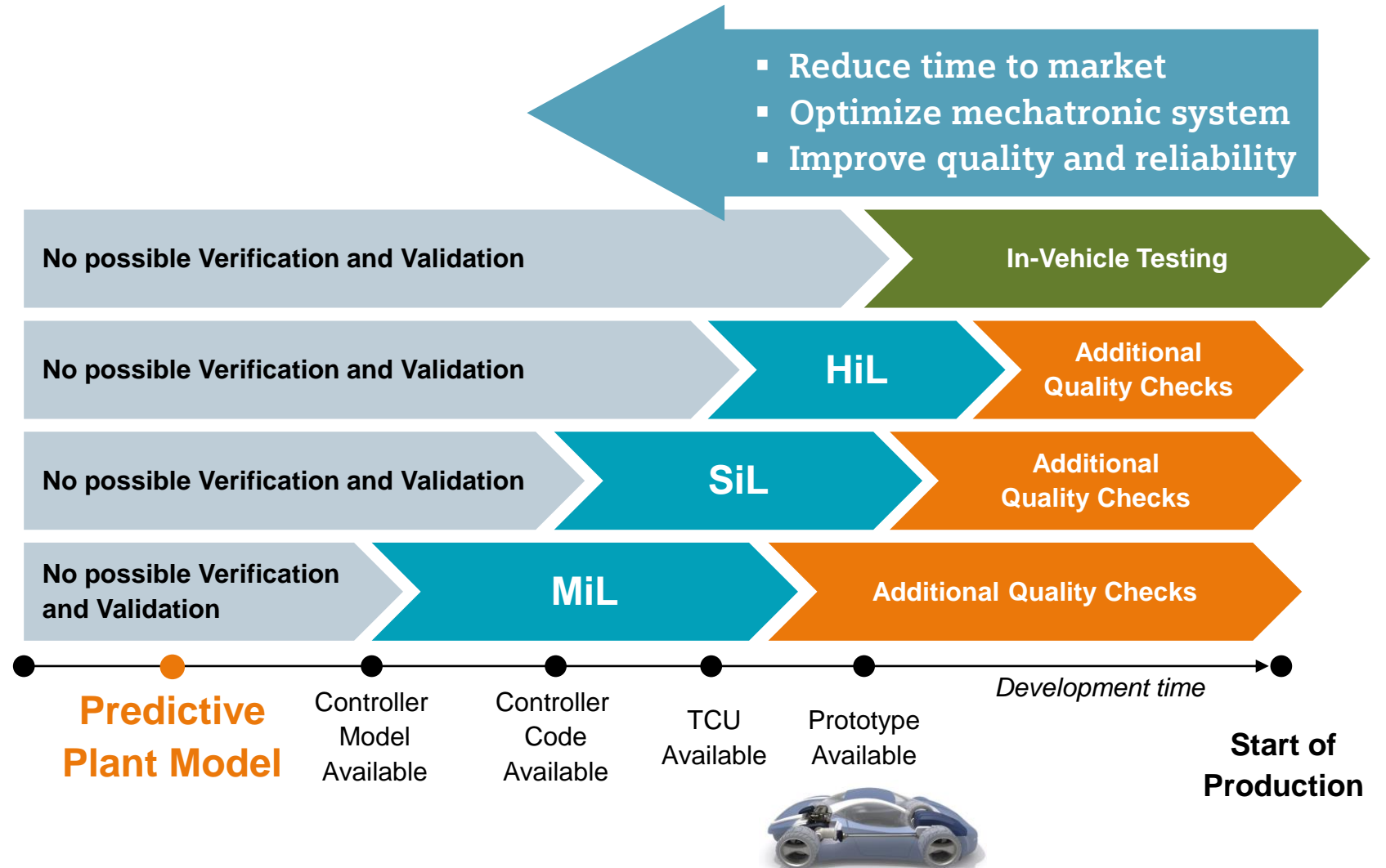
## Market situation and customer expectations

### Technology shifts

Integrate advanced technologies to fit stringent regulation and market expectations

### Growing complexity

Cope with multiple variants and powertrain systems architectures



## Solution

### Market situation and customer expectations

#### Technology shifts

Integrate advanced technologies to fit stringent regulation and market expectations

#### Growing complexity

Cope with multiple variants and powertrain systems architectures

# How to master this engineering challenge?

## Model-Based-System-Engineering Frontloaded Engineering

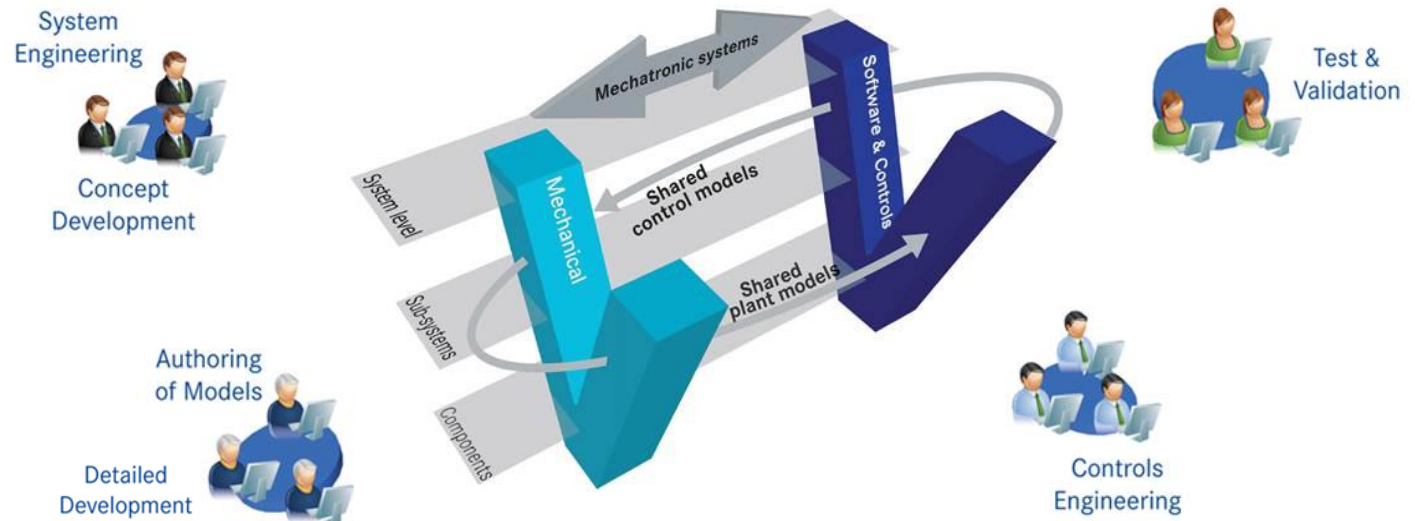
*"A systems engineering methodology which focuses on creating and exploiting domain models as the primary means of information exchange between engineers, rather than on document-based information exchange."*

Solution

# Simcenter 1D - Mechatronic system simulation

Modeling and analysis of multi-domain intelligent systems to predict performance in physical domains

**Simcenter™**  
The solution for  
Mechatronic System  
Simulation

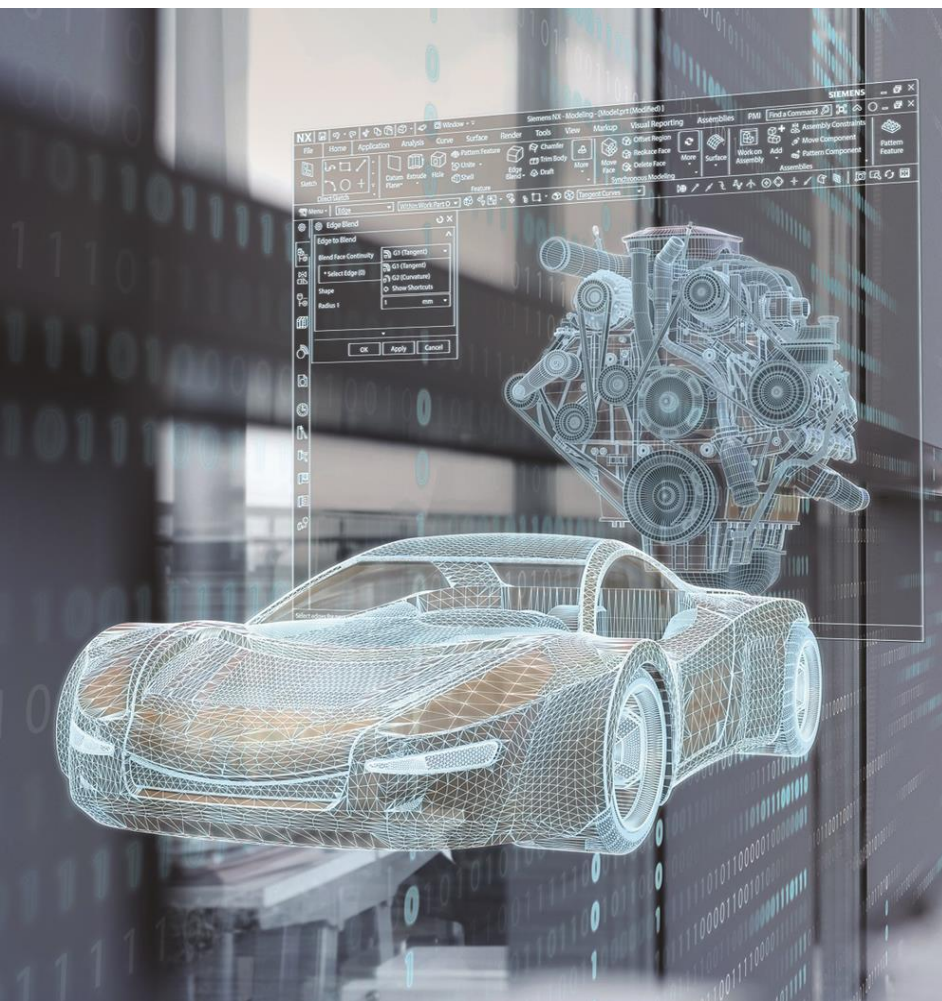


Physical system models  
Multi-domain & scalable

Configuration Management  
Model and data Management

Model-based software and  
control development

## Contact page



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