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Today's objective

To share Volvo Car Corporation's C3P NG strategy, including the background and an overview of supplier connectivity options and implications for our supplier partners.

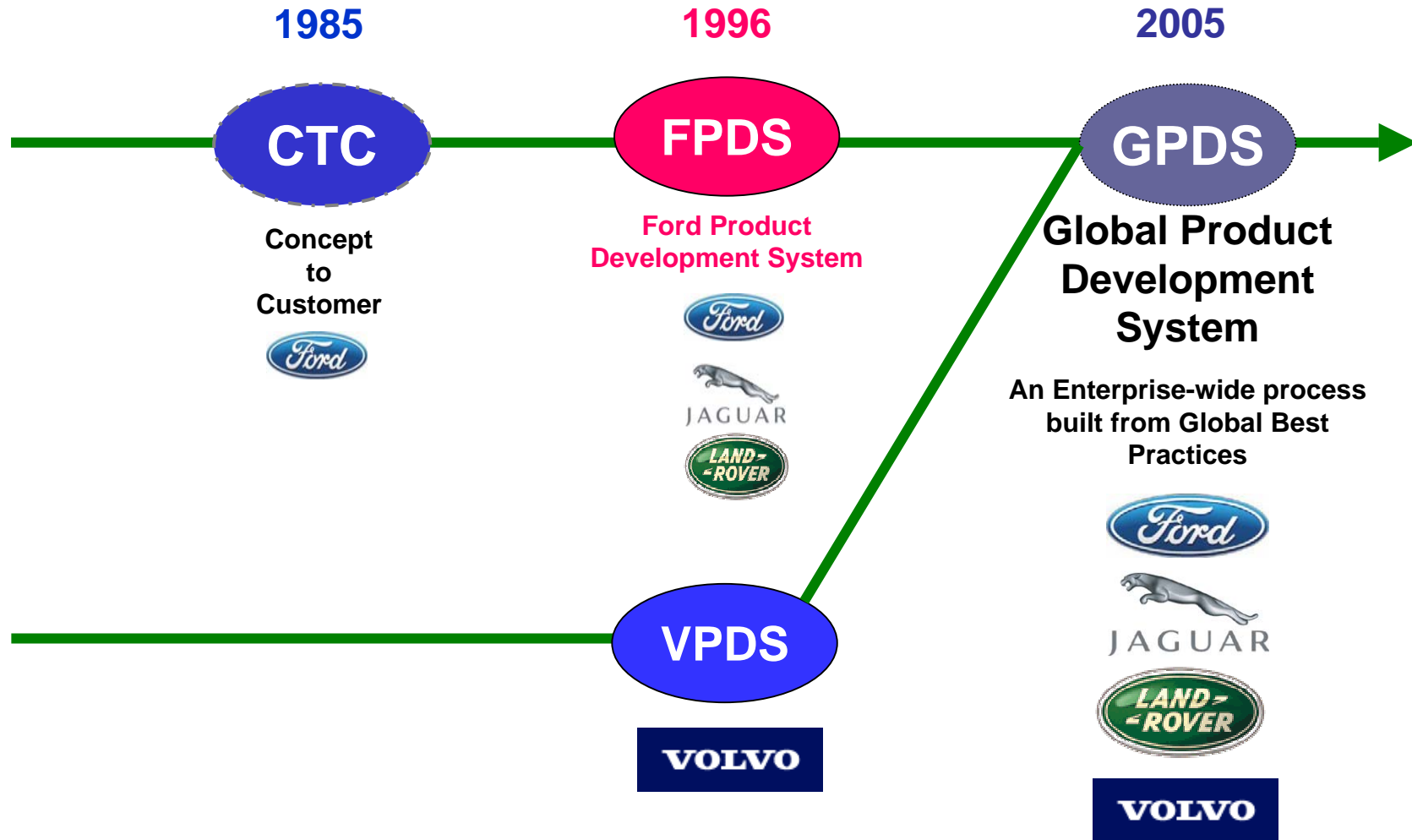


Agenda

- **C3PNG strategy**
 - **Background**
 - **What is C3PNG**
 - **Process & Methods Commonality**
- **Supplier Deployment**
- **Connectivity Options**
- **The Basic Requirements**
- **Supplier Integration Timing**



Background



What is C3P NG

What is C3PNG?

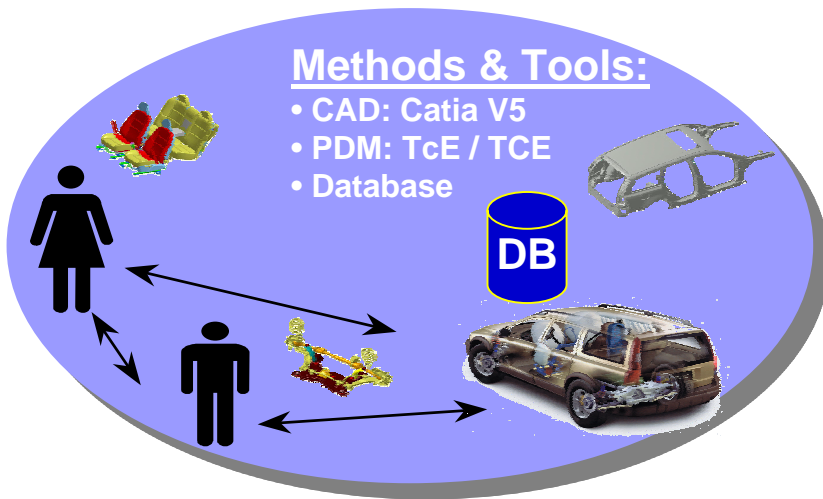
- FMC's next generation CAD/CAM/CAE & PDM solution to support Virtual Product and Process development.

Why C3PNG?

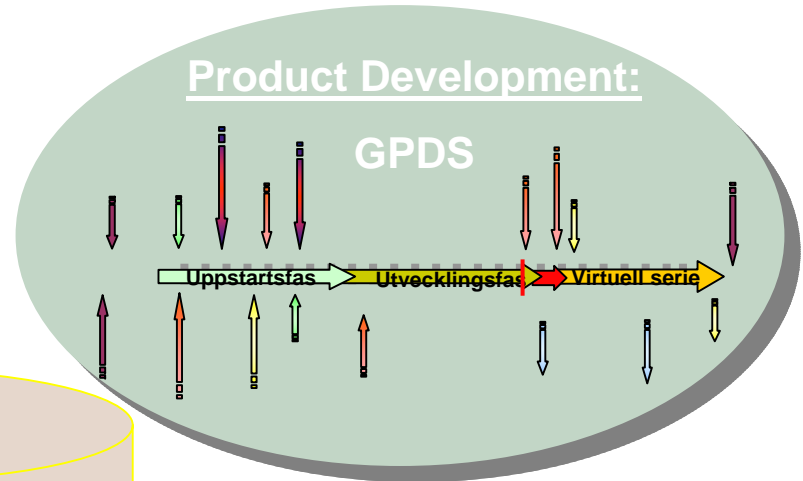
- Commonality within FMC
- Efficient methods & tools



Common methods and tools within FMC

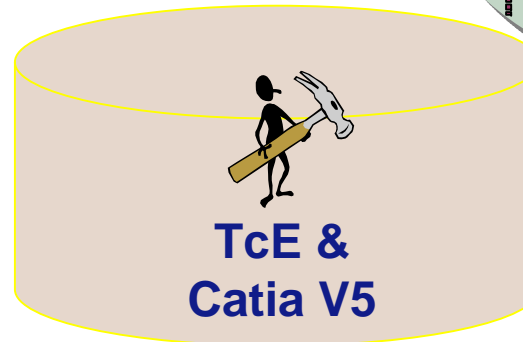


Jaguar

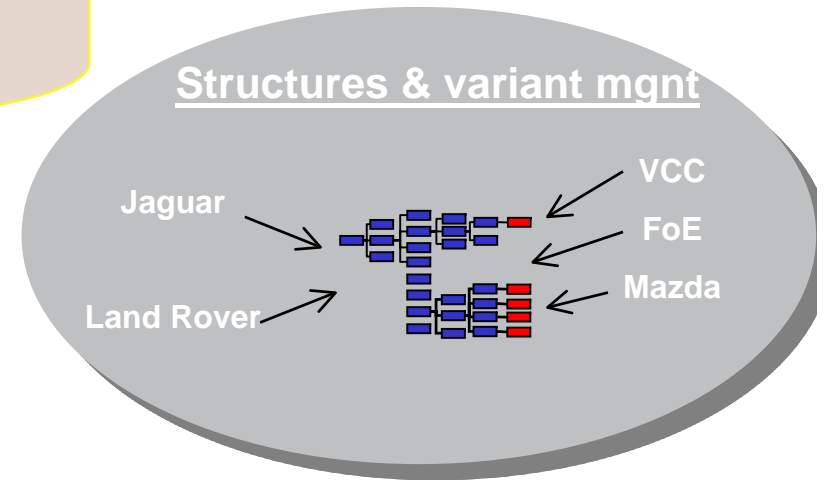
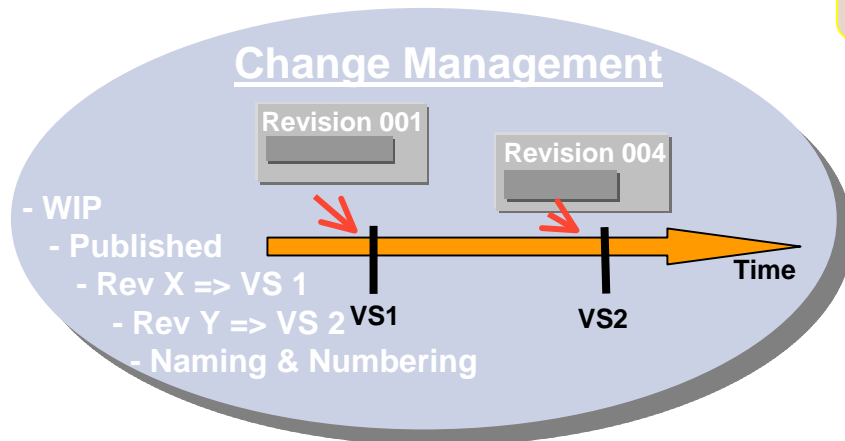


Ford

Volvo



Land Rover



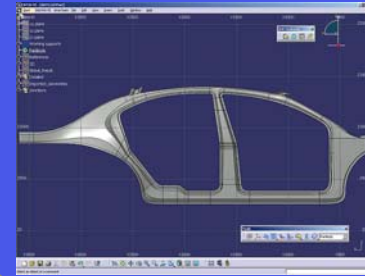
Effective methods and tools

Easy to use



- Modern user interface
- Windows "look & feel"

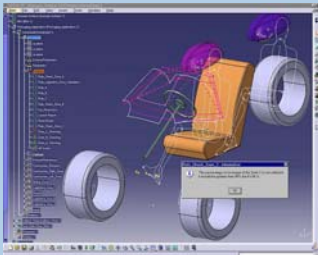
Fast geometry updates



- New architecture
- New functionalities

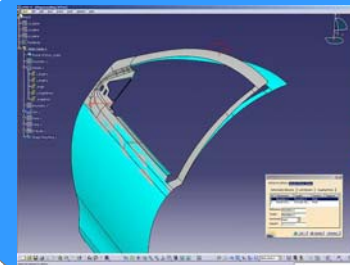
**Enhanced
productivity**

Secure corporate knowledge



- Knowledge based
- Equation and rules function
- Engineering optimizer

Advanced tools



- Body&White templates
- Weld design
- Shape optimizer

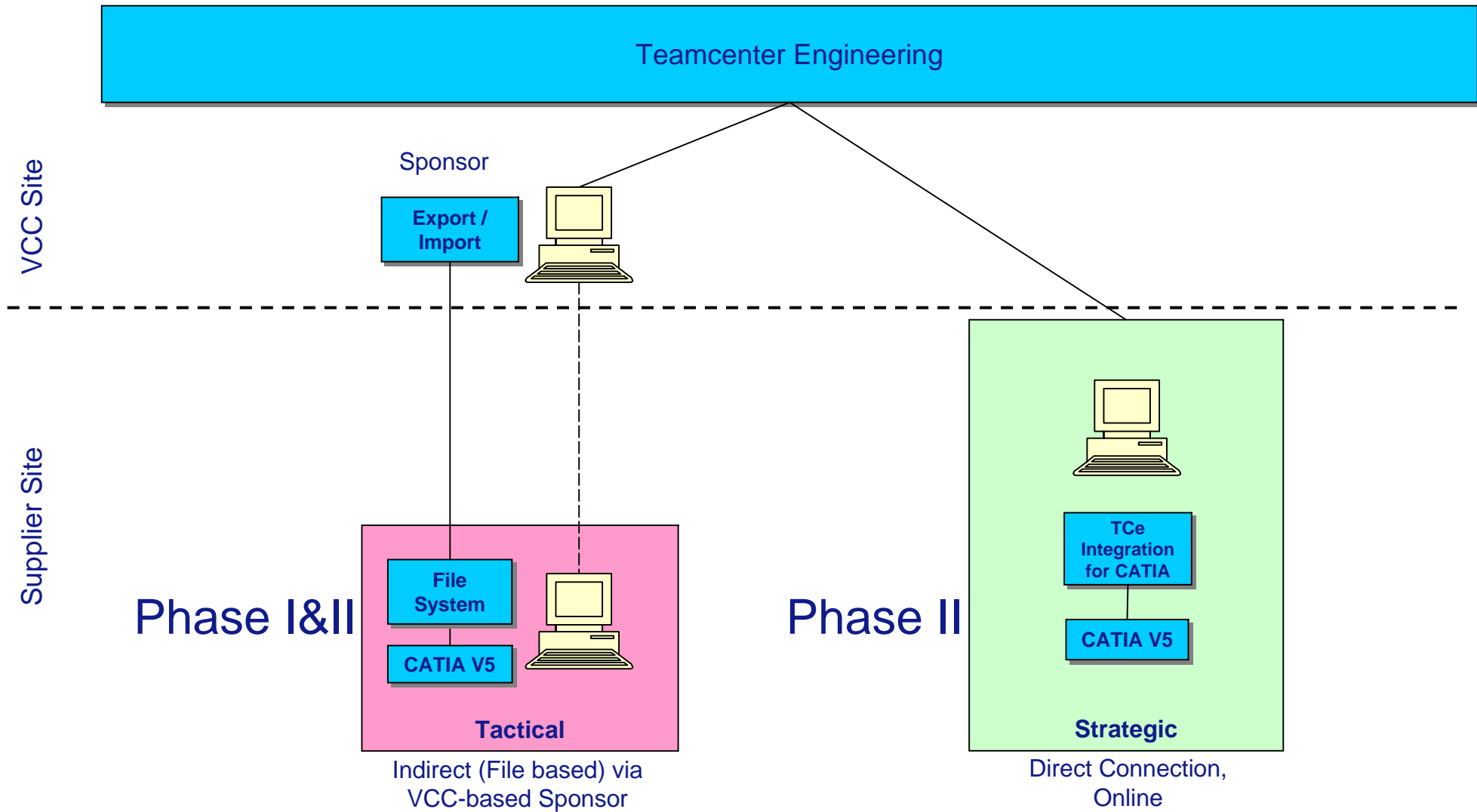
**22 out of the 30 largest
OEM:s in the world are
using Catia V5**

C3P NG Supplier Deployment

- **Suppliers will be required to adhere to a Specific Program PLM Strategy**
- **Connectivity to Volvo and the applied CAD Authoring Tool will be specified by the Vehicle Program Management Team (PMT) in association with the VCC C3PNG Core Team**
 - **PIM system is Teamcenter Engineering**
 - **The CAD Authoring Tool is CATIA V5**



C3P NG Connectivity Options



The Basic Requirements

- **C3P NG CAD format for VCC is CATIA V5**
- **VCC will expect all Development Suppliers to support the Catia V5 strategy**
- **Data exchange process and responsibilities will stay the same as today during Phase I**
- **Next phase for VCC will be to implement Ford's Global Supplier Integration process & tools including Direct Connect supplier access**



C3P NG Implementation in Phase II

- **Successful C3P NG implementation depends on fulfilling requirements in three areas:**
 - **Capability**
 - **Connectivity**
 - **Competency**
- **Detailed planning and implementation strategy will be presented at upcoming Supplier Awareness Session held by VCC**



C3P NG Supplier Integration Timing

- During 2006, selected car programs will start the use of C3P NG
- The chosen car projects will migrate to Catia V5, and Volvo expects involved suppliers to do so to



Key Messages from today

- **Catia V5 will be the main enabler for a fast, smooth & successful C3P NG implementation during Phase I**
- **Exter V2 will be the Tactical method of connection**
- **Data exchange process and responsibilities will stay the same as today during Phase I**
- **Further information regarding C3P NG at VCC and Phase II will be given at upcoming Supplier Awareness Session**

