



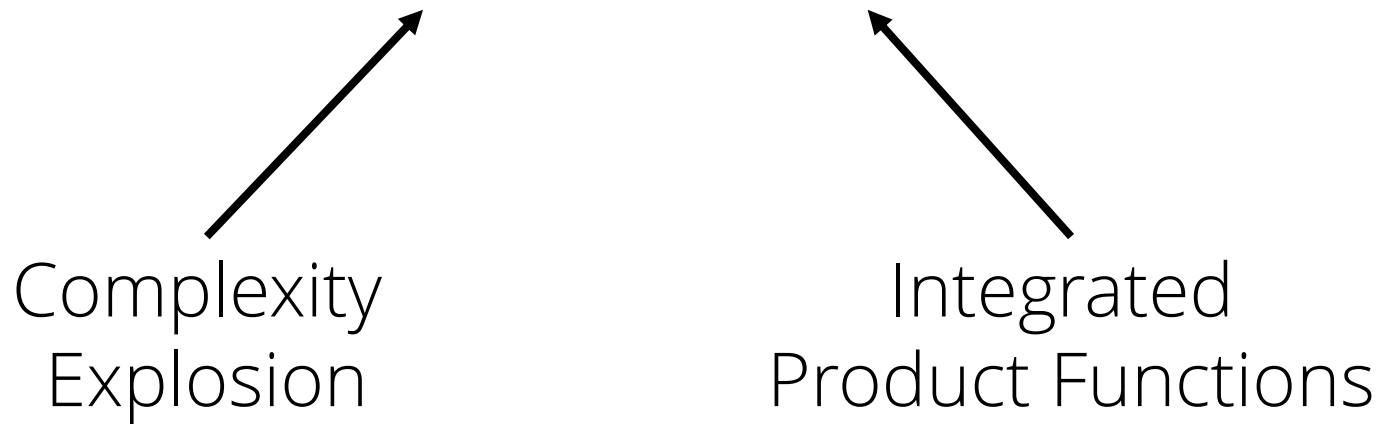
# SE-DM

The Backbone of Function Development

# Systems Engineering on Product Level



## Engineering Collaboration: THE Key Success Factor



# How to collaborate?



Many...

Simulation Methods

Departments

Processes

Ways of Working

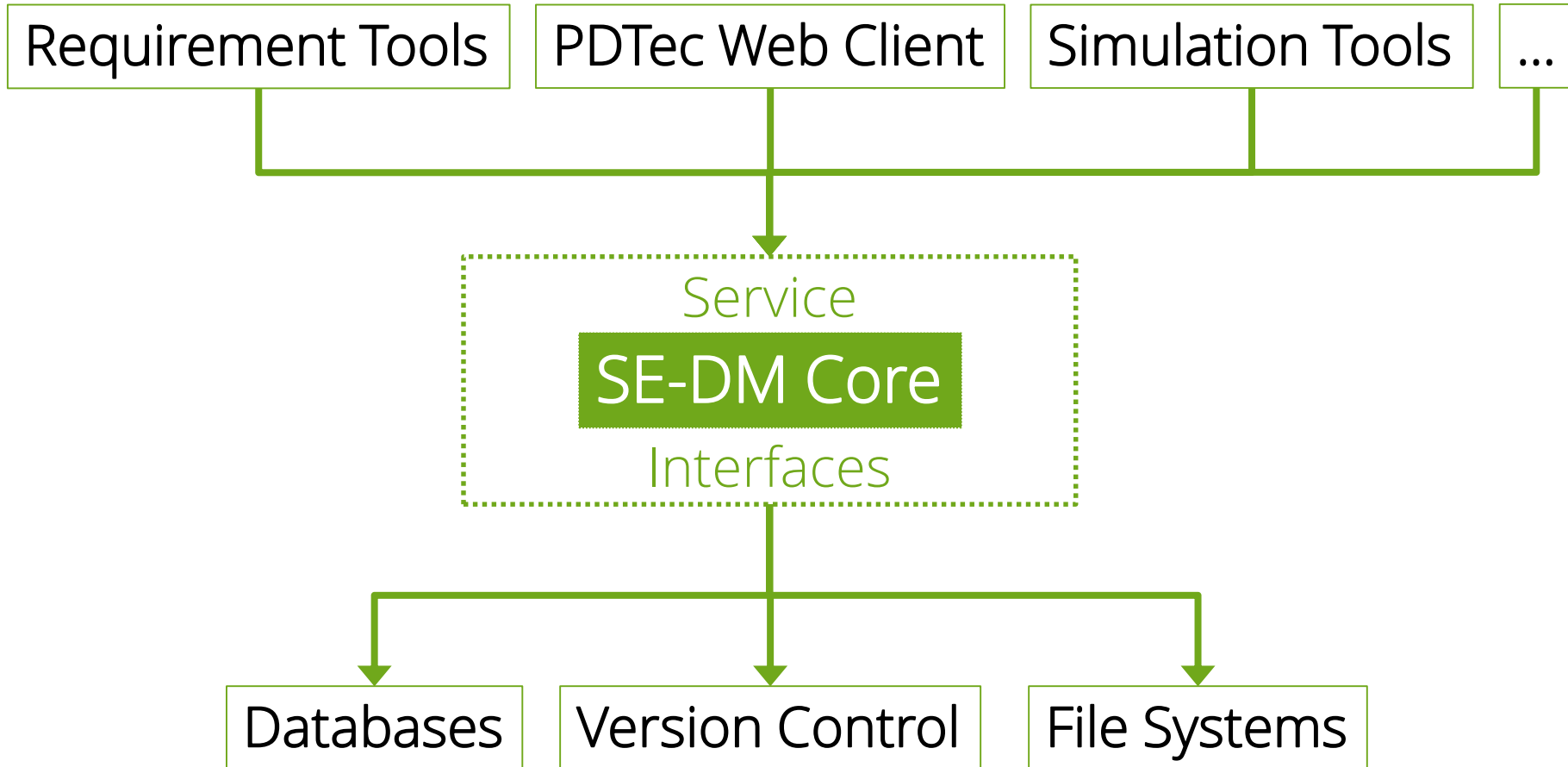
Keep them as they are. For now.

# Transition by Design

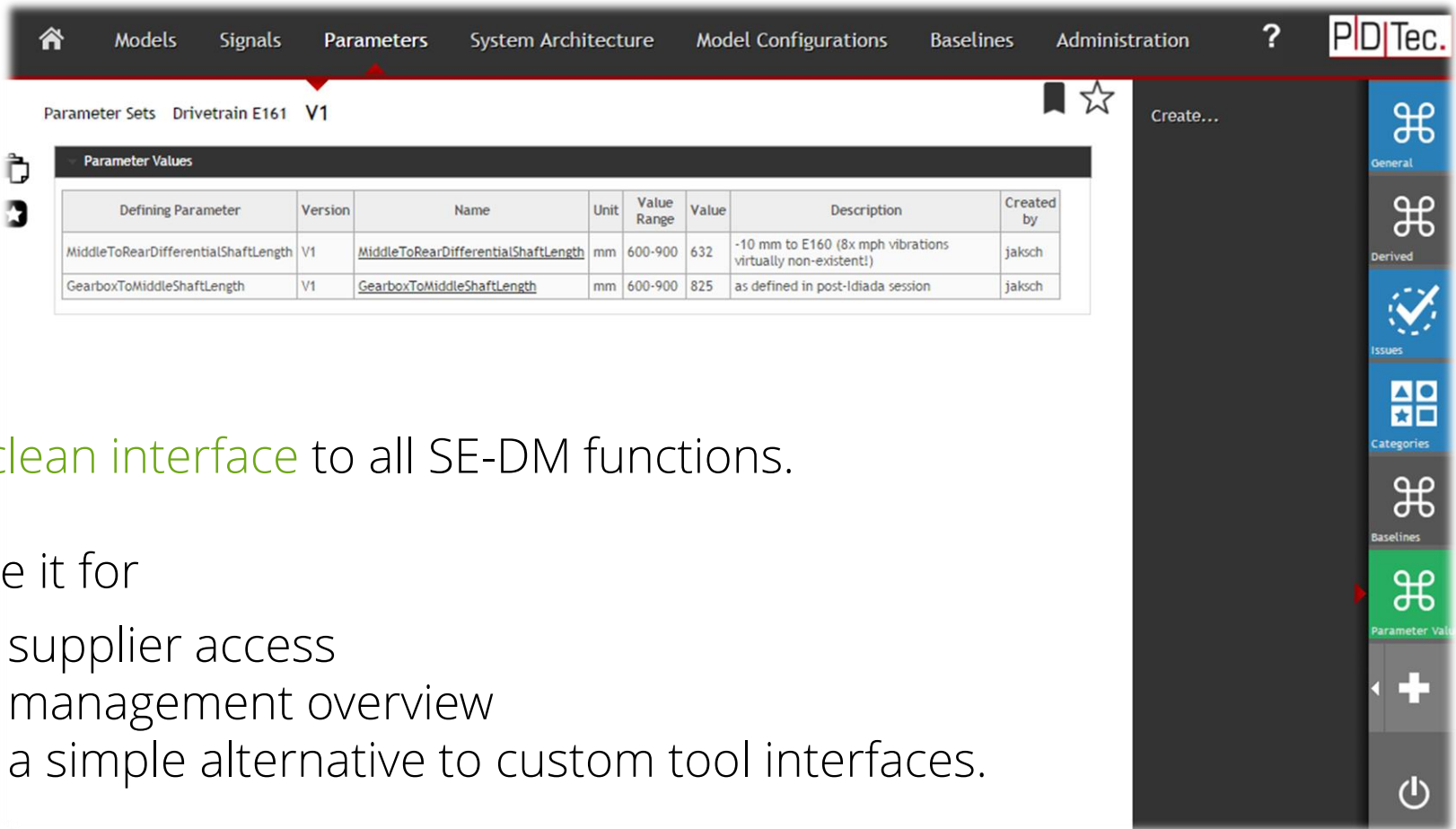


1. SE-DM backbone **unifies data sources** with a common service. Departments keep their local processes.
2. Add **basic collaboration functions** in engineering tools with PDTec Interface Modules or just use our **Web Client**
  - Work of other domains & departments visible to users
  - Easier, intensified collaboration
3. Gradually streamline collaboration processes

# SE-DM Architecture



# PDTec Web Client



The screenshot displays the PDTec Web Client interface. The top navigation bar includes: Home, Models, Signals, Parameters, System Architecture, Model Configurations, Baselines, Administration, and a help icon. The main content area shows 'Parameter Sets Drivetrain E161 V1'. Below this is a 'Parameter Values' table with the following data:

Defining Parameter	Version	Name	Unit	Value Range	Value	Description	Created by
MiddleToRearDifferentialShaftLength	V1	<u>MiddleToRearDifferentialShaftLength</u>	mm	600-900	632	-10 mm to E160 (8x mph vibrations virtually non-existent!)	jaksch
GearboxToMiddleShaftLength	V1	<u>GearboxToMiddleShaftLength</u>	mm	600-900	825	as defined in post-Idiada session	jaksch

The right sidebar contains navigation options: General, Derived, Issues, Categories, Baselines, and Parameter Values (highlighted in green). A 'Create...' button is visible at the top of the sidebar.

A clean interface to all SE-DM functions.

Use it for

- supplier access
- management overview
- a simple alternative to custom tool interfaces.

# Technology



- Based on established PD Tec **ice.NET** platform
- Enterprise-level scalable system
- Interfaces to common version control & requirements systems **available**.
- PD Tec provides customized interfaces and integration consulting for your engineering tools.

# Productivity Scope

- Collaborate on
  - function data
  - models
  - parameter sets
  - configurations
  - system architectures
- Use our simple, yet flexible permissions and lifecycle management



# Some Use Cases

Requirement-Driven Development

Create Models for Interfaces

Model Development in a Team

Independent Parameterization

Test Scenarios for Models

Managed Supplier Access

The screenshot displays a web-based interface for model management. The top navigation bar includes: Home, Models, Signals, Parameters, System Architecture, Configurations, Baselines, and Administration. The main content area is titled 'Models ModelMaster1 ModelVersion11' and is divided into several sections:

- Administration:** A table with columns 'Party', 'Description', and 'Permissions'. It contains one entry for 'User1' with the permission 'Administration permission'.
- Lifecycle:** A section for 'User1' showing 'Current Life Cycle Transition Owner: User1' and a 'Submit' button. Below it, a state transition diagram shows five states: State1, State2, State3, State4, and State5. State1 is the current state. Transitions are shown as follows: State1 to State3, State3 to State4, State4 to State5, and State4 to State2.
- Historie:** A table with columns 'Event', 'Nachricht', 'Changed on', and 'Changed by'. It shows a 'Lifecycle Transition' event with the message 'andis' on 'Thursday, October 22, 2015 9:46:00 AM' by 'User1'.
- KSJ:** A section for 'KSJ Holds' with a table with columns 'Name', 'Description', and 'Actions'. It indicates 'No items found' and includes navigation links for 'Previous' and 'Next'.

The right sidebar contains various icons for navigation and actions, including a search icon, a plus sign, and a power icon.