



EXOKNOX

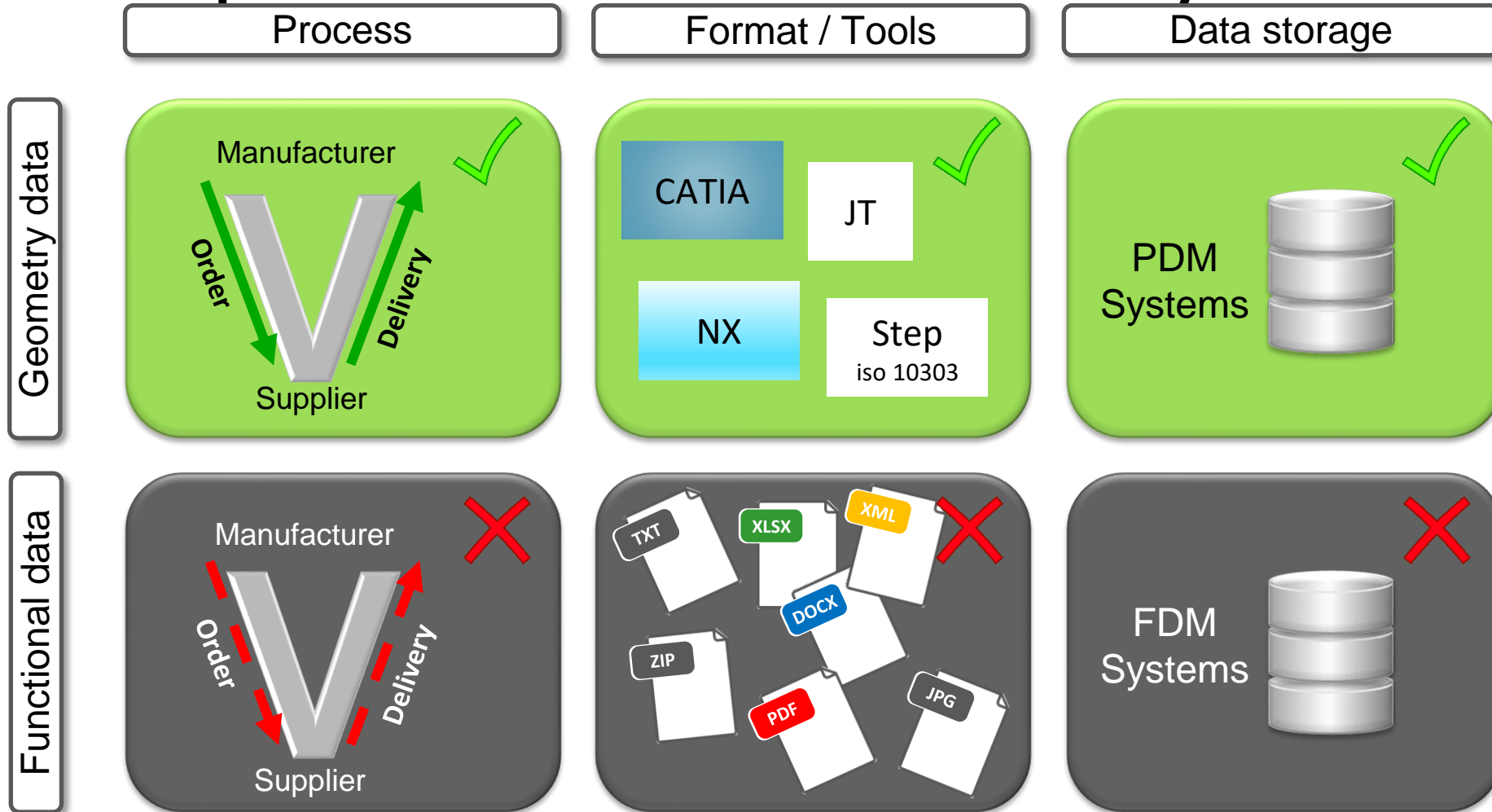
openMDM SC Call on 22.09.2021

Functional Data Management with EXOKNOX

Michael Baumann

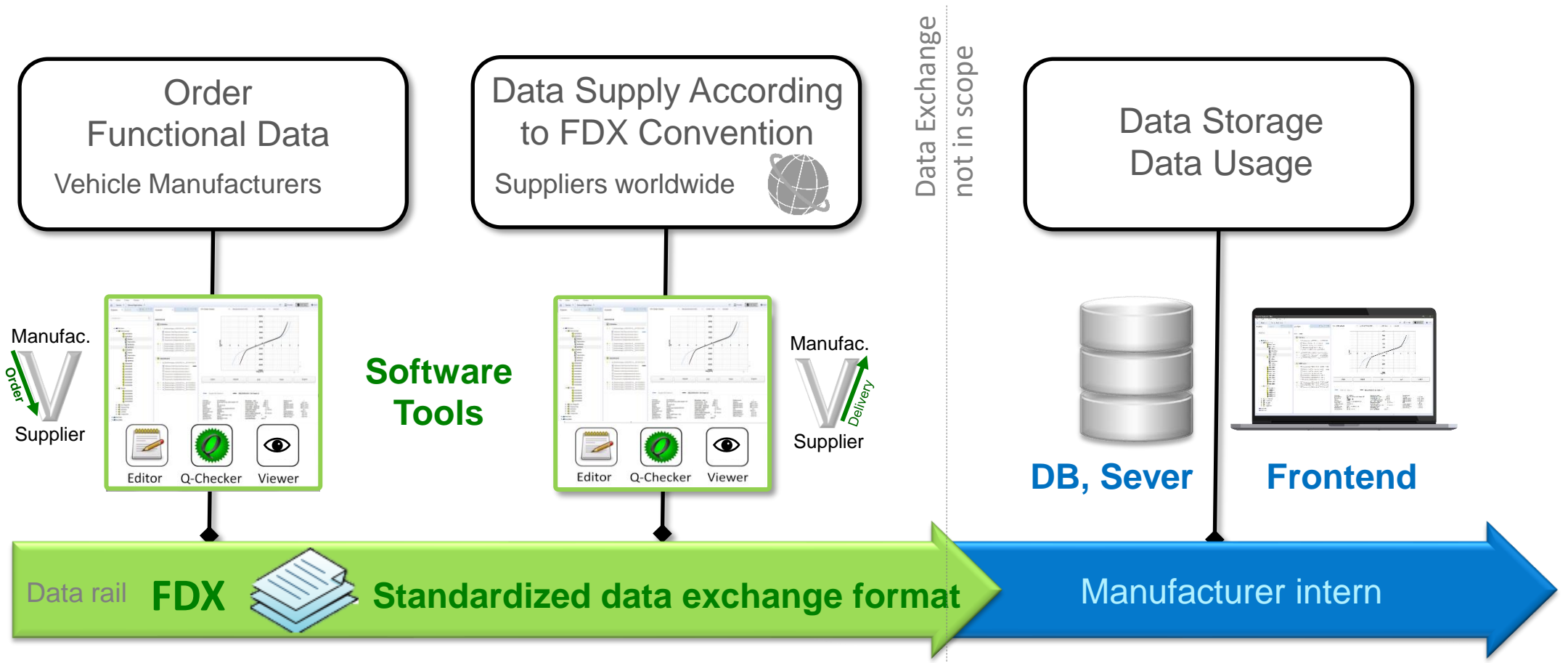
THE INITIAL MOTIVATION

The former problem which became no solved by FDX

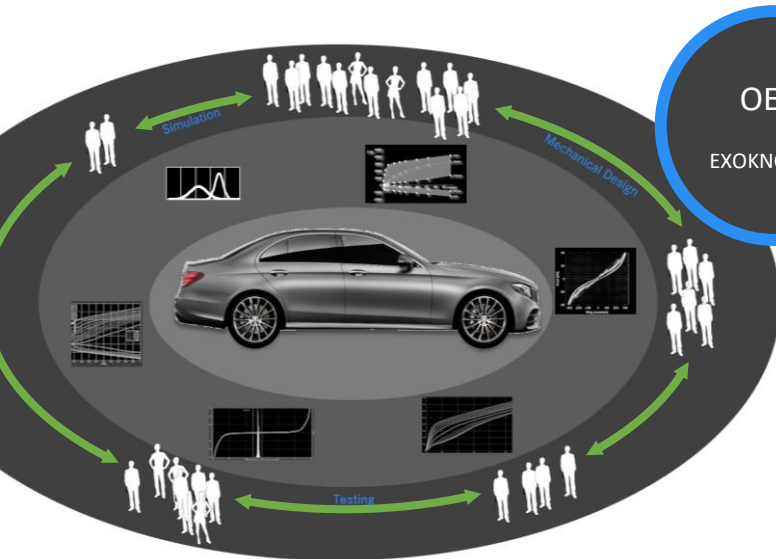


THE INITIAL MOTIVATION

SOLUTION FOR FUNCTIONAL DATA EXCHANGE: **FDX**



END-TO-END ENGINEERING SOFTWARE SOLUTION



- One data marketplace for all functional data
- One toolchain for all technological data
- Efficient workflows and processes following PDM principles

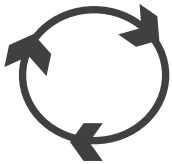


- Worldwide supplier Integration
- Suppliers on the same IT stack

DIFFERENT VIEWS ON THE EXOKNOX SOFTWARE

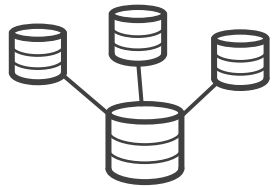


A **New Kind** of Data Management System as Basis for a **Collaborative Component Development** following **PDM principles**



Closed Process Chain / Use Cases

EXOKNOX provides features like order/delivery management target-/actual data management and supplier integration



A System **Capable** of being **Integrated** into System Landscapes

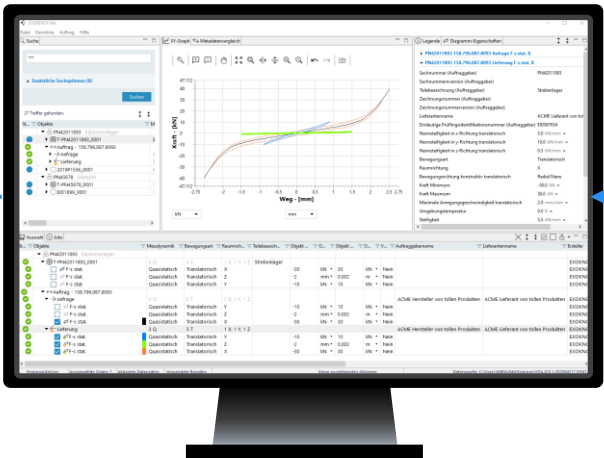


Open to the world by various Interfaces

- EXOKNOX supports the all new **VDA/prostep FDX format**
- EXOKNOX brings **interfaces to different** I/O formats, including an importer framework to process existing data in former data formats

EXEMPLARY A HIGHLIGHT: QUALITY CHECKS

Data
Customer



Data
Supplier

A detailed screenshot of a software interface showing quality check results for a specific component. The interface includes a table with columns for Status, Kennlinie, and Bemerkung. Below the table, there are sections for 'Begründung der Abweichungen' and 'Toleranzen'.

Status	Kennlinie	Bemerkung
✓	F-s stat. Y	
✗	F-s stat. Z	
✓	F-s stat. X	

Begründung der Abweichungen

Prüfung konnte nur im KRäftregime durchgeführt werden. Daher wurde das Wegkriterium +/- 1.5mm um 25% überschritten.

F-s stat. Y

Toleranzen

Parameter	Soll:	Ist:	Unit
Nennsteifigkeit in y-Richtung translatorisch	10000000.0	10007400.0	N/m
Kraft Maximum	10000.0	10138.3	N
Kraft Minimum	-10000.0	-10125.25	N

F-s stat. Z

Toleranzen

Parameter	Soll:	Ist:	Unit
Nennsteifigkeit in z-Richtung translatorisch	500000.0	--	N/m
Weg Minimum	-0.002	-0.0015	m
Weg Maximum	0.002	0.0005	m

Checks for scalar values like stiffnesses

Checks for curves will follow within the spring 2022 release



**THANK YOU FOR
YOUR ATTENTION.**

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