openMDM® Working Group

Platform for implementing Test Data Management

www.peak-solution.de

Christian Domrös

Challenges

„Central repository for test data"

- Uniform storage of test data coming from different data sources

- Independent from specific measurement and analysis tools

- Suitable for building integrated tool chains

- Management of the test context (meta data)

- Unambiguous interpretation of the stored test results

- Global / company wide search for test data over all test storages

- Scalable in terms of data volume, number of users and global use

- Capabilities to protect information from unauthorized access

openMDM ® Working Group

„Collaboration of several companies"

- Since: 2014

- Aim: Development of an open source framework for the efficient implementation of test data management solutions based on the **ASAM ODS** standard

- Basis: A software framework called openMDM 4, mainly driven by Audi since 2010

- Intension: Creation of a organizational framework which makes it possible to drive collaborative development and push further improvements of openMDM more intensively

- Founding members:

Overview openMDM®

Framework for Test Data Management – Central data hub for ALL testing data

Integration of testing systems

- Road Tests
- Bench Tests
- Simulations

Loading Ramps

openMDM®

- Frontend
- Backend
- ASAM ODS

Exporter (Launcher)

Integration of processing systems

- Analysis
- Reporting
- Exchange
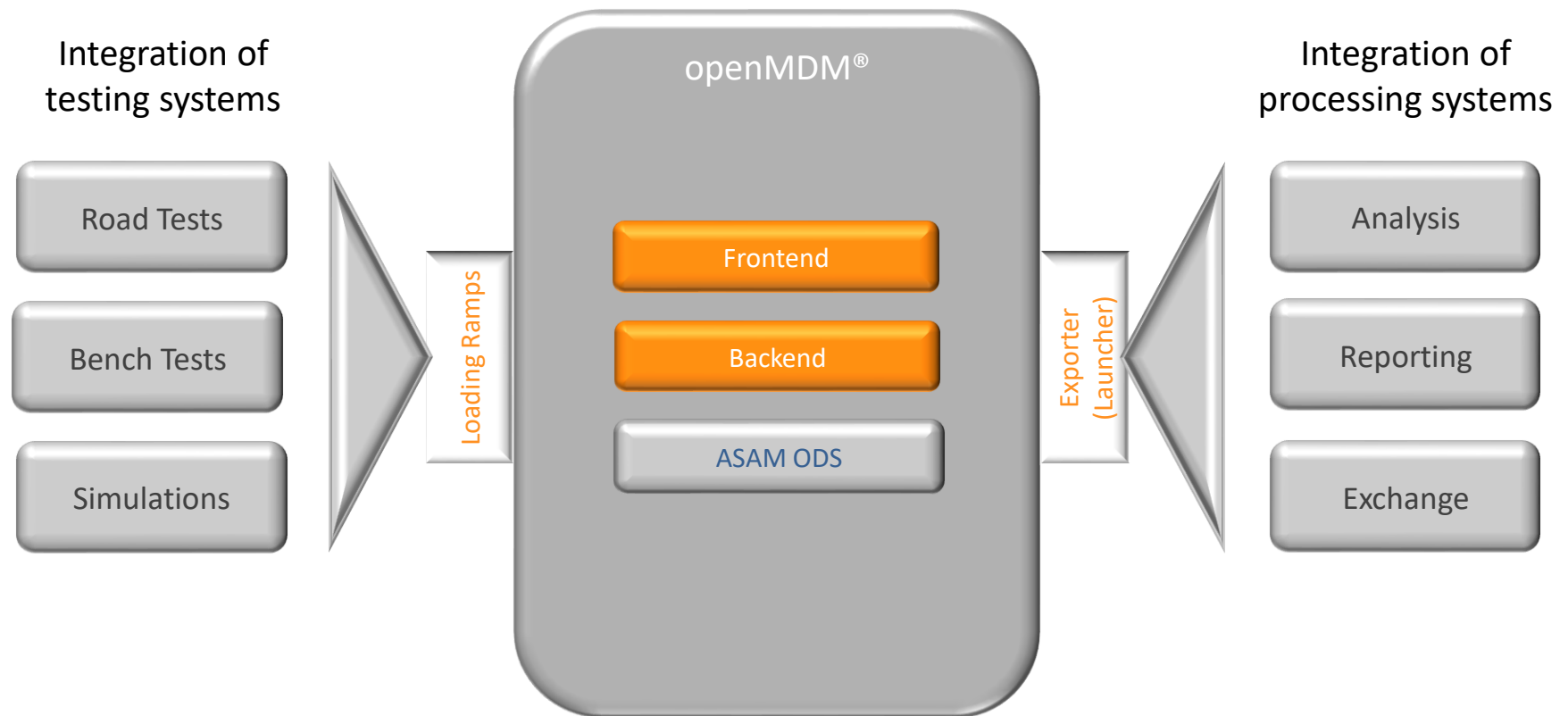
Overview openMDM®

Backend Components

Integration of testing systems

- Road Tests
- Bench Tests
- Simulations

openMDM®

Frontend

Access Components
- REST API
- Java API
- ODS Adapter

ASAM ODS

Integration of processing systems

- Analysis
- Reporting
- Exchange
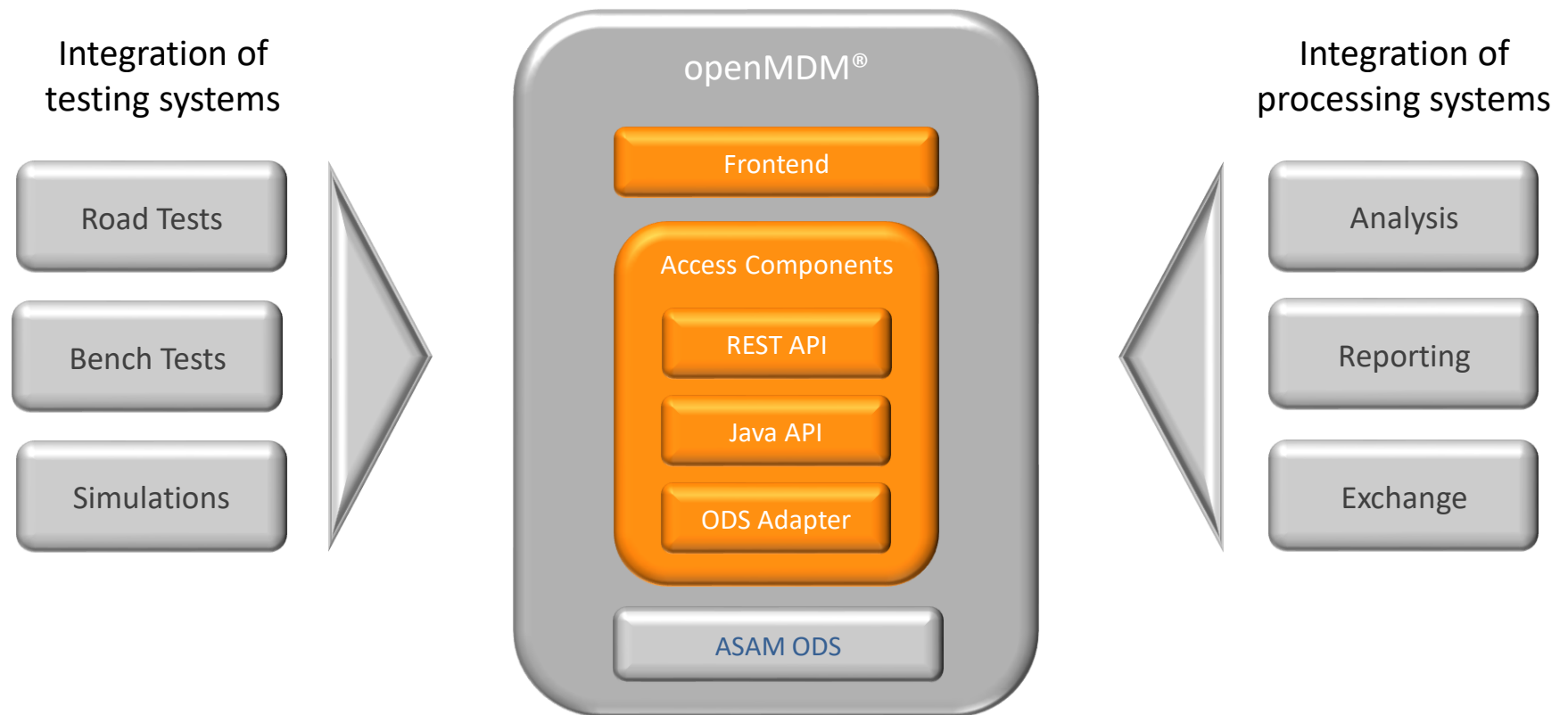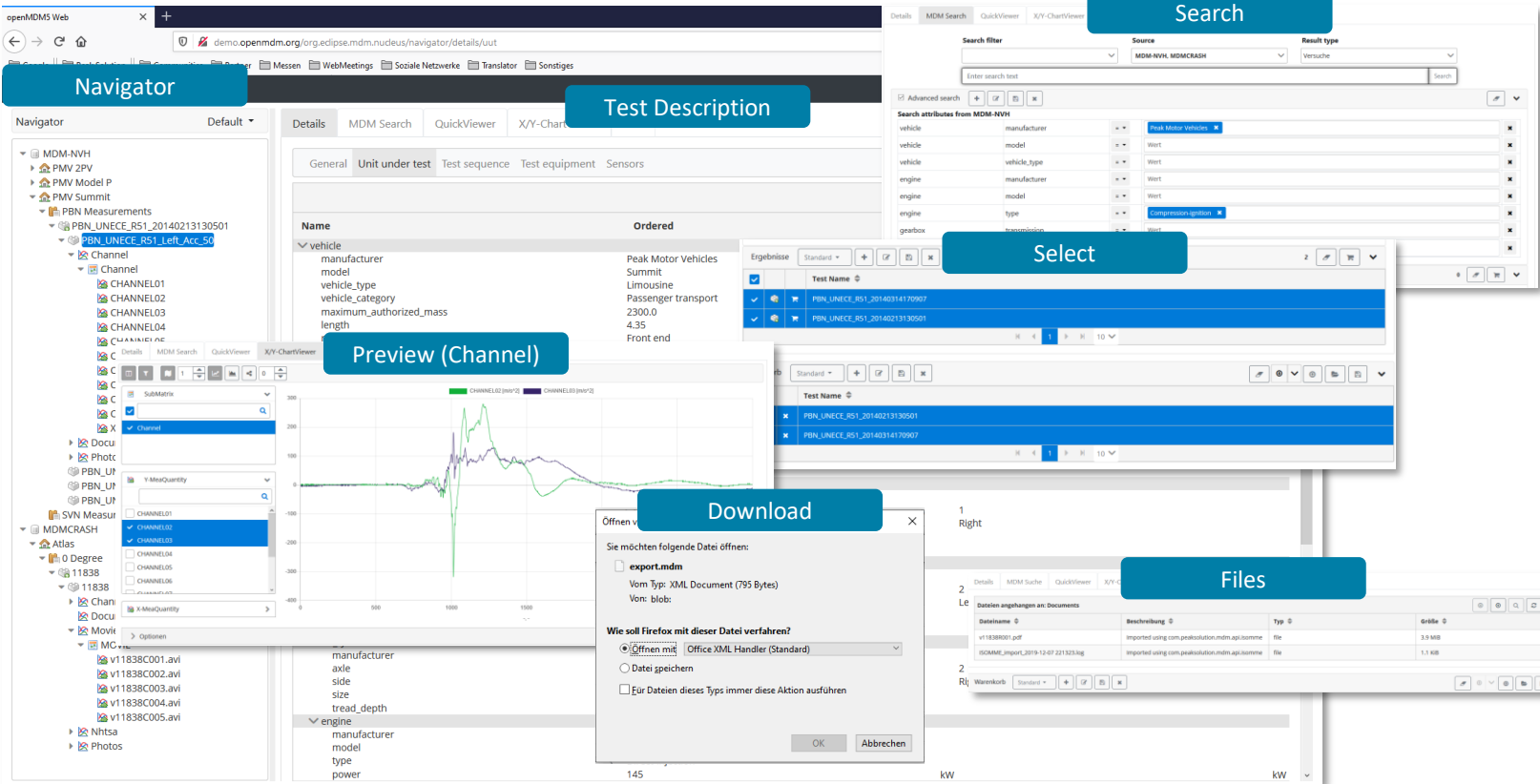
Overview openMDM®

Scalablility - global access to test data

Location 1

Location 2

Location 3

openMDM®

Frontend

Access Components

REST API

Java API

ODS Adapter | Further Adapter

Access Components

REST API

Java API

ODS Adapter

ASAM ODS | Further Database

ASAM ODS
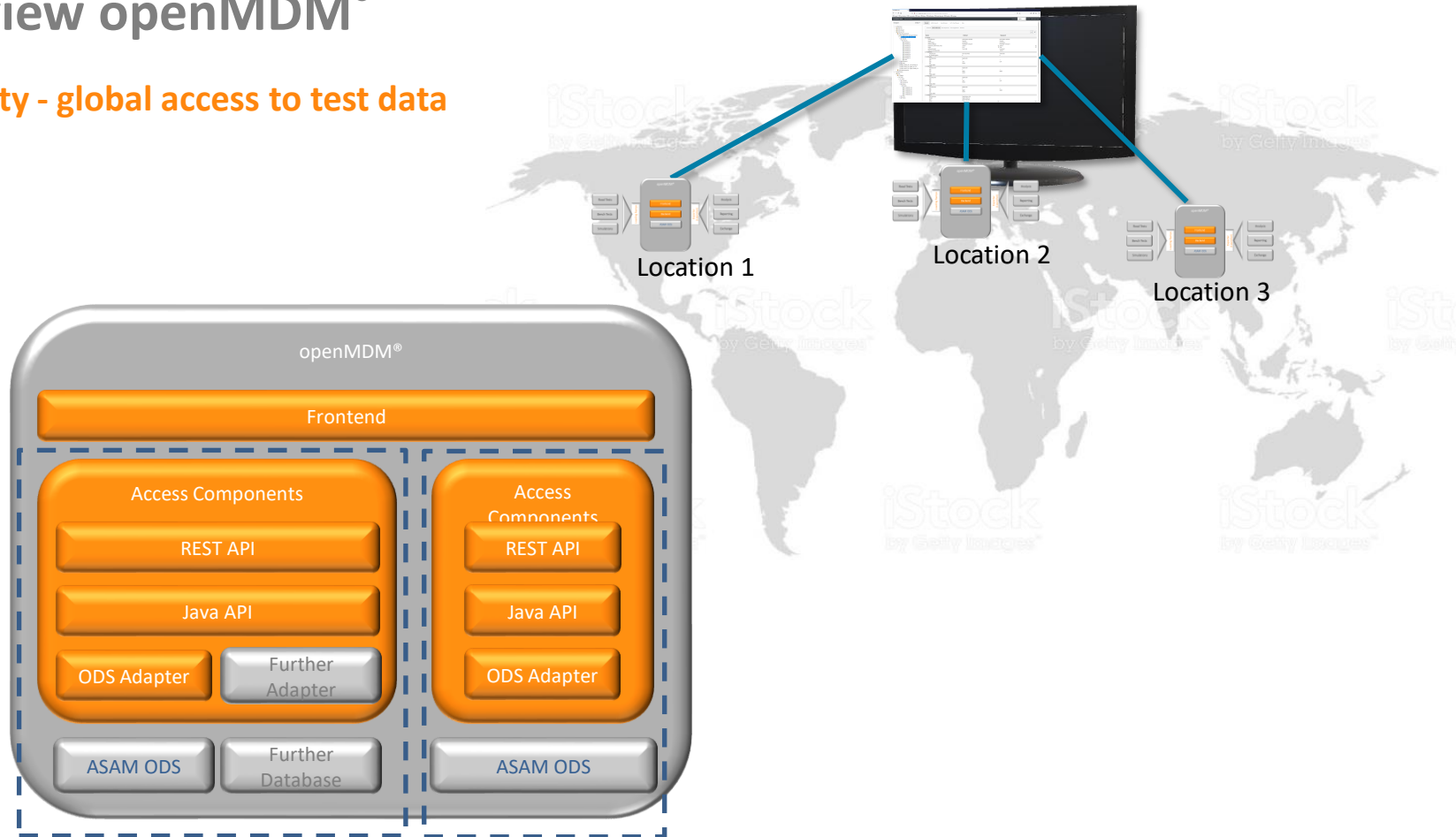
Overview openMDM®

Web Client

Overview openMDM®

REST API – Endless possibilites for integrations

Project management

MDM Frontend

Further clients

Access Components

REST API

Java API

ODS Adapter

ASAM ODS
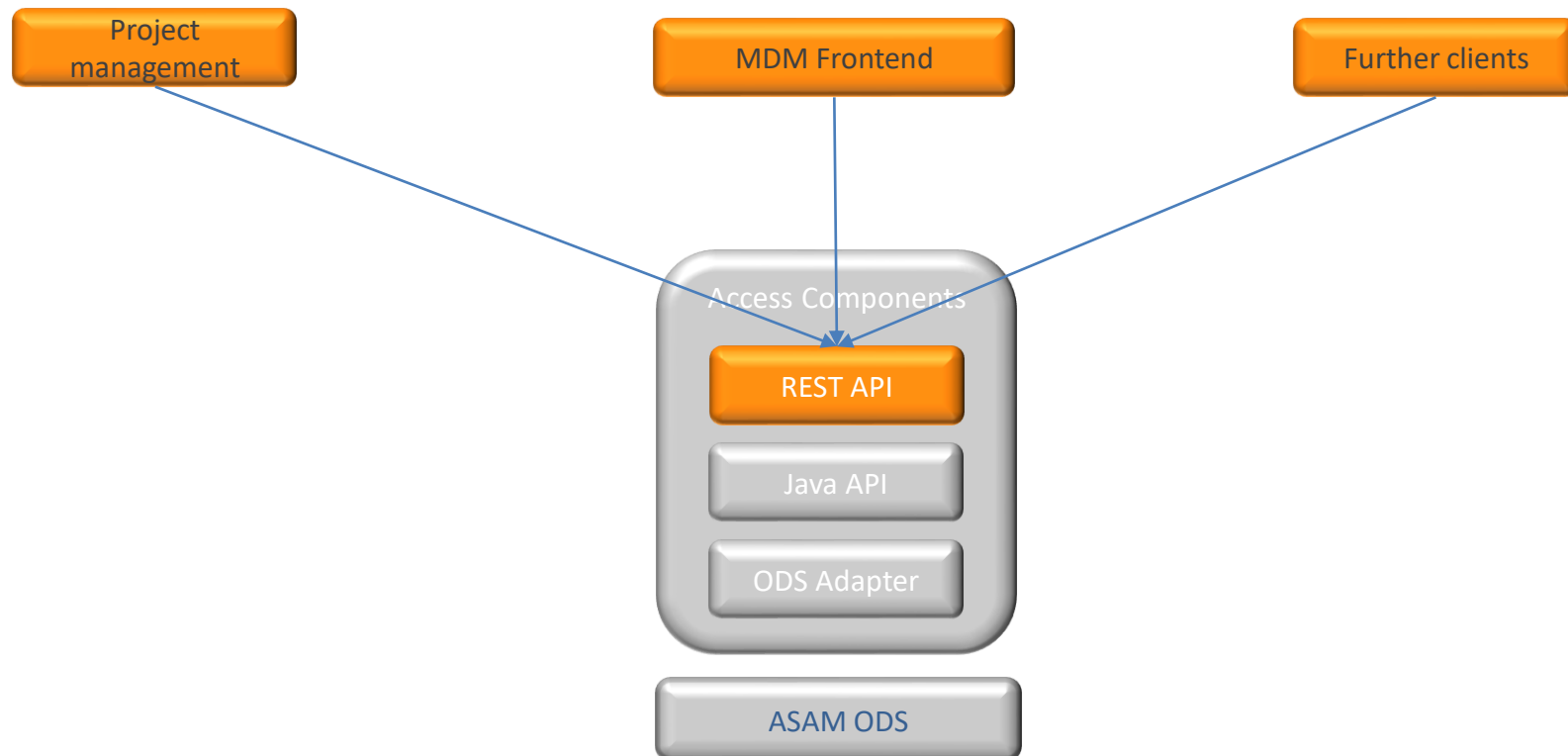
Overview openMDM®
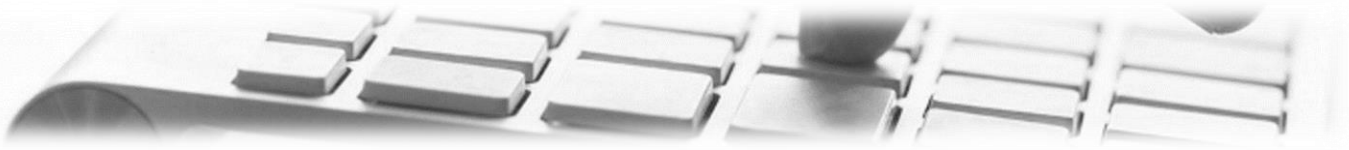
A mature platform for diverse testing fields - existing use cases

- NVH

- Passive safety (Crash)

- Active safety (Driving Assistance systems)

- Classic engine development (combustion)

- Electronic testing

- HVS (High Voltage Storage)

- E-mobility

- Fuel and consumption

- Environment testing

openMDM® - new trends

further integration possibilities

Project management

openScenario DB

PLM

openMDM®

Big data clouds

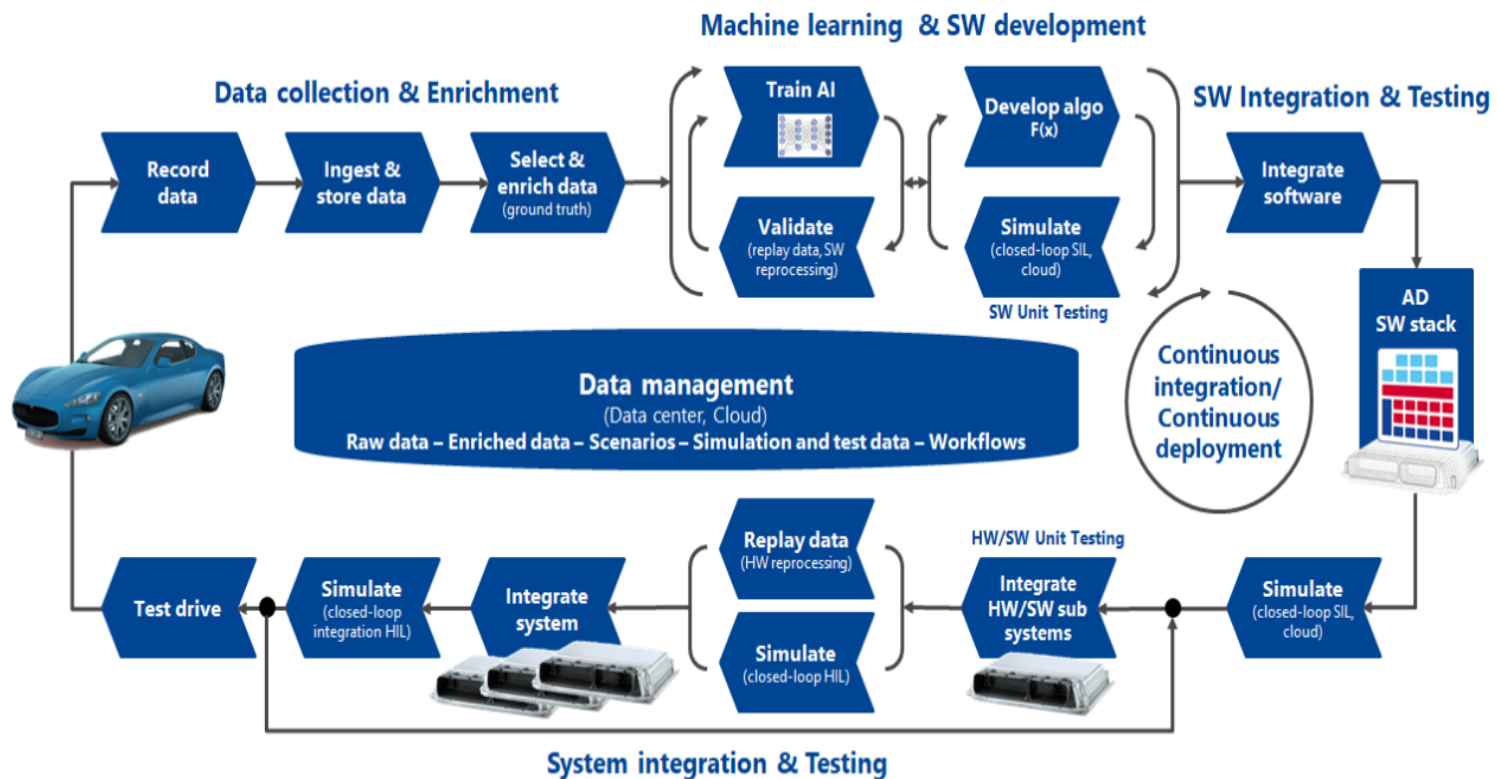Simulation (e.g openPASS)
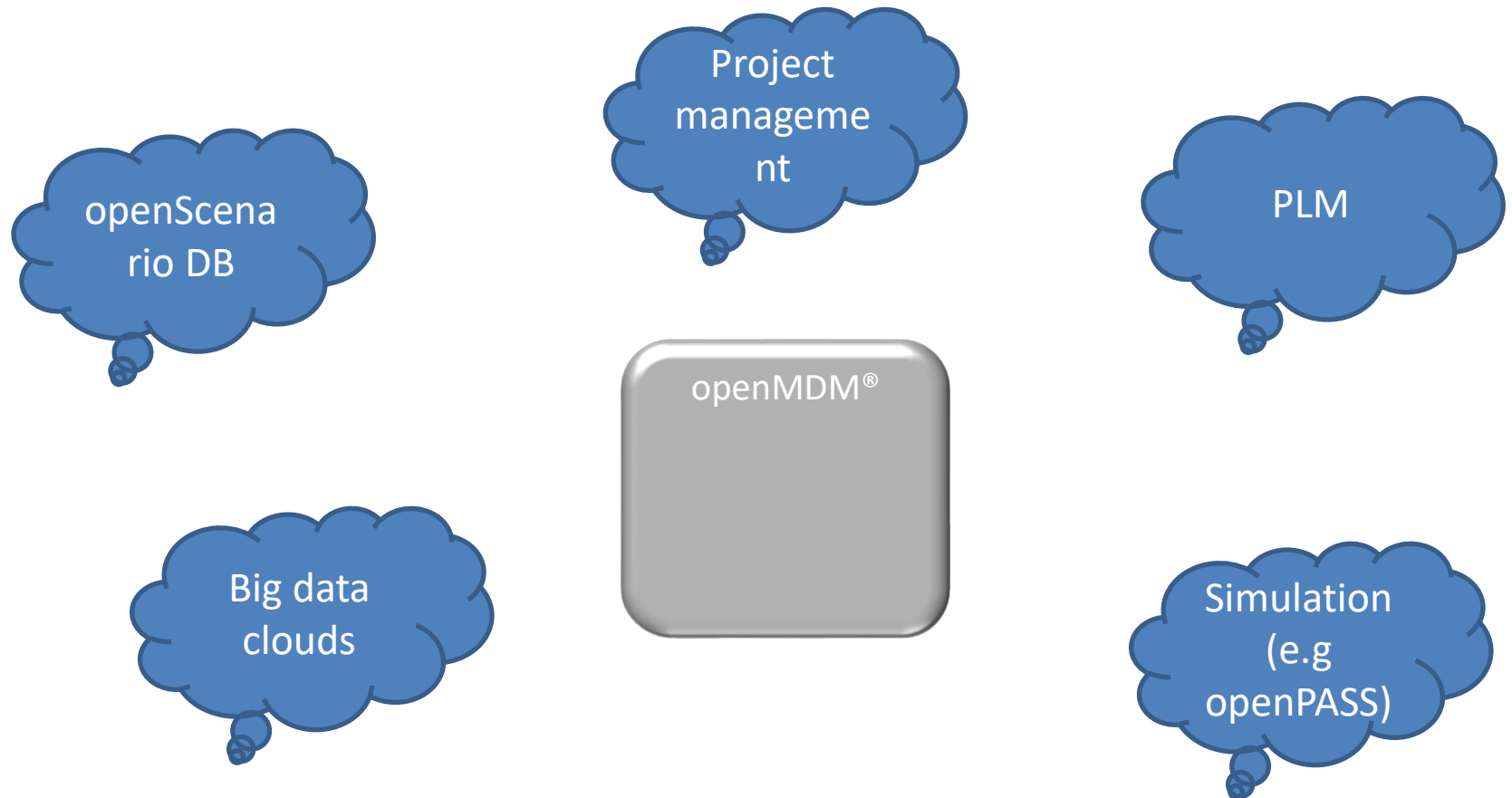
openMDM® - new trends

New trends example- Data Running openMDM with big data cluster (in the cloud)
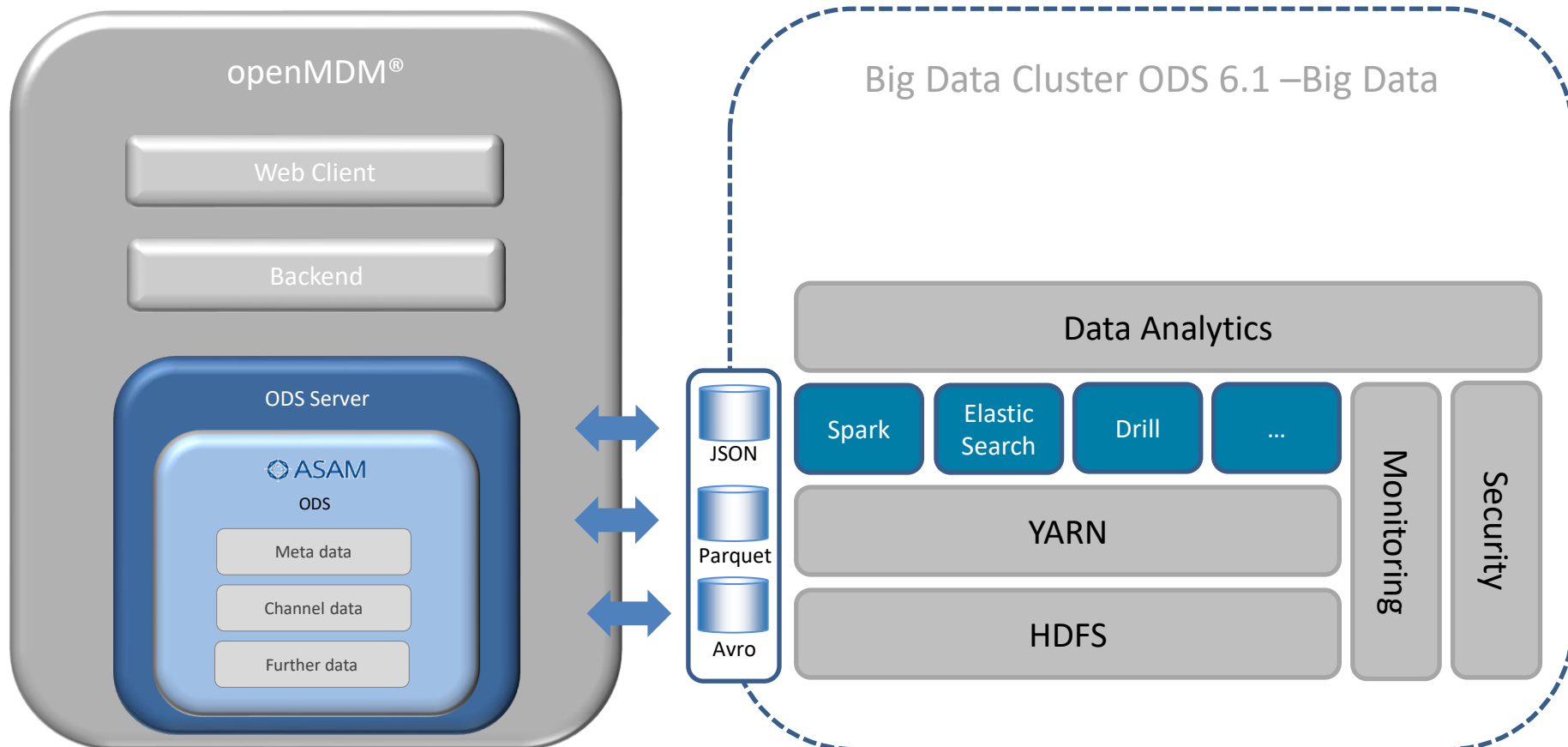
openMDM® - new trends

Integration as test data hub for ADAS / AD development

openMDM® - new trends

We are looking for partner for further integration!

- Working groups

- Research institutes / projects

- Standardization organization

- Interested companies

openMDM® Working Group

Beyond proprietary solutions for Test Data Management

- Standardized
- Open
- Vendor-independent
- Versatile
- Adaptable / Integrative
- Future-proof

More information:

- Homepage of openMDM: https://www.openmdm.org/
- Project Page of openMDM: https://projects.eclipse.org/projects/technology.mdmbl

Check it out - Try it out (Proof of concept) - Become an active part of the openMDM Working Group …

openMDM® Working Group

Beyond proprietary solutions for Test Data Management

Contact:

www.peak-solution.de

Christian Domrös
c.domroes@peak-solution.de