

### Accelerate Engineering Decisions With Data-Driven Insights

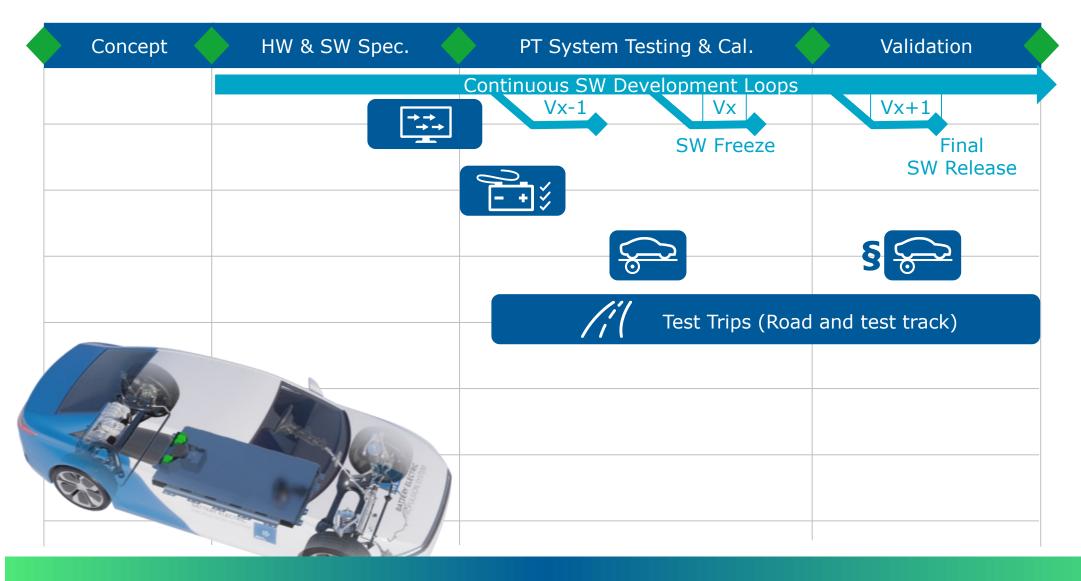
## AVL Data Analytics<sup>™</sup>

Concept definition

Start of Testing

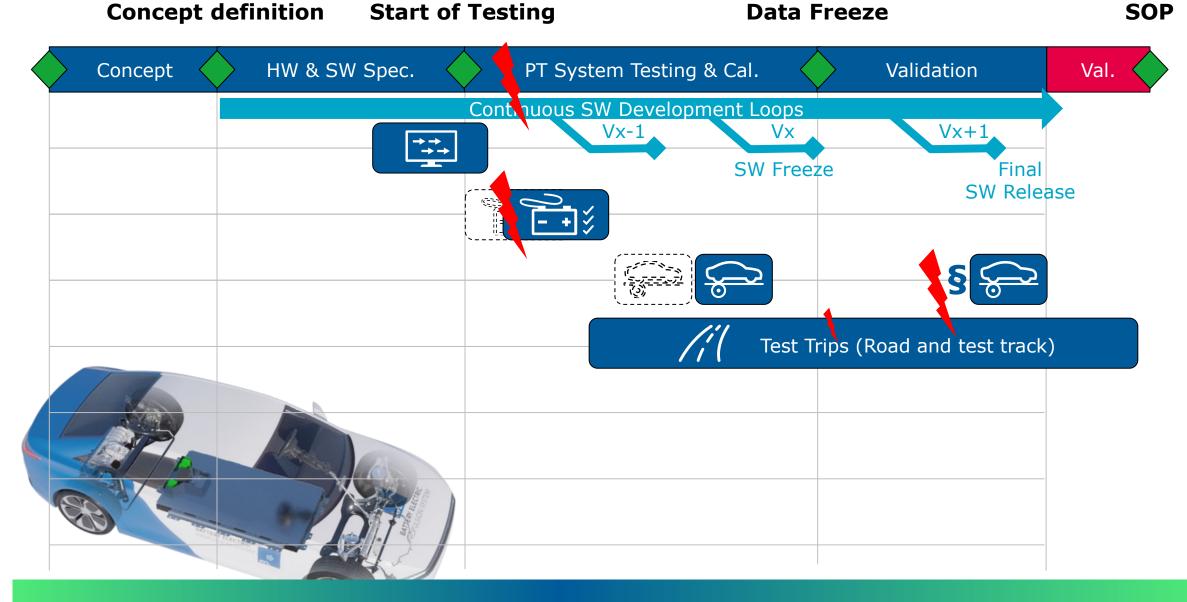
**Data Freeze** 

SOP



### **TRADITIONAL APPROACH**

## **ISSUES WITH TRADITIONAL APPROACH**



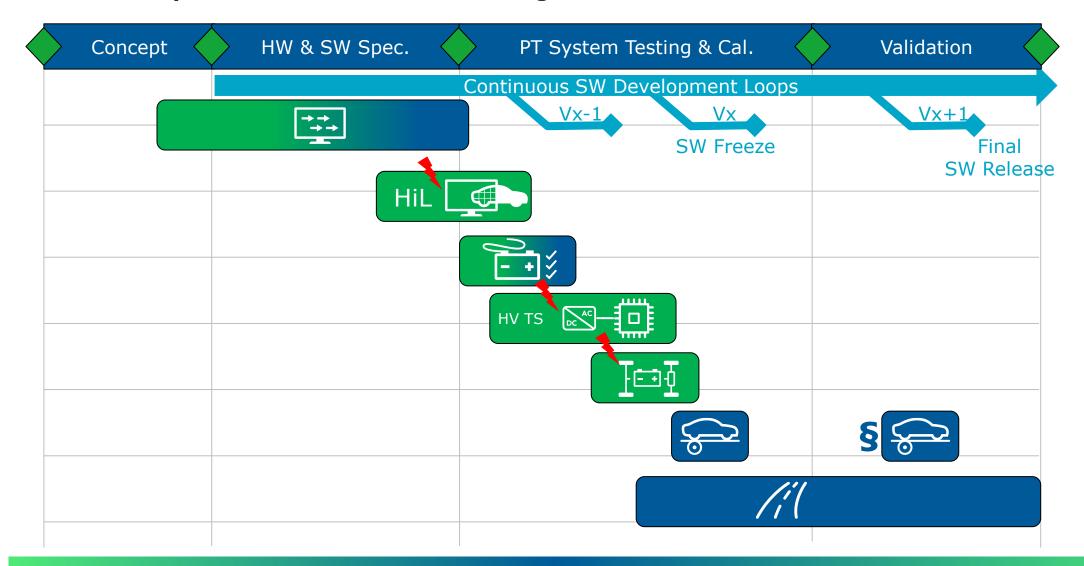
**Data Freeze** 

SOP

**Concept definition** Start of Testing

**Data Freeze** 

SOP



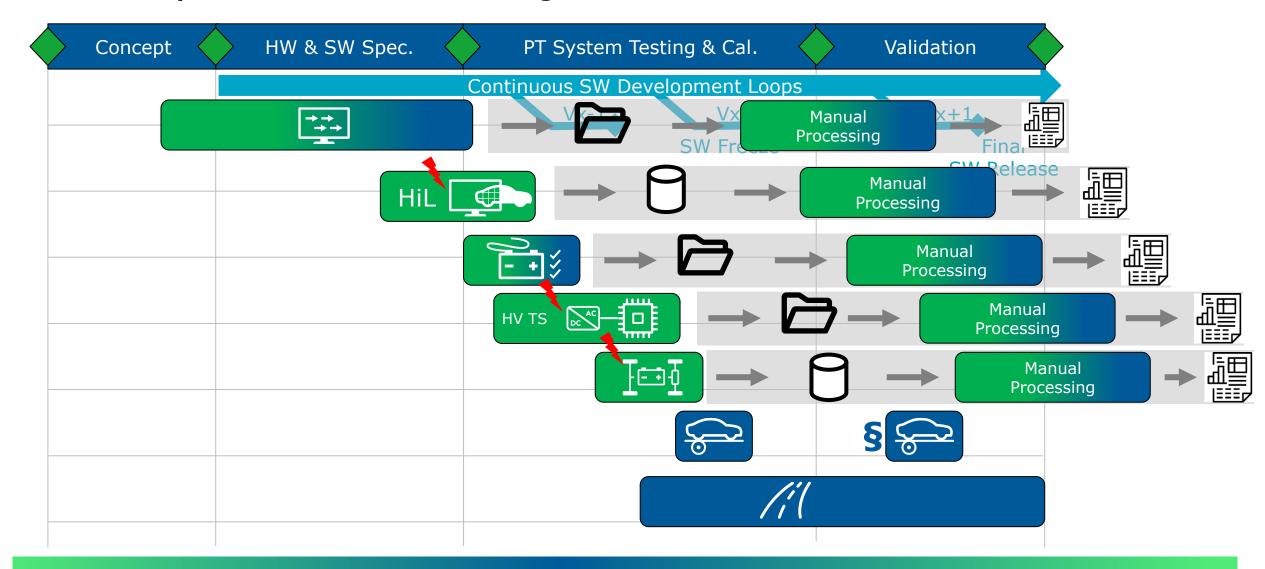
## **TRADITIONAL APPROACH WITH EARLY TESTBED USE ENSURES EARLY ISSUE DETECTION & SOLVING!**

**Concept definition** Start

#### Start of Testing

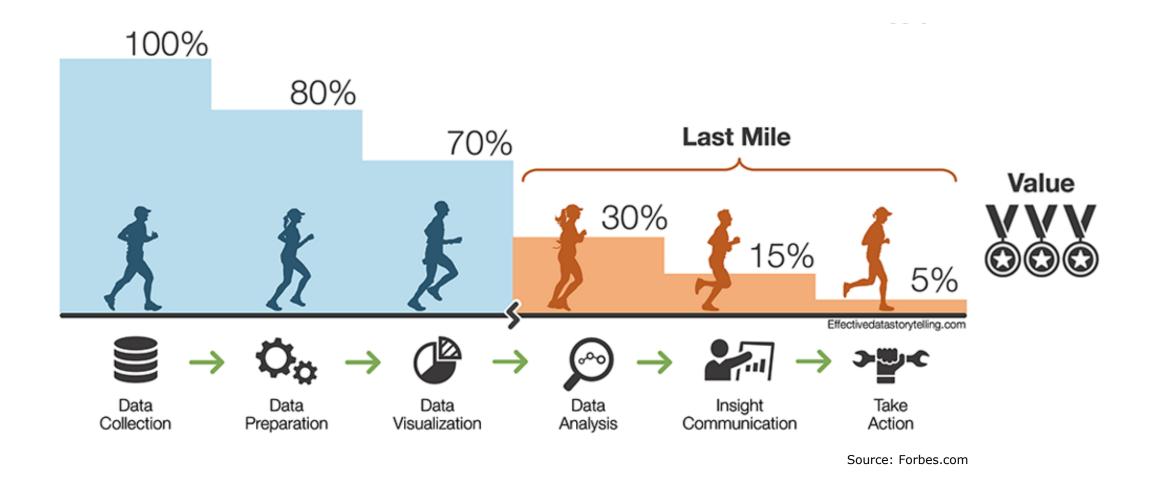
Data Freeze

SOP



## INCOMPARABLE TEST CASE, UNTRACEABLE STORAGE AND INEFFICIENT PROCESSING

Where Is Your Position in the Data Analytics Marathon ?

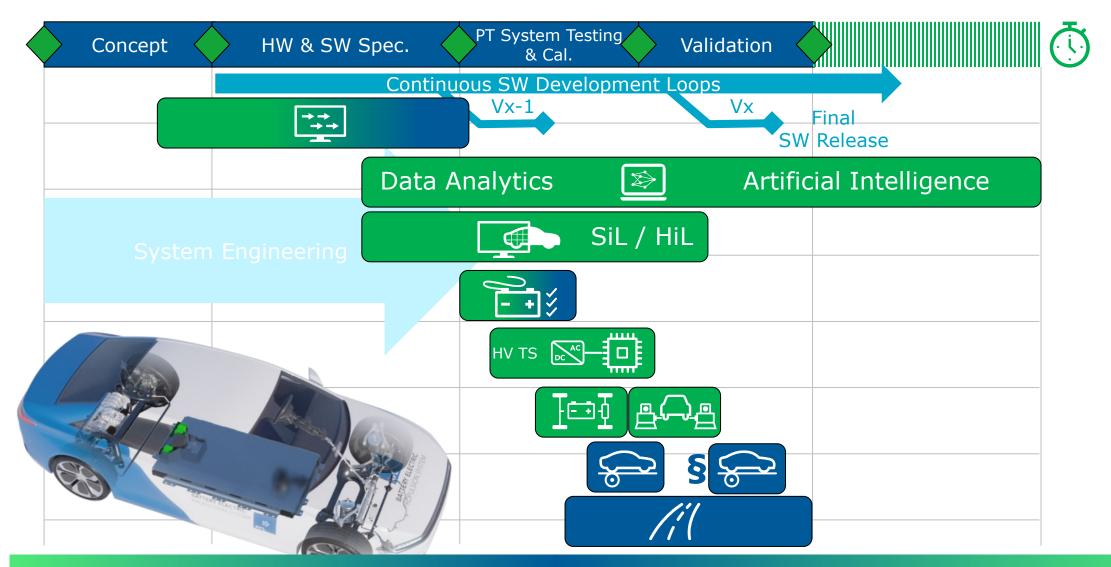


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Concept definition

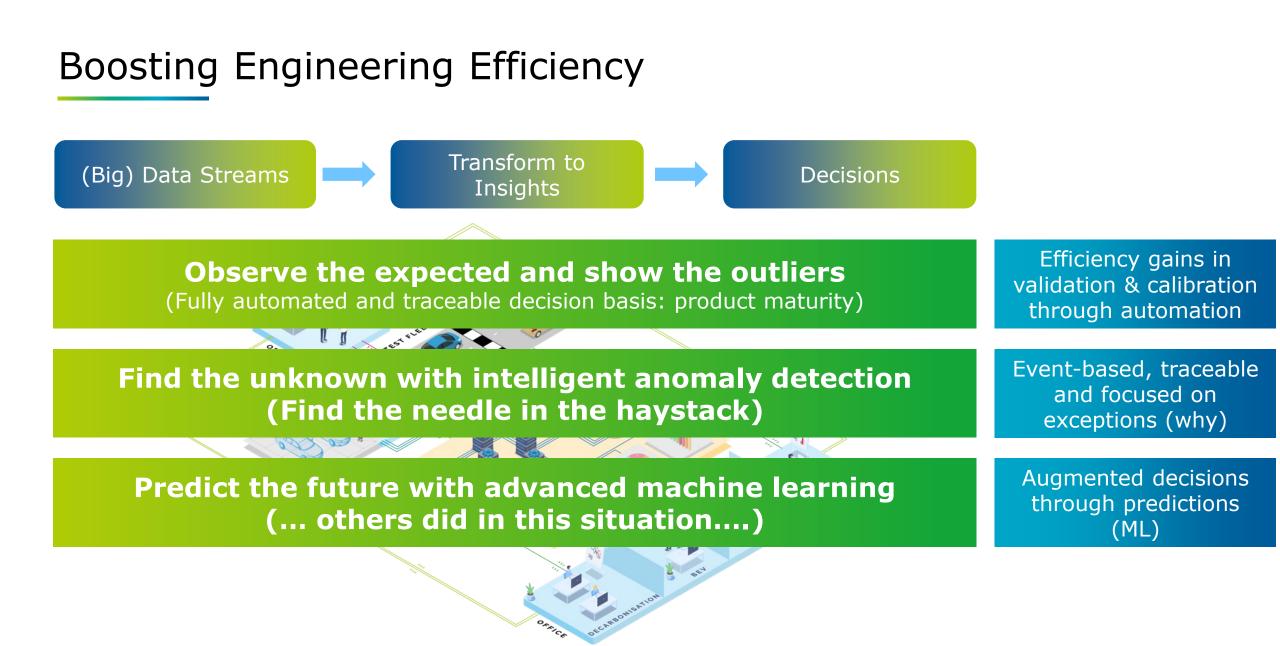
#### Start of Testing Data Freeze

SOP

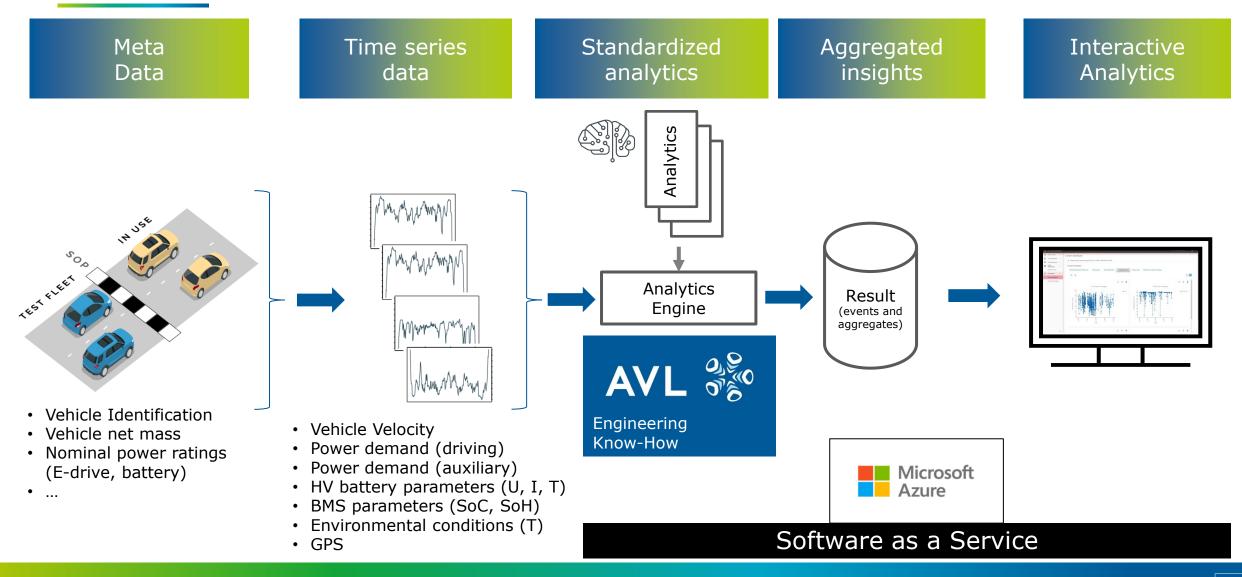


### **INNOVATIVE APPROACH IN POWERTRAIN DEVELOPMENT!**

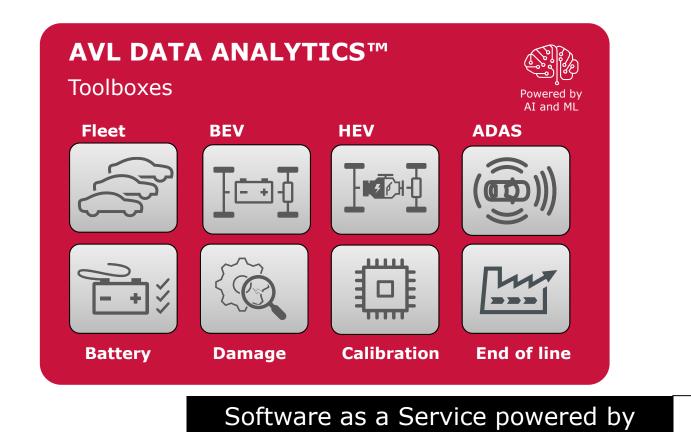
AVL Data Analytics™ Accelerate engineering decisions with data-driven insights



## Event-Based Analytics Focus On Aggregated Information



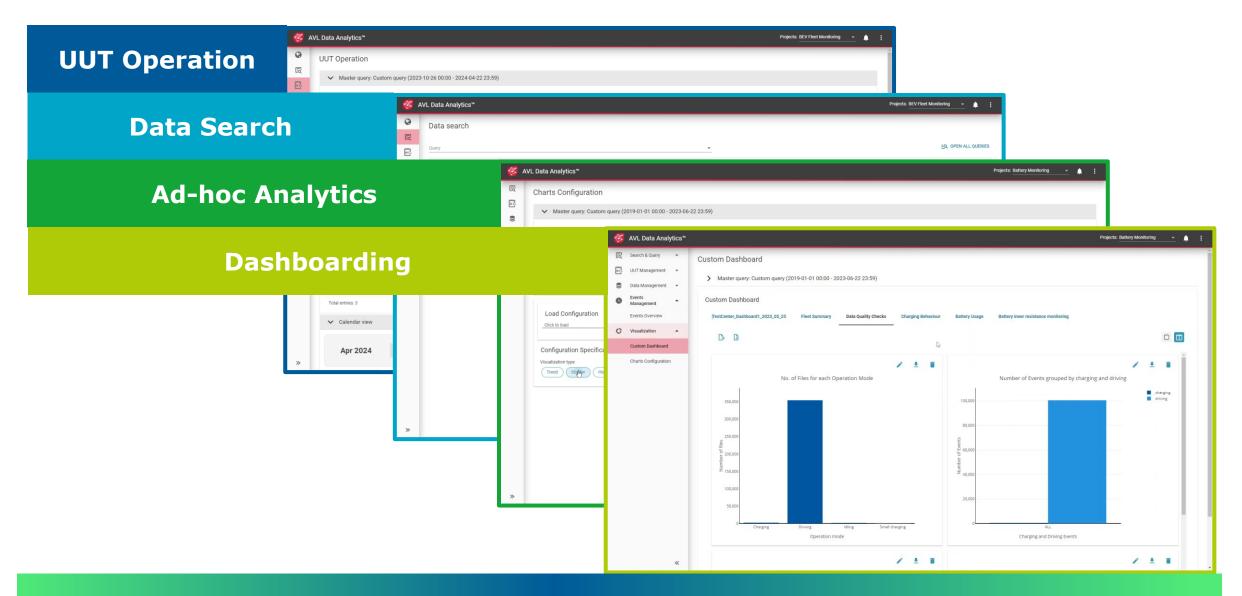
## Transform Data Streams to Application Specific Insights



Microsoft

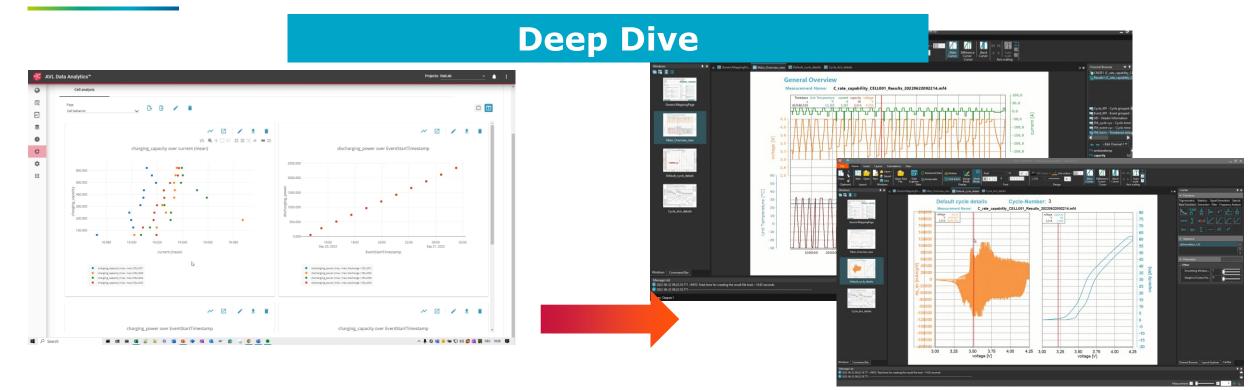


# Web base Engineering Frontend



#### Benefits: Web based data analytics to get a complete overview of the testing results

## Quickly Navigate the Data to Find the Root Cause



#### **From Analytics**



AVL Data Analytics™

#### **To Data and Take Decision**



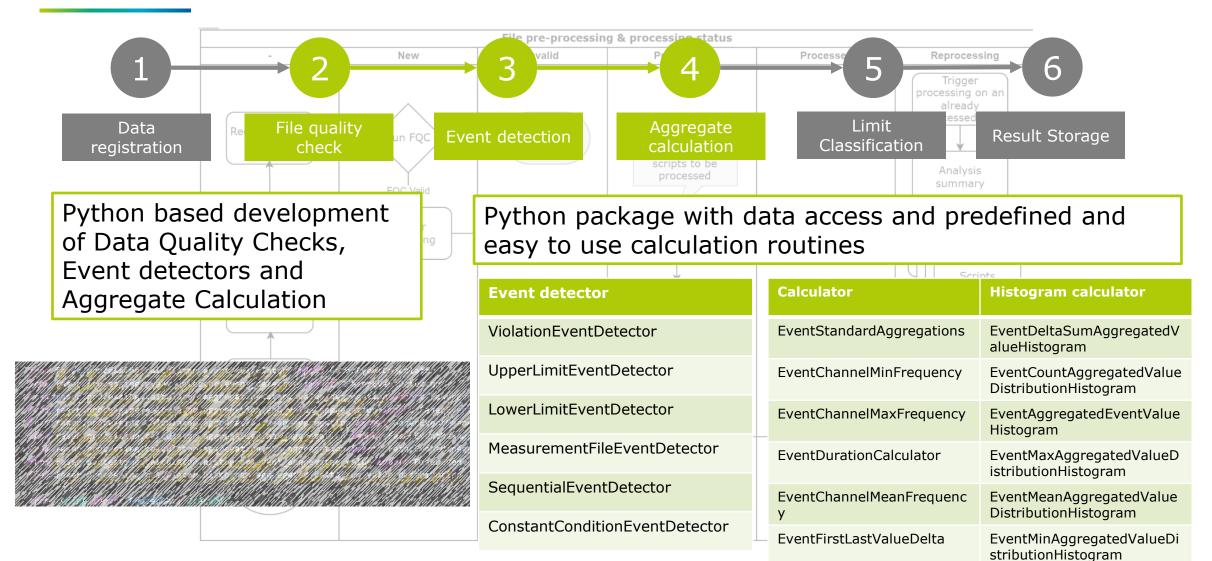
AVL Concerto™

Benefits: Save time in analyzing only the data that is needed. Navigate directly to the root cause in a view clicks.



## **Application Development**

## How to write your own analytics

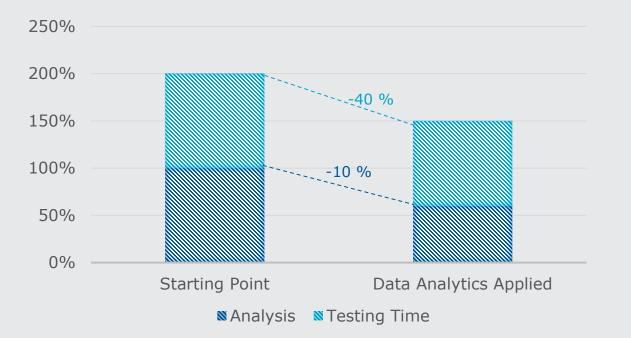




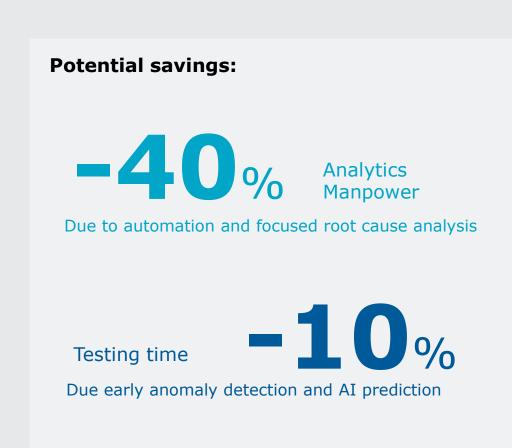
## Benefits

## **ROI of AVL Data Analytics & Processing**

### **Efficiency Increase with AVL Data Analytics**



#### Typical project: Cell characterisation



#### Basis: Characterisation projects over 2 years testing time

### Sos AVL Data Analytics<sup>™</sup> TESTFLEET

Frontioading & Correlation

## **Benefits:**

Engineering Inside Reduced data processing up to **40%** by standardized automated analytics

SIMULATION

Reduced test amount up to **10%** by cross environment data analytics

Basis for various **AI applications** for further efficiency gains

ADAS

AFTERMARKET

Data

DECARBONISATION

OFFICE

Althabler

## Accelerated development

by reuse of existing data.

## Seamless correlation

by data analytics methodology applied to all validation results.

#### Interactive Exploration

of thousands measurements enabled by the big data technology stack Democratization of data

via re-use and self-service analytics to realize a huge cost saving potential.



