Softwarelösung für Management und Analyse von Simulations- und Versuchsdaten

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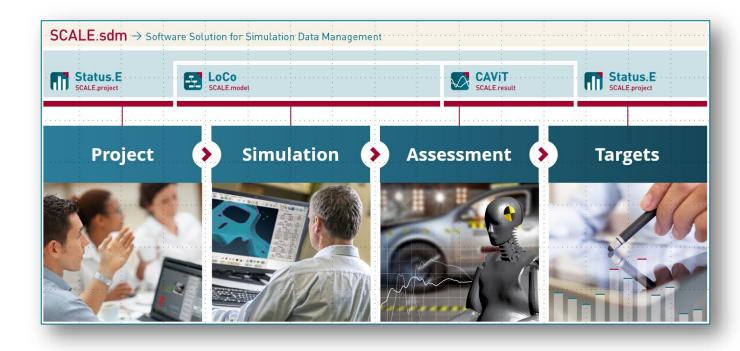
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Softwarelösung für Management und Analyse von Simulations- und Versuchsdaten

Agenda

- Introduction
 - SCALE.sdm / SCALE.result
- Key Features
- Live Demo





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 $\textbf{SCALE.sdm} \rightarrow \textbf{Software Solution for Simulation Data Management}$





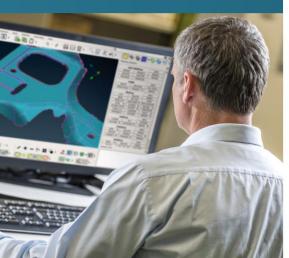








Simulation



Assessment



Targets





 $\textbf{SCALE.sdm} \rightarrow \textbf{Software Solution for Simulation Data Management}$















Assessment



Targets









CAT & CAE

Compare simulation and physical tests



Evaluation

Visualize and evaluate all key results



Assess Results

Assess with respect to project targets

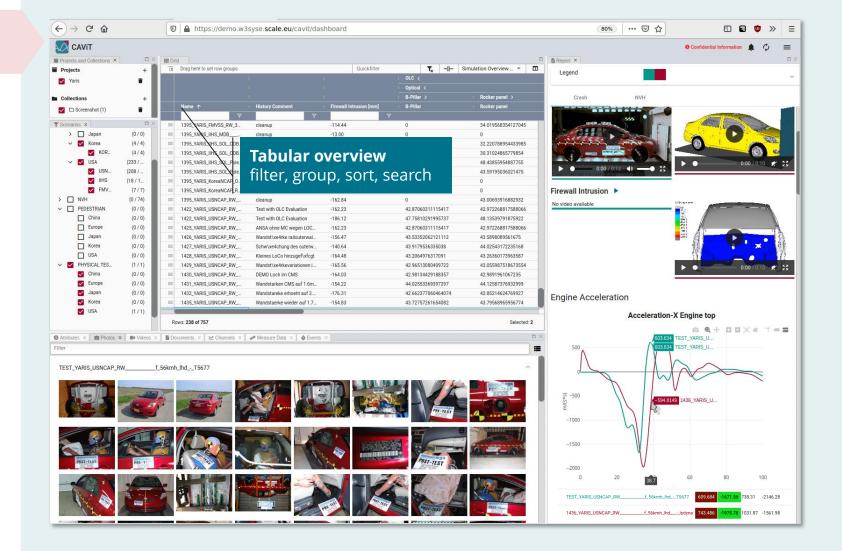


Reporting

Comprehensive and interactive reports



Data Analysis









CAT & CAE

Compare simulation and physical tests



Evaluation

Visualize and evaluate all key results



Assess Results

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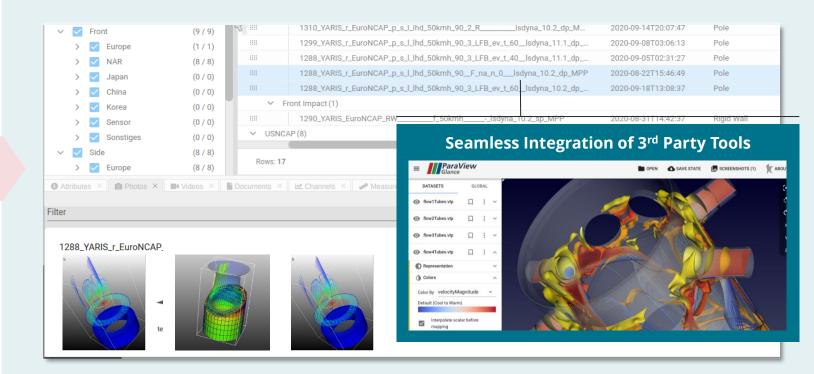
Reporting

Comprehensive and interactive reports



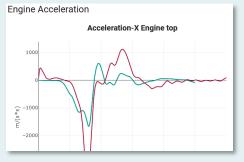
Data Analysis



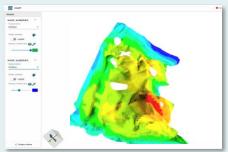




Overlay with 3rd party tools e.g. GNS Animator 4



Plotting (integrated)



Model / Measurements 3D Preview (integrated)





CAT & CAE

Compare simulation and physical tests



Evaluation

Visualize and evaluate all key results



Assess Results

Assess with respect to project targets

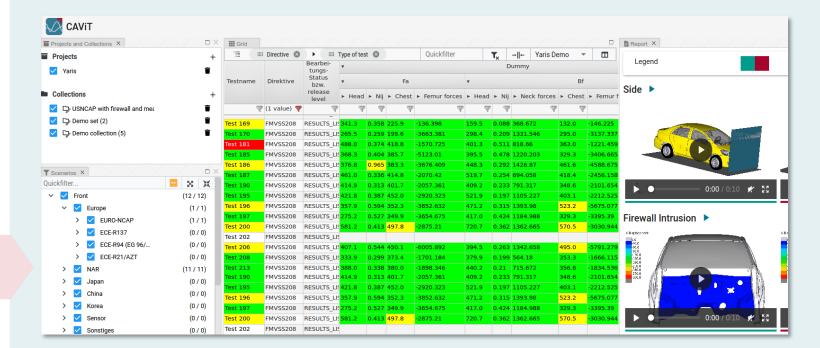


Reporting

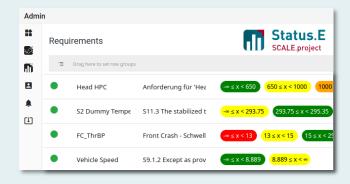
Comprehensive and interactive reports



Data Analysis



- Test and Simulations are pre-assessed
- Key result targets from SCALE.project are utilized
- User can manually override











CAT & CAE

Compare simulation and physical tests



Evaluation

Visualize and evaluate all key results



Assess Results

Assess with respect to project targets



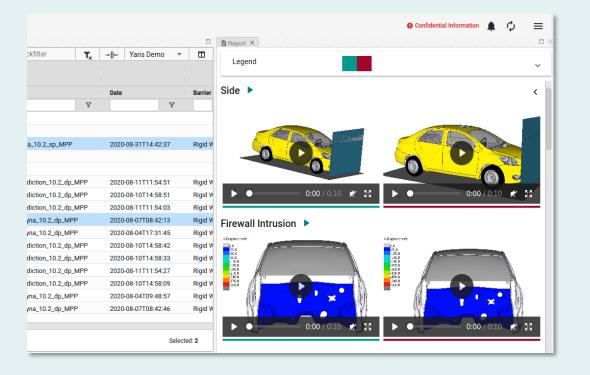
Reporting

Comprehensive and interactive reports



Data Analysis

Machine Learning and Data Mining





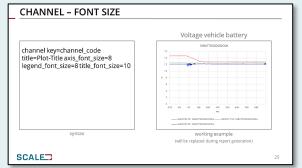












Templated based approach

Supported are Key-Results, Curves, Images and within web reports even Movies and 3D models







CAT & CAE

Compare simulation and physical tests



Evaluation

Visualize and evaluate all key results



Assess Results

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Reporting

Comprehensive and interactive reports



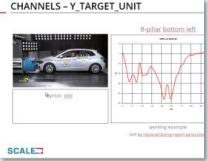
Data Analysis



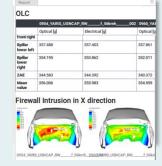




Text Documents



Slide based



Interactive







CAT & CAE

Compare simulation and physical tests



Evaluation

Visualize and evaluate all key results



Assess Results

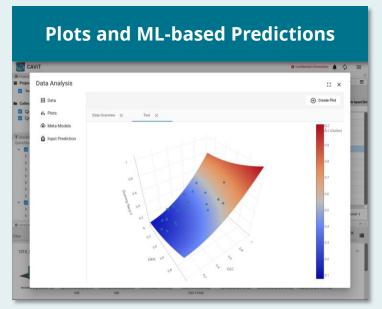
Assess with respect to project targets

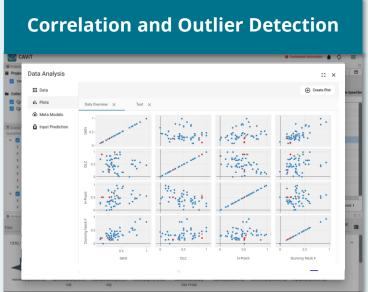


Reporting

Comprehensive and interactive reports







- All post data at one place allows data mining and data exploration
- SCALE.results integrates already ML-algorithms for
 - Neural network based and polynomial prediction
 - Outlier detection and statistical analysis
- Ready to integrate (even proprietary) custom code via plugin

















Agenda

- Access Data
 - Open Project / Collection
 - Preset Selection
- Basic GUI Concept
 - Filter and Test-Selection
 - Table (Sort, Filter, Group)
 - Properties
- Reporting
 - A4 Report (Compare CAT & CAE)
 - WebReport
- Data Analysis

Demo Environment demo.sdm.scale.eu

We will provide access data on request!





Summary











SCALE.result provides ...

- Seamless integration of test and simulation data
- Various options for viewing and comparing data
- Support for establishing data consistency and standardization
- Plug-in concept and interfaces for the integration of customer-specific tools and processes
- Data mining and exploration for large amounts of data using advanced algorithms









Scaleable

Scale your business



Cloud-ready

Runs in cloud – available everywhere



Easy to Customize

Customize to your needs with addons



Data Provision

Fast and easy access to process data



Cloud ready

Version Control Project management

Data Handling

Evaluation

Collaboration

Data compression Security

Customization

Reports

Usability

