CAVIT | Status.E

Evaluation, comparison and validation of CAT & CAE data

Martin Liebscher

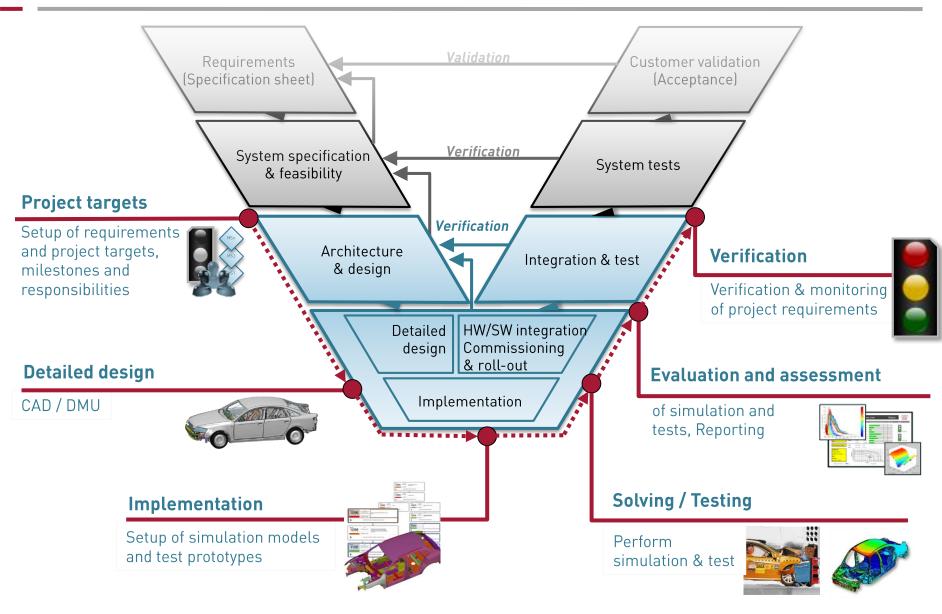
Gordon Geissler

Rainer Hausdorf

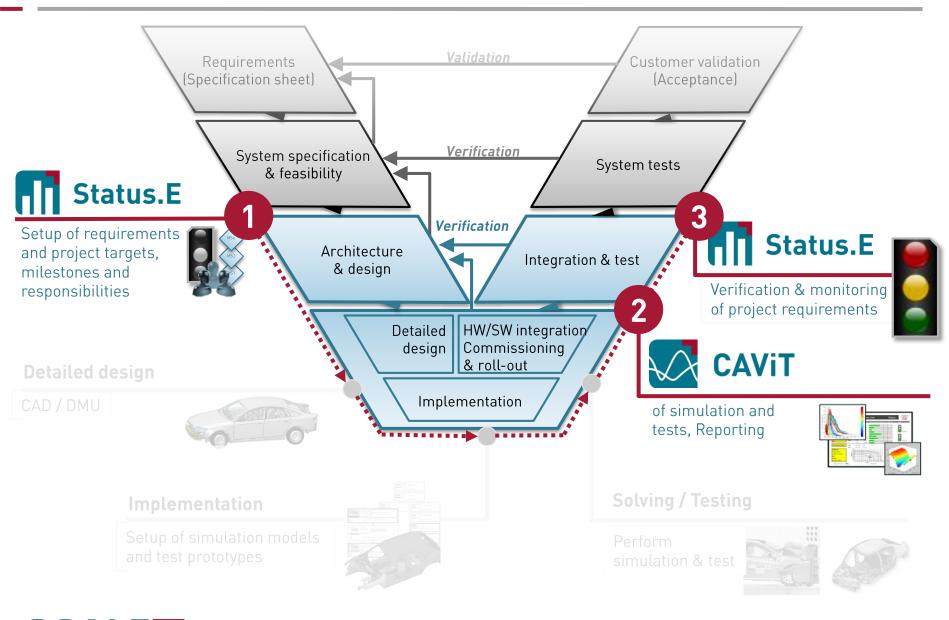
Automotive CAE Grand Challenge, April 2016

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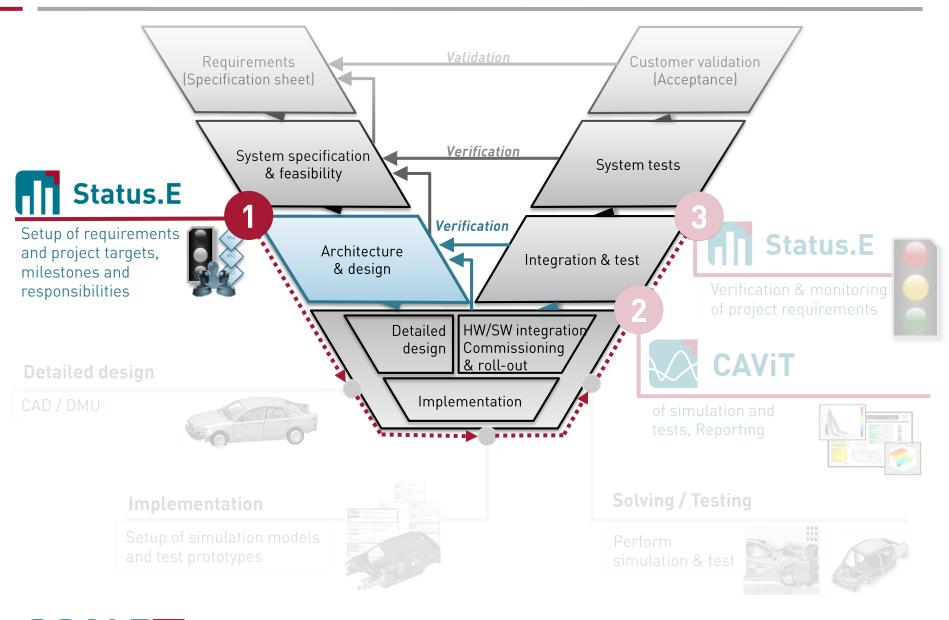








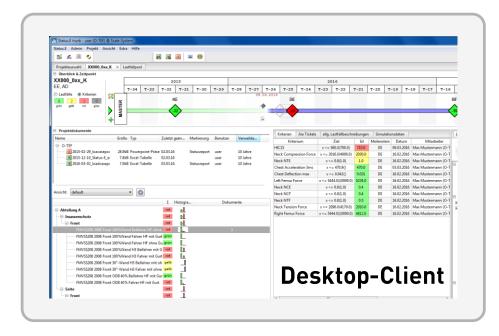






Status.E: Monitor and Report Project Status





Native iOS APP To provide the second of the



Characterization

- Requirement and Test Case Management
- Status Monitoring
 - Track fulfillment of project targets / requirements with respect to project milestones
 - Status aggregation for projects
- Reporting generation of status reports (ppt, doc, pdf)
- Documentation Integrated document management system



Project Setup: Define Project & Responsibilities



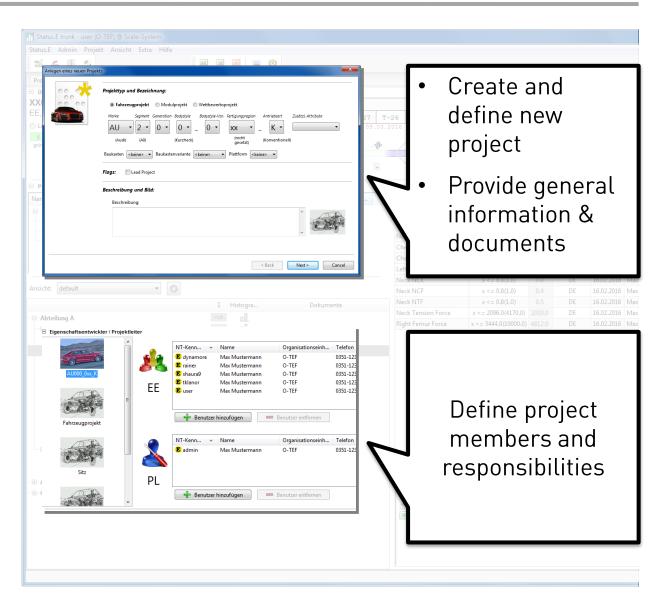




Project Milestones



Test Cases (Load Cases)





Project Setup: Milestones





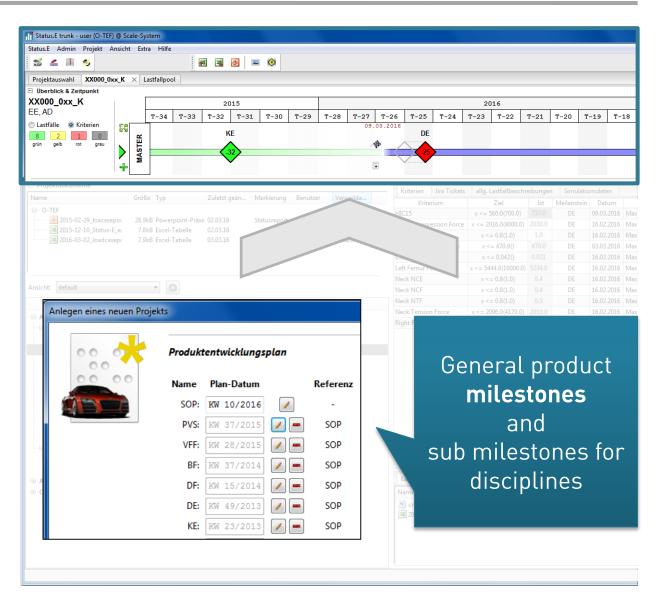
Define Project



Project Milestones



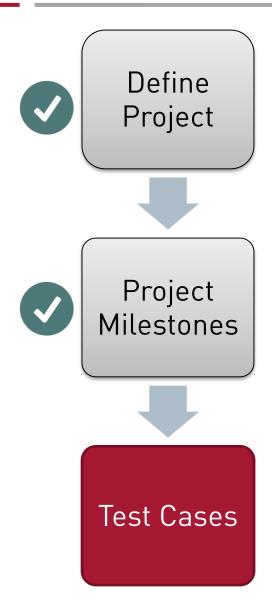
Test Cases

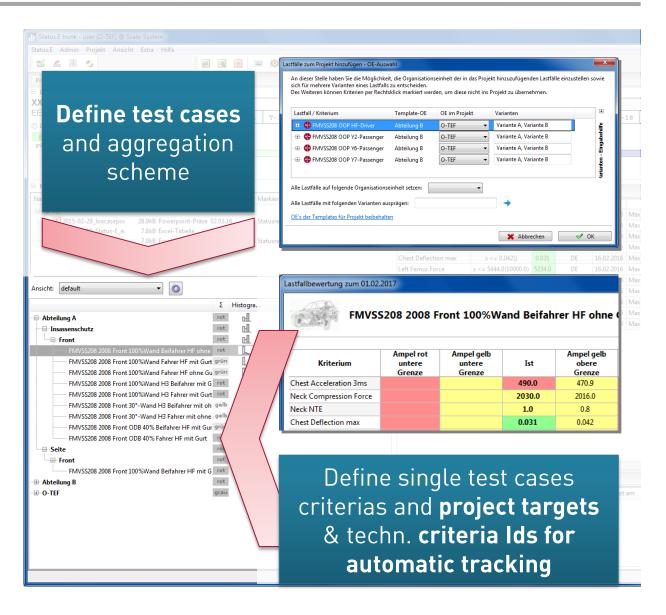




Project Setup: Test Cases and Project Targets



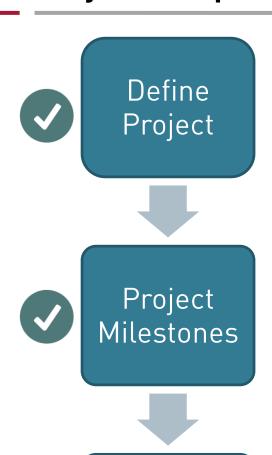




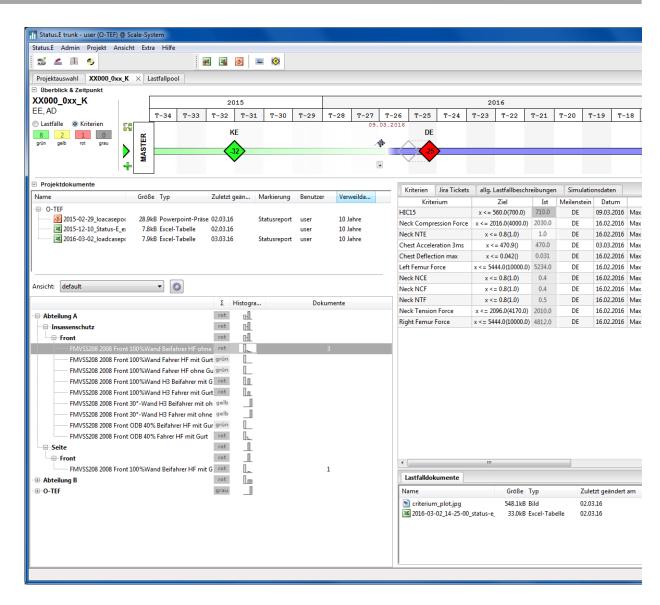


Project Setup

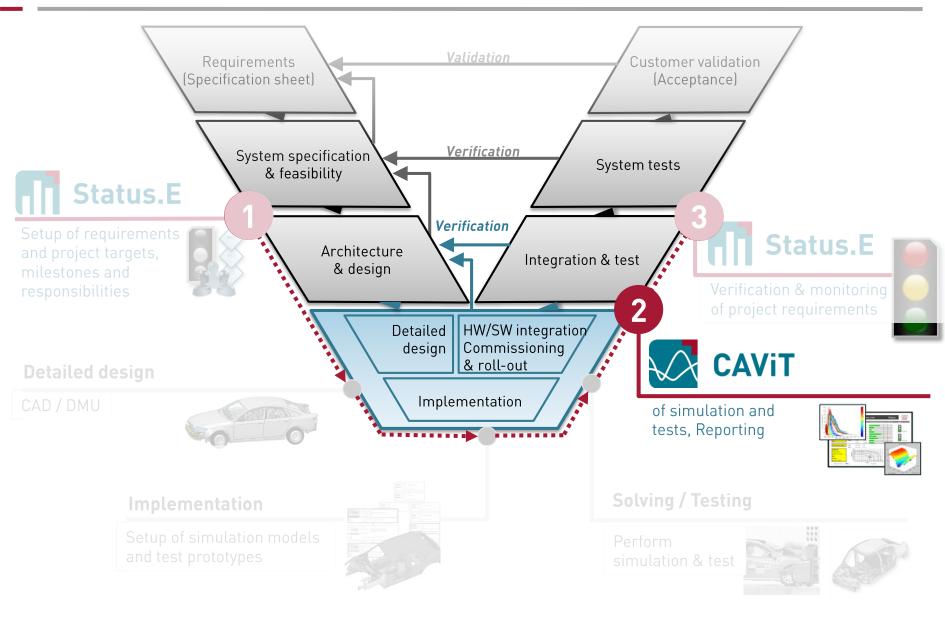








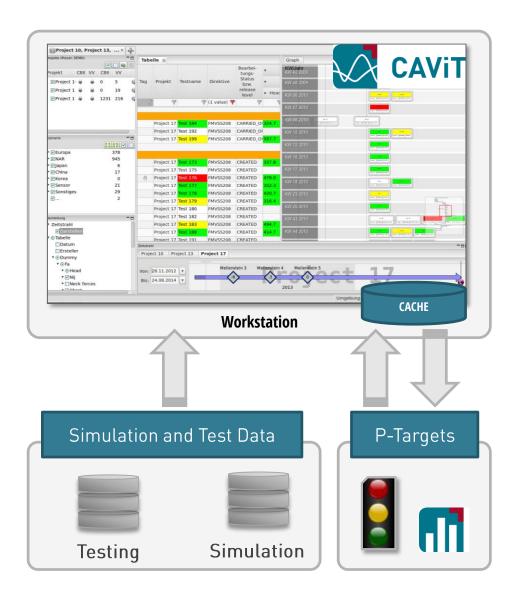






CAVIT: Evaluation, Assessment and Reporting





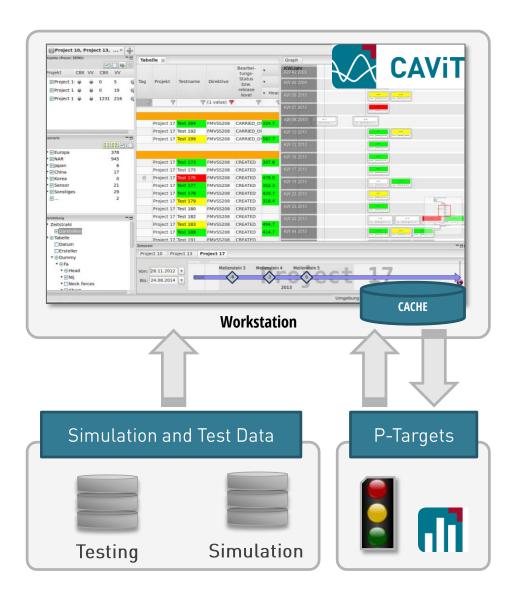
Characterization

- Provide easy and fast access to test and simulation results
- Uniform handling of test and simulation data
- Seamless integration of existing post processors, scripts, ... not (!) replacing them
- Provide workflow automation and reporting capabilities



CAVIT: Evaluation, Assessment and Reporting





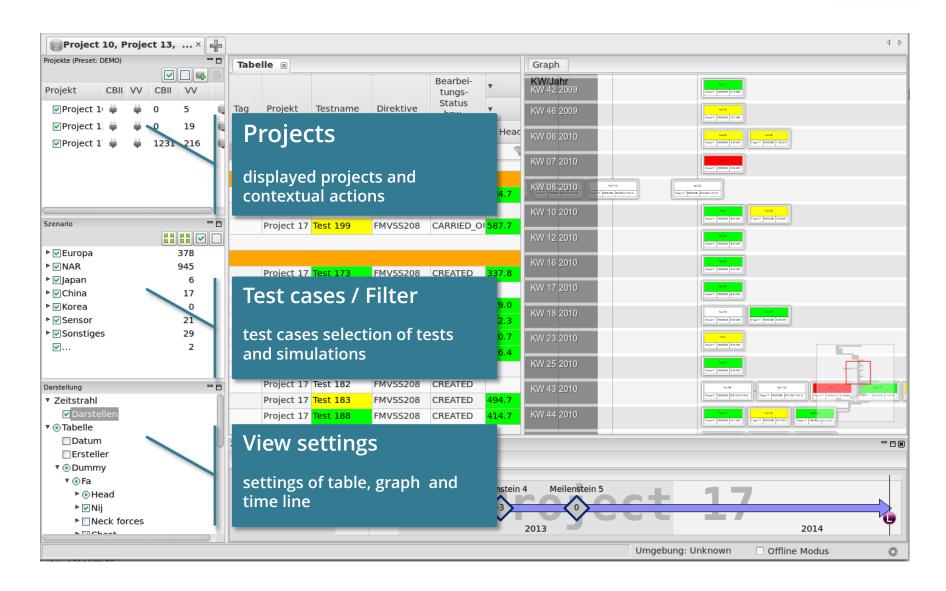
Characterization

- Data collection from several backend systems
- Cache of data for fast local access, particular important for bulk data
- Offline capabilities [Caching]
- Interfacing with Status.E for test cases and assessment criteria
- Assessment based on project targets



GUI Overview I



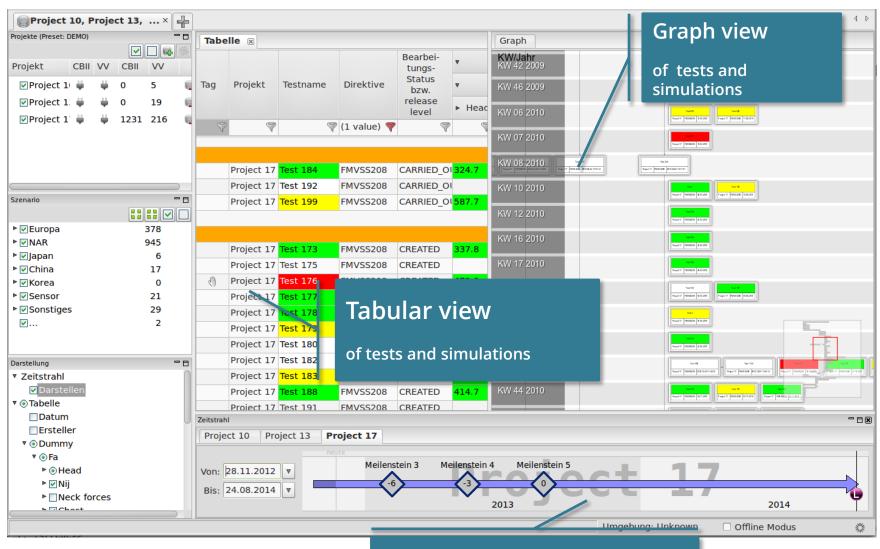




GUI Overview II







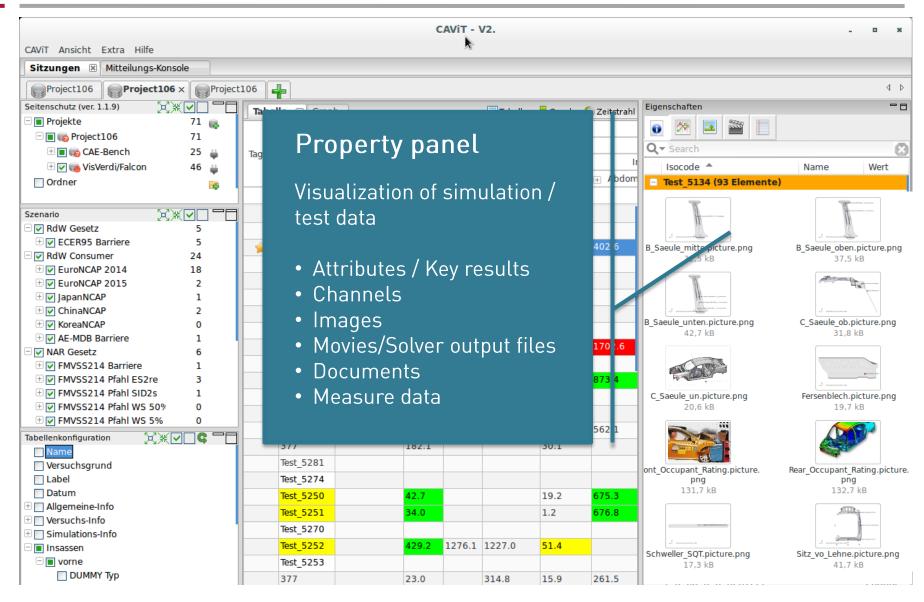




GUI Overview III





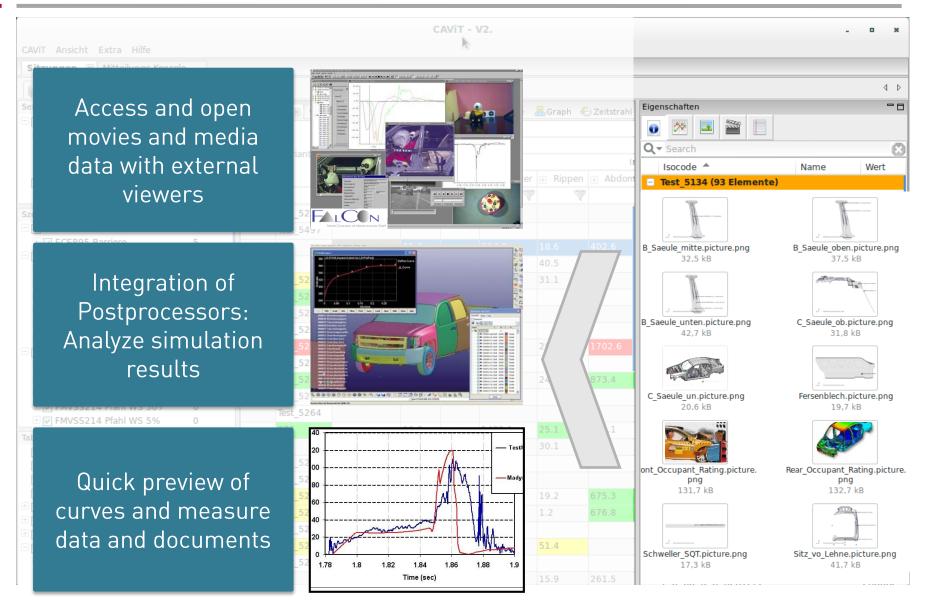




Evaluation: Access Result Data









Evaluation & Reporting: Run Tools and Reports



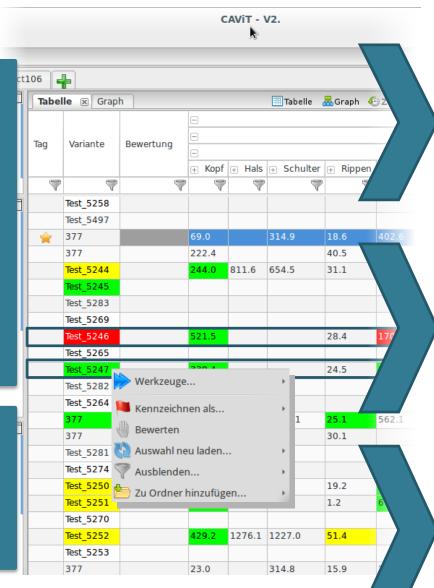


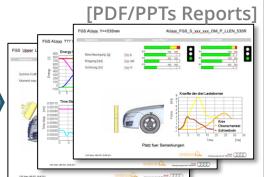


- Generation of Word documents based on docx templates
- Dedicated support for Reporting via **GNS** Animator

Extendable via plugins

Flexible customization





[Video Overlay]



[docx Reports]





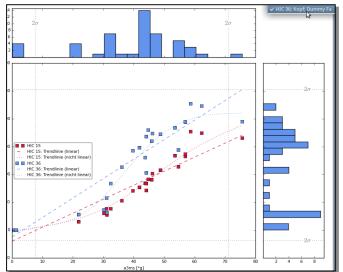
Evaluation & Reporting: Run Tools and Reports

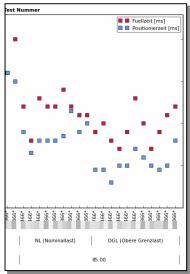




PlugIn Example #1 Plotting

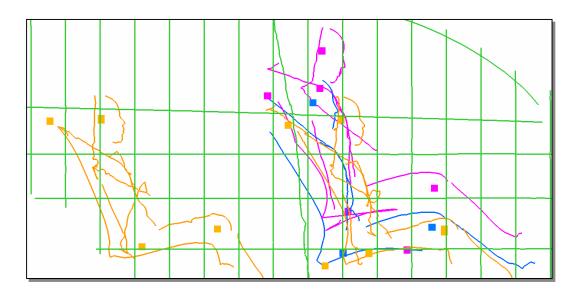
- Trend analysis
- Statistical parameters





PlugIn Example #2
Compare Dummy
Positioning

test vs. simulation

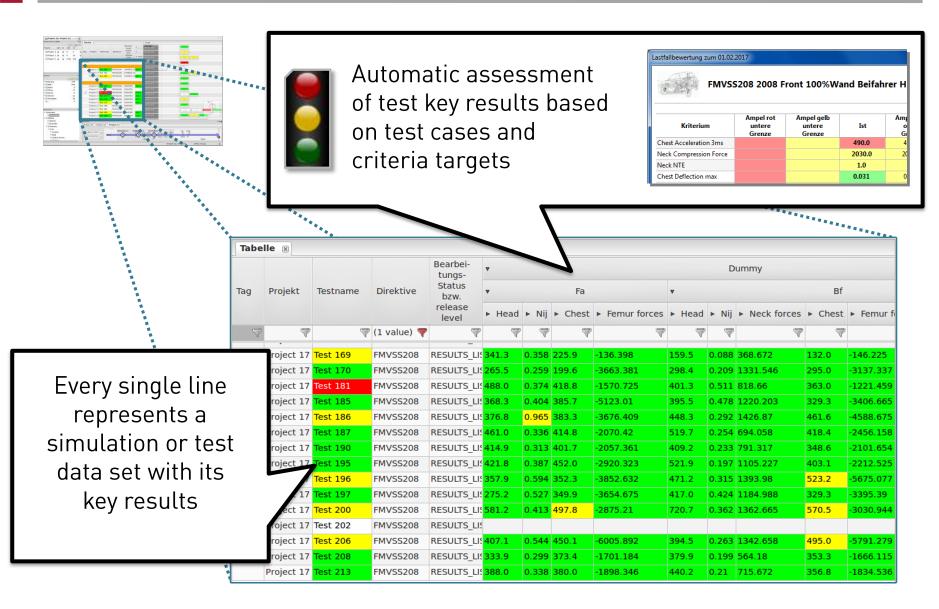




Assessment and Reporting



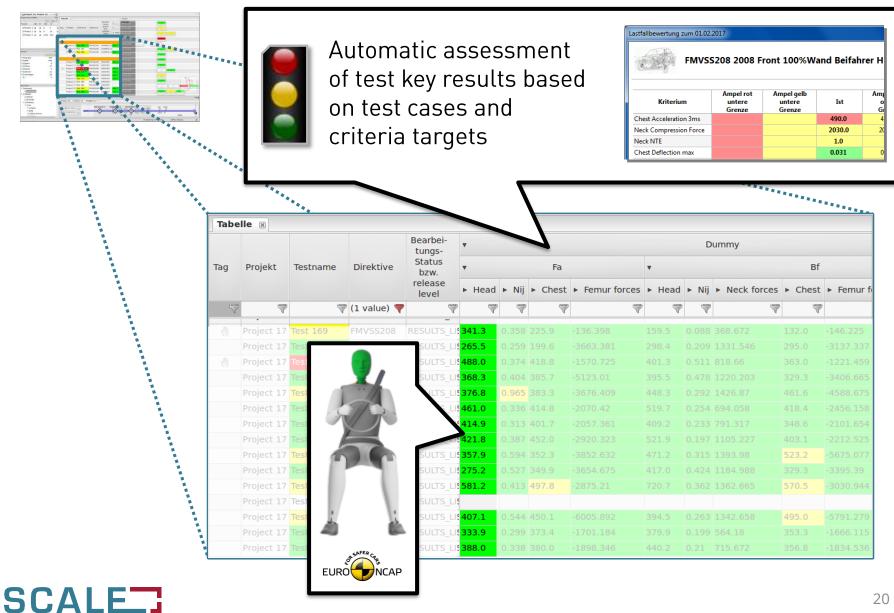






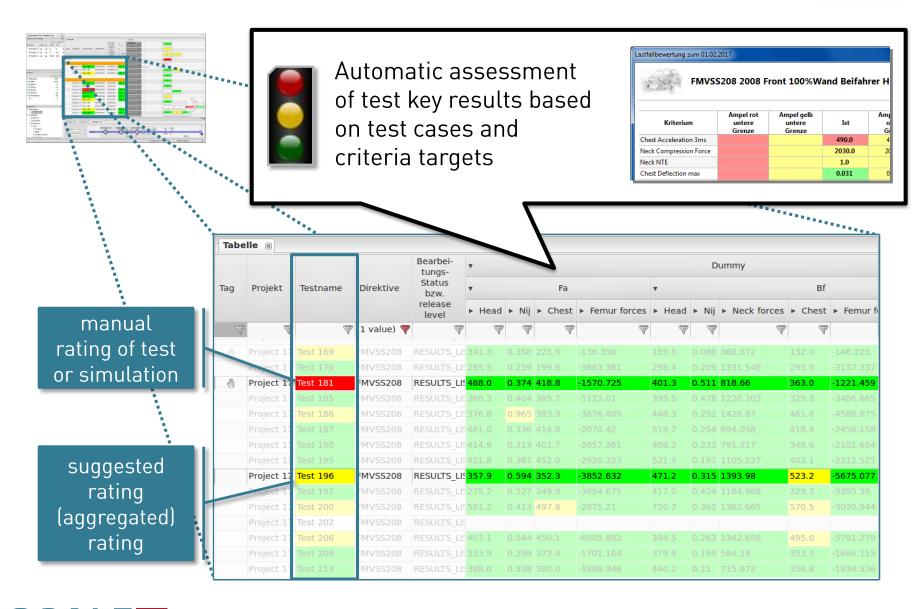
Evaluation, Assessment and Reporting





Evaluation, Assessment and Reporting





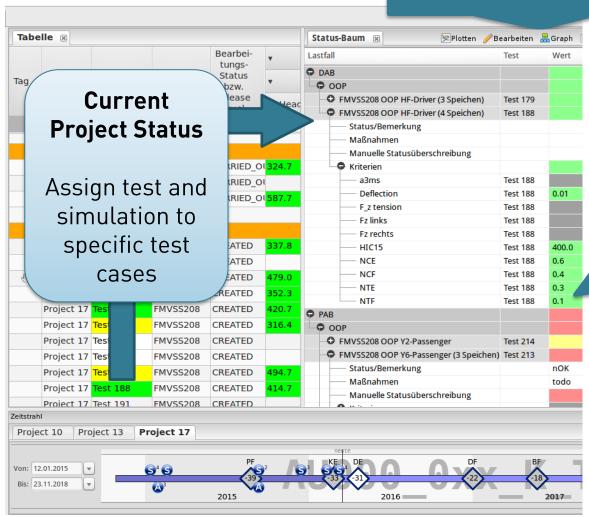


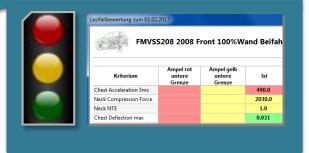
Evaluation, Assessment and Reporting





predefined test cases & project targets

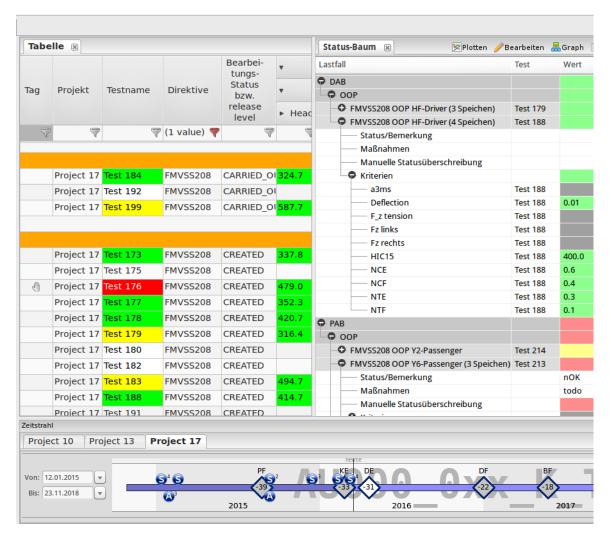


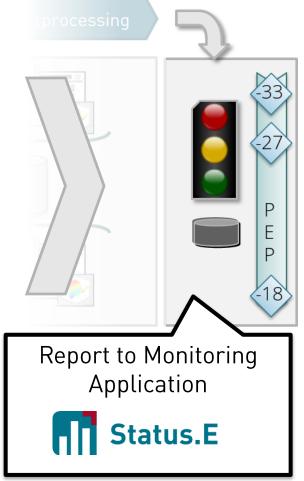


Fulfillment overview for test cases and project targets on individual criteria

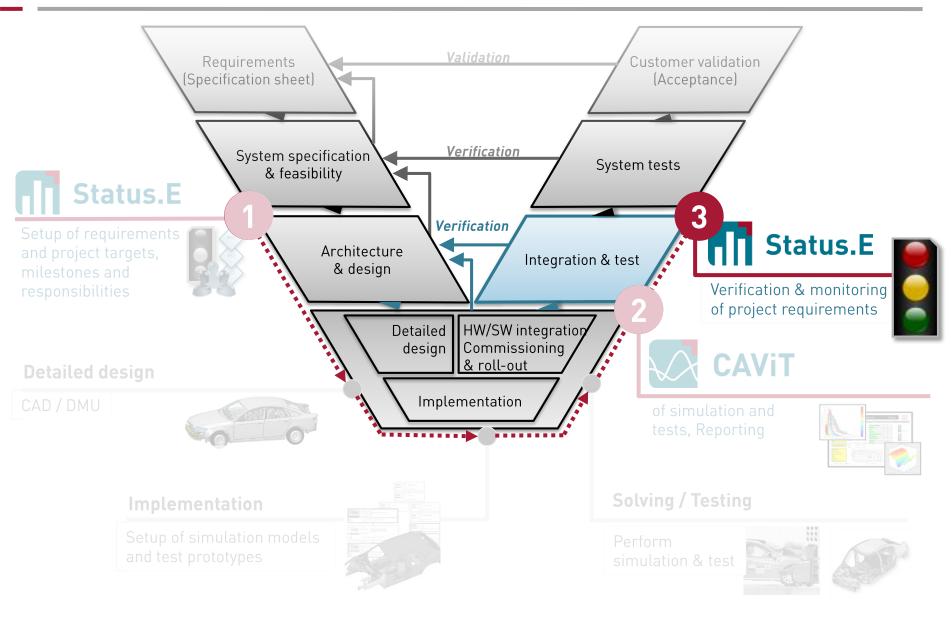


CAVIT: Reporting





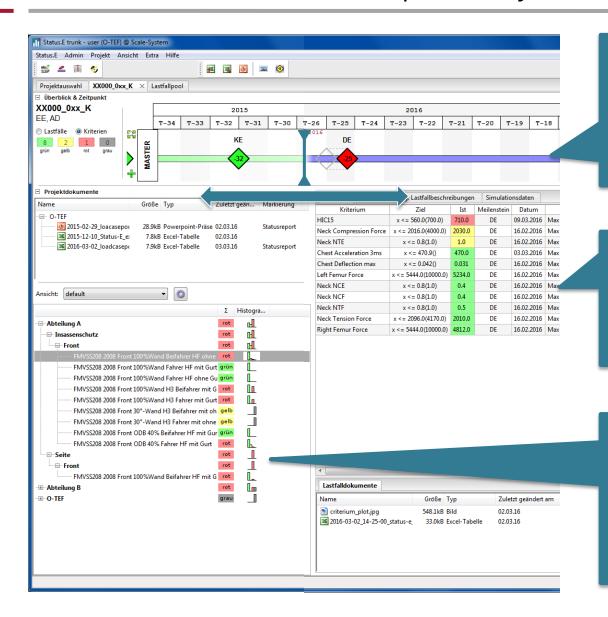






Verification: Monitor & Report Project Status





Report status for project milestone or date

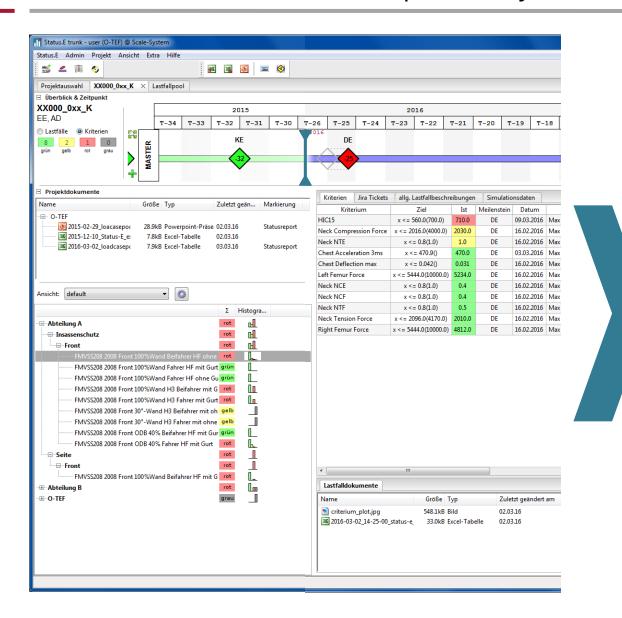
Detailed view of individual test case criteria reported by CAViT

- Fulfillment of test cases at selected date
- Hierarchical status aggregation



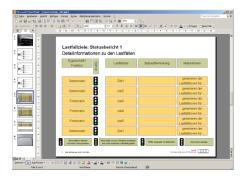
Verification: Monitor & Report Project Status





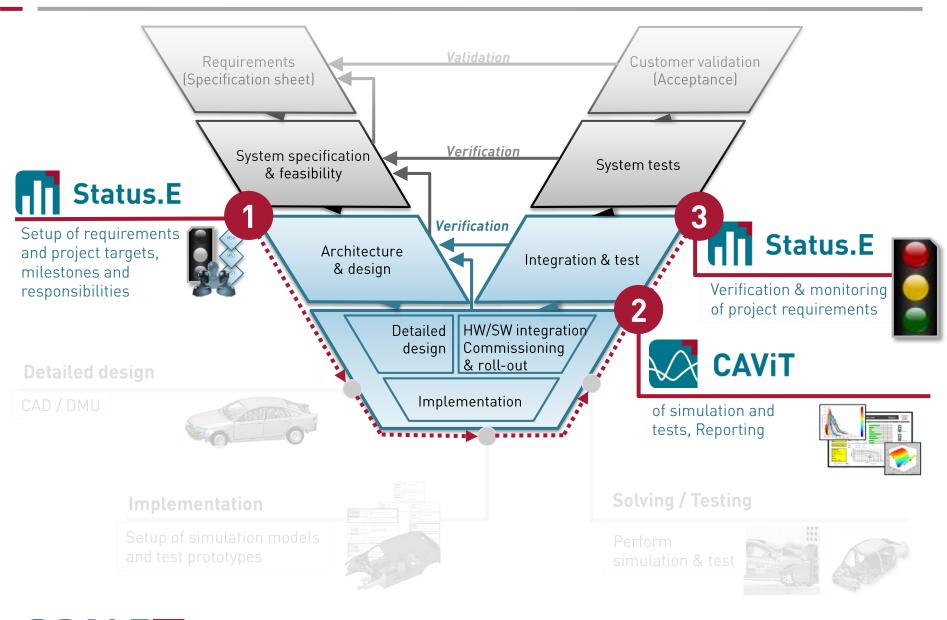


[PPTX]











CAVIT | Status.E: Summary



Project Monitoring & Test Case Management

- Defining test cases, project targets and responsibilities
- monitoring and reporting the product development status



Workbench for simulation and test engineers

- Integrated view of CAT and CAE post data
- Evaluation and assessment of simulation and tests
- Reporting capabilities
- Process automation via scripts and plugins



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