

Seamless Calibration Process in the Automotive Domain with OSLC



General objectives (related to CRYSTAL WP3.4)

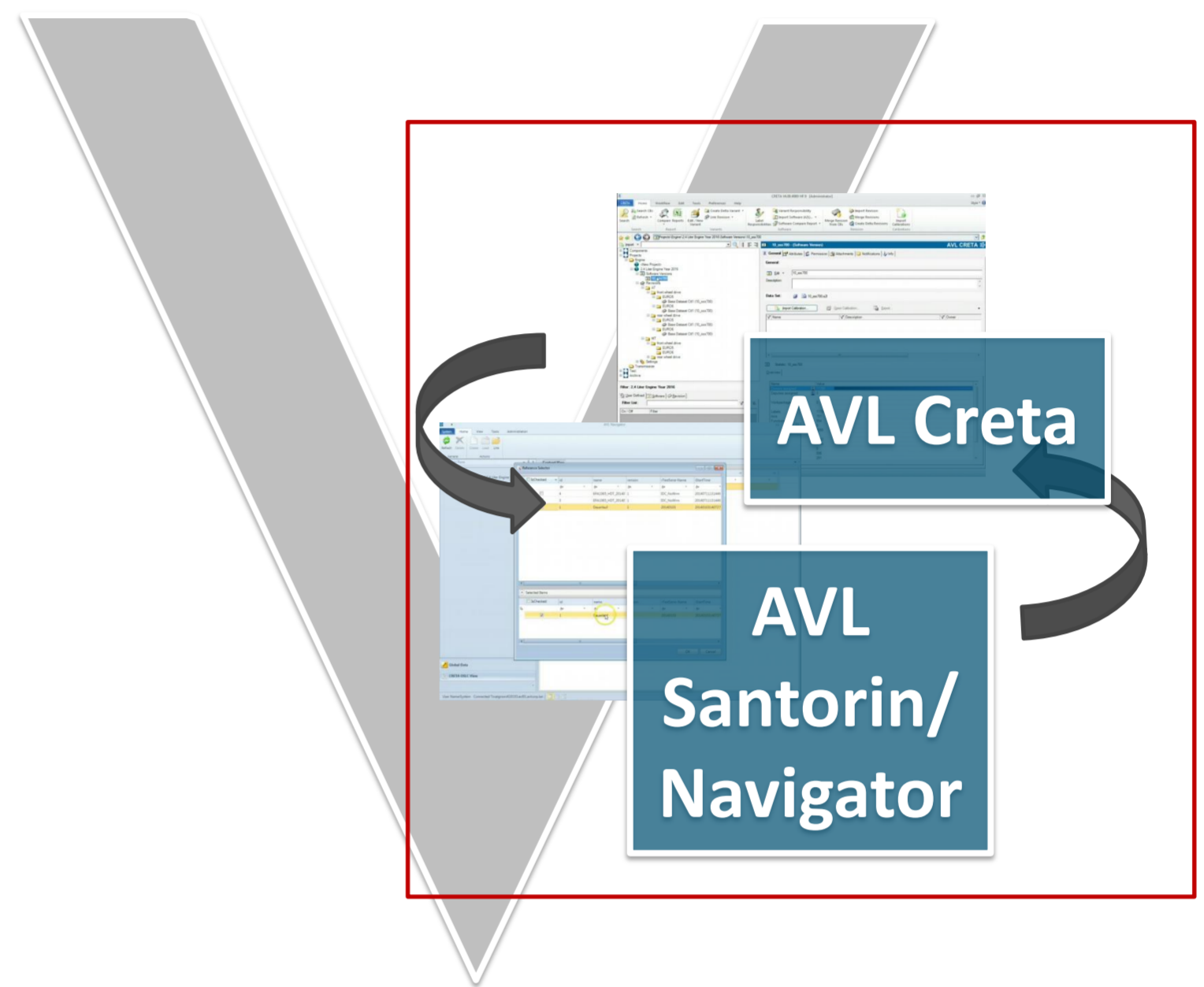
- **Integrated development process over different development phases (e.g. Simulation phase, Engine Testbed, Vehicle Testbed, Road)**
- **Provide traceability of resources within lifecycle**
- **Linking calibration and measurement data**

Involved Tools

- **AVL CRETA** as calibration data management backbone
- **AVL SANTORIN** as measurement data backbone
- **AVL Navigator** for data navigation and link control

Use Case Workflow

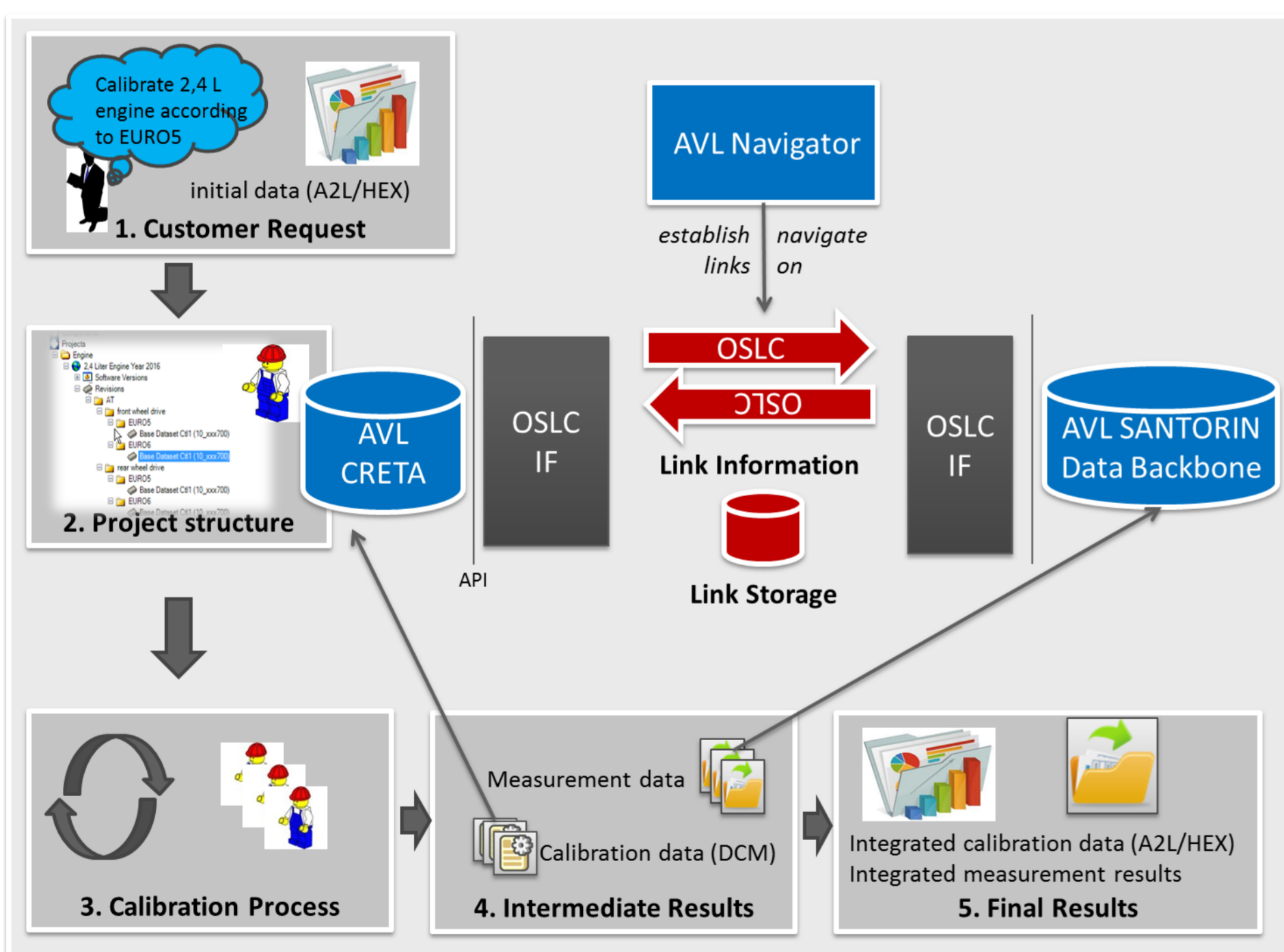
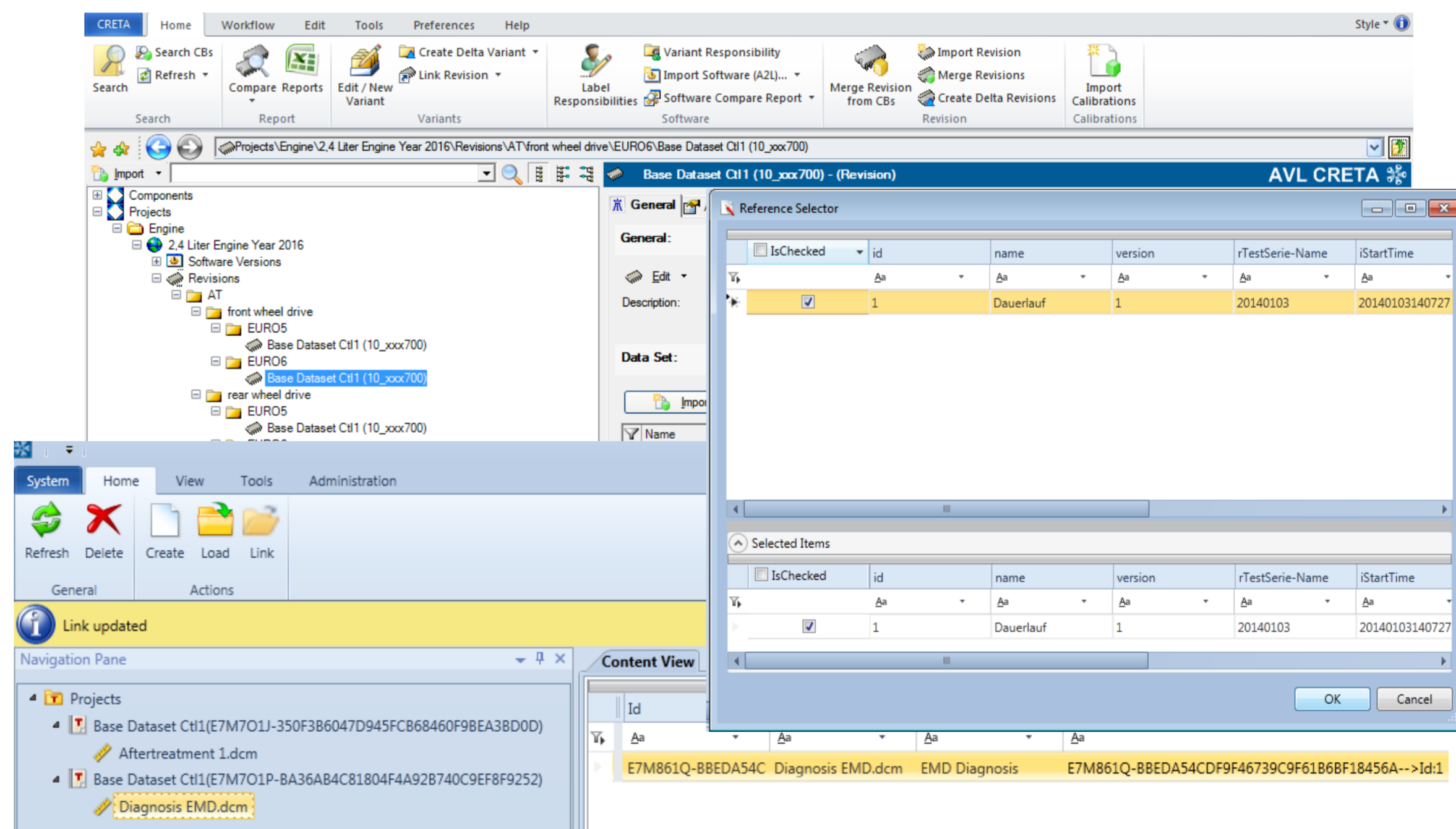
1. *Customer request for overall calibration goal (e.g. WLTP, EURO5, etc.) with initial parameter set*
2. *Project leader derives specific calibration tasks and assigns them to calibration engineers*
3. *Calibration engineers perform calibration tasks and store calibrated parameters and measurement results in databases*
4. *Calibrated parameters and measurement results are linked*
5. *Project leader delivers linked results to the customer*



Prototype Implementation

- Uniform navigation of calibration and measurement data via **AVL Navigator**
- **OSLC adapter** for AVL CRETA and AVL Navigator
- Using **standard OSLC Asset Management Specification 2.0**
- Persistent **data storage** for OSLC links (currently on file system)

Establishing OSLC Links in Tool Chain



Benefits

- No manual transfer of data between tools
- No redundant data (linking instead of copying)
- Full traceability among all artifacts
- OSLC as basis for flexible choice of tools
 - AVL Navigator
 - IBM RELM
 - MentorGraphics Context SDM

Outlook

- Automated OSLC link creation
- Integration with requirement engineering and testing process
- Cross tests for flexible choice of tools

Involved partners

