



Project „Flexible Assembly Processes for the Car of the Third Millennium (MyCar)“

Problem Description (High Level)

Virtual Assembly Plant Platform (VAPP) & Database for Virtual Commissioning

CASP

DAIMLER

SIEMENS

 **EDAG**

Problem Description

... Why do we need a workflow management system for collaborative computer-aided production engineering and more specifically virtual commissioning...?

Drawbacks of current practice in automotive industry

- The generation and the execution of a virtual commissioning project may take a long time and may involve several organizations in different geographical locations.
- Monitoring and improving the production plans may be complex and difficult to automate.
- The commercial Computer-Aided Manufacturing/Engineering (CAM/CAE) systems, used by process designers and planners, can be different. The internet-based manufacturing needs to overcome this heterogeneous software environment.
- Data inconsistency and data redundancy.

Collaborative production engineering management

The objective of this exploitable result is the development of a **workflow management system** for collaborative computer-aided production engineering in **which Original Equipment Manufacturer (OEM)** and **supplier companies** interact with the help of a diverse range of design and engineering tools.

