

my-CAR

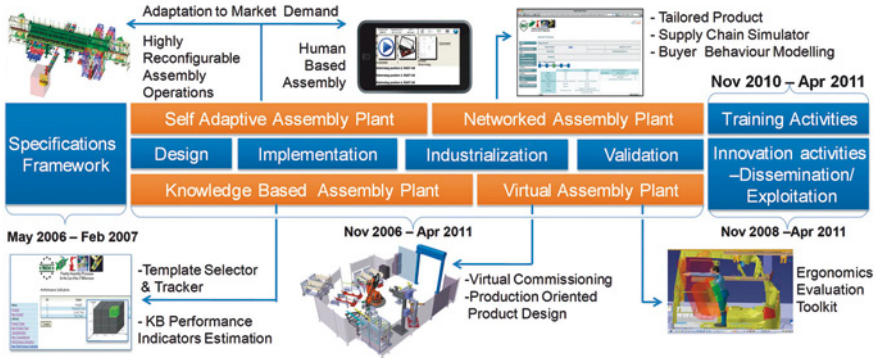
Flexible assembly processes
for the car of the third millennium



■ Motivation and Objectives

MyCar envisions long term sustainability of EU vehicle manufacturing considering the customer as the core element, offering personalization to achieve market differentiation against non-EU competitors.

■ Project Plan, Milestones and Deliverables



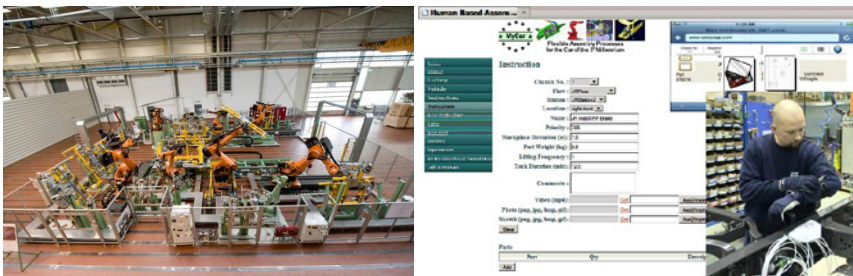
■ Technical Approach

- **Enhancing production flexibility** / increasing number of models produced in a single line - flexible assembly equipment and human operators to easily adapt to market variations.
- **Shorter ramp up times** - virtual validation of production using realistic model of actual production – advanced human ergonomics simulation.
- **Supply chain flexibility** - enhanced supply chain communication flows to enable real time decisions.
- **Closing the loop between production & design** - shorten product / process implementation time.

■ Achievements

Twenty-two exploitable results, demonstrated in physical and virtual pilots, two of which are the following:

- **Virtual commissioning method:** Verification of mechanical behavior of the line and cell in conjunction with PLCs in loop in a virtual environment (Daimler Trucks Framing station Pilot);
- **Operator support system:** Automatic identification of products and operators and provision of information at the right place, at the right time and in the right manner (Volvo Trucks Pilot Case).



Budget	9.6 M€	Funding	6 M€
Duration	60 months	Start	May 2006
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