

## Know4Car

### An Internet-based Collaborative Platform for Managing Manufacturing Knowledge

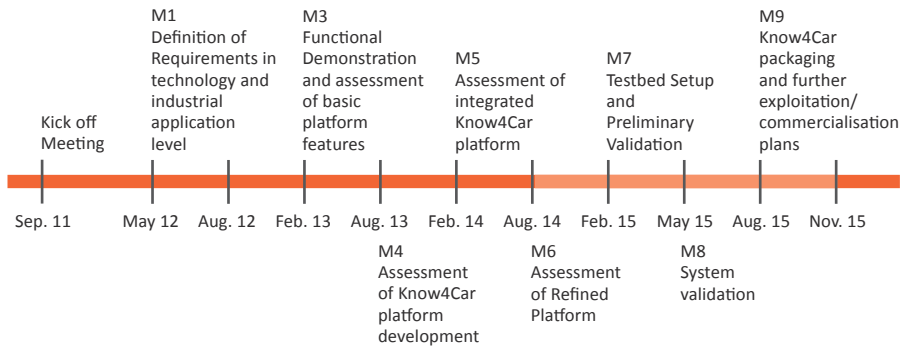


#### MOTIVATION AND OBJECTIVES

The Know4Car project addresses the following objectives:

- More efficient knowledge management and collaboration throughout the product life cycle, supporting the capture, the systematic organisation of manufacturing knowledge.
- Advanced, knowledge-enabled User Interfaces (UI) context in the engineering office and the shop floor, with emphasis on faster, easier UI for data entry and feedback.

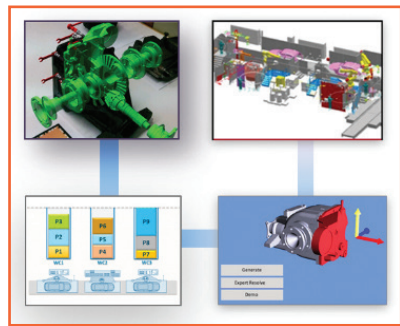
#### PROJECT PLAN, MILESTONES AND DELIVERABLES



#### TECHNICAL APPROACH

The Know4Car components are developed as an integrated platform comprising the following:

- Engineering collaborative platform,
- Engineering software agents supporting tasks such as line balancing and production information extraction,
- Knowledge identification and reuse service,
- Knowledge enabled, advanced Graphical User Interfaces (GUIs) and mechanisms, utilising technologies such as Augmented Reality.



#### ACHIEVEMENTS

After the successful integration of the Know4Car components, the Final system validation was realised through the final cases:

- Automotive Assembly
- Extended Engineering Collaboration

The major achievements of the final year of Know4Car:

The final prototype of the Know4Car platform was tested through usability tests, while business process simulation models were used to assess the following defined measurable goals of Know4Car on a larger scale. The Know4Car platform could lead to:

- Reducing product/production process changes by 18%, with significant cost and time savings,
- Reducing the production time design from conceptualisation to realisation by 19%.

Realisation of information extraction agent:

- Automated sharing of engineering information from simulation and process reducing time need for non-adding value tasks for engineers.
- Distinct application that can be used on a stand-alone basis, following a new service-oriented business paradigm.

**Budget** 9.66 M€

**Duration** 51 months

**DG** Connect

**Coordinator** Thomas Lezama, Volvo

**Proj. Manager** Nikos Papakostas, LMS - Uni. Patras

**Partners** 11 partners, among them Volvo, CRF, LMS, SAP and EDAG

**Website** www.know4car.eu

**Funding** 6.15 M€

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