



PRESS RELEASE

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CESAR – an outstanding Project of the First ARTEMIS JU Call

CESAR (Cost-Efficient methods and processes for SAfety Relevant embedded systems) follows the ARTEMIS multi-domain approach bringing together partners from 4 different domains: Avionics&Space, Automotive, Rail and Automation. These domains share the need to develop ultra-reliable embedded systems to meet societal demands for increased mobility and ensuring safety in a highly competitive global market. CESAR is dealing with the development of the Reference Technology Platform (RTP), allowing the integration of various methods and tools to realize the targets for high safety-relevant systems considering a reduction of development time and cost up to 50%.

ARTEMIS Projects on embedded systems differ from other projects funded by the EC. They are driven by leading industry with high involvement of SME's, research organizations and academia. Among the industrial partners, a **multi-domain** diversity is realized to avoid reinvention of the wheel. ARTEMIS projects contribute also to **standardization** over different industrial domains and deliver important impacts on efficiency, reusability, dependability and cost-efficiency. They contribute as well to self-sustaining eco-systems, the vision of ARTEMIS. With 55 partners from 11 countries, a total cost of 58.5MEuro of which 28.1 will be covered by public funding and a project duration of 3 years, CESAR is one of the largest projects to successfully come out of the ARTEMIS-JU Call of 2008. Further on, these projects are built with high interaction between the subprojects or work packages. Therefore, they represent the gear wheels to reach the objectives of building specific high-leading elements for embedded systems in Europe.

CESAR will provide a better system and software level environment for the development, validation, and verification of requirements and architectures called a **Reference Technology Platform**. This RTP will embody meta-models, methods and tools for safety-critical hard-real-time system development supported by European tool vendors. Furthermore, it will provide an analysis process to establish an industrially applicable methodology for exploration of design spaces, multi-criteria constraint satisfaction and design decision making, with particular regard to safety and diagnosability properties. The RTP is aimed to become a recognized standard for other developments. CESAR will bring significant and conclusive innovations in the two most improvable systems engineering disciplines; Requirements engineering and Component based engineering. To maintain the European leading edge position in the transportation as well as automation market, CESAR aims to boost cost efficiency of embedded systems development and safety processes by an order of magnitude.

Next to research, industry partners and SME's, the following partners are members of the Steering Group: Airbus, ABB, Dassault Systems, EADS, Finmeccanica, OFFIS, SAFRAN Group, Siemens, Thales Group, Volvo and AVL acting as CESAR coordinator.

Contact: Dr. Josef Affenzeller, AVL List GmbH

For more Information:

Web: www.cesarproject.eu

Mail: info@cesarproject.eu

Telephone: +43 (0)316 787 253