



iFEST

industrial Framework for Embedded Systems Tools

EXECUTIVE summary

iFEST will specify and develop an open integration framework for establishing and maintaining tool chains for the engineering of complex industrial embedded systems with an emphasis on HW/SW co-design and life-cycle support.

RELEVANCE CALL 2009 objectives

- > 'Establishment of an integrated chain of European-sourced tools [...] to support a complete process flow of development [...]'
- > 'System-level model-based tools and design processes that contribute, in an integrated fashion, to elevating the abstraction level for architecture exploration and product design'

RELEVANCE CALL 2009 objectives

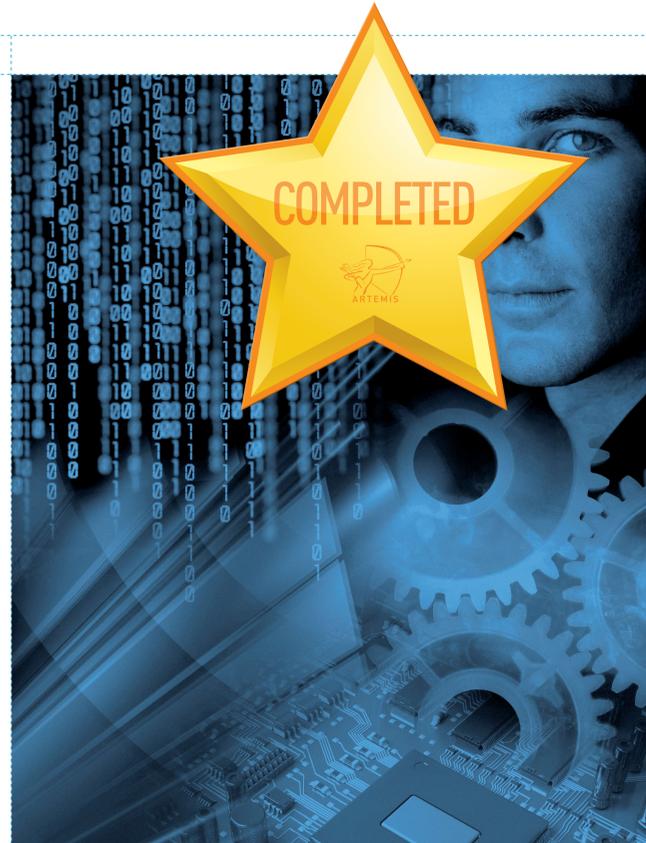
- > 'Establishment of an integrated chain of European-sourced tools [...] to support a complete process flow of development [...]'
- > 'System-level model-based tools and design processes that contribute, in an integrated fashion, to elevating the abstraction level for architecture exploration and product design'

TECHNICAL innovation

A new systematic approach to tool integration where key ingredients in the framework include shared concepts, models, meta-models, transformations and tool integration services;

- > integration of model-driven engineering tools with traditional HW/SW co-design tools
- > extensive support throughout the product's life-cycle, including hardware and software upgradability
- > a framework allowing different tool chains to be efficiently derived and maintained, offering the simple exchange of tools
- > two operational tool chain prototypes targeting heterogeneous multi-core platforms

The use of tool chains that support abstract modelling combined with automated transformations to low-level software/hardware will be a major step forward for the industry.



PROJECT COORDINATOR
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START
April 2011

INSTITUTION
ABB AS

DURATION
36 months

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TOTAL INVESTMENT
€15.8 M

WEBSITE
www.artemis-ifest.eu

PARTICIPATING ORGANISATIONS
20

NUMBER OF COUNTRIES
8

