



# MBAT

Combined Model-based Analysis and Testing of Embedded Systems



## PROJECT description

MBAT will provide Europe with a new leading-edge Reference Technology Platform (RTP) for effective and cost-reducing validation and verification of Embedded Systems.

## RELEVANCE to call

Answering ARTEMIS Call 2010, MBAT will provide enhanced methods and processes for safety-relevant Embedded Systems.

## MARKET innovation

The MBAT RTP will enable high-quality & safe Embedded Systems at reduced costs, focusing on the transportation domain (automotive, aerospace, rail).

## TECHNICAL innovation

A new and very promising tool-supported methodology will

be provided in which the most advanced model-based testing technologies will be combined with static analysis techniques. Furthermore, test and analysis models, together with formal techniques, will be (re-)used for model-based validation and verification (V&V). Selected leading-edge analysis and test technologies will be advanced to cope with challenges which cannot be sufficiently met with existing solutions. This new model-based V&V technology will lead to a more effective and, at the same time, cost-reducing approach. An MBAT RTP to support this approach will be assembled & set up and demonstrated in several use cases to ensure that this RTP is of added value for European industry. In addition, MBAT contributes to the ARTEMIS Standard RTP and implements the common ARTEMIS Interoperability standard.

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WEBSITE  
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START  
November 2011

DURATION  
38 months

TOTAL INVESTMENT  
€34.5 M

PARTICIPATING ORGANISATIONS  
39

NUMBER OF COUNTRIES  
8

