



INDEXYS

INDustrial Exploitation of the genesYS cross-domain architecture

EXECUTIVE summary

INDEXYS tangibly realizes industrial implementations of cross-domain architectural concepts developed in the EC FP7 project GENESYS (GENeric Embedded SYStem Platform) in three domains: automotive, aerospace and railway.

RELEVANCE CALL 2008 objectives

INDEXYS relates to ARTEMIS' Industrial Priority - 'Reference designs and architectures' and targets at composable component integration across different integration levels, thereby addressing the 'transition from separate sectoral, vertically structured markets to a horizontally structured market' as mentioned in Sub-Programme 5, 'Computing environments for embedded systems'.

MARKET innovation

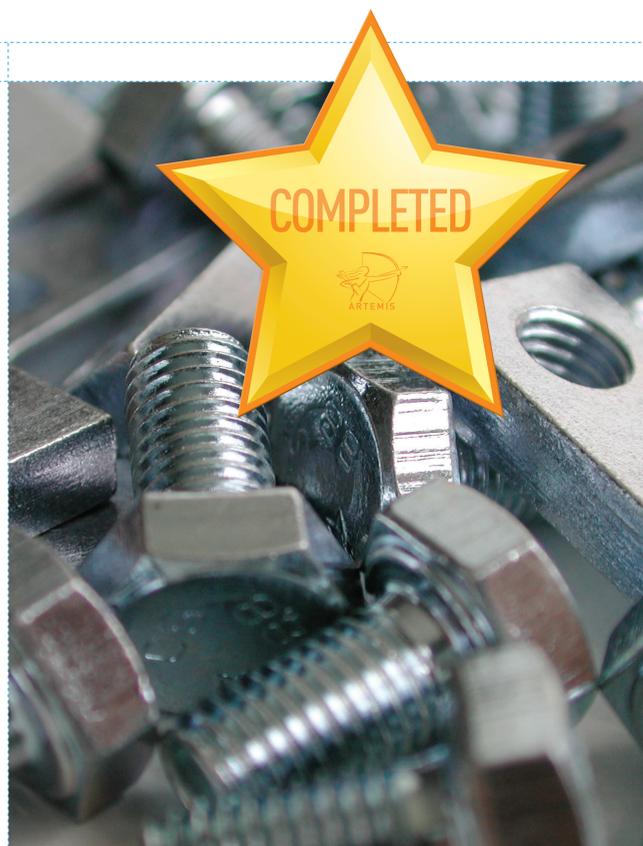
Research and development carried out in INDEXYS will deliver significantly advanced technology for strengthening European excellence in computing architectures of the automotive, aerospace, and railway domains. INDEXYS contributes to mastering new computing architectures and enables European industries across different application domains to maintain and even improve their technological leadership.

INDEXYS' instantiations of selected architectural services of the GENESYS generic reference architecture template will support players of the European supplier industry to enhance their product portfolio towards larger markets. OEMs will benefit from mature cross-domain technology at lower cost, as well as from decreased development cost and time-to-market.

TECHNICAL innovation

Different application domains traditionally tend to develop customised solutions, thereby often re-inventing concepts that are already applied in other domains. It is therefore expedient to invest into a generic embedded system architecture that supports the development of dependable embedded applications in many different application domains.

Contrary to the approach of many present platform solutions that are tailored to a specific domain, INDEXYS aims at the development of reusable architectural services that can be exploited across platforms of different domains. INDEXYS' architectural service implementations will support a gradual shift towards higher reusability of services across different domains due to lower cost by availability of existing solutions and existing experience with these solutions in the engineering community.



PROJECT COORDINATOR Andreas Eckel	START April 2009
INSTITUTION TTTech Computertechnik AG	DURATION 30 months
EMAIL andreas.eckel@tttech.com	TOTAL INVESTMENT 7,3 M€
WEBSITE www.indexys.eu	PARTICIPATING ORGANISATIONS 10
	NUMBER OF COUNTRIES 4

