SYSMODEL

System Level Modelling Environment for SMEs

ARTEMIS

COMPLETED

EXECUTIVE *summary*

Provide SMEs with system level modelling tools for the design and implementation of time and power critical, heterogeneous embedded systems to allow SMEs to build cost-efficient ambient intelligence systems with reduced time to market.
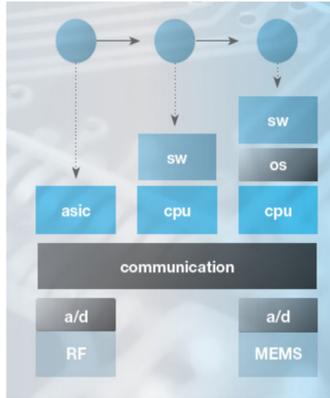
RELEVANCE CALL *2008 objectives*

SYSMODEL addresses SP5 on Computing environments for embedded systems. The focus is on the development of modelling concepts, methods and tools that master system's complexity by allowing cost-efficient mapping of applications and product variants onto an embedded platform; while respecting constraints in terms of resources, safety, security and quality of service.

MARKET *innovation*

SYSMODEL's potential impact is high since even a small improvement in the methodology used for embedded systems design by SMEs could result in a considerable improvement of their competitiveness and effectiveness.

The SystemC based modelling framework will define rules for expressing different Models of Computation and rules for composing these into a system with a well defined behaviour. The initial focus is on applications mastered by the SMEs directly involved in the project, i.e. RFID, wireless systems, telecom, VoIP and audiology applications. It is expected that high level system modelling tools could increase the design productivity by 30% in these SMEs.

TECHNICAL *innovation*

Though SYSMODEL aims at developing general system-level models, the actual development will be based on real verification cases taken from the core group of SMEs. This will ensure that focus is on actual needs from SMEs and the pilots will serve as test cases for validating the developed methodology.

The deliverables offered to the SMEs from SYSMODEL include:

> A modelling methodology described in a 'How to do system level performance modeling' manual.

> Open source point tool prototypes usable for the performance modelling and analysis.

> A number of SME verification case studies that illustrate this methodology.

> A comprehensive training programme taking the SMEs from awareness level through in depth training to on-line tutorials.

PROJECT COORDINATOR	**START**
Ivan Ring Nielsen	January 2009
INSTITUTION	**DURATION**
Technoconsult ApS	36 months
EMAIL	**TOTAL INVESTMENT**
irn@technoconsult.dk	5,4 M€
WEBSITE	**PARTICIPATING ORGANISATIONS**
www.sysmodel.eu	10
	NUMBER OF COUNTRIES
	4

NORWAY

novelda

SWEDEN

KTH VETENSKAP OCH KONST — ROYAL INSTITUTE OF TECHNOLOGY

CATENA

SOLIDUX TELECOM

FINLAND

finnelpro.

DA DESIGN ELECTRONICS

TAMPERE UNIVERSITY OF TECHNOLOGY

DENMARK

DTU

TC

auditdata
Your Partner in Audiology Solutions