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AN ARTEMIS JOINT
UNDERTAKING PROJECT



**CRITICAL SYSTEMS
ENGINEERING ACCELERATION**

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THE CRYSTAL PROJECT

CRYSTAL as an ARTEMIS Innovation Pilot Project (AIPP) takes up research results of previous projects in the field of **Reference Technology Platform (RTP)** and **Interoperability Specification (IOS)** (e.g. CESAR, MBAT ...) and enhances and matures them with the clear aim of **industrialisation take-up**.

RTP and IOS will allow loosely coupled tools to share and interlink their data based on standardized and open Web technologies that enable common interoperability among various life cycle domains. This reduces the complexity of the entire integration process significantly. Compared CRYSTAL is strongly industry-oriented and will provide ready-to-use integrated tool chains having a mature technology-readiness-level (up to TRL 7).

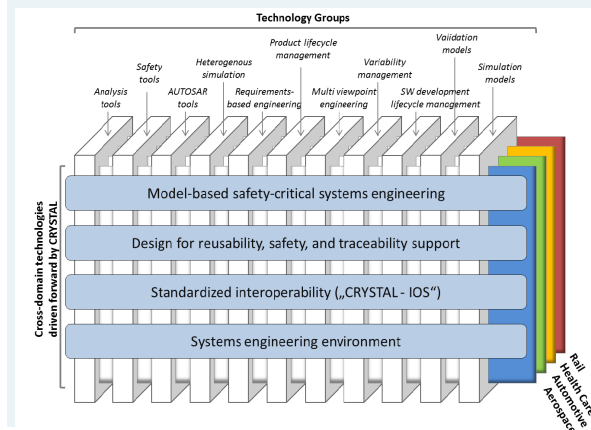
Following the ARTEMIS mission to strengthen the European market for Embedded Systems, CRYSTAL fosters **cross-domain reusability** (Aerospace, Automotive, Health and Rail) and pursues driving forward the **Interoperability Specification** towards **standardisation**.

USER DRIVEN STRATEGY

CRYSTAL is set up as with the aim to establish collaboration schemes beyond individual projects and to speed up technology maturation cycles. Accordingly, the strategy for CRYSTAL technical innovation is based on 4 pillars:

1. Applied to **use cases**, increase the maturity of existing concepts developed in previous projects
2. Provide technical innovations of high maturity to fill gaps identified ("**technological bricks**")
3. Contribute to the **Cooperative RTP** and push the **Interoperability Specification** towards Standardisation
4. Support Small and Medium Enterprise (**SME**) **integration** in the embedded systems engineering ecosystem

Within and across the application domains **Aerospace, Automotive, Healthcare and Rail**, CRYSTAL will cover the entire product life cycle and support to product line development towards **ready-for-use industrial tool chains** for embedded systems development.



CONSORTIUM, Facts & Figures

BE	
NL	
SE	
DE	
CZ	
AT	
IT	
ES	
FR	
UK	

Number of Partners:	68
Countries involved:	10
Total Budget:	~82M€
Total Funding:	~36M€
Project Start:	01.05.2013
Duration:	36 Months
Coordinator:	AVL List GmbH