ArtistDesign Kickoff Meeting

Paris, January 29-30, 2008

JPRA Activity:

"Integration Driven by

Industrial Applications"

Core Team Leaders :

Alberto Sangiovanni Vincentelli (Parades)

Ed Brinksma (ESI)

Main Trends in the Area

- high-tech industry is transforming into an ecosystem of system integrators and (1,2,3,...-tier) component suppliers

- to maintain quality and productivity such ecosystems must be managed as virtual vertically integrated industries

- this requires an explicit understanding of the relevant design flow(s) in an ecosystem, and ways to integrate methods and tools into such flows

- research on design methods and tools that disregards design flows runs the risk of being industrially irrelevant

High-Level Objectives

Main goals:

- to provide the "meta rules" for design flows according to which the design transformations are carried out and interfaces are built;

- to provide an environment to the clusters to foster the integration their results into relevant design flows.

Two approaches:

- package design methods out of the thematic cluster results for relevant industrial segments;

- identify main common features shared by different domains and work towards developing methods to address these topics.

Overview of the Cluster's Activities

- Design flows for automotive and aerospace
  Leader: Alberto Sangiovanni Vincentelli (PARADES)

  – *interaction with COMBEST, ARTEMIS, EADS, AVACS, …*

  – *outcome: white paper*

- Design flows for health and nomadic
  Leader: Ed Brinksma(ESI)

  – *interaction with GENESYS, ARTEMIS, …, NOKIA, Philips, NXP*

  – *outcome: white paper*

- Comparison partner industrial case studies
  Joint organisation with clusters

  – *CISS, ESI, KTH, OFFIS, PARADES, …*

  – *outcome: repository, best practices*

Cluster Participants

- In principle, everybody is involved, so we run the risk that no one is involved.

- Clusters should identify partners and contributions to this transversal integration activity.

- Cluster leaders will notify participation and nature of contributions by April 2008.

- Teams working on workflows and case studies will be formed at initial workshops.

Indicators, Milestones, and Plans for Year 1

- April 2008: notification of participants by clusters

- June 2008: Workshop on integrating case studies
  (Quasimodo STREP meeting)

- September 2008: Design flow workshop Automotive & Aerospace
  (Artist2 Summer School)

- Early 2009: Design flow workshop Health & Nomadic
  (ArtistDesign plenary)