FP7 projects @ edacentrum

In winter 2009/2010 the European Commission started two of its FP7 projects, where edacentrum is one of the partners

Two years ago, in the newsletter edacentrum 01 2008, we announced our interest to engage in European FP7 projects. This winter the European Commission started two of these projects, in which edacentrum is one of the partners. Within the first one, short title "R&D-ACCESS", edacentrum is a project partner due to its expertise in networking around EDA tools. In the second one entitled "SmartCoDe", edacentrum's role is to coordinate and to oversee all project activities and to drive the dissemination. In this article, we introduce both projects.

R&D-ACCESS – A new website to disseminate information on semiconductor design

R&D-ACCESS, which commenced in November 2009, is a 3-year coordination and support action (CSA) project funded by the European Commission within the 7th Framework Programme (FP7) under the theme "ICT-2009", in the area "Design of semiconductor components and electronic based miniaturized systems ". The consortium consists of five partners from four European countries:

» Technoconsult ApS (Danmark)
» Design And Reuse S.A. (France)
» Consorzio per la Ricerca e l'Educazione Permanente (Italy)
» edacentrum GmbH (Germany)
» Commissariat à l'énergie atomique (France)

In R&D-ACCESS a new website is being developed in order to disseminate huge amounts of information on semiconductor design. The objectives of the project are to identify R&D results on semiconductor design from FP7 projects and to provide these results to partners from outside the consortia. The R&D results are divided into four categories:

» Training and Education
» Intellectual Properties
» Design Tools
» Design Methodologies

The dissemination web platform facilitates the access to project results generated in huge numbers of IP, NoE, STREP and CSA projects from the FP7 programme. When the platform is implemented and routines for best practice have been established also relevant project results originating from e. g. FP6, ENIAC, ARTEMIS and national programmes will be invited to join the ACCESS platform.

The R&D-ACCESS platform is based on a web system developed as an extension to already existing European services like EuroTraining, IP Design-Reuse and edacentrum network. Since these services will be
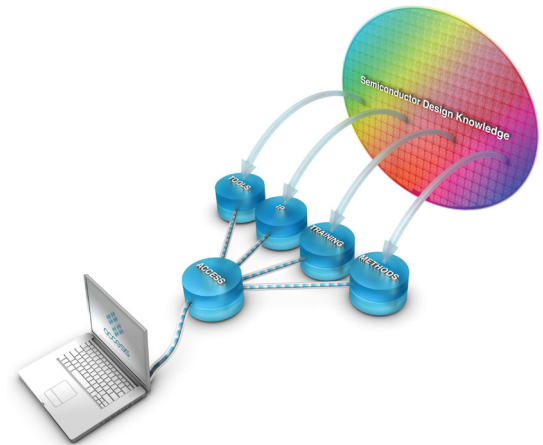
Figure E.06: Concept of R&D ACCESS

improved and already have nearly 40.000 subscribers the new combined ACCESS platform will be born with a tremendous user community.

EU Project SmartCoDe to Develop Local Energy Management Infrastructure with Minimal Consumer Cost

The project's objective is to enable the intelligent management of local energy grids that consist of renewable energy sources such as wind turbines and photovoltaics; energy consuming systems such as lighting, heating, ventilation, and air conditioning (HVAC), appliances such as refrigerators, ovens, and even the battery charger of an electrically-powered vehicle. The project aims to develop the fine-grained communications infrastructure, control and monitoring devices, and associated software, required to meet a consumer price point of less than €3 (three Euros) per managed device – a level at which surveys indicate consumer willingness to adopt the technology en masse. Successful fulfillment of the project's goals would lend considerable support to the EU's objective of deriving 20 percent of its energy from renewable resources by the year 2020.

SmartCoDe could significantly cut standby energy consumption by up to 10 percent, while residential demand side management could reduce energy consumption

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