

# COLLABORATIVE DISTRIBUTED DESIGN SKILLS DEVELOPMENT FOR THE INTEGRATED DESIGN ENGINEERS

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Nowadays, engineering teams are getting increasingly interdisciplinary, and thus demand for a mutual understanding and collaboration between domain expert team members. The paper is focused on a top skill unit development so call: collaborative distributed design, that define the profile require for the global integrated design engineer (integrated engineers that are involved in projects that are developed by distributed engineering teams) as it is shown in Figure 1 (in accord with the objectives of the iDesigner – Certified Integrated Design Engineer (2008), Leonardo da Vinci contract LLP-LdV-TOI-2008-FR-117025).

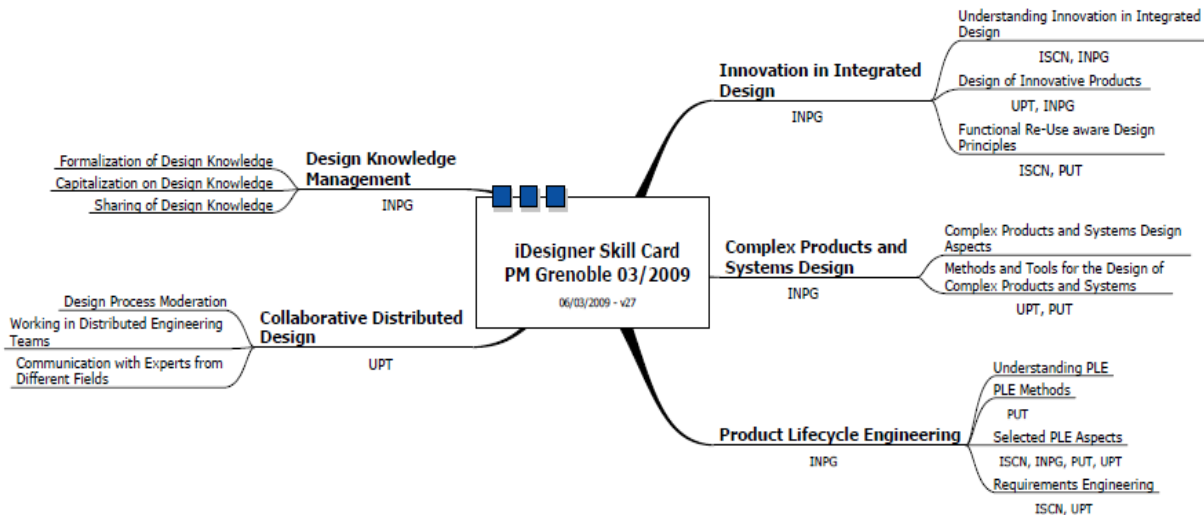


Figure 1. Integrated Design Engineers Skills Set

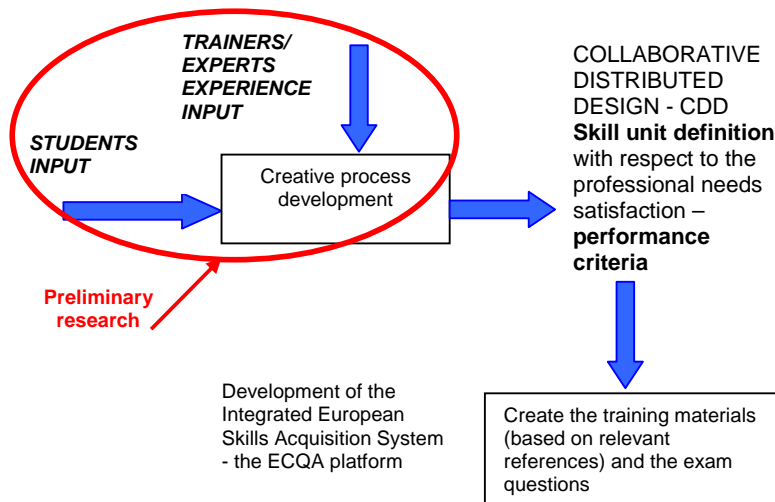


Figure 2. The process of a skill unit development

The described sub-skills elements that are: design process moderation, working in distributed engineering teams and communication with experts from different field (including experts from different culture). The paper described the approach that has been developed for defining the training materials (the most efficient) for each individual skill element and the preliminary research that has conduct to them (Figure 2). This research was developed by a heterogeneous team (engineers, a psychologist and a philosopher) of specialists from the Politehnica University of Timisoara, Romania. In the final part, some conclusions and final remarks are inserted.