

R8: Possible Methods of Tailoring euCAD Framework for Logistics Stakeholders

1st Level of TOI

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CAD COMPUTER-AIDED
MATERIAL HANDLING
MODELING ENGINEERING SYSTEMS
COMPUTER TOOLS GEOMETRY DRAUGHTING
ANIMATION LOGISTICS SOLIDS
SOFTWARE

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1.0 Introduction

As outlined in the LOGICAD project proposal, deliverable result R8 concerns **the Possible Methods of Tailoring euCAD Framework for Logistics Stakeholders**. In summary, the aim of this deliverable is:

“ Establish Possible methods of tailoring existing euCAD framework for logistics stakeholders (in the light of result 6) Following the results of the interactive survey analysis from WP2, the consortium will find the optimum possible ways in which the results of the euCAD project (the euCAD framework itself) can be applied to the new sector and target audience - logistics sector, hence the LogiCAD framework. The consortium will also take into consideration possible geographical and cultural constraints for the countries of the partners. All partners will input their expertise according to specific local/ national target audience and policies. “

For this reason, this document is structured as follows:

- **Section 2.0** will briefly outline the concept of the original euCAD framework, summarizing its strengths and weaknesses following evaluation of its implementation
- **Section 3.0** will outline the relevant feedback arising from logistics stakeholders as a result (R6) of the survey carried out in WP2.
- **Section 4.0** will establish possible ways of how the euCAD framework can be tailored for logistics stakeholders.

2.0 Background To The euCAD Framework

As the LogiCAD project is a Transfer of Innovation type project based on the original Leonardo da Vinci Development of Innovation project called, ‘euCAD’ (see www.camis.pub.ro/eucad/), it is important that the key issues of the euCAD framework are first understood. For this reason, the LogiCAD project team analysed the euCAD deliverable dated 15.10.2009 entitled ‘*euCAD Vocational Training System Framework*’ and also discussed with the original euCAD partners their experiences and recommendations.

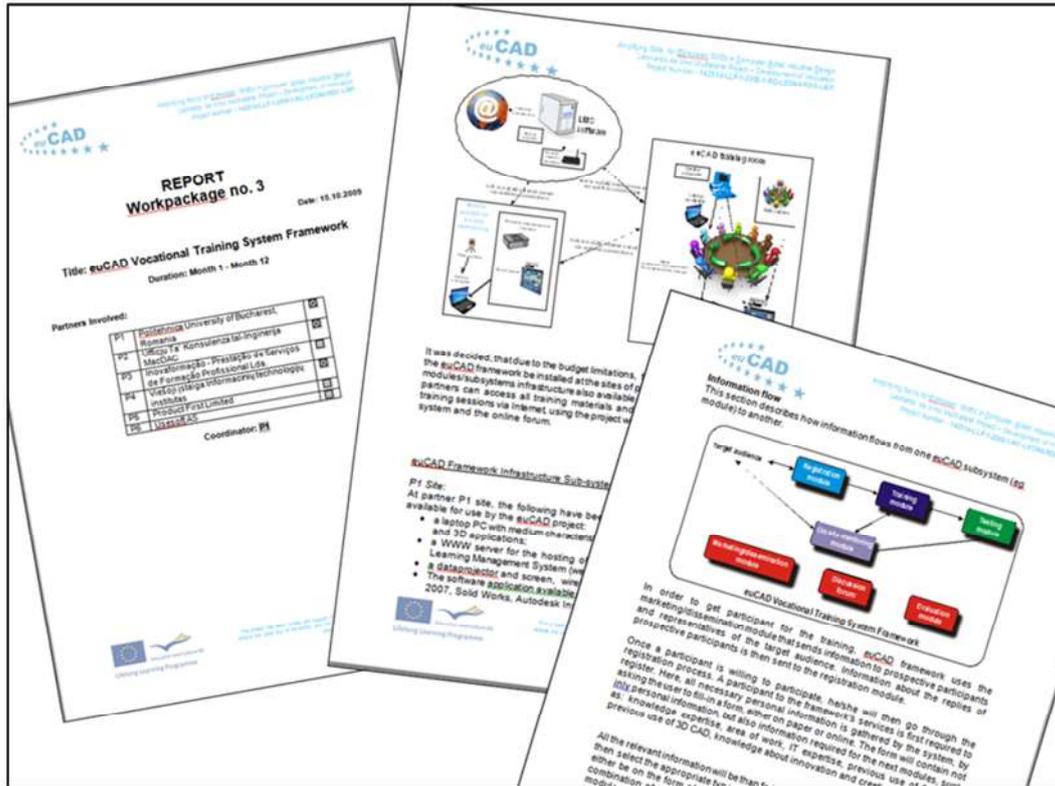


Fig (1) – Original euCAD Framework Report

As outlined in the euCAD report, the euCAD Framework essentially consisted of:

- **Courseware in English both in CD/DVD and e-Learning format** aimed at showing how 2-Dimensional and 3-Dimensional Computer Aided Design technology can be used for amplifying creativity and innovation in various industrial/manufacturing sectors (e.g. furniture, consumer products, engineering)
- **Case-studies in English and multi-media format**, that show how 2D and 3D CAD helps workers become more creative and innovative in their industrial work;
- **Course Tests** in English aimed at recognition at the EU/International level, for assessing the skills acquired through work-based CAD training;
- **CAD Training Hardware & Software configuration**, consisting of collaborative design and shared-workspaces tools that allow workers to design and exchange their solutions/queries with CAD operators/experts and trainers;
- **On-site SME Mentoring**– aimed at (i) reducing the initial barrier working people have of finding the time to learn a new technical skill (in this case CAD) and on (ii) guiding relevant SME stakeholders of how the euCAD framework can be used to help them learn at their own pace and apply CAD technology to their place of work;
- A **Discussion forum**: this was aimed at discussing 2D and 3D related CAD issues by the target audience stakeholders.

Regarding the Hardware & Software configuration, euCAD had essentially a Learning Management System (LMS) based on Moodle installed at the Coordinator's site in Bucharest, Romania.

Registration process of euCAD stakeholders to the e-Learning Management System was basically managed by one partner ie the LMS administrator/partner.

Discussion with the original euCAD partners indicated that it would be a wiser development path to replicate the installation of the LMS in different partner sites for a number of reasons:

- a) In one case during the euCAD life-time, live demonstrations of the euCAD courseware hosted at PUB in Romania could not be shown in a seminar taking place Malta as at that time, the PUB server was undergoing urgent maintenance. Thus if a mirror site is available in LogiCAD, such remote scenarios would be reduced.
- b) With only one LMS site, after the end of the project period, for partners to continue registering new participants from their country is not straightforward as they have to approach the original LMS administrator. Thus having multiple LMS sites helps improve exploitation and thus sustainability of the Logistics courseware.

3.0 Logistics Stakeholders Feedback

In WP2 of the LogiCAD, a survey has been carried out with the objective of:

"Identifying the (CAD) Skills Requirements of Logistics stakeholders: In this task, the consortium will generate a questionnaire to help identify the needs in terms of both 2D and 3D CAD training with respect to the logistics sector. Through this questionnaire, the LOGICAD partners will collect feedback from a sample of logistics stakeholders in their country/region on their background/profile, CAD interests and CAD training needs. It will be also established if different fields of Logistics (eg warehousing, land, marine) have different training needs."

This survey resulted in **deliverable R6** contents of which have been used in this work to identify options of how to tailor the euCAD framework.

4.0 euCAD Framework Tailoring Options

Based on the feedback received by the original euCAD partners and also as a result of the survey/target group meetings carried out with the Logistics sector, Table 1.0 therefore summarizes a number of alternative options of how the euCAD Framework can be customized for the LogiCAD Project.

By taking into consideration the requirements of the LogiCAD partners, the **yellow highlighted cells** indicate the final customization path being recommended for the LogiCAD project. The selected options collectively address the weaknesses of the euCAD framework yet they fulfil the requirements identified by the logistics sector stakeholder. This overall customization option will be therefore utilized in designing the LogiCAD framework, this defined in LogiCAD deliverable R9.

Table (1)

ISSUES TO CONSIDER WHEN CUSTOMIZING EUCAD FRAMEWORK							
Possible Options	LogiCAD courseware Language	Courseware structure	Case-studies	Type of Knowledge Transfer	LMS Site	Registration to LogiCAD LMS	Discussion Forum
1	English only	Add logistics case-studies to euCAD Material	From one specific field of Logistics	e-Learning based only	One-site only	Managed by alternative partners	Use euCAD Forum
2	Languages as per LogiCAD proposal	Develop totally new material for logistics sector	From different logistic fields	Combined e-Learning and classroom instruction	LMS content mirrored in at least one other partner site	Managed by one partner only	Make a new Forum
3	Some partner languages	Transfer and customize the euCAD content & use logistics case-studies					Totally Eliminate

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