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Understanding & Exploiting Computer Aided Design for Logistics



LogiCAD
Leonardo da Vinci Project

CAD COMPUTER-AIDED
MATERIAL HANDLING
AND LOGISTICS ENGINEERING SYSTEMS

THE EU LOGICAD PROJECT

Jonathan C. BORG
MECB Ltd



OUTLINE



- Project Background
- Key LogiCAD Deliverables
- Getting Involved
- Conclusions



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LOGICAD PROJECT BACKGROUND



A EU Leonardo da Vinci (LdV) Transfer of Innovation (TOI) type Project
is concerned with Vocational Transfer of Knowledge

Aim:

The aim of the LogiCAD project is that of providing stakeholders working in the logistics sector in a number of EU Member States, with skills to make them competent in using Computer Aided Design (CAD) tools



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CHALLENGE ?

Too many tasks



Learning New Tools Will Help



Little/No Time



COMPUTER-AIDED
MATERIAL HANDLING
SYSTEMS
ANIMATION
SOFTWARE
LOGISTICS



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SIX EUROPEAN PROJECT PARTNERS



Technological Institute of Aragon (ES)



CAMIS Centre University Politehnica



MECB Ltd (MT)



Daugavpils University (LV)



Tecnalia Research and Innovation (ES)



Hungarian Logistics Association (HU)



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2 YEAR PROJECT STRUCTURE



Nov 2012

Preparation Work

Nov 2013

Testing & Delivery Of Results



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PARTNERS WORK



 CAMIS Centre University Politehnica of Bucharest (RO)

 MECB Ltd (MT)

- Partner Meetings
- Informal Knowledge Transfer
- Training Material



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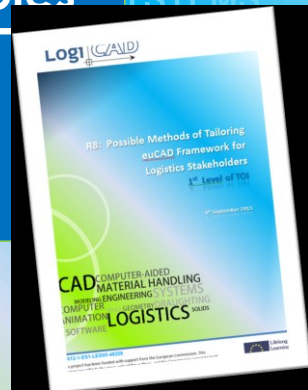
OUTLINE



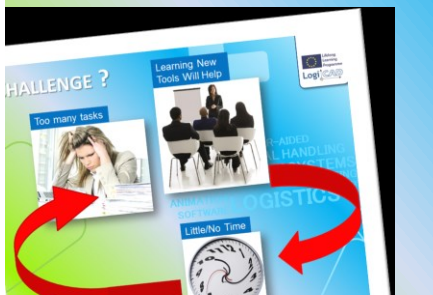
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KEY LOGICAD DELIVERABLES



8.) Which of the training types are the most adequate for you?

Training Type	Percentage
Instruction in classroom	14%
Remote instruction	0%
E-learning (electronic instruction) - self training	14%
Combined instruction	72%

9.) What could promote your motivation to attend?

Motivation Factor	Percentage
Grants from Work or Government	14%
Afternoon classes say 16-18:00	15%
Help the daily work (learn to use new)	15%
No answer	15%
To advance in professional	15%

Combined Instructions



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KEY LOGICAD DELIVERABLES



e-Learning Content

The screenshot shows a course page for 'Collaborative Design for Logistics Sector'. The topic outline includes:

- Lecture 1 - Introduction to Collaborative Design
 - Quiz Lecture 1
- Lecture 2 - CAD Hardware & Software for Internet-Based Logistics
 - Quiz Lecture 2
- Lecture 3 - Shared Workspaces for Logistics
 - Quiz Lecture 3
- Lecture 4 - Real-time Synchronous Collaborative Design For Logistics
 - Quiz Lecture 4
- Lecture 5 - Sharing & Exchanging CAD Files

The video player shows a 3D model of a 'Topsy Y Shape Pallet Exchanger - Logistics - CA...' with a red play button. Text on the video frame reads: 'Collaborative Design (CD) in which Computer-Aided Design (CAD) is widely used, enables stakeholders (e.g. manufacturing engineer, automation equipment supplier) at different locations to design the factory layout. Video on the right shows how CAD is used to design a pallet exchanger.' Source: <http://www.youtube.com/watch?v=0D9Uu1CAG>

KEY LOGICAD DELIVERABLES



Content Translations

The slide is titled 'PREIKŠROČĪBAS' (Preliminary Studies). It contains the following bullet points:

- Produktu var izstrādāt **vienlaicīgi** vairāku nozaru speciālisti (piem., projektēšana & ražošana)
- Datu failu apmaiņa un koplietošana, piem., CAD modelī
- Sekmē uzlabotu informācijas resursu pārvaldību, efektīvas ražošanas loģistikas būtisks aspekts

The slide also features the LogiCAD logo and the text 'COMPUTER-AIDED MATERIAL HANDLING' and 'IEVADS LOĢISTIKĀ & GLOBĀLĀS STARPĀN TEHNOLOĢISKĀS IZSTRĀDĒS jeb KOPĪG (COLLABORATIVE DESIGN)'. It is prepared by mecb (Bringing Collaborative & Interactive).

KEY LOGICAD DELIVERABLES



3D Animation Course

Home > My courses > LC-305

Topic outline

- 1 Lecture 1 - Introduction
 - Lecture 1
- 2 Lecture 2 - Understanding the 3D Studio Max User Interface
 - Lecture 2
 - Quiz Lecture 2
- 3 Lecture 3 - Importing 3D Models into 3DS Max

2D & 3D CAD Content

LogiCAD
Lorenzo di Vinci Project

COMPUTER-AIDED MATERIAL HANDLING
3D CAD

UNIT 2 – UNDERSTANDING THE USER INTERFACE

Courseware prepared by: mecb

Emmanuel Francina

Outline

1. Unit 2 - Learning Objectives
2. Unit 2 - Objectives
3. Learning Outcome 203-103-104
4. Learning Outcome 203-104-101
5. Learning Outcome 203-104-102
6. Learning Outcome 203-104-103
7. Learning Outcome 203-104-104
8. Learning Outcome 203-104-105
9. Learning Outcome 203-104-106
10. The Menu
11. Using The Toolbar
12. Using The Taskbar
13. Try It Now!
14. Creating a New Geometry
15. Using the Command Panel
16. Using the Command Panel
17. Using the Command Panel
18. Using the Command Panel
19. Using the Command Panel
20. Understanding The user interface
21. Exercise
22. Links
23. Summary
24. Content

KEY LOGICAD DELIVERABLES



Multimedia Content

USING THE COMMAND PANEL

- The Command Panel is located in the Command Panel viewports along the right edge of the viewport.
- The Command Panel is split into tabs that can be accessed via a tab icon located on the right side of the Command Panel.

Create, Modify, Hierarchy, Motion

IMPORTING 3D MODELS

You can watch a video explaining how to import a 3D model into 3D Studio Max

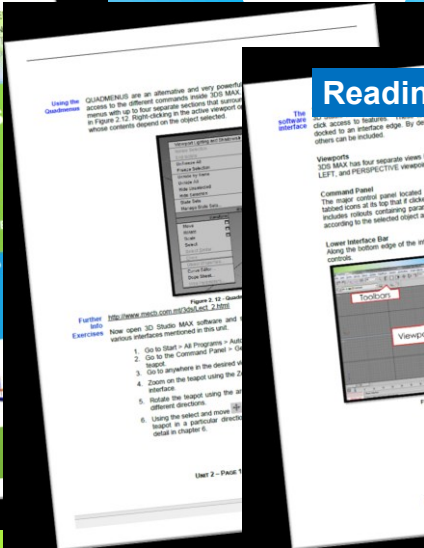
The Automated Guided Vehicle Model in a 3D CAD system

0:53 / 1:45

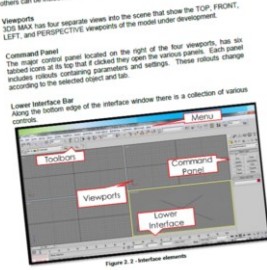
Outline

1. Unit 2
2. Objectives
3. Unit 2 - Objectives
4. Aim
5. 303-1
6. Import
7. Import
8. Import
9. Import
10. Import
11. Import
12. Import
13. Import
14. Import
15. Try It!
16. Import
17. Content
18. Summary
19. Content

KEY LOGICAD DELIVERABLES



Reading Notes



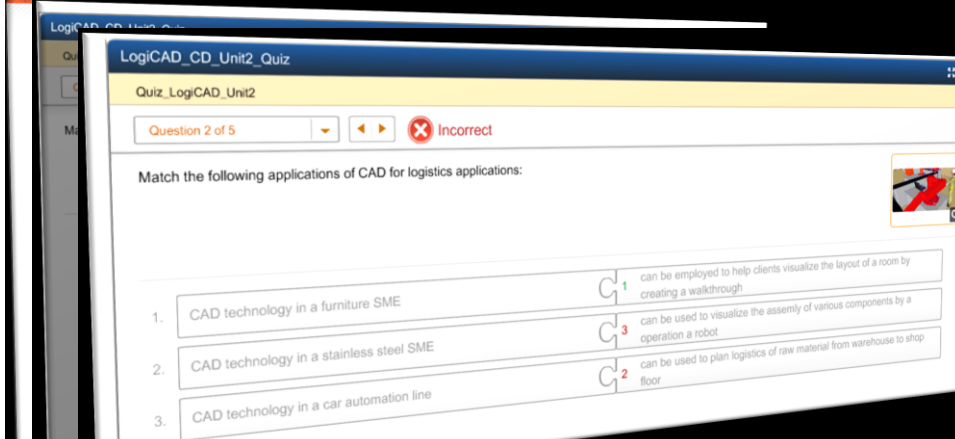
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KEY LOGICAD DELIVERABLES



Automated Self Tests

Collaborative Design for Logistics Sector





E-LEARNING DEMO

COMPUTER-AIDED
HANDLING
SYSTEMS
DRAUGHTING
ANIMATION SOFTWARE LOGISTICS SOLIDS



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OTHER LOGICAD DELIVERABLES



Flyers/Case-studies

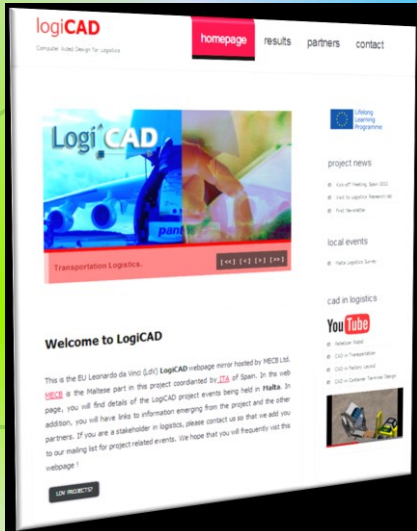


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OTHER LOGICAD DELIVERABLES



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GETTING INVOLVED



Access To e-Learning Content & Notes



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GETTING INVOLVED



On-site mentoring



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ED
HANDLING
SYSTEMS
RAUGHTING
SOLIDS
ICS



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CONCLUSIONS



- **Logistics is an Important Sector**
- **CAD technology Can Contribute**
- **LogiCAD Project Can Help You!**
- **Interested: On-Site Mentoring ?**
- **Interested in EU Funding ?**
- **Thank You !**



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REMINDER



COMPUTER-AIDED MATERIAL HANDLING
CAD FREIGHT HANDLING
LOGISTICS TOOLS ENGINEERING SYSTEMS

- 16:30 Registration & Networking Welcome Coffee
- 17:00 Welcome & Introduction
Dr Ing Jonathan C. Borg, MECB Ltd
- 17:15 Background to Logistics & Typical Challenges
Ing. Emanuele Francotorta, Inst. of Engineering Designers (Milano)
- 17:30 Background to CAD Technology
Dr Ing. Philip Farrugia, Inst. of Engineering Designers (Malta)
- 18:00 2D & 3D CAD Applications In Logistics
Lawrence Farrugia
- 18:30 The EU LogiCAD Project
Dr Ing Jonathan C. Borg, MECB Ltd
- 19:00 Feedback & Discussion by participants
- 19:30 Networking Reception



COMPUTER-AIDED
MATERIAL HANDLING
ENGINEERING SYSTEMS
LOGISTICS
CAD
FREIGHT HANDLING
TOOLS
ENGINEERING SYSTEMS
2D & 3D CAD Applications In Logistics
The EU LogiCAD Project



Driving Excellence & Innovation



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Need Further Information ? Contact LogiCAD Malta Partner:



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Email: jcb@mecb.com.mt





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