BIMEPD

Adapted senor training program on BIM methodologies for the integration of EPD in sustainable construction strategies.

2020-1-ES01-KA204-083128

Co-funded by the Erasmus+ Programme of the European Union

TASK O3/A1. IT production of BIMEPD Open Educational Resource.

TASK O3/A1. IT production of BIMEPD Open Educational Resource.

Erasmus+

COAMU
COLEGIO OFICIAL DE ARQUITECTOS REGIÓN DE MURCIA

iED
institute of Entrepreneurship Development

CTM
Centro Tecnológico
del mármol, piedra y materiales

Warsaw University of Technology

BULGARIAN GREEN BUILDING COUNCIL

cype

Consortium members: Colegio Oficial de arquitectos de la Región de Murcia (COAMU), Asociación Empresarial de Investigación Centro Tecnológico del Mármol, Piedra y Materiales (CTM), Institute Entrepreneurship Development (iED), Asociatia Bulgaria Green Building Council (BGBC), Warsaw University of Technology (WUT), CYPE France

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CONTENTS

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1. INTRODUCTION

Open Educational Resources (OER) refers to digital teaching, learning and research materials that allow for their use, adaptation and redistribution by others without restriction or with limited restrictions. The OER phenomenon is of great importance and interest in the future of teaching and education, both in vocational training and university settings. For this reason, it was necessary to develop an online and fully accessible platform hosting all the results and materials produced in the project at the service of society and stakeholders of this project.

An Open Educational Resource has been designed and produced to support the implementation of the curriculum produced by the BIMEPD project. Multimedia materials have been produced for the Open Educational Resource (OER).

The materials are based on multimedia resources: presentations, video recordings, images, etc. in combination with the training materials produced in IO1. The OER is fully intuitive, so that the user is fully involved in the learning process and is adapted to adult education. This material is extremely important in the sector, due to the lack of modern materials adapted to the project stakeholders.

Furthermore, the nZEB (Net-Zero Energy Building) aspects, sustainable construction methods, the use of BIM technologies in building design and the new LCA (Life Cycle Assessment) regulations have been the basis for a strong adaptation to these new challenges at adult education level.

The BIMEPD OER and all the information about the project are available in the following url:

- BIMEPD project web: https://bimepd.eu/

- BIMEPD OER: https://bimepd.eu/oer/

Consortium members: Colegio Oficial de arquitectos de la Región de Murcia (COAMU), Asociación Empresarial de Investigación Centro Tecnológico del Mármol, Piedra y Materiales (CTM), Institute Entrepreneurship Development (iED), Asociatia Bulgaria Green Building Council (BGBC), Warsaw University of Technology (WUT), CYPE France

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2. BIMEPD WEBSITE

2.1. DEVELOPMENT OF BIMEPD WEBSITE

This website of the BIMEPD project was created by CTM during the first period of the project and it is used as a common place to share the products of the project and base of the dissemination activities.

Once all the graphic details of the website, the menu and the logos were decided, designed and implemented, basic information about the project, such as the summary, the objectives, the list of reports developed during the project, etc., started to be included. Subsequently, the finalised documents resulting from the research and studies carried out by the project partners have been uploaded.

The BIMEPD website includes the main intellectual outputs of the project. It should be noted that the entire website is available in all the languages of the project partners. For the translation of the available contents, all project partners participated by providing translations into their mother tongues.

Link to BIMEPD project web: https://bimepd.eu/

Consortium members: Colegio Oficial de arquitectos de la Región de Murcia (COAMU), Asociación Empresarial de Investigación Centro Tecnológico del Mármol, Piedra y Materiales (CTM), Institute Entrepreneurship Development (iED), Asociatia Bulgaria Green Building Council (BGBC), Warsaw University of Technology (WUT), CYPE France

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2.2. PRESENTATION OF BIMEPD WEBSITE

In the following picture, it should be seen the different section in which the BIMEPD project website is divided and the links to each of these sections.

2.2.1. HOME

Link: https://bimepd.eu/#home
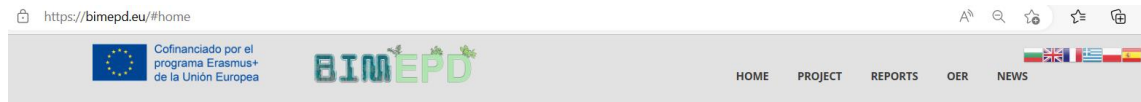
2.2.2. PROJECT

Link: https://bimepd.eu/#project

Consortium members: Colegio Oficial de arquitectos de la Región de Murcia (COAMU), Asociación Empresarial de Investigación Centro Tecnológico del Mármol, Piedra y Materiales (CTM), Institute Entrepreneurship Development (iED), Asociatia Bulgaria Green Building Council (BGBC), Warsaw University of Technology (WUT), CYPE France

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PROJECT

The construction sector is a sector in continuous updating due to the integration of new technologies for the design of projects and the incorporation of environmental considerations of construction materials. This incessant and rapid modernisation of the labour system requires constant and continuous training of the professionals in the sector, most of whom have professional careers of more than 20 years' experience. In Europe there are 600,000 architects, 64% of whom are over 40 years old.

In recent years there has been a large decline in the number of architects working independently, in favour of an increase in work in companies and firms. The percentage of architects practising individually has fallen by up to 50% in the last decade. These tendencies suggest that architects are returning to a paid employment in the practice, instead of free exercise, assuming that they will have to adapt to the design systems established in the companies, much more prone to modernization and integration of innovative methodologies, complicating the incorporation of professionals with extensive experience whose training does not fit the current design tools.

The environmental profile is an increasingly important criterion for public and private procurement and for consumer choice. Companies and professionals have various mechanisms for accrediting and communicating the environmental excellence of their products and services, including Environmental Product Declarations (EPDs). These EPDs provide a reliable, relevant, transparent, comparable and verifiable environmental profile that allows an environmentally friendly product to stand out, based on LCA according to international standards and quantified environmental data.
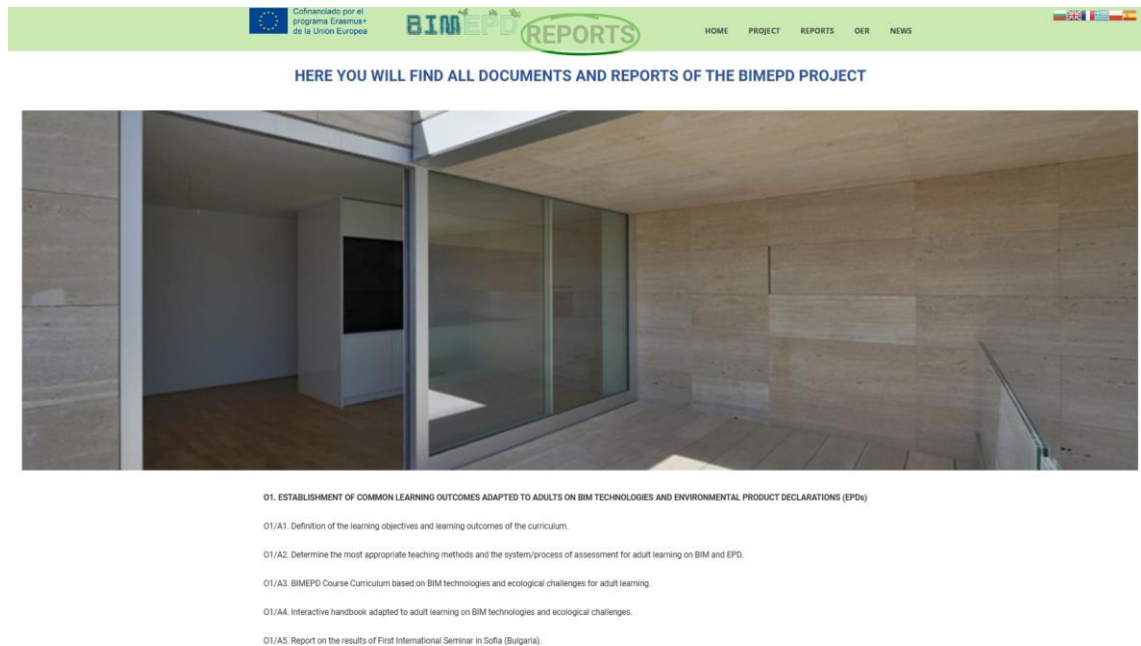
OBJECTIVES

The BIMEPD project is, in its nature, the production and development of multimedia materials based on BIM and taking into account challenges related to LCA and EPDs of construction materials, to be used as training material for both adult education for professionals in the architecture sector, in order to satisfy a series of main objectives.
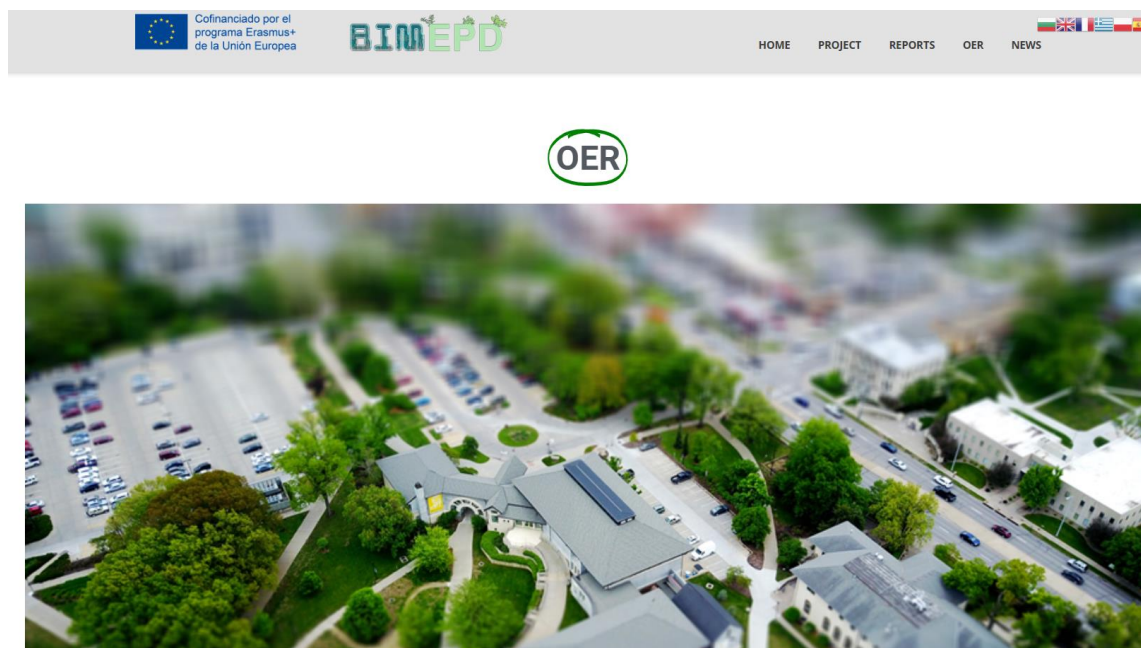
2.2.3. REPORTS

Link: https://bimepd.eu/#reports

Consortium members: Colegio Oficial de arquitectos de la Región de Murcia (COAMU), Asociación Empresarial de Investigación Centro Tecnológico del Mármol, Piedra y Materiales (CTM), Institute Entrepreneurship Development (iED), Asociatia Bulgaria Green Building Council (BGBC), Warsaw University of Technology (WUT), CYPE France

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HERE YOU WILL FIND ALL DOCUMENTS AND REPORTS OF THE BIMEPD PROJECT

O1. ESTABLISHMENT OF COMMON LEARNING OUTCOMES ADAPTED TO ADULTS ON BIM TECHNOLOGIES AND ENVIRONMENTAL PRODUCT DECLARATIONS (EPDs)

O1/A1. Definition of the learning objectives and learning outcomes of the curriculum.

O1/A2. Determine the most appropriate teaching methods and the system/process of assessment for adult learning on BIM and EPD.

O1/A3. BIMEPD Course Curriculum based on BIM technologies and ecological challenges for adult learning.

O1/A4. Interactive handbook adapted to adult learning on BIM technologies and ecological challenges.

O1/A5. Report on the results of First International Seminar in Sofia (Bulgaria).

2.2.4. OER

Link: https://bimepd.eu/oer/

Consortium members: Colegio Oficial de arquitectos de la Región de Murcia (COAMU), Asociación Empresarial de Investigación Centro Tecnológico del Mármol, Piedra y Materiales (CTM), Institute Entrepreneurship Development (iED), Asociatia Bulgaria Green Building Council (BGBC), Warsaw University of Technology (WUT), CYPE France

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2.2.5. NEWS

Link: https://bimepd.eu/news/

3. BIMEPD OPEN EDUCATIONAL RESOURCE (OER)

This Open Educational Resource was designed and produced to support the implementation of the BIMEPD Course. It is available for free on the project website for being used as a supporting material.

The BIEMPED OER is considered as one of the core tasks of the project and therefore need the special attention in its correct development and design. For that reason, CTM was the developer of this OER counting with the support and contribution of rest of partners.

3.1. PRESENTATION OF THE BIMEPD OER

The OER of the BIMEPD project is available in the link: https://bimepd.eu/oer/

In order for this Open Educational Resource to contain all the information and contents of the project in an orderly and intuitive way for consultation, it was decided to divide it into as many sections as it contained different contents.

Consortium members: Colegio Oficial de arquitectos de la Región de Murcia (COAMU), Asociación Empresarial de Investigación Centro Tecnológico del Mármol, Piedra y Materiales (CTM), Institute Entrepreneurship Development (iED), Asociatia Bulgaria Green Building Council (BGBC), Warsaw University of Technology (WUT), CYPE France

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The different sections created were:

In this open-access platform, you can access all the information collected during and beyond the end of the project. The platform provides more information for self-learning educational.

DIRECT ACCESS

COURSE ACCESS

Project code 2020-1-ES01-KA204-083128

3.1.1. DIRECT ACCESS

Within the Direct access section, we can find 3 sub-sections:

- **Regulations** (https://bimepd.eu/oer/regulations/). This sub-section contains the documents that contain regulations related to the project's subject matter, be it BIM and environment in construction.

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- **Dissemination** (https://bimepd.eu/oer/dissemination/). In this last sub-section, you can view part of the dissemination of the BIMEPD project, as well as the presentations given at seminars.

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3.1.2. MOOC

The MOOC (Massive Open Online Course), hosted by the OER (https://class.bimepd.eu/), supports teachers and learners in the delivery of courses. It is a flexible learning modality as participants can access it from anywhere and at any time.

This MOOC has six courses, one in each of the project partners' languages (Spanish, Greek, Polish, Bulgarian and French) and in English. All of them can be accessed free of charge by registering so that the course will be supervised when a considerable number of students are gathered, or they can also be accessed free of charge, with the username and password shown below.

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Once a significant number of people have registered, the course will start under the supervision of a teacher.

By accessing the programme "ADAPTED SENIOR TRAINING PROGRAM ON BIM METHODOLOGIES FOR THE INTEGRATION OF EPD IN SUSTAINABLE CONSTRUCTION STRATEGIES" in each of the languages we can see the materials created in the project, as well as complementary material (regulations, videos and related articles, etc.) for the expansion of users' knowledge.

Users can work their way through the programme by reading the topics and playing the accompanying videos.

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✛   Edit ▾

MODULE 1. BASIC CONCEPTS AND BIM (BUILDING INFORMATION MODELLING) TECHNOLOGY APPLIED TO LIFE CYCLE ANALYSIS (LCA) ✏

✛ ▤ Presentation of the module 1. ✏   Edit ▾
    Mark as done

✛ ▤ Video 1. BIM methodology- Future building ✏   Edit ▾
    Mark as done

✛ ▤ Video 2. What is BIM (Building Information Modeling)? ✏   Edit ▾
    Mark as done

✛ ▤ Video 3. Life cycle assessment (LCA)- Introduction (part 1) ✏   Edit ▾
    Mark as done

✛ ▤ Video 4. Automated procedures for LCA analysis on a BIM project - Orjola Braholli   Edit ▾
    ✏
    Mark as done

✛ ▤ Video 5. BIM and LCA: greenBIM ✏   Edit ▾
    Mark as done

✛ ▤ Article I. Promoting Sustainability through Investment in Building Information   Edit ▾
    Modeling (BIM) Technologies: A Design Company Perspective ✏
    Mark as done

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Edit ▾

MODULE 2. BIM AND LCA REGULATION. ✏

Presentation of the module 2. ✏   Edit ▾

Mark as done

Video 1. Life Cycle Assessment and Ecolabelling towards Circular Economy ✏   Edit ▾

Mark as done

Video 2. BIM Adoption in Europe: Current State, Challenges and a Vision of Tomorrow. ✏   Edit ▾

Mark as done

Article I. BIM and LCA Integration: A Systematic Literature Review. ✏   Edit ▾

Mark as done

Article II. Building Information Modelling (BIM) standardization. ✏   Edit ▾

Mark as done

✚ Add an activity or resource

Edit ▾

MODULE 3. SEARCH AND INTERPRETATION OF EPD DATABASES. ✏

Presentation of the module 3. ✏   Edit ▾

Mark as done

Video 1. Eco labeling ✏   Edit ▾

Mark as done

Video 2. Why an EPD database is better than generic LCA data ✏   Edit ▾

Mark as done

Video 3. What is an EPD? (Environmental Product Declaration in Detail) ✏   Edit ▾

Mark as done

✚ Add an activity or resource

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MODULE 4. BIM OBJECT MODELLING AT DEVELOPMENT LEVEL 600 (LOD600) FOR THE INTEGRATION OF ENVIRONMENTAL IMPACT DATA ✏️

Edit ▾

⊕ 📄 Presentation of the module 4. ✏️   Edit ▾
   Mark as done

⊕ 📄 Video 1. LOD in BIM || Level of Development || Level of Detailing || Must watch ✏️   Edit ▾
   Mark as done

⊕ 📄 Video 2. BIM Level of Development Explained LOD 100 200 300 350 400 500 Video ✏️   Edit ▾
   Mark as done

⊕ 📄 Article 1. Environmental benchmarking of building typologies through BIM-based combinatorial case studies ✏️   Edit ▾
   Mark as done

➕ Add an activity or resource

MODULE 5. MODELLING OF SUSTAINABLE BUILDINGS (NEW CONSTRUCTION AND RENOVATION) BASED ON LIFE CYCLE ASSESSMENT ✏️

Edit ▾

⊕ 📄 Presentation of the module 5. ✏️   Edit ▾
   Mark as done

⊕ 📄 Video 1. Building environmental certification systems ✏️   Edit ▾
   Mark as done

⊕ 📄 Video 2. BIM in Sustainable High Performance Buildings Design ✏️   Edit ▾
   Mark as done

⊕ 📄 Article 1. LCA BENCHMARKS IN BUILDING'S ENVIRONMENTAL CERTIFICATION SYSTEMS ✏️   Edit ▾
   Mark as done

➕ Add an activity or resource

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MODULE 6. ENVIRONMENTAL MANAGEMENT AND DOCUMENTATION OF A BIM PROJECT. ✏

Edit ▾

Presentation of the module 6. ✏

Mark as done

Edit ▾

Video 1. Construction industry & Circular Economy ✏

Mark as done

Edit ▾

Video 2. How the construction industry can apply circular economy principles ✏

Mark as done

Edit ▾

Video 3. Collection and recycling of construction and demolition waste ✏

Mark as done

Edit ▾

Article 1.Circular economy in the building and construction sector: A scientific evolution analysis ✏

Mark as done

Edit ▾

Article 2. An overview of the waste hierarchy framework for analyzing the circularity in construction and demolition waste management in Europe ✏

Mark as done

Edit ▾

✚ Add an activity or resource

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Edit ▼

MODULE 7. INITIATION AND DEVELOPMENT OF A PROJECT WITH BIM TECHNOLOGY THROUGH A STRATEGY OF ENVIRONMENTAL IMPACT REDUCTION. ✏

Presentation of the module 7. ✏   Edit ▼

Mark as done

Video 1. BIM methodology- Future building ✏   Edit ▼

Mark as done

Video 2. What are environmental indicators? ✏   Edit ▼

Mark as done

Video 3. BIM and GIS: An Introduction ✏   Edit ▼

Mark as done

➕ Add an activity or resource

Edit ▼

MODULE 8. METHODOLOGIES FOR CALCULATING ENVIRONMENTAL IMPACT FROM BIM OBJECTS WITH LOD600 DEVELOPMENT LEVEL. ✏

Presentation of the module 8. ✏   Edit ▼

Mark as done

BIMClay Project Youtube Channel. ✏   Edit ▼

Mark as done

BIMstone Project YouTube Channel. ✏   Edit ▼

Mark as done

➕ Add an activity or resource

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At the end of the course, students are given an evaluation questionnaire which they must pass in order to successfully complete their training.

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EXTRA CONTENTS

📄 BIMEPD evaluation

Cofinanciado por el
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BIMEPD

ENGLISH (EN)

BIMEPD Project

ADAPTED SENOR TRAINING PROGRAM ON BIM METHODOLOGIES FOR THE INTEGRATION OF EPD IN SUSTAINABLE CONSTRUCTION STRATEGIES

Dashboard / Courses / BIMEPD_EN / EXTRA CONTENTS / BIMEPD evaluation

Navigation

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      › General
      › MODULE 1. Basic concepts and BIM (Building Informa...
      › MODULE 2. BIM and LCA regulation.
      › MODULE 3. Search and interpretation of EPD databases.

BIMEPD evaluation

Time limit: 15 mins

Grading method: Highest grade

Grade to pass: 5.00 out of 10.00

Attempt quiz now

◀ Video 2. Construction and Demolition Waste Disposal and Recycling System

Jump to...

Consortium members: Colegio Oficial de arquitectos de la Región de Murcia (COAMU), Asociación Empresarial de Investigación Centro Tecnológico del Mármol, Piedra y Materiales (CTM), Institute Entrepreneurship Development (iED), Asociatia Bulgaria Green Building Council (BGBC), Warsaw University of Technology (WUT), CYPE France

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