



essense Education
Supporting Smart
ENvironments for
SENIORS



Erasmus+

This project has been
funded with support from
the European Commission

Newsletter

Dear ESSENSE-Follower,

thank you very much for your interest in ERASMUS+ ESSENSE. We are happy to inform in our new newsletter format about the milestones that were reached within the last months. We have finished the Educational Philosophy for the ESSENSE-program and validated the Joint Curriculum which will be the basis of the future Higher Education program and online course. Additionally, we give an outlook on the next steps of the program development.

We would be pleased if you recommend our newsletter to interested

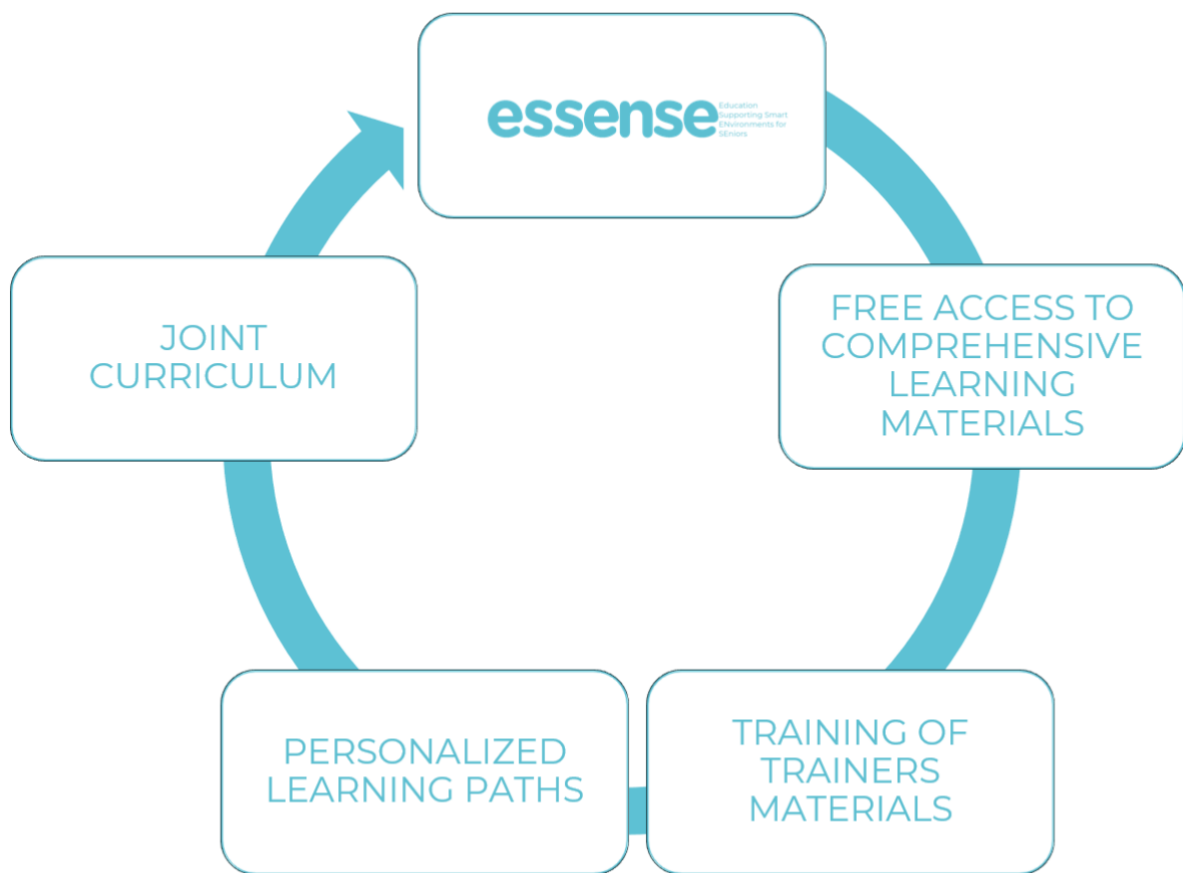
colleagues. Please register for the new newsletter [here](#).

All the best,

the ESSENSE Team



What is ESSENSE?



ESSENSE is an EU Erasmus+ project for the Education Supporting Smart Environments for SENiors, bringing together partners in Germany, Slovenia, Spain and Republic of North Macedonia.

ESSENSE project aims to create an innovative didactic content to promote the integration of Building Information Modelling and Ambient Assisted Living

concepts in the Architecture, Engineer and Construction sector.

It will consist of a Joint Curriculum, didactic materials and a collaborative platform in line with the needs of the different target users identified. After the project officially ends a Blueprint ensures the follow-up of the results.

ESSENSE recently launched the Preliminary Joint Curriculum, which was validated through a series of surveys which reached over 600 stakeholders in more than 20 countries from all over the world. The online course platform will be available soon.



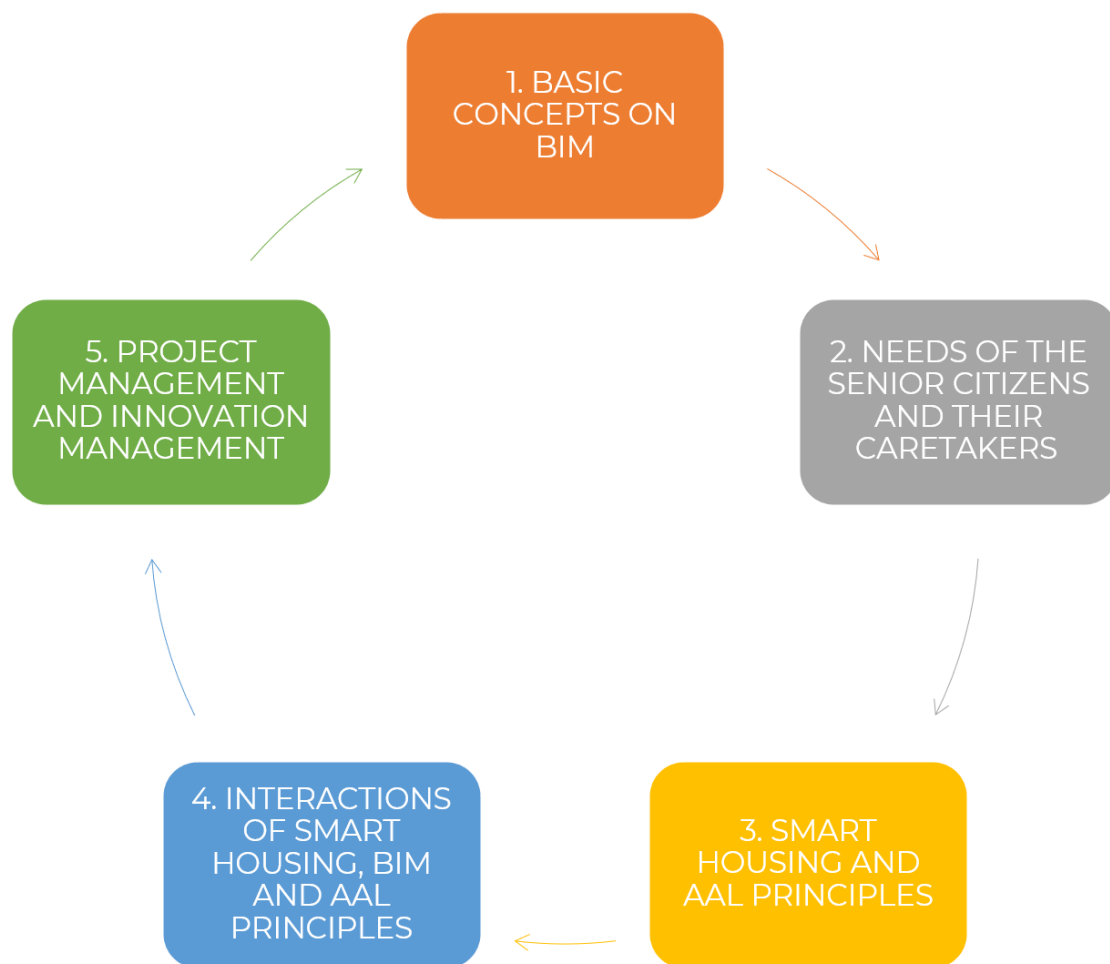
[Get more information at the website](#)

Current Work

During the last months, ESSENSE has developed its Educational Philosophy and Joint Curriculum.

The Joint Curriculum defines the necessary knowledge and skills components regarding key principles of BIM; Smart Housing and Ambient Assisted Living (AAL). It covers different aspects related to CAD Design, sensors architecture and BIM management with training tools, didactic materials and eLearning environment to address the different profiles of learners in a target-oriented way.

The Joint Curriculum is divided into 5 modules:



1. Basic concepts on Building Information Modelling

The objective of the unit „Basic Concepts on BIM“ is to obtain an overview of the definition of BIM and the possible uses. What are the advantages of BIM or computer-aided design concerning the data associated with the 3D objects.

2. The needs of the senior citizens and their caretakers

The unit “The needs of the senior citizens and their caretakers” aims to prepare building designers, construction workers, and related professionals to make design decisions that support healthy active ageing, and to implement those solutions in new buildings and refurbishments by focusing on user-centred design approaches.

3. Smart Housing and AAL

This unit's purpose is to introduce the concept of AAL and Smart Housing to the students. Furthermore, this unit will allow students to get insights into the basic principles of sensing, sensor data acquisition, signal processing and modelling

based on data, to design and implement applications for assisting older adults.

4. Interactions between BIM, Smart Housing and AAL

As a goal, this unit “Interactions between BIM, Smart Housing and AAL” aims to introduce the student to using AAL principles and Smart Housing technologies within the BIM method. How to combine the principles of Ambient Assisting Living with the concept of Building Information Modelling.

5. Project Management, Innovation Management and collective competencies for optimum implementation of BIM principles and AAL concepts.

Module 5 comprises all the necessary knowledge for the implementation of BIM methodology from an Innovation Management approach. This module will provide learners with different concepts and methodologies to make the most of the implementation of BIM.

These modules will be freely available at the end of the project in 2021 on the ESSENSE Collaborative Platform with innovative quizzes, exercises and some extra lectures.

Validation of Joint Curriculum



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To validate the defined Joint Curriculum, the content and structure, the project partners reached out to their networks of experts. The aim was to identify potential weaknesses and opportunities for improvement. In general, the feedback results confirm that the Joint Curriculum is covering the expectations of the AEC-Industry (Architecture-Engineering-Construction Industry) and related sectors with focus on the habitat design. The suggestions of the

participants are very beneficial and will be considered while reviewing the Joint Curriculum.

Thank you to all the participants.

Full validation of Joint Curriculum (PDF)

Next steps



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During the next months, the ESSENSE partnership will be working on the development of a Blueprint to ensure the follow-up of ESSENSE results. The partnership has identified the main Educational programmes, policies and agendas at European and National level in order to analyse the impact that ESSENSE could have on its deployment.

In the last quarter of 2020, the didactic material will be ready for testing. ESSENSE will enroll an official announcement to the educational community (teachers, student and experts in BIM, habitat design, education, etc.) to participate in the pilot test action. During this pilot test, the educational philosophy, joint curriculum and didactic materials will be assessed within the eLearning platform. This action will enable the partnership to polish the mismatches on the didactic materials or eLearning platform functionalities.

More Information on our website

ESSENSE and Events

Upcoming Events

- Due to the coronavirus pandemic all ESSENSE Events are postponed. We will inform in our next newsletter, on our Website and Twitter about the new dates.



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ESSENSE @ INTED 2020



ESSENSE at INTED 2020

ESSENSE Project was presented during the 14th annual International Technology, Education and Development Conference, INTED2020, that was held in Valencia (Spain) on the 2nd, 3rd and 4th of March, 2020. INTED is one of the largest international education conferences for lecturers, researchers, technologists and professionals from the educational sector. After 14 years, it has become a reference event where more than 700 experts from 80 countries will get together to present their projects and share their knowledge

on teaching and learning methodologies and innovations on educational technology. During these days, Mr Carlos González from CETEM performed a poster presentation where all the interested assistants could share their feedback and ask relevant questions about the topic. There was sound interest from different Universities from the United Kingdom, Spain, Qatar, Germany, Mexico and the United States. These universities will be contacted during our next activities related to the Blueprint definition and Workplan for the period 2021-2024.

Third Transnational Partner Meeting in Jaen



The Team of ESSENCE in Jaen at Ageing Lab Foundation

The Third Transnational Meeting event was hosted by Ageing Lab Foundation, on November 11th & 12th 2019 in Jaen, Spain. Attended by all the entities that encompassing the consortium. The main goal of this meeting was to present the results reached to dates and to establish future details regarding the different actions that will be undertaken by the project partners during the following months.

The partnership was delighted to have Maria Dolores Muñoz de Dios, PhD

Social and Legal Sciences at the University of Jaén and Professor of the Master of accessibility for Smart City who highlighted the importance of designing smart environments for adults that meet universal accessibility requirements. [read more >>](#)

ESSENSE Partners



[more information about the partners here >>](#)



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