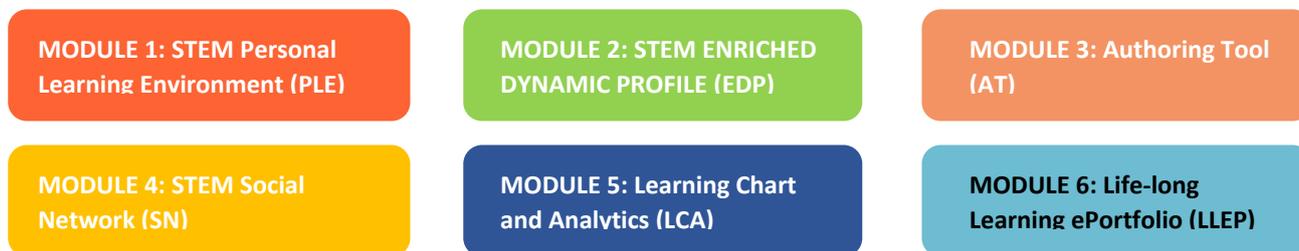


★ **AMIGO** (smArt steM learnInG ecOsysteem) is a project selected in the Phase 1 of the IMAILE Pre Commercial Procurement (PCP) project. AMIGO is a **new online educational ecosystem** solution, focused on STEM subjects, in the educational sector. It addresses the need of offering to European schools, teachers and students with a training supported by an ICT based solution/services that foster the implementation of **personalized learning environments (PLE)**. AMIGO is an immersive environment that provides primary and lower secondary educational schools, with a **Student Centred Learning Approaches**, and so, the education (for students) and the training responsibility (for teachers) with AMIGO, will not end with the school timetable but support the student along its daily learning process. AMIGO is composed by **six different modules** interconnected and integrated from a visual and functional point of view. The different modules that compose AMIGO are the followings:



- The **STEM Personal Learning Environment (PLE)** is where teachers and students have their **Work Space**, fed with multimedia STEM contents to work with. Teachers, with the PLE can specify and create tasks and exercises to the students related to the given content Task might be assigned to a concrete student, to all the class, and so it might be individual or a team exercise The PLE provides teachers with and **Authoring Tool (AT)** to create original Lessons and exercises and a universal **Digital Library (DL)** fed with more than 7.000 multimedia resources like videos, simulations, interactive activities, etc.
- **STEM ENRICHED DYNAMIC PROFILE (EDP)**: a profile that shows the advances of the student, his/her interests, capabilities and skills along his/her lifelong learning and his/her educational career. It allows teacher and students themselves to know, -based on objective measurements-, the student's strengths and weaknesses, detecting opportunities to improve and progress and also understanding and recommending training actions to enhance such evolution and understanding of topics. The **STEM EDP** gathers over time academic outcomes of students, preferences, interests and social activities related to **STEM** domain, providing a dynamic and continuously evolving **STEM** picture of the student. It is a 360 grade picture of the students learning daily activity, considering not only the typical exercises, exams or work team, but also the students' interests, social relationships or some other works created by them.
- **STEM Social Network (SN)**: to connect students and teachers to share ideas and contents related to STEM, to connect with other people spaces to achieve effective learning. A place where every user will be able to recommend other posts or items. The system will learn about all the interactions and contents shared on this module so will suggest to the users new contents to share or new users to follow or contact.
- **Authoring Tool (AT)**: A powerful and multimedia authoring tool that allows users to integrate any kind of contents in an easy a beautiful way, fully customizing products and design according to their needs. It is directly connected to the **DL**, Google, Drive, Youtube, Vimeo, and provide access to amazing external STEM content providers.
- **Learning Chart and Analytics (LCA)**: learning analytics are applied to get information to recommend both students and teachers the best path to continue the learning process and personalize the content according with the users' preferences. This module captures and saves big educational data generated within the **PLE**, analyses this data to facilitate the construction of **PLE** and it is the responsible of incorporating the visual tools that add value and provide useful information for both, the teacher decision process and for the student learning paths. The dynamic integration of all these data will contribute to the construction of the **STEM EDP**.
- **Life-long Learning ePortfolio (LLEP)**: a complete **LLEP** ecosystem for students, teachers, schools, that allow to store, organize and show in an attractive way the best contents and results. It offers a unique feature that allows students to bring with them the portfolio once finished the school and provide direct access to the **STEM EDP**, offering in this way a great view over the students' career.

This project it is the result of combining efforts of three companies: a big publishing company called Edebé, a young ICT Start-up (Documenta) and a R&D centre in Telecommunications (GRADIANT)¹. Each of them provides its own developments and know-how: Edebé its PLE fed with educational contents (DL) and the Social Network; Documenta its ePortfolio, the STEM Profile concept and the AT Portability and GRADIANT the learning analytics system providing an intelligence layer to the system to decision making in the students and teachers learning processes.

¹ Here can be found more information of each of the companies: www.edebe.es, www.mydocumenta.com and www.gradiant.org.