

MATHISIS (Managing Affective-learning THrough Intelligent Atoms and Smart InteractionS) project aims at reinforcing the role of ICT in education by creating new learning tools for vocational training and mainstream education for individuals with or without learning disabilities. Enabling the integration of an open API, a state-of-the-art learning software platform and various terminals (robots, IWBs, tablets, smartphones, etc.), the final product will answer the needs for future educational frameworks based on adaptive learning, automatic feedback, automatic assessment of the learner's progress and learning behavior, affective learning and game-based learning.



MATHISIS objectives will be achieved in different phases:

- Development of breakthrough learning algorithms, based on learning graphs, enabling the implementation of non-linear learning schemes ;
- Personalization of the learning experience, with so-called Smart Learning Atoms (SLAs), integrating the learner's affective and cognitive response to the learning process ;
- Creation of an open API allowing direct contributions from the learning community and the use of the platform through to various terminals (robots, IWBs, tablets, smartphones, etc.) ;
- Testing of the solution in pilot sites with a large array of specific needs (vocational training centers, industrial sites, schools or institutions for individuals for learning disabilities, etc.)

As partner of the MATHISIS project, Aerospace Valley is in charge of the implementation of tests for the MATHISIS solution in industrial sites, mobilizing in that respect several of its member industrial actors.

GENERAL INFORMATION

Call	HORIZON 2020 – ICT-20-2015 : Technologies for better human learning and teaching				
Budget	6.5 M€	EU contribution	70%	Duration	36 months: 01/01/2016-31/12/2018
Coordinator	ATOS (ES)				
Partners	ATOS Spain (ES), DIGINEXT (FR), Centre For Research and Technology Hellas (GR), National Center For Scientific Research "Demo-kritos" (GR), Nottingham Trent University (UK), RIX Research and Media (UK), University of Maastricht (NL), University of Nottingham (UK), Vrije University of Brussels (NO), Fondazione Mondo Digitale (IT), Globo Software - Mobile Telephony Services Anonymous Company (GR), Institute of Mobile Technologies for Education and Culture (LT), La Cometa del Sud (IT), Nurogames (DE), Consejería de Educación_Junta de Castilla y León (ES), National Organisation for the Certification of Qualifications and Vocational Guidance (GR), Polo Europa (IT), Aerospace Valley (FR)				
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