

APRIL 2023

NEWSLETTER 1



Digital Learning Paths

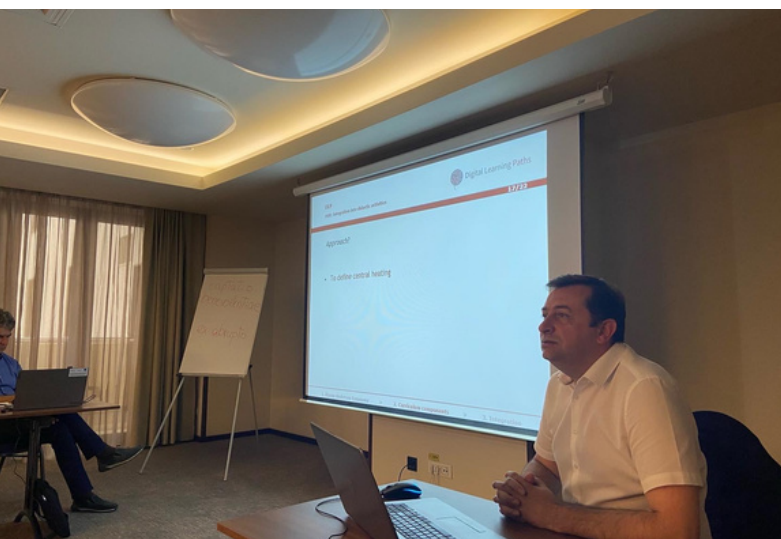
THE NEXT STEP TOWARDS
OUR STAKEHOLDERS

FIND OUT MORE ON OUR NEW OER-PLATFORM:  Ariadna.education



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THE PROJECT IN A NUTSHELL

For several years now, the Belgian VET school GO! Technisch Atheneum Zavelenberg (Brussels), is implementing a new didactic concept. Within this new didactic concept, the emphasis is on self-regulated learning. To steer self-regulated learning in the right direction, we need a computer-driven learning process. This process can be realised using digital learning paths, running on a digital platform. Although such OER- platforms already exist, it was the intention of GO! Technisch Atheneum Zavelenberg to develop a new, more user-friendly and up-to-date system, including new didactic materials in different technical fields. The school found that the same needs existed abroad.

NGO "Institutul pentru Educatie" from Romania (Bucharest) takes care of the development of the new digital platform ("Ariadna.education") and the structure of the associated digital learning paths. In addition to the Belgian VET school, VET schools from Croatia, Serbia and Spain and a Greek NGO are collaborating on the development of didactic materials in the fields of mechanics, central heating, construction, robotics and automation and marine techniques.

To realise this ambition, GO! Technisch Atheneum Zavelenberg applied for funding under the Erasmus + KA2 partnerships for cooperation program.

The official start of the project was in November 2021. The Kick Off (on line) of the project was in January 2022. The activities will continue until May 2024. Upon completion of the project, the following tangible results will be available:

PROJECT RESULT 1: Digital OER-platform: Ariadna.education

PROJECT RESULT 2: Didactic materials and learning paths in the field of mechanics

PROJECT RESULT 3: Didactic materials and learning paths in the field of automation and robotics

PROJECT RESULT 4: Didactic materials and learning paths in the field of construction

PROJECT RESULT 5: Didactic materials and learning paths in the field of marine technics

PROJECT RESULT 6: Didactic materials and learning paths in the field of central heating





NEW OER PLATFORM: "ARIADNA.EDUCATION"

The purpose of the OER platform ("Ariadna.education") is to create digital learning paths for students. A digital learning path is a computer-guided learning process, in which different learning steps are completed in a well-considered sequence. The different steps follow a well-considered didactic pattern, which is built up in a deductive way. Successively there is a motivation phase, an information phase and a memorisation phase in the learning process. Each phase in turn is made up of sub-phases (in which the learning process is built up from global over analytical to synthesis and from concrete over schematic to abstract).

The platform is a customised version of Moodle, from which all unnecessary plugins and functions have been removed to improve the speed and user experience (UX). Security updates have been used. The platform has an improved theme (user interface: UI) with a focus on user experience. The platform uses multiple cache systems to be able to accommodate a big number of users. The default text editor was extended to include an advanced equation editor for interactive applications and quizzes.

For the creation of digital learning paths, the Moodle core plugins were updated, optimised and got a new user interface (UI) and user experience (UX). There are third party tools integrated into the platform (such as H5P.org and other learningapps) to be able to create and use multiple types of digital learning and there is also a way to work with digital simulations. There is an LTI (Learning Tools Interoperability) activated to be able to integrate more third party tools to be used inside the platform for creating and using these tools inside the digital learning paths.

Home Project information

Add new learning path

Name learning path*

Description*

Subject*

Estimated time to complete*

Didactic pattern

ARIADNA.EDUCATION

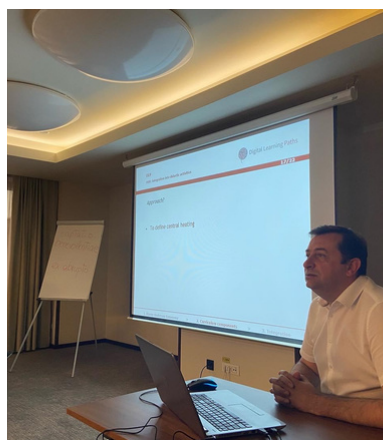


TRAINING ACTIVITY(LTTA) IN BUCHAREST

The Romanian partner organised an LTTA in Bucharest. Since the president of this NGO is a professor of pedagogy with a specialty in digital education, we were able to learn a lot. The partner explained the added value of multiple digital educational resources (Kahoot, Learningapps, Wordwall, Genially ...) and explained how to integrate digital resources in learningpaths, with a focus on what to take into account (objectives, content, methods, context and assessment).

In addition, this training focused on points of attention in visual design (clarity, elegance, balance, symmetry, space, simplicity, using colors and E- reading). Furthermore the basic and general rules for filming were covered. The whole process of creating a learning path using different didactic materials was explained. Different types of activities that can be created with didactic materials were explained (presentation, demonstration, consolidation, assessment, ...), taking into account Bloom's taxonomy.

Moreover, an eTwinningproject "I dare you VET-digital challenges" was set up. This project provides opportunities to engage in collaborative learning activities. It is a mean to showcase concrete learning results to colleagues from other countries and to apply knowledge. It is linked to the VET curricula in the 5 technical fields of the project. Local teams built challenges for their counterparts (short learning materials, digital games and tests).The students and teachers learned to work with the learning app "Genially". Afterwards all teams discussed what the project brought to VET and how their schools can continue to provide digital learning experiences . Later on, the project will be opened up to national and international stakeholders.





TRANSNATIONAL PROJECT MEETING IN BRUSSELS

During this transnational project meeting in Belgium, methods were exchanged for the development of innovative didactic materials, such as the development of movies with imovie, voice production and the development of animations.

As introduction, the various tabs of the OER platform "Ariadna.education" developed within the consortium were introduced. The tabs "Home", "project information", "News", "Courses" and "Learning paths" were discussed.

As main part, developing learning paths without the grading option was explained and practiced (= the tab "Digital learningpaths"/ Add new learningpath). In addition, the development of learning paths with grading (= tab courses),(connection with Moodle) was also explained and practiced. The features list associated with each learning path was explained. A well-considered didactic pattern was provided by the headcoordinator, according to which the learning paths have to be developed (different phases). At that time, the possibility of the platform was limited to 4 phases. Afterwards, the platform was improved and the number of phases was increased...

We also organised a guided tour in GO! Technisch Atheneum Zavelenberg. Every workshop at school was visited: central heating, electromechanics, care, construction, electricity and the workshop of the first grade. The partners watched and exchanged knowledge.

A team of 23 people (including stakeholders) participated in this meeting. Everyone was provided with an account to develop learning paths on the Ariadna platform. Surveys were conducted among teachers and stakeholders to evaluate the current status of the platform. From the results of the surveys, the necessary conclusions were drawn for the improvement of the platform...





TRANSNATIONAL PROJECT MEETING IN SERBIA/VLASOTINCE

During this meeting, the updated Ariadna-platform was explored again, after it had been improved in line with the feedback from the transnational project meeting in Brussels. The eight steps of the didactic pattern, according to which each learning path had to be built up, could be applied in the learning paths. The Romanian partner made some learning paths as an example. Subsequently, ample time was set aside for the participants to develop digital learning paths themselves. As didactic materials, to be used in the learning paths, the participants used their own developed didactic materials or didactic materials that are freely available and the teachers also used the technique of embedding. Moreover, a clear classification system for the didactic materials was explained and applied (based on the type of didactic material, technical field and the partner who developed it).

Furthermore, a number of stakeholders from the electrical sector (Gruner electric and Elrad from Vlasotince) and construction sector (MLADOST d.o.o. Lescovac) participated in the meeting. In addition, we were given a tour in the premises of the school. We could admire electro-pneumatic installations and metalworking machines.





CURRENT AND UPCOMING ACTIVITIES

24 APRIL TO 28 APRIL 2023:

Learning Teaching and Training Activity (LTTA) in Spain. The Croatian school from Sibenik visits the Spanish Marine school from Pasai San Pedro, including visits to companies and shipyards.

8 MAY TO 12 MAY 2023:

Learning Teaching and Training Activity (LTTA) in Croatia/Sibenik

The main goal of this LTTA will be the evaluation of the developed OER- platform, didactic materials and learning paths, by students as well as an education in the advanced possibilities of the platform and good development techniques for didactic materials.

MAY 2023:

Dissemination of the Ariadna- platform to the stakeholders to be evaluated

21 AND 22 SEPTEMBER 2023:

Transnational projectmeeting in Serbia/Krusevac

MARCH 2024:

Multiplier Event in each partner country

MAY 2024:

Transnational projectmeeting in Croatia/Varazdin



Digital Learning Paths

INVOLVED PARTNERS

Headcoordinator:

GO! Technisch Atheneum Zavelenberg- Belgium/Brussels



Other partners

- P1 Strojarska I Prometna Skola Varazdin - Croatia/Varazdin
- P2 Tehnicka skola Vlasotince - Serbia/Vlasotince
- P3 Industrijsko-obrtnicka skola Sibenik - Croatia/Sibenik
- P4 Prva tehnicka skola Krusevac - Serbia/Krusevac
- P5 CIFP Blas De Lezo LHII - Spain/Pasai San Pedro
- P6 Institutul pentru Educatie - Romania/Bucharest
- P7 Institoyto Koinonikis Kainotomias Kai Synoxis (Fifty-Fifty) - Greece/Thessaloniki



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