

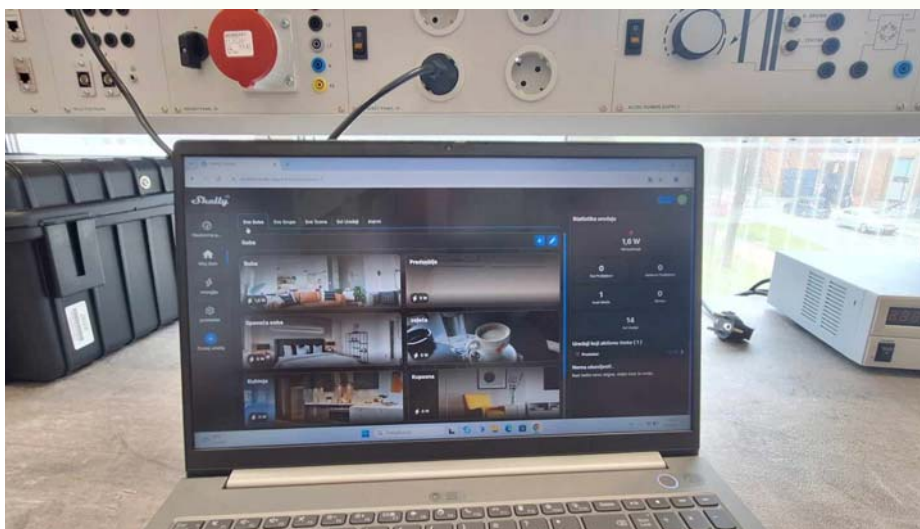
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2022-1-HR01-KA220-VET-000086983](https://erasmus-plus.ec.europa.eu/2022-1-HR01-KA220-VET-000086983)

Smart Home Models in VET Newsletter

Plenty of work has been done so far

As our project is in its final phase, a large number of activities have been completed. The models of smart homes created for educational purposes are in function and presented in partner schools or through videos to wider audiences attending webinars or open days.

The final meeting of the partnership that will wrap up the entire work accomplished in all five work packages takes place on 16-18 September 2024. It will be an online event where teams summarize their achievements, present final budget reports and discuss potential further cooperation within the smart home network in the future.



Disclaimer

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July 2024

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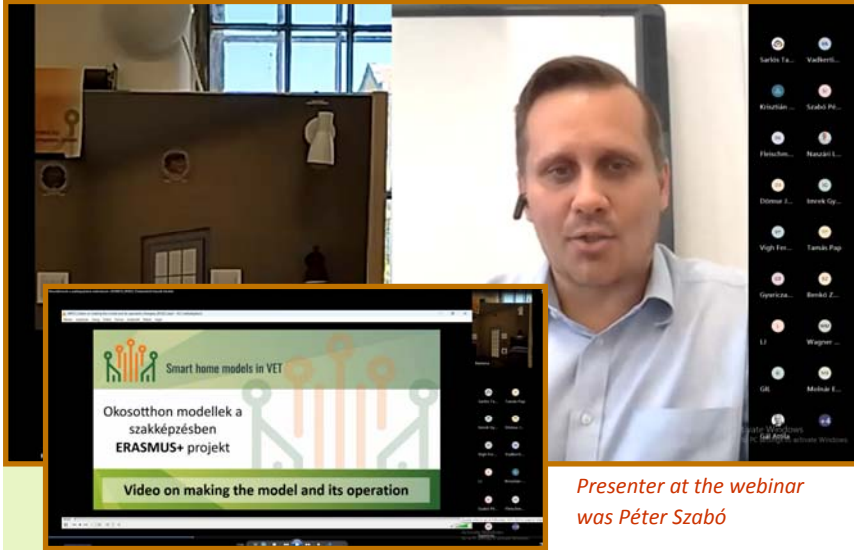
Branka Petrović

From the Content

- Three more webinars for VET staff delivered in June 2024
- New educational videos on smart home models presented
- Another Open Day held in VTSNS dedicated to the project
- Gold medal at the exhibition of innovations for pupils from ELPROS
- Animated film "Home Smart Home" snippets
- Glossary on smart home technology used in English class

18 June 2024

Webinar in BMSC



Presenter at the webinar was Péter Szabó

The event was held after the end of the 2023/2024 academic year. An invitation was sent by e-mail to vocational schools and partner companies. There were 26 participants and the webinar encompassed the following:

- Short introduction of the Erasmus+ Smart Home Models in VET project and its participants;
- The aim of the classroom design;
- Presentation of the main phases of the construction;
- An insight into the curriculum, teaching materials and the nature of the knowledge assessment tests;
- Presentation of the students' activities;
- Demonstration of how to configure, connect and operate the tools; and
- Questions and answers.

Content and Language Integrated Learning (CLIL) is an approach used to teach students about a new subject in a language foreign to them. In this way, they learn both the language and the new content.

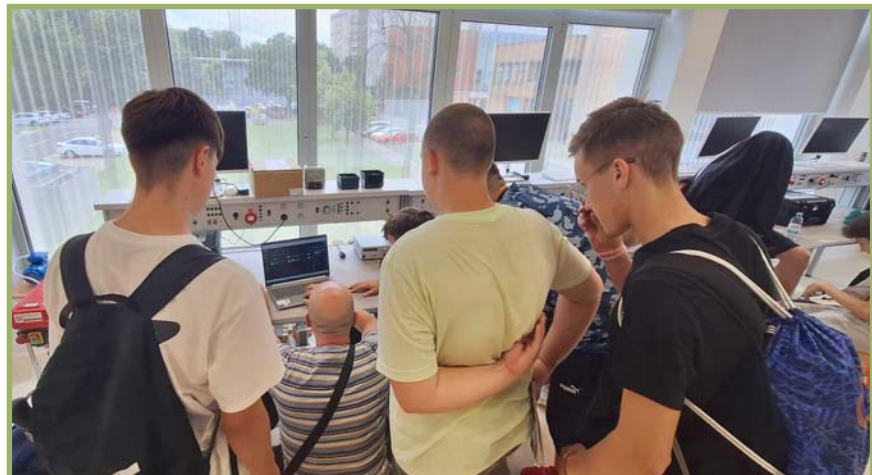


Smart home model classroom in ELPROS

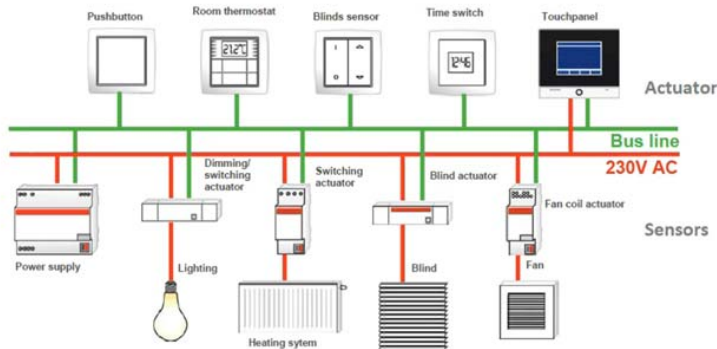
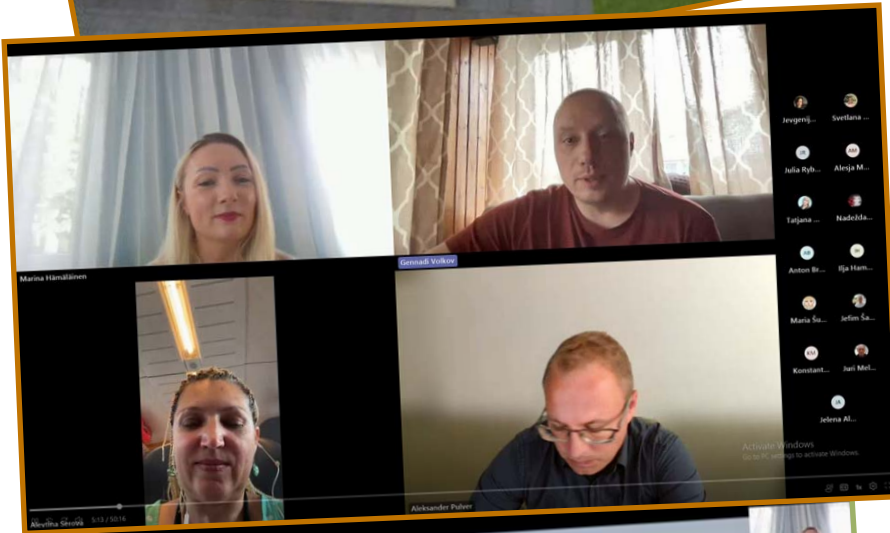
On Smart Homes in English Class

A month ago, second grade students, future electrical technicians, and their teacher Željka Getoš from ELPROS visited the smart home model classroom during their English lessons. A project team member and vocational practice teacher Milan Sabljčić showed them how to implement certain smart home aspects. The students could try out the model, and also used this opportunity to find out more about complementary classes and extracurricular activities subject they will be able to take later in their education that would enable them to gain skills and knowledge about smart home technology and installations.

Since this was a CLIL class, it was a perfect opportunity to use Smart Home Glossary created in the project to provide the students with more information about the topic and to additionally improve their technical language skills, which is one of the demands of the modern labor market.



Webinar in IVVEC



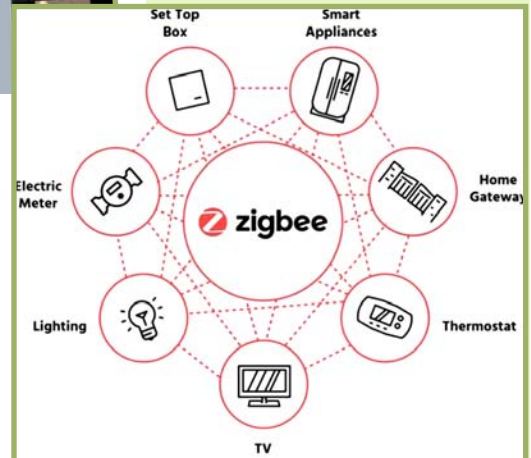
A typical KNX Bus network with mixed devices

17 June 2024

Ida-Viru Vocational Education Centre organized a highly informative webinar for VET staff titled "Choosing a Platform for Smart Homes: Graphical Options and Features". The event attracted not only VET workers, but also professionals from beyond the European Union. Among the notable participants was a UK-based programmer with 20 years of programming experience and just an IT enthusiast.

The webinar was led by a distinguished specialist with 27 years of experience in the IT sector. His impressive career includes roles at various renowned Estonian enterprises, managing the IT department at Ida-Viru Central Hospital, and pioneering digital television in the region. Currently, he owns an IT company that provides smart solutions for both businesses and individuals.

The primary aim of the webinar was to introduce the audience to the results of the project Smart Home Models in VET and disseminate knowledge about smart home platforms. The session was highly successful, effectively spreading awareness of the project's objectives and potential. Overall, the webinar was a significant step towards educating and empowering individuals interested in smart home solutions, marking a successful outreach by the Ida-Viru Vocational Education Centre.



25 June 2024

The webinar prepared in VTSNS was delivered to VET staff and some professionals in electrical engineering outside the educational sector. The participants came from five places in Serbia (Zrenjanin, Novi Sad, Loznica, Belgrade and Krupanj), as well as from four towns in Bosnia and Herzegovina (Zvornik, Bratunac, Kalesija and Gračаницa). The webinar was mostly devoted to the smart home models used in VET. The host was prof. Tanja Krunić, head of electrical engineering programme, and the main presenter was Branka Petrović.

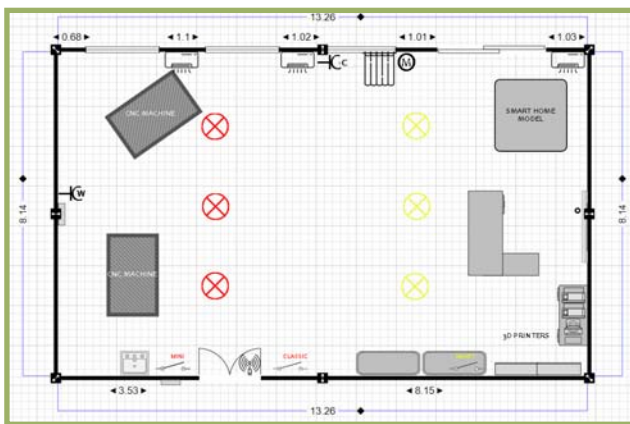
In the introductory part, the Erasmus+ programme was explained since VET schools in the two countries do not widely take part in it. The project was presented, its partnership, work packages and the alignment of project activities with Erasmus+ priorities selected in the application phase. VTSNS model built several years ago was shown in a short video. Then, the models from IVVEC and PMC were mentioned as they resemble this first model in VTSNS. The video from ELPROS was played and the model was explained. Also, a part of the video by BMCS was presented referring to the functions of their model.

The viewers were told there are two more models in VTSNS — the small model resulting from a master thesis of an IT student, and the smart classroom presenting the most frequent smart home functionalities. The models were shown in separate videos.

Prof. Božo Ilić, who joined online, talked about the models, his assistant, Bojan Marković, who installed the devices in the smart classroom gave a brief comment on the works successfully carried out, while prof. Dragan Rastovac recommended his presentation on smart environments that can be seen via a link on VTSNS SmartVET webpage along with the webinar.

VTSNS Students in the Project

Five IT students from VTSNS (Dejan Gramić, Darko Vasiljević, Dobrivoj Ranđelović, Aron Jakab and Vladimir Pejić) spent two months working on project activities related to dissemination under the supervision of their English teacher and project team member, Branka Petrović. The preparation of events and filming of the transformation of an ordinary classroom into a smart one were among everyday tasks. They made technical drawings, studied and used new applications, helped in pairing smart devices via eWeLink software. As a result, they created two videos on VTSNS smart models and provided technical support to the webinar, among other things. Their videos are now available at VTSNS public YouTube channel.



Видео снимљен током инсталирања паметних уређаја у ВТШНС



At the moment, lighting, electricity consumption, air conditioning, curtain opening/closing and security can be controlled remotely in the smart classroom. It is also equipped with a large interactive display.

New generations of VTSNS students mentored by their teachers will add other functions and create more scenes for the existing ones.



Five Open Days in VTSNS in 2024

Open days in Novi Sad partner school were organised from January to June. They were aimed at candidates intending to enrol VTSNS and were combined with the school's free preparatory programme for the entrance exam.

Before lectures and exercises in key subjects, the audience was introduced to the study scheme, they toured the school facilities and learned about international cooperation of the institution.

The content related to smart home technologies varied depending on the profile of participants that came on a particular day. They were usually shown a model in function, or watched a video about one of the models, or heard information about the project activities and Erasmus+ programme. Since all candidates applied



online for preparatory courses, there were 185 persons in total who were told the story of our project from different angles.

11 June 2024

A group of future graphic designers found out about the Smart home models in VET project through its Newsletter and special webpage on the VTSNS website:

<https://vtsns.edu.rs/smart-vet/>



Smart home models in VET has 30 activities grouped in five work packages, and numerous project outcomes applicable in the classroom.

Snippets from the Animated Film



Film Premiere

The animated film "Home Smart Home" was presented to ELPROS students and staff after the school year ended. It is a project result aiming to be used as a learning and dissemination tool.

As the fulfilling of such a task requires specific IT skills, students attending the computer technician course were included in the production. IT teachers Danijela Ivanović-Ižaković and Anica Leventić organized a group of their students and mentored them through the design and animation process.

The students not only learned how to use the tool for developing animated content, but they also gained knowledge on smart homes and smart technology, which is not normally a part of their curriculum.

The smart home in the film is a modern urban sustainable house, fully automated and with a rainwater collection and filtration system. It also has a solar rooftop with a photovoltaic system for electricity generation.

Gold Medal for ELPROS

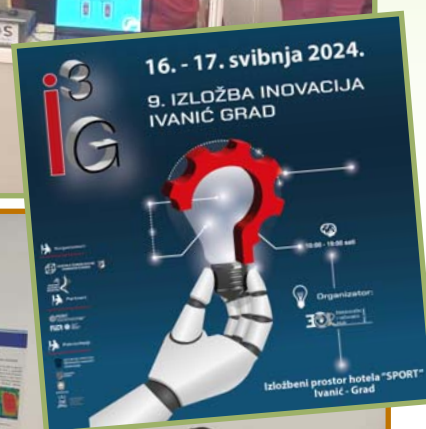
Two student teams from ELPROS participated at the I3G Innovation Exhibition in Ivanić Grad, Croatia, held on 16-17 May. Students Iva Ižaković and Borna Vinković won a gold medal for their model of a smart parking lot.

Since every modern building now includes private parking spaces for tenants, smart technologies are applied to provide advanced functions and security of the people and their property. The students expanded their work done on the small-scale smart home model to provide these necessary improvements to its concept.

The ninth edition of the Exhibition brought together about a hundred exhibitors— mostly young innovators from all over Croatia. Among their innovative and creative works there were an automatic dog feeder, a multimedia robot, a smart chess, a smart school bell, an autonomous lawnmower and a number of other interesting projects.

For the two students and their mentor, prof. Kristijan Čvek, the gold medal means a direct invitation to another significant competition. This time it is the 22nd International Exhibition of Inventions ARCA 2024, which will be organised in Zagreb on 10-12 October, by the Croatian Union of Innovators.

Innovation Exhibition I3G in Croatia



Smart Home Models in VET Newsletter

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To learn more about the project,
visit its website at:

<https://smarthomemodels.eu/>



Smart home models in VET



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