

**Erasmus+ KA229 Integrating technology in the teaching process,  
path towards building 21st century skills**

## **Zoom conference #3**

**24th February 2021 at 18:00 (Slovenian time)**

### **Present national teachers' teams:**

**Romania: Marius Buzera, Cristian Daniel Maria, Carmen Vulpe, Ramona Uscatescu**

**Slovenia: Janez Klemenčič, Rafaela Kožlakar**

**Portugal: Nuno Proenca, Carlos Caeiro, Sonia Arroz**

**Turkey: Şeyma Enişer**

## **Topics of discussion:**

- 1. 3<sup>rd</sup> Chapter of the Guide: Marius Buzera described Kahoot as simple and engaging app (history, requirements, options, versions). The didactical use was discussed (formative assessment, evaluation of progress, online connection with PIN and without time limit). The advantage is possibility of mobile learning (in museums, on a field trip) on the smart phones and internet connection. According to Slovenian experiences in the project Innovative Pedagogy 1:1 Kahoot would be the appropriate app to use in the classroom.**

**Nuno Proenca compared it to Socrative, which is useful for formal assessment, good for teacher responses at every answers. It enables generating of data, export to Excel etc.**

**They are both Student Response System apps.**

**Slovenia will describe Nearpod as a bit more complex online learning system. They have some practical experiences of the use for lessons in the project Innovative Pedagogy 1:1.**

**We will include some widespread apps in the Google Classroom (text editor, spreadsheet, presentation, graph analyses, forms).**

- 2. 4<sup>th</sup> Chapter of the Guide: Ramona Uscatescu wrote with colleagues very good draft of measurements in water research and will be translate in English in few weeks. There are differences between countries in hours of chemistry lessons for water analyses (140 hours in Romania, 50 in Portugal and only 10 in Slovenia, no data for Turkey yet).**

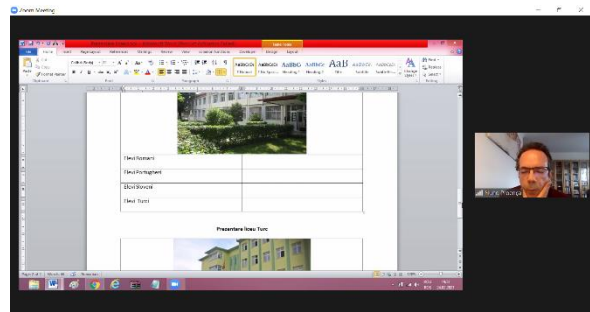
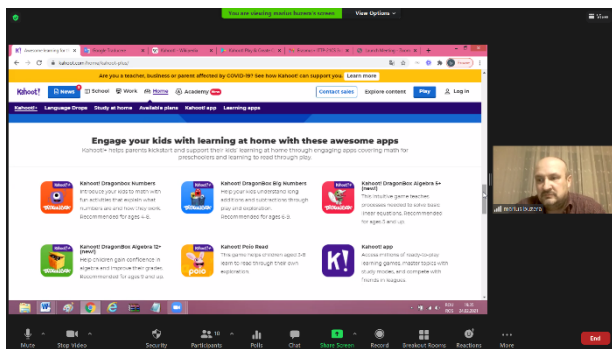
**In addition, we will describe measurement tools: Romania-JBL Proscan, Slovenia-Pasco weather station, Portugal-Hanna backpack.**

- 3. First next activity will be group workshop for students. They will describe and present schools in the project. Every school has to select at least 2 students for each group, that means at least 8 students (names, e-mails), in the next week. The following week we have to choose at least 4 students for description of water quality parameters (Slovenia, Portugal), presentation of lab work (Romania) and the state of water recourses and its protection in Istanbul (Turkey).**
- 4. Students and teachers was very satisfied with the last conference. We won't share their pictures in Zoom in public. We will meet again just before Easter week.**

## **5. Suggestions:**

**Zoom conference with students – 1 class each country + Erasmus team of teachers: Friday 19<sup>th</sup> February at 12:00 Slovenian time. All participated teachers agreed that each country will prepare 3 or 4 short students' presentations about themselves and their involvement in the project for at least 15 minutes (5-10 minutes each student). Therefore, they will know better each other and will strengthen project affiliation. In the same time will be opportunity for filling up the questionnaire for students and teachers for later analyses. In March, we will continue with the Zoom workshop in the smaller international groups about specific project topics as the preparation on the LTTA4.**

## 1. Guide chapters:



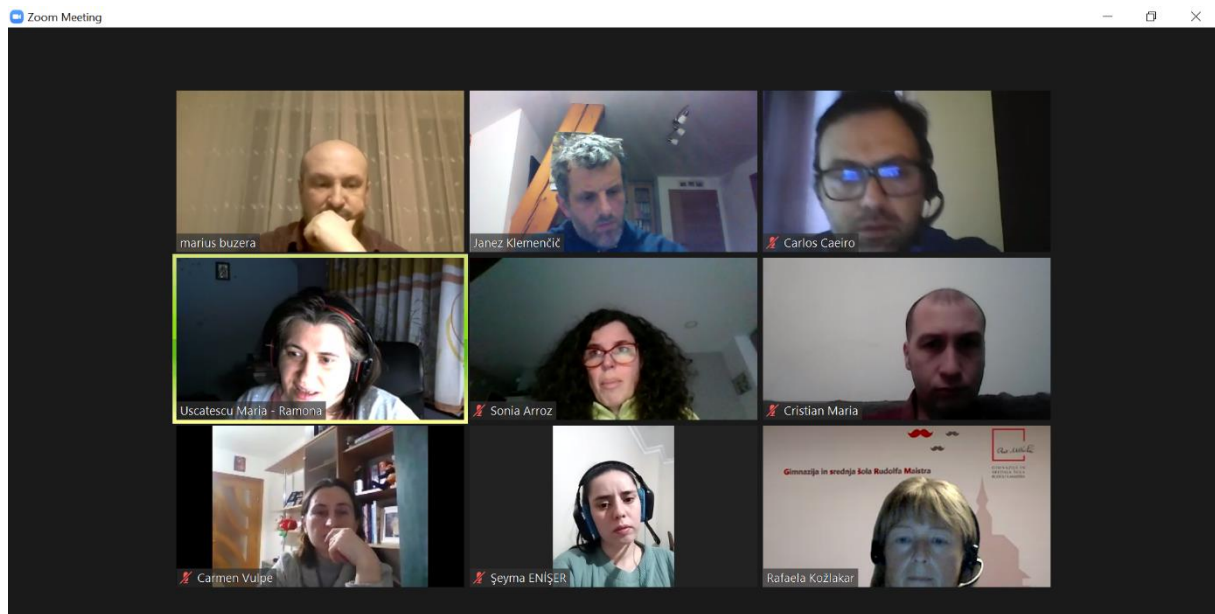
- The role of ICT in training The Competences of the 21st Century (is already written by Romanian team)
- Evaluation of the use of ICT in the teaching process at the level of a school unit (Slovenian team will edit questionnaires, Portugal team will do first analyses, Romanian team will do special analyses with KNN machine learning algorithm)
- Applications and software and hardware solutions used in the teaching-learning-evaluation process (Romanian team will partly translate their books and the use of JBL ProScan for water analyses, Slovenian team will describe the use of Nearpod application and mobile weather station, Portugal team will describe how to apply Hanna backpack in the aquarium and the external water surfaces)
- Basic modern teaching approach (Some parts of Romanian books will be translated)

## 2. Optional curriculum Modern methods of analysing the quality of environmental factors (focus water), preparing the learning units and teaching strategies for teaching:

- goals
- complete cases of good practice with hints for execution
- measurement tools (JBL ProScan, Hanna Backpack)
- description of learning strategies

## 3. Dissemination of results – discussion about the opportunities of the presentation of the project at the international conference.

## The beginning of the conference:



## The end of conference:

