Project: Coding in Space, Erasmus + project (2019-2021)

Subject: Geography lesson- Exploring the landscape of the local surroundings

Target group: students in the 5th and 6th grades

Materials: Qbots, Qr codes, Laptops, Phones

Aim: students learn and use new information with new technologies (online of offline coding)

Aims for the learners:

☐learners identify the main forms of the landscape and use in practice;

☐learners distinguish and identify different sorts of water in practice;

☐learners indicate conservation areas and natural monuments in practice;

☐learners use ICT tools to learn and use the new information;

☐learners may create the model of a hill and a river valley. Then they identify and present the elements using the model instruction.

Class organization: team work/pair work, treasure hunt.

Activity: The students are parted in groups of 4 or 5. They receive a map and they are instructed they have to follow the map and the clues to find out about particularities of the landscape. They also receive a phone for each team to e able to read the clues for every stop.

The students have 5 stations : 1 . Mountain station (to learn about flora and fauna in the mountain climate) 2. Soil in the fields (to learn about different soil types in agriculture) 3. Waterland (to learn about water environments) 4. Air quality (to learn about the issues that affect the air quality in our country) 5. Climate (to learn about particularities of climate and climate change in our country).

At each of the stations, the students will uncover information about certain geographical items, using a QR code reader. They will also have a question in

code, when they discover the answer, they can find out the direction to the next point on the map. The group of students that discover the clues and solve the map the quickest is the winner of the first stage of the lesson.

Follow up: according to the results discovered by the students during the treasure hunt, they have to prepare a presentation upon the climate in their area. The presentation will include modern IT techniques and it will show the IT skills of the students. The best presentation wins the second stage of the lesson.