

Learning Tool Code	Title
SDGfP goal 9	Industry, Innovation and Infrastructure
Objectives	
<ul> <li>name and recogn category of infras</li> <li>familiarize thems their hometown</li> <li>distinguish the pr hometown</li> <li>apply critical thin hometown infras</li> </ul>	heaning of the term infrastructure hize different facilities and systems that fall under the structure elves with the types of infrastructure currently present in os and cons of several facilities and systems in their king to offer suggestions on how to improve their tructure d respond positively to the targets and indicators set by
Activity details	
Materials → see Annex Duration: 180 – 225 minu Class size: 20 – 28 stude	
Instructions	
LESSON 1 Introduction / Engaging the s	students (10 – 15 mins) Juestions such as <i>How do you get to school?</i> or <i>What types</i>

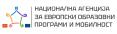
The teacher starts by asking questions such as *How do you get to school?* or *What types of buildings do you pass on your way to school?* in order to motivate them so they would engage in a conversation with him/her. A follow up question may include *Are they mostly new or old buildings?* 

After the first round of answers the teacher moves on to mention local places of business with questions such as *Are there any places of business in your area?* and *What are they?* 

The teacher then focuses on the hometown itself with questions like *Do you consider your town to be well-developed or not?* and *What would you change if you could?* The teacher then brings the introduction to a close by administering a blank table to the students with the instructions to answer the questions and fill out the table using the Internet:

Student name:









What is *reliable infrastructure*? Give some examples:

What is *sustainable industrialization*? Give some examples:

#### Research (5 – 10 mins)

After the students finish writing in their answers, the teacher calls upon a couple of them to read what they have found. Other students can chime in with additional comments or a brief discussion.

Finally, the teacher introduces one of the goals of today's lesson by stating *Today you* will make a presentation where you will act as a mayor of your hometown.

#### Preparation for the assignment (15 - 20 mins)

The teacher divides the students into pairs or groups of three and gives them instructions on how a quality presentation should be made (the instructions mostly include the accepted font size, the appropriate number of rows, line spacing and the position of the text and images). The teacher also gives them some examples of the titles they should use which may include:

- Town location
- Industry in my town
- Examples of innovation in my town
- How climate change affects my town
- Mobile network coverage
- What my town still needs

The teacher lets them know their presentation should include a quiz at the end and that the best pair or group will present their work to the rest of the class two weeks after. After this the students may begin their work.

Pair / group work (45 mins)







The students use prior knowledge to come up with the ideas and build their presentation. The teacher in the meantime shifts from group to group and gives advice on how to approach a certain topic the students chose or to help build a certain slide. The teacher takes note of the time and 5 minutes before the lesson ends reminds them to save their work so they can continue the week after.

### LESSON 2

# Introduction (5 – 10 mins)

The teacher asks the students if they remember the most important topics from the week before and reminds them what they are doing and why.

The teacher then checks the pairs / groups from the previous week and lets them return to their saved work and continue with the presentation.

# Pair / group work (35 mins)

The teacher again shifts from group to group and gives advice on how to fine tune the slides and put the finishing touches on the presentation.

#### Instructions on creating the quiz (5 - 10 mins)

The teacher asks the students if they remember how to build an interactive quiz inside a presentation and reminds them of the structure and how the slides should be arranged. The teacher also shows the students how the correct and wrong answers are linked with the corresponding slides.

#### Pair / group work (30 mins)

The students use prior knowledge to design the appropriate questions and the slides used for giving feedback. The teacher in the meantime shifts from group to group and gives advice on how to formulate certain questions and check if the slides are linked correctly.

#### Conclusion (5 mins)

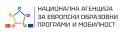
The teacher takes note of the time and 5 minutes before the lesson ends reminds everyone to save their work and also determines which pair / group is the best. The pair / group in question is given additional instructions on how to deliver the presentation the week after.

# LESSON 3

#### Introduction (5 – 10 mins)

The teacher asks the students if they remember the most important topics from the previous two weeks and reminds them that their colleagues have prepared a









presentation for them. He/she instructs them to actively listen and jot down any potential question they might have.

#### Pair / group presentation (20 – 25 mins)

The best pair / group present their work to the rest of the class. They use the quiz at the end of a presentation as a fun way to check if their colleagues have been paying attention.

#### Conclusion (10 mins)

The teacher asks several students from the rest of the class to read their questions for the group. He/she also asks them to comment on the presentation and the quiz, thanks the best pair /group and reminds everyone of the most important topics they have learned in the previous three weeks.

# Tips for the facilitator

The students should have prior knowledge of building a quality presentation, designing their own master slide theme and linking appropriate slides for the quiz portion of the presentation.

See Annex for further details.

#### Debriefing

The teacher can check how much the students remember about the topic by creating a questionnaire based on the presentation they watched. The activity can be planned for the week after the presentation, but it is completely optional.

#### Follow-up/Inspiration for the future

The students can use the knowledge acquired from the previous three lessons to create a poster or an infographic for their Art class.

# **References/Further reading**

https://www.un.org/sustainabledevelopment/infrastructure-industrialization/

https://unstats.un.org/sdgs/report/2019/goal-09/

https://sdgs.un.org/goals/goal9

https://en.unesco.org/sites/default/files/resources-sdg9.pdf

#### Annex

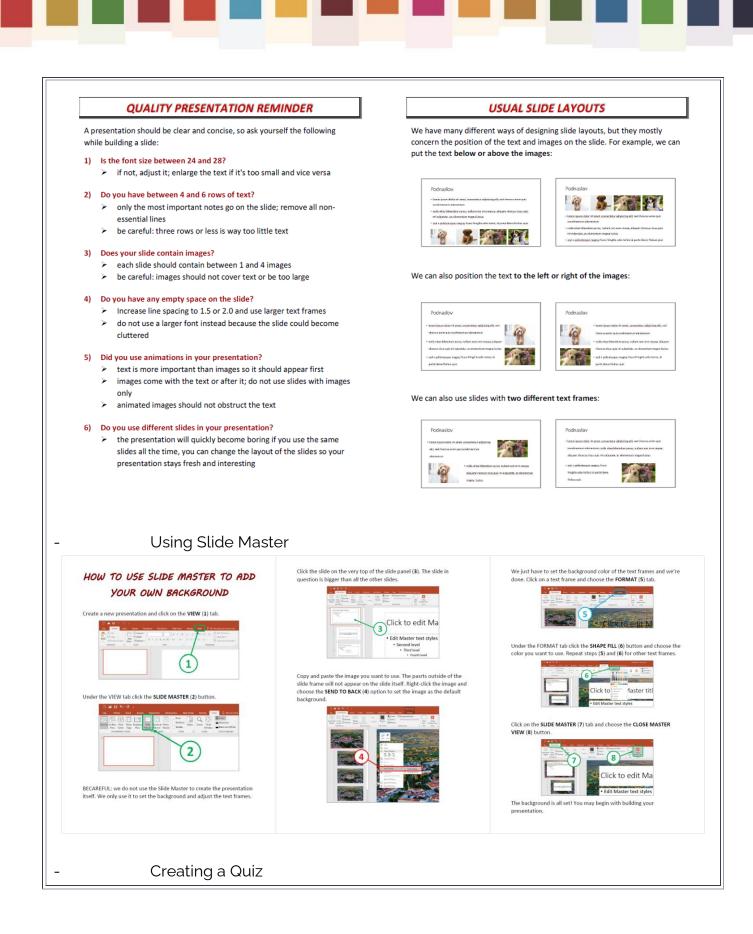
Additional documents included with the lesson plan:

Quality Presentation Reminder







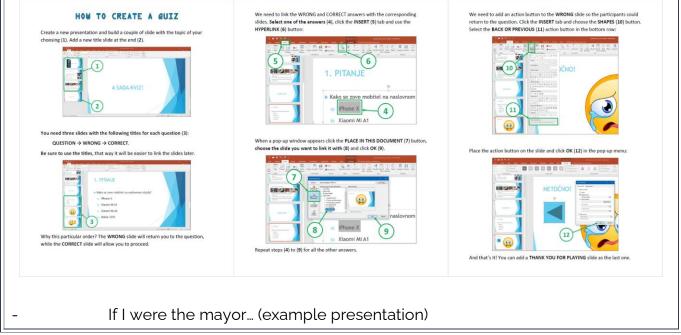




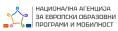


















#### Location of Karlovac

ALC: NO

 Karlovac is located in contral Cloatia between the Cloatian lowlands, Cloatian highlands, Pokuge and Kordun
 It is trained by four rivers - Kuga, Korana, Dobra and Mieżnica
 It is only 50 kilometres away from Slovenia and from

Bosinia and Histogovina and as such has an important traffic and economic significance



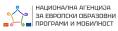












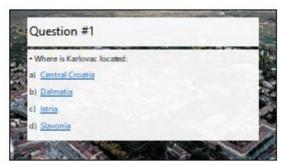




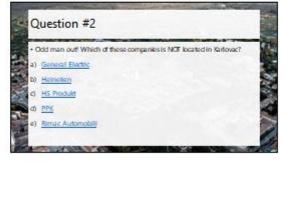




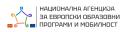
















100	Question #3	
	What did Albert Gajiak invent?	1
	a) <u>solar panels</u>	-
	b) MAKERbuino gaming console	1
1	c) a new type of engine	1
- March	d) <u>NASA Mars rover</u>	

