



Second educational event for high school students

Overview		
Date	24.03.2021	
Venue	ZOOM platform	
Aim of the event	Introduction of the educational materials related to circular economy and sustainable development through presentation, videos and quiz in order to bring closer the opportunities, challenges and solutions of the bioeconomy to the high school students.	

Short resume

The Strumica region is part of the BE-Rural project funded by the "Horizon 2020" program of the European Union. The project aims to bring the concept of bioeconomy closer to the stakeholders in the region, to map the opportunities and potentials of the region, as well as to develop roadmaps and strategies for bioeconomy development.

To continue the educational events planned for the Strumica region for pupils and students in elementary and secondary education, the second educational event was held for students from the high vocational school "Dimitar Vlahov" – municipality of Strumica on 24.03.2021 starting at 8 am via ZOOM platform. The educational event was attended by 16 participants, including students, a class teacher, as well as representatives of SDEWES-Skopje. The format of the educational event was hybrid, a combination of online and onsite and tackled the Role of Bioeconomy: Opportunities, Challenges and Solutions.

The initial part of the educational event was about the concept and ideas of BE-Rural which were explained in order to introduce the students with the goals of the project. The focus of the presentation was the synergies of various aspects of bioeconomy. The students were introduced to concepts such as biomass, bioeconomy, etc. The linkages of bioeconomy, climate change and ecologic limits were also highlighted. Sustainability is closely related to bioeconomy, so the concept of sustainable resource utilization was elaborated in detail through the sustainability diagram. It was of great benefit to emphasize the importance of sustainable development goals by highlighting the most important ones for the bioeconomy and their role in the accomplishing the bioeconomy concept. Bioeconomy in a rural ambient was shown with a video that in an interesting way summarize the main aspects of the lesson and will help the students to remember the key points. The following part of the presentation was more focused on bioeconomy resources, i.e. different types and how they can be utilized. The Strumica region is dominated by the agricultural and forestry sector, so examples of small pelleting and mobile wood chips technologies and bio-based products from such waste were presented. Some examples of bio-products such as healthy drink from coniferous trees, eco hair brush from wild boar hair and wood, mycelium and agricultural residues pots and biofuel were interesting for the students. At the end of the class, students actively participated in several guiz guestions.

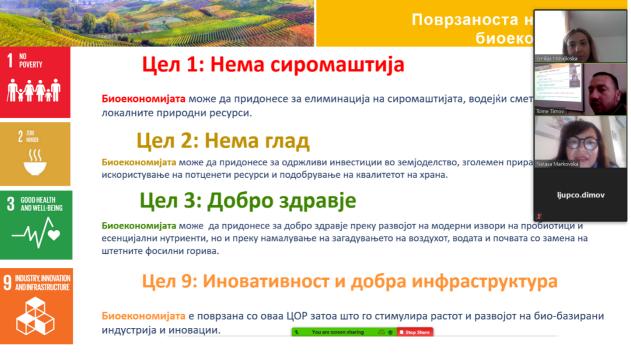
Having in mind the current situation with the pandemic and the limits for physical presence, this educational event was organized virtually and onsite. The feedback from the students and teachers is more than satisfactory with an eagerness for these events to continue in the future.

Partici				
No	Name	Surname	Organization	Stakeholder category
1	Natasha	Markovska	SDEWES-Skopje	member
2	Emilija	Mihajloska	SDEWES-Skopje	member
3	Ljupcho	Dimov	SDEWES-Skopje	member
4	Tome	Timov	High school – municipality of Strumica	professor
5	Tankica	Goneva	High school – municipality of Strumica	student
6	Denis	ldrizov	High school – municipality of Strumica	student
7	Maks	Mitevski	High school – municipality of Strumica	student
8	Marija	Petrova	High school – municipality of Strumica	student
9	Aleksandar	Ivanov	High school – municipality of Strumica	student
10	Ljubomir	Alacki	High school – municipality of Strumica	student
11	Katerina	Vasileva	High school – municipality of Strumica	student
12	Viktorija	Gorgieva	High school – municipality of Strumica	student
13	Vilice	Januseva	High school – municipality of Strumica	student
14	Nevenka	Kovacheva	High school – municipality of Strumica	student



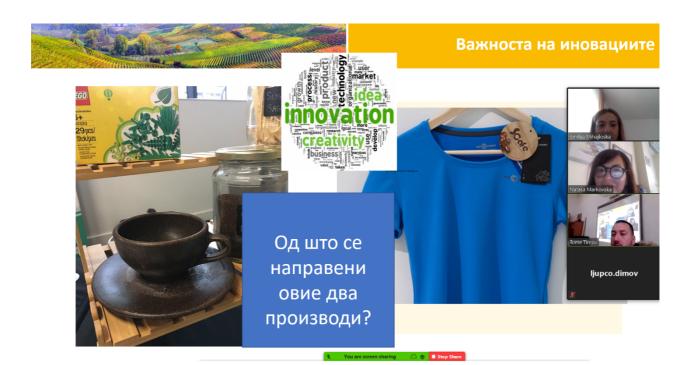
Agenda		
08:00 – 08:05	 Welcome and introduction Technical setup and explanation of the technical tools Consent forms Feedback form 	
08:05 – 08:45	 Presentation on the topic: Opportunities, challenges and solutions of bioeconomy Focus on bioeconomy, biodiversity, sustainability, ecological limits, sustainable development goals, technological solutions for the agricultural and forestry sector, bio-based products Quiz Video 	
08:45 - 08:50	Discussion and conclusions	

Photographs





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Квиз за отпад

Колкави количества отпад од храна се проценети годишно на глобално ниво? (ФАО, 2011)

- а. 1,3 милијарди тони (една третина од произведената храна)
- б. 2 милијарди тони (половина од произведената храна)
- в. 2,6 милијарди тони (две третини од произведената храна)







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