

Circular Innovation and Resilient City Labs in the Adrion Region

WORK PACKAGE T3

DELIVERABLE T3.2.1

CIRCLab Camp Report

PP9 Environmental Protection and Energy Efficiency Fund of Republika Srpska

PP19 City of Laktaši

November 2022 – Final version

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Introduction

The CIRCLab Camp is an event. It can be a stand-alone event or be part of wider initiative related to the same matter (e.g. the European week for waste reduction, Ecomondo fair, the Labelab event). The CIRCLab Camp must take place in an innovative format, mixing training and key-note speeches with collaborative exchange, and designed to ensure its full effectiveness. Its characteristics (animation, key-speakers, presence of facilitators and experts) have to be guaranteed in all the regional editions.

Each urban area hosting a pilot will realize the CIRCLab camp so as to ease knowledge on the results and further promote the urban labs and the circular approach to waste management. CIRCLab camps will take place in all the 8 countries of the CIRCLE project: i.e. Italy (linked to ECOMONDO, with a transnational target), Slovenia, Serbia, Greece, Croatia, Bosnia Herzegovina, Montenegro, Albania. The aim is to ease knowledge on the results and further promote the urban labs and the circular approach to waste management.

The CIRCLab camps will further facilitate the stakeholders' engagement through training/animation activities; they will raise awareness on the circular world within local communities and will be the preliminary step to the CIRCLab network establishment.

The focal idea of the CIRCLab Camp is to tell and explain how CIRCLabs were created and to encourage other local or regional authorities and institutions to set up their own CIRCLab and then create a wide network.

CIRCLab camps will provide a strong support in spreading the experience and create a durable and sustainable network which can effectively operate behind the project timeframe and apply to other funding programmes. The output is directly applicable and replicable by other institutions outside of the current partnership. The network will be open to other cities in the regions and countries who want to promote circular economy applications inside their cities.

Preparation of CIRCLab Camp in Bosnia and Herzegovina

During the preparation of the CIRCLab camp in Bosnia and Herzegovina, the instructions contained in the document Transnational CIRCLab camp design (Del. T3.2.1.) have been followed. PP9 and PP10 also analyzed reports of previous CIRCLab camps organized by other partners in order to prepare and develop Agenda, obtain insights and draw recommendations for preparation of CIRCLab camp in Bosnia and Herzegovina.

The selection of appropriate location was conducted in collaboration with Faculty of Natural Sciences that offered their spacious Amphitheatre for conference location.

Communication

The organization of the CIRCLab Camp was communicated through mailing address and phone calls:

- Sending an email to the addresses of Circlab stakeholders and other regional stakeholders
- Inviting stakeholders by phone

CIRCLab objectives

The objective of the camp was to spread and share CIRCLab model established and promote CIRCLE project to local and regional stakeholders, as well as to present research results by young researchers in the field of waste management.

Camp Agenda

The Camp consisted of two days event. The first day was dedicated to the conference and the second day was dedicated to the study visit to the site of local company involved in organic waste management. The Camp program was as follows:

27.10.2022. Konferencija “Valorizacija sekundarnih organskih i neorganskih sirovina kao put do cirkularne ekonomije” Conference

Dnevni red	
13:00 – 13:15	Uvodni govori: Pozdravna riječ PMF <ul style="list-style-type: none">- Prof. dr Suzana Gotovac Atlagić, nastavnik Studijskog programa hemija PMF i članica Upravnog odbora Instituta za zaštitu i ekologiju Republike Srpske Pozdravna riječ CIRCLE Projektnog menadžera Grada Laktaši <ul style="list-style-type: none">- Goran Vujaković, dipl.oec. Šef Odsjeka za Lokalni Razvoj Pozdravna riječ CIRCLE Projektnog menadžera Fonda za zaštitu životne sredine i energetske efikasnost Republike Srpske <ul style="list-style-type: none">- mr Zoran Lukač, Šef sektora za zaštitu životne sredine, energetske efikasnost i obnovljive izvore energije
13:15 – 13:35	Pojam cirkularne ekonomije <ul style="list-style-type: none">- Branko Zlokapa dr.oec., LIR Evolucija
13:35 – 13:55	Projekat CIRCLE i Pilot akcija projekta CIRCLE <ul style="list-style-type: none">- Medina Garić, MSc, LIR Evolucija
13:55 – 14:15	Reciklaža E-otpada do nanosirovina upotrebom ekološki prihvatljivih ekstraktanata <ul style="list-style-type: none">- Željko Todorović, dipl.hem., Institut za zaštitu i ekologiju Republike Srpske
14:15 – 14:35	Regeneracija vune lošeg kvaliteta za proizvodnju keratinskih nanovlakana, <ul style="list-style-type: none">- Prof. dr Suzana Gotovac Atlagić, Prirodno-matematički fakultet Univerziteta u Banjoj Luci
14:35 – 14:55	Organski otpad, primjeri najbolje prakse u Japanu, <ul style="list-style-type: none">- MA Dragana Stević, dipl.ing.hem.tehn., Studijski program hemija, PMF
14:55 – 15:10	Diskusija i pitanja <ul style="list-style-type: none">- Učesnici Konferencije
15:10	Zakuska
17.00 – 19.00	CIRCLab sastanak

CIRCLE - CIRCLab CAMP Studijska posjeta

28.10.2022. CIRCLab CAMP Studijska posjeta- Study Visit

Dnevni red

Vrijeme	
8:00	Okupljanje učesnika i polazak - Parking PMF-a
9:00 – 10:45	Studijska posjeta TROPIC ribarstvo Ribnik
11:00 – 12:00	Posjeta srednjoj školi Lazar Đukić u Ribniku, prezentacija projekta učenicima, uz prisustvo predstavnika lokalne administracije
13:00 – 14:00	Posjeta Distributivnom centru „Tropik ribarstva“ u Klačniku, posmatranje dobre prakse u odlaganju organskog otpada i radu biološkog prečišćavača vode
14:30	Povratak u Banja Luku, Ručak

Implementation of the CIRCLab camp

The CIRCLE project partners, the City of Laktaši and the Environmental Protection and Energy Efficiency Fund of Republika Srpska, organized the CIRCLab camp in Bosnia and Herzegovina, which included a conference and a study visit. The Conference location was the Amphitheatre of the Faculty of Natural Sciences at the University of Banja Luka.

Project partners, in collaboration with the Faculty of Natural Sciences of University of Banjaluka, organized on 27th October, the Conference entitled "Valorization of secondary organic and inorganic raw materials as a path to a circular economy". At the conference were presented activities and results of the CIRCLE project, the concept of circular economy, research results of young researchers on the topic of e-waste recycling and potentials of using wool as a raw material, as well as the best practices in organic waste management. Conference participants had the opportunity to share their knowledge and experiences. CIRCLE partners, Energodata from Croatia and Futura from Serbia attended the CIRCLab camp. During the conference, the following presentations were delivered: 1) Importance and the concept of circular economy, 2) Project CIRCLE and pilot activity implemented in Laktaši, 3) From recycling of e-waste to nano raw materials by using eco acceptable technologies, 4) Recovery of poor quality wool for production of keratine nanofibers, 5) Organic waste- the best practices.

As a part of the CIRCLab camp, a study visit was organized to the fishpond of the company Tropik in Ribnik as an example of good practice, where the participants gained knowledge on the process of breeding trout. In Ribnik, the participants also visited local high school, where the CIRCLE project

was presented to the pupils. Furthermore, the participants also visited the Tropik factory in Klačnik, where they learned about modern fish processing and packaging technologies. All processes in the factory are carried out with the application of IFS and HACCP food safety standards, and all products are subject to constant analyzes and measurements by competent institutions.

During the CIRCLab camp, participants gained new knowledge and experiences on waste management, importance and possibilities of applying the principles and innovative models of the circular economy. The participants of the CIRCLab camp were students, teaching and research staff, NGOs and the CIRCLE project partners. In total, 34 participants attended the CIRCLab camp, out of which 12 participants completed the satisfaction questionnaire with the following average results:

Mark from 1 (weak) to 5 (excellent)

Event duration:	4
Location and organization	4.66
Lecturers elaboration clarity	4.5
Quality of content	4.75
Relevance for work	4.16
Overall event	4.5

<https://grad-laktasi.com/cir/realizovan-circlab-kamp-u-okviru-projekta-circle/>

Annex -photos from the Conference and Study visit







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