

TAKING
COOPERATION
FORWARD

 The Regions and Cities Fostering the Circular Transition/ 4th of October 2020

Pilot project - Bioeconomy in Varaždin, Croatia

 CE1515/ CITYCIRCLE / DAN / Nikolina Žigmund /



PILOT: „BIOECONOMY IN VARAŽDIN”

- The pilot project will represent a valuable blueprint for policymakers to stimulate the progression from a linear towards CE.





PILOT: BIOECONOMY IN VARAŽDIN

MILESTONES:

- ✓ Pilot project concept confirmed
- ✓ Procurement and strategic placement of waste bins - completed
- ✓ Successful separation of waste - ongoing
- ⚙️ Production of high quality digestate
- ⚙️ Utilization of the digestate on the 5 years old hazelnut farm
- ⚙️ Successful harvest of hazelnuts





LESSONS LEARN VIA PILOT:

- Good collaboration and communication between partners and associates is key to pilot implementation.
- Choosing good experts is the key to successful implementation.
- No readiness from all users to participate in the project, ie. some of them will even refuse to participate.
- HOW WE ARE DOING THIS?





THE MAIN PILOT STAKEHOLDERS:

1. *Gradska tržnica Ltd.* - Open city market company





THE MAIN PILOT STAKEHOLDERS:

2. Čistoća Ltd. - Waste management company



Varaždin
Čistoća d.o.o.





THE MAIN PILOT STAKEHOLDERS:

3. *Family farm Vrček* - biogas plant





THE MAIN PILOT STAKEHOLDERS:

- 4. *Development Agency North - DAN Ltd.*
- 5. *City Municipality of Varaždin*
- 6. *Croteh Ltd.*
- 7. Partners from scientific community



croteh


VARAZDIN



PROGRESS BY THE PILOT ACTIVITIES:

1. PROJECT MANAGEMENT

1.1. MEETINGS

- ✓ Several meetings where held with relevant stakeholders



1.2. PUBLIC PROCUREMENT

- ✓ 83 bins were procured



LESSONS LEARNED BY THE PILOT ACTIVITIES:

2. PROJECT IMPLEMENTATION

2.1. DETERMINATION OF QUANTITY AND COMPOSITION OF CITY MARKET WASTE

✓ Established monitoring system after the using sorting bins

Good coordination and constant communication between: Dan, Gradska tržnica, Čistoća and Croteh Ltd.

2.2. STRATEGICAL PLACEMENT OF WASTE BINS

✓ Need to boost willingness of city 83 City market tenants to participate



LESSONS LEARNED BY THE PILOT ACTIVITIES:

2.3. SEPARATION, COLLECTION AND TREATMENT OF WASTE

Čistoća Ltd. will transport the collected biodegradable waste for treatment in the biogas plant *OPG (Family farm) Vrček*. The produced digestate will then be transported to the hazelnut farm.

Good communications and cooperation are the key: tenants, public society, *Gradska tržnica Ltd.*, *Čistoća Ltd.*, *OPG Vrček*.

2.4. SOIL AND DIGESTATE SAMPLING AND ANALYSIS AND APPLICATION OF DIGESTATE ON FARMLAND

Sampling of soil from hazelnut farm and digestate from the biogas plant and their analysis are taken.

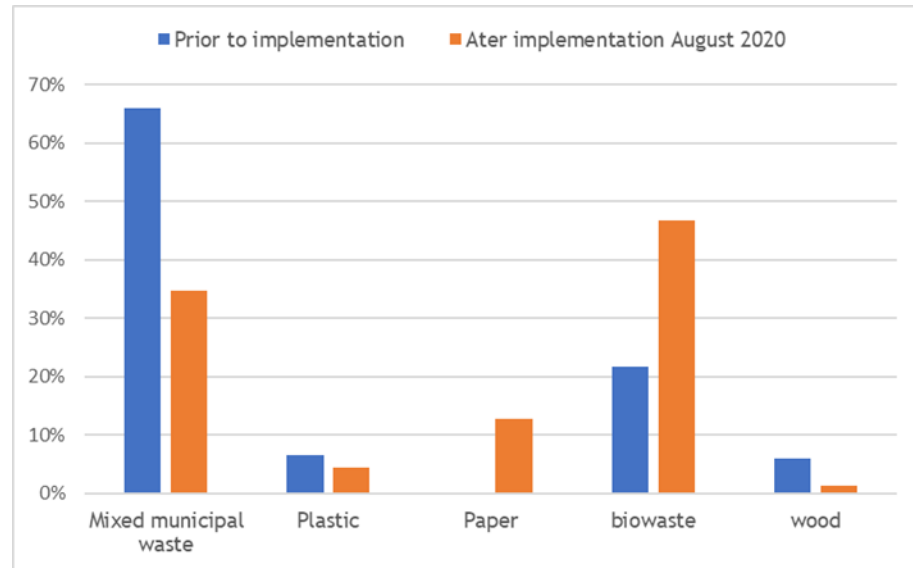
Good cooperation with Croatian Agency for Agriculture and Food and Ministry of Agriculture -Administrative for Professional Support to the Development of Agriculture and Fisheries;



PROGRESS : PARTIAL RESULTS

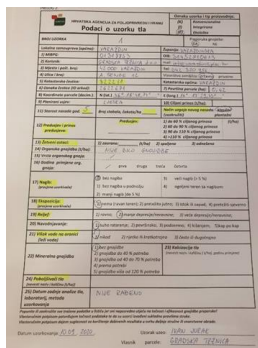
ACTIVITY 2.3.

	Prior to implementation	Ater implementation August 2020
Mixed municipal waste	65,94%	34,7%
Plastic	6,50%	4,4%
Paper	0	12,7%
Biowaste	21,67%	46,8%
Wood	5,89%	1,4%



ACTIVITY 2.4.

✓ Soil analysis in progress



LESSONS LEARNED BY THE PILOT ACTIVITIES:

3. PROJECT COMMUNICATION

3.1. DESIGN OF PROMOTIONAL MATERIALS AND EDUCATION

- ✓ Promotional notice for 83 beneficiaries (small shops within open local market) were prepared and distributed
- ✓ Labels with logos for sorting bins were created and printed
- ✓ Media press release was organized while delivering bins



✔ Educational materials on proper waste sorting



THANK YOU FOR YOUR ATTENTION



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CITYCIRCLE



www.interreg-central.eu/Content.Node/CITYCIRCLE.html



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