

# OUTPUT FACT SHEET

## Pilot actions (including investment, if applicable)

Version 2

Project index number and acronym	CE1125 - CIRCE2020
Lead partner	ARPA VENETO - Agenzia Regionale per la Prevenzione e Protezione Ambientale del Veneto
Output number and title	Output O.T3.1 - Pilot actions to test the business model and quality standards verifications
Investment number and title (if applicable)	Not applicable
Responsible partner (PP name and number)	2 - ETRA spa
Project website	<a href="https://www.interreg-central.eu/Content.Node/CIRCE2020.html">https://www.interreg-central.eu/Content.Node/CIRCE2020.html</a>
Delivery date	12.2019

### Summary description of the pilot action (including investment, if applicable) explaining its experimental nature and demonstration character

(Max. 3.000 characters)

ETRA signed a confidentiality agreement (6 months duration) with the sector agency PVC FORUM in order to test as pilot action the selection of PVC waste deriving from different flows brought to its selection plants:

- Bulky waste
- Hard plastic waste
- Industrial, C&D waste

The activity involves different actors:

- Manager of the Intermunicipal Centre for Temporary Storage & Recycling Centres - ETRA > Collection and pre-selection of different waste flows
- Manager of waste selection facility - ETRA > Mechanical and manual sorting of the PVC waste, press and storage of bales
- Owner of waste treatment plant > Production of secondary raw material from the selected PVC waste
- PVC businesses agency > Matchmaking donor/recipient, trainings for facilities operators

**NUTS region(s) concerned by the pilot action (relevant NUTS level)**

(Max. 500 characters)

Country (NUTS 0) : IT

Region (NUTS 2) : ITH3, Veneto

Sub-region (NUTS 3) : ITH36, Padova

### Investment costs (EUR), if applicable

Not applicable

### Expected impact and benefits of the pilot action for the concerned territory and target groups and leverage of additional funds (if applicable)

(Max. 2.000 characters)

Expected results (qualitative and quantitative)

- Reduction of disposal in landfill / incineration of PVC waste
- Increase of material recovery of plastics
- Improvement of the secondary plastic waste (EWC 191204) management
- Positive environmental impacts from the recycling activity
- Additional service provided to users (both citizens and companies)

### Sustainability of the pilot action results and transferability to other territories and stakeholders.

(Max. 2.000 characters)

During the test phase of six months key parameters are monthly collected to check the sustainability of the project. In particular, economic and environmental indicators will be used to the final assessment, comparing the new scenario with the baseline (PVC to disposal). Operative costs, resources and energy consumption are registered along the recycling chain: collection, selection, transportation, granulation. The sustainability will be reached with a positive balance in terms of management economic costs and carbon footprint (reduction of CO2 eq emissions). A previous experience exists in a nearby area, but the replicability is strongly affected by logistic factors (proximity of final recycler, additional operation within the existing waste management system of the selection company). All the stakeholders of the PVC supply chain are interested in the validation and extension of the pilot action and potentially all the territories can be involved, even if the interest is strictly linked to logistic conditions discussed so far.

### Lessons learned and added value of transnational cooperation of the pilot action implementation (including investment, if applicable)

(Max. 1000 characters)

The quantity collected in three months from a unique waste flow (bulky waste) is promising. The action represents an important change-of-mind because the PVC waste was not recovered before, while now it could be potentially valorised with minimal modification of the existing structure. The implementation of the recycling system could solve a challenge in waste management because PVC was actually discarded and burns into incinerators, with all the correlated relevant problems. Find out a proficient destiny represents an important step further. PVC is a transnational challenge: also in Poland the recycling of these plastic scraps has been addressed.

**Contribution to/ compliance with:**

- relevant regulatory requirements
- sustainable development - environmental effects. In case of risk of negative effects, mitigation measures introduced
- horizontal principles such as equal opportunities and non-discrimination

(Max. 2.000 characters)

The pilot action increases the completeness of the public waste management service, improving the rate of separate collection. Plastics and related waste are a mainstream topics of discussion in the public agenda due to their dramatic ubiquity and managerial challenges. Grounding literature parameters support the positive environmental performance of the new scenario, with a relevant decreasing in carbon dioxide equivalent emissions along the supply-chain. The additional emissions related to the operations of selection, transportation and recycling are largely counterbalanced by the missing emissions from the incineration stuck and for the production of virgin material. Those estimation should be validated by primary data, at the end of the monitoring phase.

**References to relevant deliverables (e.g. pilot action report, studies), investment factsheet and web-links**

**If applicable, additional documentation, pictures or images to be provided as annex**

(Max. 1.000 characters)

Deliverable D.T3.2.1 - Closing the loop & activation of secondary raw material markets in the pilot areas  
Deliverable D.T3.2.2 - Pilot actions infographics (one per each waste/flow)  
Deliverable D.T3.2.3 - Report on implementation of the pilot actions  
Deliverable D.T3.2.4 - Checkup service for verification of quality standards of by-products  
Deliverable D.T3.2.5 - Performance Monitoring of pilot actions environmental & economic impact

Factsheet in wikiweb: <https://www.circe2020-wiki.eu/pvc-selection-from-plastic-waste>

News about pilot action: <http://www.pvcforum.it/pvc-hub/news/circe2020-project/>