

# TEMPLATE

## Output factsheet: Tools

Version 1

<b>Project index number and acronym</b>	CE1125 - CIRCE2020
<b>Lead partner</b>	ARPA VENETO - Agenzia Regionale per la Prevenzione e Protezione Ambientale del Veneto
<b>Output number and title</b>	Output O.T2.3 - LCA & LCC tools to estimate industrial ecology benefits & economic-convenience of new inds-symbiosis
<b>Responsible partner (PP name and number)</b>	2 - ETRA spa
<b>Project website</b>	<a href="https://www.interreg-central.eu/Content.Node/CIRCE2020.html">https://www.interreg-central.eu/Content.Node/CIRCE2020.html</a>
<b>Delivery date</b>	03.2019

### Summary description of the key features of the tool (developed and/or implemented)

(Max. 2.000 characters)

Tutorial elaborated by ETRA to initiates practitioners (waste utility companies & industrial ecology experts) to perform LCA according to the CIRCE2020 approach. It is one of the LCA tools, linked to baselines sets by PEF (Product Environmental Footprint) requirements set by EC in 2015. The principal aim is to validate potential environmental impact of identified remanufacturing solutions with a scientifically-sound methodology.

It contains basics of LCA-PEF technical methodology, reference to standards and supporting documents elaborated within the project partnership. In short, the first part serves as introduction to the concept behind the approach. Then, the tutorial gets voice to project partners that focus the discussion on relevant hints and outcomes emerged from the application of the tool at local scale. The tutorial aims to catch the attention of the external practitioner.

### NUTS region(s) where the tool has been developed and/or implemented (relevant NUTS level)

*Country (NUTS 0) : IT and AT*

*Region (NUTS 2) : ITH3, Veneto and AT33, Tiroi*

*Sub-region (NUTS 3) : ITH36, Padova and AT335, Tiroler Unterland*

### Expected impact and benefits of the tool for the concerned territories and target groups

(Max. 1.000 characters)

The tutorial aims to represent a user-friendly icebreaker to discover approach and materials available within the Circe2020 project. It contains some hints from the direct partners' experiences of implementation, gaining in reliability. The methodology behind the LCA studies has been developed in strict collaboration with the LCC guidelines and validated by partnership. Similarly also the tutorial encountered the satisfaction of partners after an effort to homogenize video format and contents with the partner in charge for LCC. This approach results in Decision Support Systems with an European validity and applicability, enabling the assessment of the environmental sustainability of the circular solution.

### Sustainability of the tool and its transferability to other territories and stakeholders

(Max. 1.000 characters)

D2.2.4 tutorial is developed for future application of the LCA and for replication purposes to initiate practitioners (waste utility & industrial ecology experts) to perform environmental assessment moving from single production unit to multi-production units applied to territorial-based according to the CIRCE2020 approach. To be used in WPT4 as part of replication strategy for new CE multi-utilities.

### Lessons learned from the development/implementation process of the tool and added value of transnational cooperation

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The direct involvement of the partnership provides reliability to the tool because of the relevant outcomes shared; thus a basis for further improvement is created. Considering the availability of the supporting documents (guidelines, training, bibliography) a short video represents a good choice to catch attention of new stakeholders, presenting the available materials. An excellent collaboration among partners has allowed to exploit periodic Steering Committee to collect materials and contributions (interviews) for the tutorial elaboration. The second part of the video aims to highlight different difficulties and results experienced by partners during LCA implementation.

### References to relevant deliverables and web-links If applicable, pictures or images to be provided as annex

(Max. 1.000 characters)

**Deliverable D.T2.2.1** Guidelines for adaptation of LCA methodology to estimate ecological impact (based on D.T2.2.5)

**Deliverable D.T2.2.2** LCA team & transnational training for the application of LCA methodology

**Deliverable D.T2.2.3** Report of PEF-compliance environmental scenarios by using LCA tools

**Deliverable D.T2.2.5** Conceptualization of PEF requirements as preliminary part of the guidelines

<https://www.circe2020-wiki.eu/>

<https://www.interreg-central.eu/Content.Node/CIRCE2020.html>