COORDINATOR IPC

HORIZON-CL6-2021-CIRCBIO-01 - GA NUMBER : 101059923

WP7 update - September 2025

Circular economy – Economic, social and environmental impact assessment

📦 Deliverables

- D7.1 – Definition of goal & scope, assessment methodology ✅
- D7.2 – LCA, LCCA and SLCA screening studies, data gaps ✅
- D7.3 – Set of circularity indicators as proxy for environmental impact for RPP 🛠️ 📅 due Q3 2025
- D7.4 – Full circularity, economic and social assessment of all business cases 🛠️ 📅 due Q1 2026

🎯 Objectives

- Carry out for each business case a two-step (screening then full assessment) environmental, social and economic impact assessment
- Enable a simple circularity assessment of reusable packaging
- Support environment, social and economic performance improvements in other WPs

🛠️ Key Activities

- Methodology and scope definition for all studies
- Data collection within the project and in databases/litterature
- Impact assessment and interpretation
- Circularity tool development

Funded by the European Union

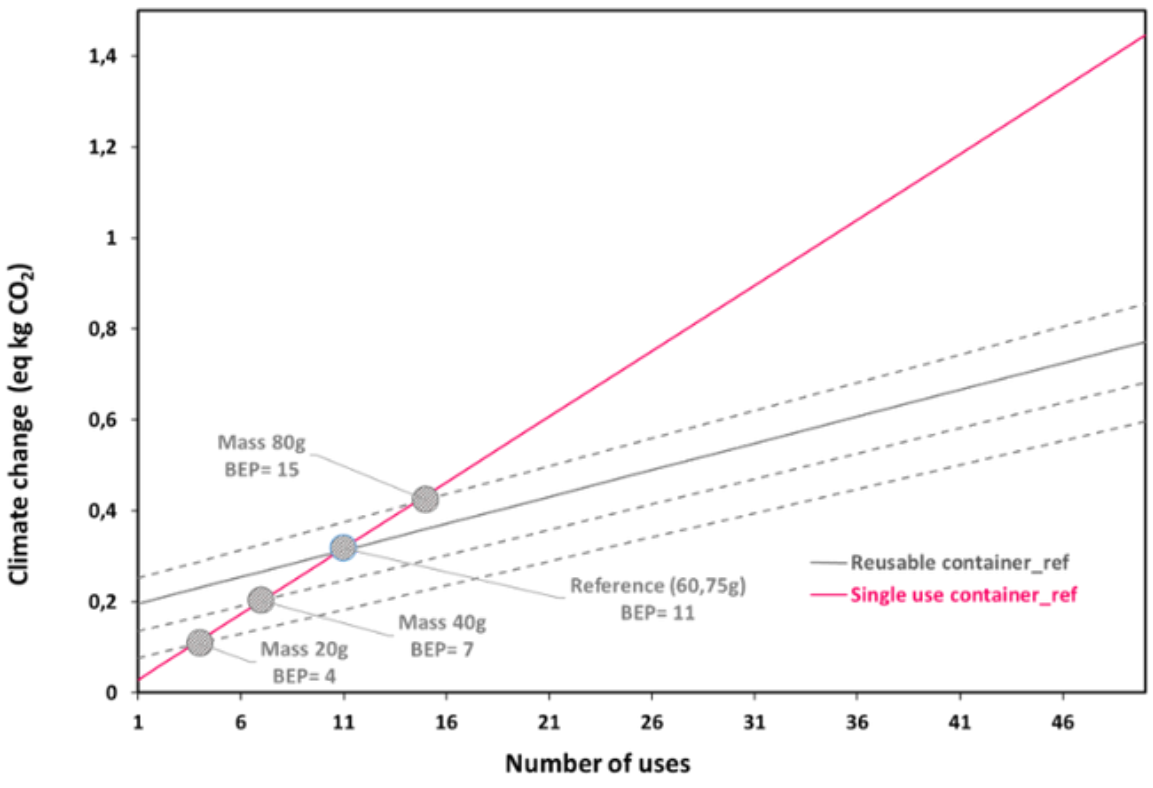
This project has been funded with support from the European Commission.
This document reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

? Key Research Questions

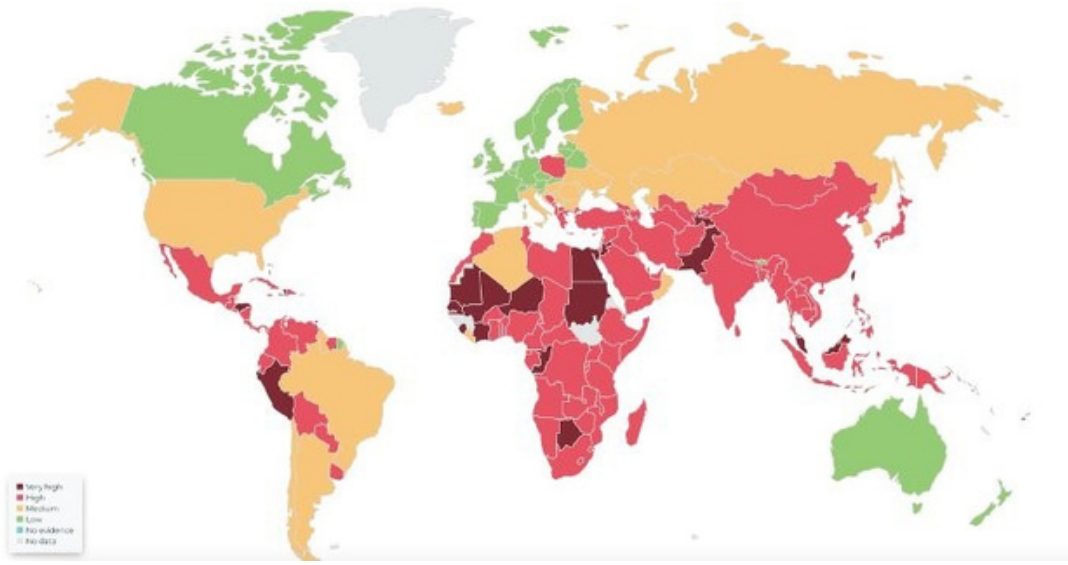
- Is it possible to provide a robust insight into potential impact of a developed reusable packaging without primary data?
- How do we find trade-offs between environmental and economic results if they don't give the same conclusions?
- How can a simple sustainability and circularity analysis can be provided to assess the benefits of switching to a reusable system?

Intermediary results

- Screening results: Break-even point (number of reuses necessary to be better than single-use) on climate change, water-use and cost for all business cases. Enabled to identify the most influencing parameters and hypotheses to refine.



- SLCA methodology development



Scale level	Impact Indicator Assessment Criteria
+2	A, B, C, D, & E achieved
+1	A, B, C, & D achieved
0	A, B, & C achieved
-1	A & B achieved
-2	None achieved

- Development of circularity indicator structure based on ISO59004 definition of Circular Economy

Impact & Outcomes

- Methodological improvement in LCA/LCCA/SLCA and modelling reuse
- Decision-support on the durability of a change towards a reusable packaging system
- Publication of 4 papers expected

FOLLOW OUR PROGRESS

www.buddie-pack.com

CONTACTS

IPC - *The Industrial Technical Centre for Plastics and Composites*
Florence Isnard
Project coordinator
florence.isnard@ct-ipc.com /
+33 (0)4 26 61 90 87
2 rue Pierre-et-Marie-Curie
01100 Bellignat – France
www.ct-ipc.com

ACTIA - *The French Network for Food Technology Institutes*
Gemma Cornuau
Dissemination leader
g.cornuau@actia-asso.eu
+33 (0)6 18 69 52 13
149 rue de Bercy - 75012 Paris - France
www.actia-asso.eu

PARTNERS

COORDINATOR

IPC (FRANCE)

PARTNERS

1. FRANCE (ACTIA (CTCPA, LNE), ETERNITY SYSTEMS, IPC, KNAUF INDUSTRIES, UZAJE)
2. GERMANY (PLASMION, VYTAL GLOBAL)
3. IRELAND (DAWN GROUP, TECHNOLOGICAL UNIV. OF THE SHANNON)
4. NETHERLANDS (SEARIOUS BUSINESS)
5. SPAIN (AIMPLAS - TECH. INST. OF PLASTICS, AUZO LAGUN S. COOP, ASEVI, CHRISTEYNS ESPANA, SMURFIT KAPPA PLASTICOS VICENTE)
6. UNITED KINGDOM (ECHO BRAND DESIGN, UNIV. OF SHEFFIELD)