

LIFE-CYCLE 2.0 – Local Urban Circular Economy Ecosystems for Bio-Waste Management

Objective: Scale and validate an integrated circular economy ecosystem that converts urban bio-waste (mainly coffee residues and agri-food by-products) into high-value materials — cosmetics, bioplastics, and biofuels — through collaboration among a university (NTUA), a green tech SME (COFFEECO), and a pilot city (Chalandri).

Partner Roles and Responsibilities

NTUA – Technology Development & Validation

Lead Work Packages: WP1 – Process Optimization & LCA, WP2 – Scale-up & Quality Validation.
Deliverables: Technical validation report, LCA and carbon footprint assessment, Technology optimization guidelines.

COFFEECO – Industrialization & Business Exploitation

Lead Work Packages: WP3 – Pilot Production & Product Demonstration, WP4 – Market Strategy & Scale-Up Plan.

Deliverables: Pilot production demonstrator, Market analysis & business model canvas, Investment & replication toolkit.

Municipality of Chalandri – Pilot Implementation & Community Engagement

Lead Work Packages: WP5 – Urban Integration & Public Engagement, WP6 – Policy Integration & Replication.

Deliverables: Operational municipal circular economy model, Communication and awareness materials, Policy integration report.

Indicative Budget Split

Partner	Role	% of Total Budget	Indicative Amount (€ 1 M total)
COFFEECO	Lead / Industrialization	45%	450,000
NTUA	R&D / Validation	35%	350,000
Municipality of Chalandri	Pilot & Engagement	20%	200,000

Next Steps

1. Confirm call deadline and template (EIC Pre-Accelerator 2025).
2. Assign writing teams:
 - NTUA: Technical innovation & methodology sections (Excellence, WP1-2).
 - COFFEECO: Business, impact & exploitation (Impact, WP3-4).
 - Chalandri: Implementation & communication (Implementation, WP5-6).
3. Draft joint 10-page pre-proposal summary for feedback by EIC Hub.
4. Finalize consortium agreement and budget.
5. Submit through the Funding & Tenders portal.