

Partner Profile: UNESCO Chair in Life Cycle and Climate Change (ESCI-UPF)

Advanced expertise in life cycle-based approaches to support evidence-based sustainability transitions.

Pre-award Officer: Astrid Mirabito

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Target Clusters: Aligning with Horizon Europe Clusters 1, 2, 4, 5, and 6.

Two Decades of Proven Excellence

28



European Projects



3 as coordinator, 3 as subcontracted partner, and 22 as consortium partner.

170+



Peer-Reviewed Publications



High-impact scientific output, with nearly all publications featured in Q1 journals.



2002

Established as the Environmental Management Research Group (GiGa).



2010

Officially recognized as a UNESCO Chair.



Today

A leading research and knowledge-transfer unit specializing in sustainability transitions.



Combining scientific excellence with applied, practical impact for industry and public authorities

Core Expertise: The Life Cycle Thinking Flywheel



Multi-Sectoral Application

Applying integrated environmental and economic methodologies across diverse value chains:

**Food & Agriculture
& Packaging**
Sustainable food systems.



**Materials, nanomaterials
& chemicals**
Biomaterials & Circular Economy.



Manufacturing
Textiles, plastics, building
materials & systems...



Infrastructure & Services
Energy, Mobility, Tourism, health
and waste management.



Routinely collaborating closely with both industry partners and public authorities to ensure real-world relevance.

Strategic Roles in European Consortia

Structural Integration



1. Technical WP Leader

Methodological leadership for environmental and economic assessment work packages



2. Project Coordinator

Overall administrative and scientific leadership for targeted sustainability calls



The Added Value



Decision-Support Tools

Designing frameworks that operationalize complex analytical results



Impact Assessment

Comprehensive validation of proposed technologies



Implementation & Communication

Translating technical findings into practical insights and strategies for industry leaders and policy stakeholders

CALL	TOPIC	DEADLINE	BUDGET / TYPE	ESCI-UPF
NEB-2026-01-REGEN-02	Advancing sustainable maintenance and repair measures for existing buildings	1 Dec 2026	NEB	LCA/LCC + life extension + repair/refurbishment impacts
NEB-2026-01-REGEN-01	Sustainable / inclusive / affordable / beautiful solutions for thermal comfort	1 Dec 2026	NEB	Whole-life carbon + LCC + energy / comfort trade-offs
NEB-2026-01-BUSINESS-03	Reuse vacant, obsolete or underutilised spaces	1 Dec 2026	NEB	Circularity + LCC + urban regeneration evidence
NEB-2027-01-REGEN-01	Conventional + innovative construction materials, products & techniques	1 Dec 2027	NEB	LCA / EPD + material substitution + circularity
NEB-2027-01-REGEN-04	Enabling environments for a sustainable & circular construction sector	1 Dec 2027	NEB	Indicators + standards + LCA/circularity methodology
CL4-2027-01-MAT-PROD-06	Circular innovative advanced materials: facilitating the transition from design to markets	2 Feb 2027	€6,5M • RIA	Coordination+Circular LCA + resource efficiency + remanufacturing
CL4-2027-01-MAT-PROD-08	Textile circularity through advanced processing and manufacturing technologies and system approaches	2 Feb 2027	€6M • IA	Safe & Sustainable by Design + material LCA
CL4-2027-01-MAT-PROD-16	Technologies for innovative processing of raw materials	2 Feb 2027	€12,5M • IA	Safe & Sustainable by Design + material LCA
HORIZON-BRIDGING-2027-05	Skills Bridging Action	16 Feb 2027	€30M	Sustainability skills + data/digital + innovation-to-investment
CL5-2027-01-D1-13	Next-generation scenarios for climate & sustainability transitions	4 Mar 2027	€24M • RIA	Scenario modelling + environmental/economic trade-offs
CL5-2027-03-D5-03	Data-driven circular economy for the e-mobility ecosystem	14 Apr 2027	€24M • IA	Circularity metrics + LCA + life-cycle scenarios

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CL5-2027-03-D5-08	Sustainable aircraft circular design & additive manufacturing	14 Apr 2027	€5M • RIA	Comparative LCA + circular design
CL5-2027-05-D4-07	Circularity in LCA-based modelling frameworks for renovation of buildings	15 Sep 2027	€27M • IA	LCA + circularity + renovation modelling; lead assessment WP
NEB-2027-02-NEB-SOIL-01	Reducing soil sealing through sustainable urban & territorial design	15 Sep 2027	€15M	Multi-impact assessment: land + carbon + biodiversity + resilience
CL6-2027-01-CIRCBIO-02	Enhancing ecodesign and circularity of construction products	22 Sep 2027	€10M • IA	LCA + ecodesign + durability + reuse/recycling
HORIZON-MISS-2027-07-CLIMA-CIT-NEB-01	Urban nature: restoration along transport networks & built environment	22 Sep 2027	Mission / NEB	Urban LCA + biodiversity + ecosystem services + resilience
HORIZON-MISS-2027-04-CIT-CCRI-04	Advancing circular logistics solutions in cities	7 Oct 2027	€22.5M	Urban systems LCA + circular logistics + climate
CL6-2027-01-CIRCBIO-01	Enhancing ecodesign and circularity of consumer electronics	2027	Cluster 6	Territorial LCA + circularity indicators + living labs
CL6-2027-01-CIRCBIO-04	Extending product lifecycles through repair & refurbishment	2027	€9M	Avoided impacts + LCA + circular business models
CL6-2027-01-BIODIV-05	Accelerating the transition to a nature-positive economy: biodiversity in the private sector	2027	€14M	LCA + biodiversity footprint + nature-positive metrics
CL6-2027-01-ZEROPOLLUTION-04	Europe-wide environmental benchmarking system of the industrial bioeconomy sectors	2027	€3M • CSA	Benchmarking + environmental indicators + LCA data
CL2-2027-01-HERITAGE-03	Crafting routes to a circular economy	2027	€10.5M • RIA	Circularity + materials + heritage / territorial development

Partner with ESCI-UPF

Secure methodological leadership and
comprehensive life-cycle assessments for
your Horizon Europe consortium.

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