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EXEMPLOS DE PROJETOS LIFE

em sectores de atividade relevantes na região Norte

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Equipa Técnica LIFE PT | APA

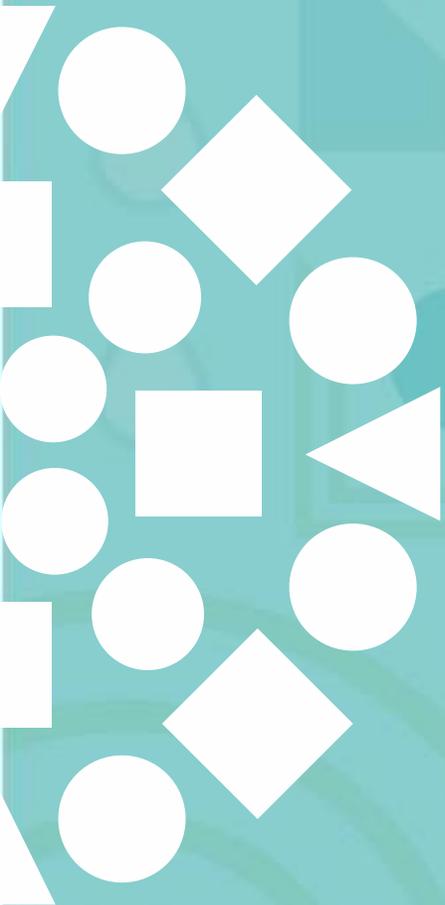
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**REPÚBLICA
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AMBIENTE E
AÇÃO CLIMÁTICA

PESQUISA DE PROJETOS LIFE



Pesquisa de projetos LIFE

<https://webgate.ec.europa.eu/life/publicWebsite/search>

Basic Search on LIFE Public Database

- The Basic Search performs a unified search on both Projects and Documents using your input text.
- For a more detailed search on Projects you can use the Advanced Projects Search
- For a more detailed search on Documents you can use the Advanced Documents Search

shoes

Keyword Variants (eg: searching for Europe will return all projects containing the word Europe or derivatives like European)

EXPAND ALL COLLAPSE ALL EXPORT RESULTS

Project Title	Reference	
▶ Conservation of endangered grouse species in the forests of the Jura	LIFE92 NAT/F/012700	DETAILS
▶ PREVENTION OF DAMAGE TO THE ENVIRONMENT BY ORGANIC SOLVENTS USED IN THE FOOTWEAR INDUSTRY	LIFE94 ENV/UK/000677	DETAILS



Demonstration of a new business and consumption model for the circular economy in the footwear sector

Reference: LIFE19 ENV/ES/000118 | Acronym: LIFE KANNAGreen

PROJECT DESCRIPTION

BACKGROUND

In 2017, the world production of shoes was 23.5 million pairs, of which 4% was in Europe. The EU is the world's leading importer of shoes, accounting for 36.2%. The waste generated after use is about 1.2 million tons per year, of which it is estimated that only 5% is recycled, 15% is reused and 80% is landfilled. On average, each pair of shoes has an environmental footprint of 10.6 kg CO₂, of which 58% corresponds to manufacturing, 11% to assembly and finishing, 16% to packaging, 6% to distribution, and 9% to packaging and end-of-life. Consequently, annually, the global environmental footprint of the footwear industry adds up to a total of 249.1 billion kg CO₂, of which the EU accounts for around 10 billion kg CO₂. Factors relating to material selection account for up to half of the environmental footprint of a pair of shoes. Petroleum-based materials composing soles (PU, TPU, PVC, EVA, synthetic rubber) are the part that contributes most to the negative effects on the environment. Current and forthcoming legislation and market pressures are forcing the footwear industry towards measures to deal with its end-of-life waste, while increasing recycling rates. Hence, end-of-life product recovery schemes and solutions for post-consumer shoes recycling needs to be established to minimise the environmental impacts of end-of-life shoes while taking advantage of the value of end-of-life materials.

OBJECTIVES

LIFE KANNAGreen aims at demonstrating the feasibility of CAPICCIO's proposed circular business model for footwear, which is based on a take-back and recycling scheme as well as on cradle-to-cradle philosophies. The model is focused on reducing the environmental impact of footwear, mainly from the soles. KANNAGreen footwear has already been validated at lab scale, through the development of three prototype models. Applied technology is based on separation of ELKs (End-of-Life KANNA shoes) materials and formulation, thermoforming and injection techniques. These processes allow the integration of the different recycled materials into new footwear soles, thus closing the loop of the footwear industry for the first time. The environmental footprint of each pair of KANNAGreen shoes is expected to be reduced to 7.22 kg CO₂ (38.3% reduction). The project is directly related to the common EU targets for recycling 65% of municipal waste by 2035, 70% of packaging waste by 2030, and reducing landfill to a maximum of 10% of municipal waste by 2035. It also implements the EU Action Plan

ADMINISTRATIVE DATA

- ★ Reference: LIFE19 ENV/ES/000118
- ★ Acronym: LIFE KANNAGreen
- 🕒 Start Date: 01/10/2020
- 🕒 End Date: 30/09/2024
- 💶 Total Eligible Budget: 1,778,768 €
- 🇪🇺 EU Contribution: 978,321 €
- 📍 Project Location:

CONTACT DETAILS

- 📍 Coordinating Beneficiary: CAPICCIO, SL
- 📄 Legal Status: PCO
- 🏠 Address: Camino de Lorca, 6. LA ENCARNACION, 30410, CARAVACA DE LA CRUZ,
- 👤 Contact Person: TOMÁS DE LA CERDA
- ✉ Email: [Send Email](#)
- 🌐 Website: [Visit Website](#)



Pesquisa de projetos LIFE

LIFE 3.0 - LIFE Project Public Page

webgate.ec.europa.eu/life/publicWebsite/search/advanced

shoes

Advanced Search on LIFE Projects

For a more simple search you can use the Basic Search

shoes

Keyword Variants (eg: searching for Europe will return all projects containing the word Europe or derivatives like European)

1992 1994 1996 1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018 2020

Select Priority Areas

Select Submitting Countries

Select Benefiting Countries

Select the Beneficiary Types

Select Themes

Select Keywords

Select Target EU Legislative References

Select Target Habitat Types

Select Species

Select Red List Species

Select Natura 2000 Sites

Is project selected ?

Is project the best ?

Is project the best of the best ?

SEARCH RESET

LIFE PUBLIC DATABASE

BASIC SEARCH

ADVANCED PROJECTS SEARCH

ADVANCED DOCUMENTS SEARCH

LIFE PROGRAMME

CONTACT

LIFE PROGRAMME
European Climate, Infrastructure and
Environment Executive Agency (CINEA)
Chaussée de Wavre 910
B-1040 Brussels, Belgium

Make an Inquiry

Contact the LIFE IT HELPDESK

Data Protection Notice

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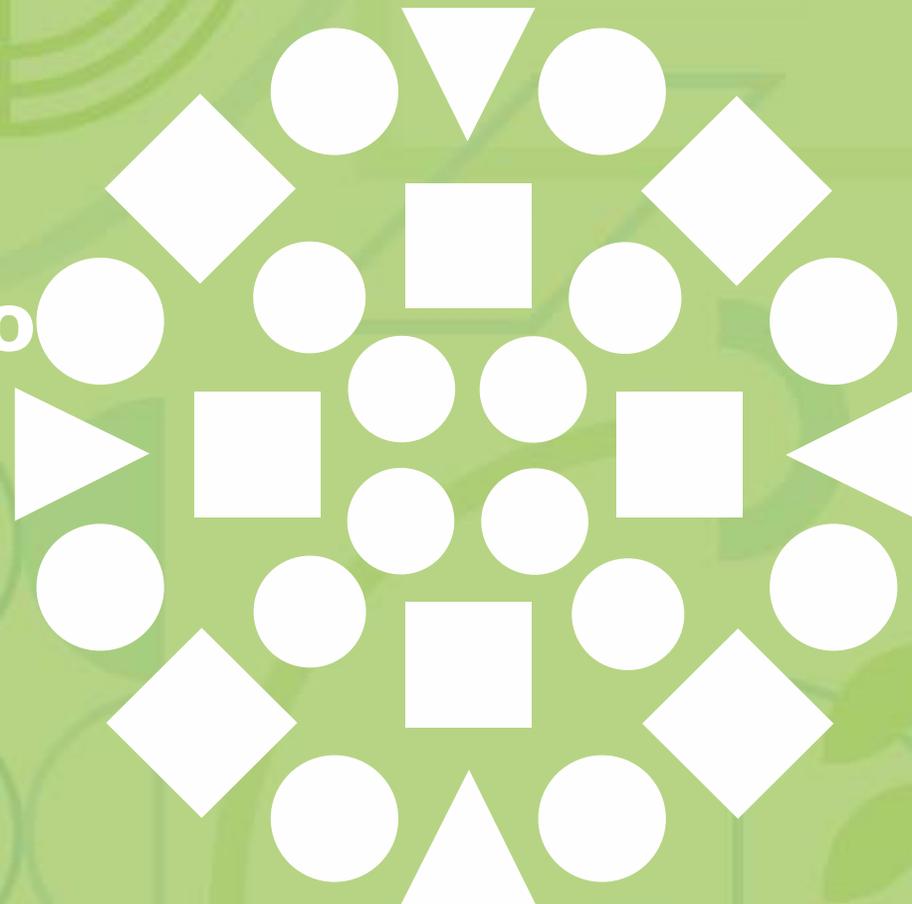


PROJETOS LIFE

Setor Calçado

Setor Têxtil

Setor Mobiliário



Footwear Carbon Footprint

OBJETIVO

- Desenvolvimento de uma ferramenta de cálculo da pegada de carbono específica para o sector do calçado

RESULTADOS

- Ações-piloto em 16 empresas de 4 países (Espanha, Itália, Polónia e Portugal)
- Pegada de carbono em 36 modelos de calçado:
 - média de **10** kgCO₂eq / par sapatos+embalagem
- Fase do ciclo de vida com maior impacte:
 - Produção de componentes (58%)



THEMES

- GHG reduction in non EU ETS sectors
- Leather and Footwear



KEYWORDS

- modelling
- emission reduction
- greenhouse gas
- environmental impact assessment
- clothing industry

⊗ Coordinating Beneficiary: Asociación de Investigación para la Industria del Calzado y Conexas (INESCOP)

★ Reference: LIFE12 ENV/ES/000315

★ Acronym: LIFE CO2SHOE

🕒 Start Date: 01/10/2013

🕒 End Date: 30/09/2017

€ Total Eligible Budget: 737,968 €

🇪🇺 EU Contribution: 368,984 €

📍 Project Location:



+ Centro Tecnológico do Calçado de Portugal



Demonstration of a new business and consumption model for the circular economy in the footwear sector



THEMES

- Circular economy and Value chains
- Life Cycle Assessment-Management
- Leather and Footwear
- Waste reduction - Raw material saving

KEYWORDS

- consumption pattern
- environmentally friendly product
- waste reduction
- reuse of materials
- recycling
- raw material consumption
- industrial process
- life-cycle management
- clothing industry
- logistics

✳ Coordinating Beneficiary: CAPICCIO, SL

★ Reference: LIFE19 ENV/ES/000118

★ Acronym: LIFE KANNAGreen

🕒 Start Date: 01/10/2020

🕒 End Date: 30/09/2024

€ Total Eligible Budget: 1,778,768 €

🇪🇺 EU Contribution: 978,321 €

📍 Project Location:



Mitigation of microplastics impact caused by textile washing processes

OBJETIVO

- Minimização dos impactes ambientais dos microplásticos nos ecossistemas marinhos através da demonstração e implementação de tecnologias inovadoras

RESULTADOS

- 3 processos de acabamento têxtil em roupas sintéticas e 6 aditivos para detergentes, para evitar a remoção das fibras microplásticas durante as lavagens
- Recomendações de políticas e de boas práticas para fabricantes de fibras plásticas, indústria têxtil e de detergentes e setor residencial

THEMES

- Cleaner technologies
- Marine
- Textiles - Clothing
- Awareness raising - Information
- Pollutants reduction
- Water quality improvement

KEYWORDS

- marine ecosystem
- research project
- plastic waste
- chemical industry
- plastic
- textile industry
- industrial waste water
- pollutant elimination
- laundering



🌐 Coordinating Beneficiary: Italian National Research Council(CNR)

★ Reference: LIFE13 ENV/IT/001069

★ Acronym: LIFE - MERMAIDS

🕒 Start Date: 01/07/2014

🕒 End Date: 31/12/2016

€ Total Eligible Budget: 1,287,123 €

🇪🇺 EU Contribution: 643,561 €

📍 Project Location:



Bio-based binder for furniture: Fibreboard production with microfibrillated cellulose (MFC) as binder

OBJETIVO

- Produção de painéis à base de madeira para mobiliário e construção, com celulose microfibrilada como material aglutinante de base natural, em alternativa aos convencionais MDF

RESULTADOS

- Painéis sem formaldeído (perigosidade, risco saúde)
- 100% reciclados e 100% recicláveis
- Redução das emissões CO2 (reciclagem dos materiais)
- Potencial upscaling / produção



THEMES

- Circular economy and Value chains
- Resource efficiency
- Wood - Furniture
- Pollutants reduction
- Hazardous waste



KEYWORDS

- emission reduction
- waste reduction
- recycling
- greenhouse gas
- furniture industry
- hazardous substance
- landfill
- life-cycle management
- environmentally responsible behaviour

🌐 Coordinating Beneficiary: FiberLean Technologies Limited

★ Reference: LIFE20 ENV/UK/000329

★ Acronym: LIFE B3 FURN

🕒 Start Date: 01/11/2021

🕒 End Date: 31/10/2024

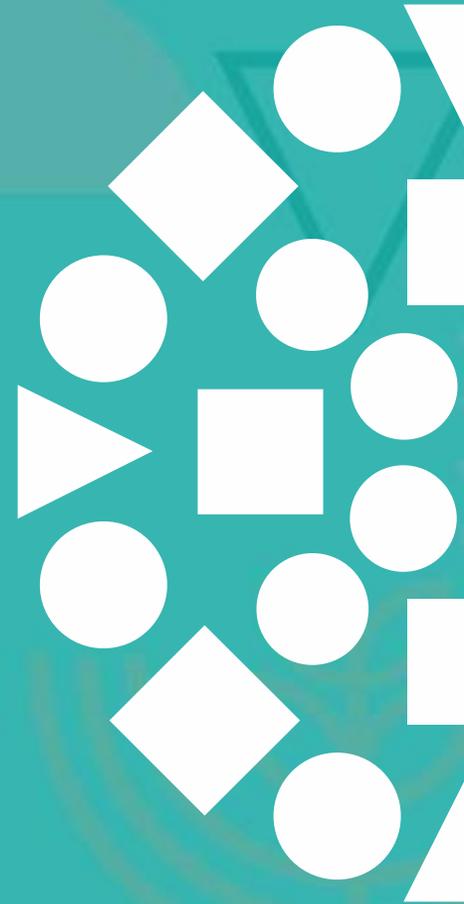
€ Total Eligible Budget: 2,926,494 €

🇪🇺 EU Contribution: 1,609,570 €

📍 Project Location:



PESQUISA DE PUBLICAÇÕES LIFE



Pesquisa de publicações LIFE

 https://cinea.ec.europa.eu/programmes/life/life-publications_en#publications

← → ↻ cinea.ec.europa.eu/programmes/life/life-publications_en#publications    Convidado

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[European Commission](#) > [CINEA](#) > [Programmes](#) > [LIFE](#) > [LIFE publications](#)

LIFE publications

The European Commission publishes many factsheets and brochures on the LIFE programme. Most of them are available in the [EU Bookshop database](#).

PAGE CONTENTS

[Publications](#)

[Other publications on LIFE](#)

[Publications before 2020](#)

[LIFE projects' publications](#)

Publications

General publications | 25 April 2023 | European Climate, Infrastructure and Environment Executive Agency

[How LIFE protects Europe's peatlands infographic](#)



General publications | 19 April 2023 | European Climate, Infrastructure and Environment Executive Agency

[The future is green. The future is LIFE leaflet 2023](#)



 [See all LIFE publications](#)



Pesquisa de publicações LIFE

Publicações temáticas (ex., economia circular)

European Commission > CINEA > Publications

Publications

Filter by

- Select all (5)
- General publications
- Factsheet
- Promotional material
- Report
- Specific report

- Select all (28)
- biodiversity
- EU financial instrument
- energy efficiency
- circular economy
- climate change

Keywords

Publication type

Publication date

Subject

Programme

Programme Sectors

Search

Clear filters

Publications (40)



Showing results 1 to 10

PROGRAMME **Programme for the Environment and Climate Action (LIFE 2014–2020)**

General publications | 25 April 2023 | European Climate, Infrastructure and Environment Executive Agency

How LIFE protects Europe's peatlands infographic

Peatlands infographic



General publications | 19 April 2023 | European Climate, Infrastructure and Environment Executive Agency

The future is green. The future is LIFE leaflet 2023

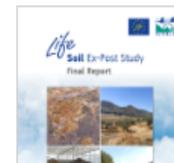
The future is green. The future is LIFE leaflet 2023



General publications | 23 March 2023 | European Climate, Infrastructure and Environment Executive Agency

LIFE Soil Ex-Post Study - Final Report

LIFE Soil Ex-Post Study - Final Report



Disrupting the linear model:
LIFE and the circular economy

People living in today's developed economies have access to all kinds of products at affordable prices. But making these products is often associated with an excessive and intense use of natural resources as well as related CO₂ emissions linked to these resources' extraction and transformation. Also, many items break down too easily, cannot be reused, repaired or recycled, or are made for single use only. The solution to our dependence on these resources and the needless waste in the circular economy is to transform the way products are made and empower consumers to make sustainable choices for the environment. Through LIFE co-funded projects, the EU LIFE programme has been helping to make the transition away from a linear model while supporting the implementation of the EU's Circular Economy Action Plan.

Fast facts

- LIFE has been supporting circular economy-related projects since 1992 through some 700 projects on waste prevention and reduction, recycling and re-use, totaling more than €1 billion of investment.
- Under the 2014 - 2020 LIFE programming period, more than €546 million was invested in over 215 projects that contributed to the circular economy. These projects also built on the LIFE innovation programme that helped innovative green ideas to become marketable solutions.
- LIFE circular economy projects have helped implement EU environmental legislation. And some have been pivotal for creating and increasing existing legislation.
- Several projects have increased citizens' awareness of waste prevention or established new processes for preventing waste.
- Others have established or 'closed the loop' between us and nature.
- Many LIFE solutions are replicable and transferable across the EU, leading to a multiplier effect.
- Close collaboration between different players is vital for developing a circular economy. LIFE is well-positioned in this.

LIFE-ECOTEX

The LIFE-ECOTEX project developed an innovative, eco-efficient and highly replicable recycling system for polyester textile waste.

Polycarbonate is the second largest family of plastics in terms of quantity used. But in the footwear industry, up to 7% of high-grade polycarbonate is lost during manufacture. This waste is difficult to recycle, making handling and transportation the most frequent problem.

Scientists ECOTEX project set out to find a sustainable solution for this business waste. To do this, the team identified and tested 6 new catalytic formulas. The process resulted in high added value chemical intermediates that can be used as a raw material to produce new footwear and injection materials.

The project team has measured the circularity of this industry and reduced greenhouse gas (GHG) emissions. For example, manufacturing the new raw material, just emissions by 55% when compared to producing virgin polycarbonate. Also, a part of these materials from recycled polycarbonate had a 25% lower carbon footprint than incineration or landfill. Moreover, the new material also fits in the amount of polycarbonate waste being collected by 700 kg.

The team went on to develop 300 prototypes since 2018 and 2019, including 2019, which were manufactured with chemically recycled polycarbonate. Several companies in the leather, automotive and packaging industries have started projects with the project coordinator to replicate the chemical process.

LIFE-ECOTEX is in line with the EU's Circular Economy Action Plan, the Waste Framework Directive, and the Sustainable Development Goals.



- LIFE GreenShoes4All**
The LIFE GreenShoes4All project is measuring the environmental impact of footwear products to help manufacturers reduce their waste and emissions.
- LIFE CEPLAFIB**
Slovenia's LIFE CEPLAFIB project has developed a sustainable, recycled alternative to virgin plastics for use in the packaging, automotive and construction sectors.
- LIFE Waste2Protein**
Germany's LIFE Waste2Protein uses organic residues from supermarkets as a resource to produce sustainable and location-independent insect protein from black soldier fly.

Pesquisa de publicações LIFE



Publicações LIFE focus anteriores a 2020:

<https://wayback.archive-it.org/12090/20220917103619/https://ec.europa.eu/environment/archives/life/publications/lifepublications/lifefocus/index.htm>

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ENVIRONMENT
LIFE Programme

European Commission > Environment > LIFE Programme

HOME | ABOUT LIFE | NEWS | FUNDING | PUBLICATIONS | TOOLKIT | CONTACT | SITE MAP

Life

Projects by theme

- Nature, Biodiversity
- Environment
- Climate Action
- Info, Governance

Projects search

- Project database
- Project publications

More

- Best projects
- Integrated projects
- Other projects
- By country
- Natura 2000 sites

Home | Publications | LIFE programme publications | LIFE Focus

LIFE Focus

The LIFE programme's journal focuses on a variety of environmental and nature themes. The brochures published so far are classified by the three LIFE components.

LIFE-Environment

Themes featured include:

- LIFE and the marine environment
- LIFE greening jobs and growth
- LIFE and the Circular economy
- LIFE and Climate change adaptation
- LIFE and Climate change mitigation
- LIFE and air quality
- LIFE and Soil protection
- LIFE creating green jobs and skills
- LIFE's Blueprint for water resources
- Coastal management
- Resource efficiency
- Local authorities

→ LIFE programme publications

- LIFE Factsheets
- LIFE Focus
- Best Projects
- Yearly compilations
- Natura 2000 newsletter
- General LIFE publications
- NGOs

→ LIFE Project Publications

→ Other publications on LIFE

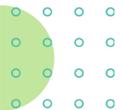
→ LIFE Videos

→ LIFE Products

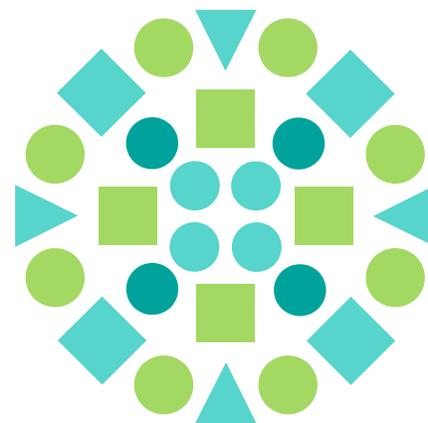
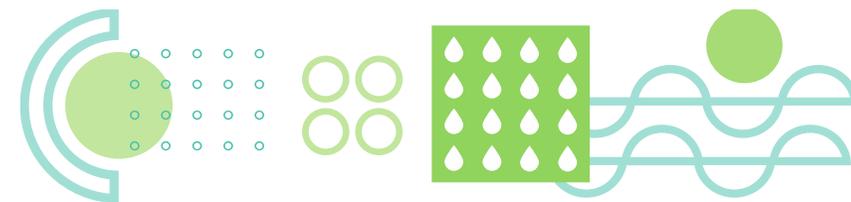
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LIFE 20 years





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