

### What is PlastLIFE?

### PlastLIFE – Re-thinking plastics in a sustainable circular economy

PlastLIFE is an extensive national cooperation project to promote the circular economy of plastics. The goal is a sustainable circular economy for plastics in Finland by 2035.

In 2022–2029, PlastLIFE promotes the implementation of the Plastics Roadmap for Finland aiming to reduce littering and unnecessary consumption of plastic, to increase recycling and to replace fossil raw material in plastic manufacturing.





### PlastLIFE is carried out by

#### **Consortium partners:**































#### **Funding organisations:**



#### LIFE21-IPE-FI-PlastLIFE

PlastLIFE-hanke saa EU:n LIFE-ohjelmasta rahoitusta, jolla hankkeen materiaalit on tuotettu. Materiaalien sisältö edustaa ainoastaan hankkeen omia näkemyksiä, joista CINEA/Euroopan komissio ei ole vastuussa.



Ympäristöministeriö Miljöministeriet Ministry of the Environment











Svenska lantbruksproducenternas centralförbund















#### **Coordinator:**









PlastLIFE kick-off 15.-16.3.2023



### Co-operating and networking to reach all Finns

- Full implementation of the PRfF requires involvement of all stakeholders in various parts of the country
- Municipality networks (national and international)
- NGOs, social media influencers, youth organisations and schools
- Company networks
- The Plastics Roadmap for Finland co-operation network
- PlastLIFE Advisory group including complementary measures and stakeholders relevant for the PRfF



Photo: Adobestock



#### We strive for



Reducing unnecessary consumption of plastics



**Combating littering** 



Recovering and recycling plastic waste



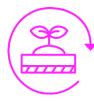
Replacing fossil raw materials



Managing harmful substances



Managing plastics in construction and demolition



Managing plastics in agriculture and horticulture



Collaborative solutions



Generating new business



Strengthening expertise



Expanding knowledge on plastic and its impacts



### Impacts by 2035

Recycling of plastics packaging has increased from

**42**% **D 55**%

Use of recycled materials has increased



**Recycling of** all plastic waste has doubled

Knowledge on plastics has increased

(amounts, impacts, and risks)

Amount of non-recycled plastic packaging waste has decreased to 60,000 tonnes per year Amount of non-recycled plastic

Coastal littering has decreased by

**50**%

**Amount of plastic waste** has decreased

Results have been channelled into national policymaking and legislation

**GHG** emissions related to plastics waste treatment have decreased from

156,000



tons of CO<sub>2</sub>e. per year

**Breakthrough** of sustainable circular economy of plastics



### >15 reports and articles produced by today



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https://www.kiertotalousratkaisuja.fi/fi-FI/PlastLIFE/Tulokset

# Activities in 2024 - Engaging citizens in promoting CE of plastics

- Citizen panel (140 participants signed up); First discussions (May 2024) on how to reduce the use of plastic carrier bags (Syke)
- Rosgis mobile application being tested (Syke)
  - Collecting information on litter
  - Involving citizens n making science
  - (https://wwwi.ymparisto.fi/citobs/rosgis/#)



 Campaigns against littering: Siisti Biitsi, Mahanpuruja muovista (Pidä saaristo siistinä ry)



# Activities in 2024 - Engaging experts in promoting CE of plastics

- Transition arena workshop discussions (Syke) to promote reuse of
  - plastic packaging (consumer and transport packaging) and
  - plastic consumer products
- Co-creation workshops to develop plastics circular economy indicators (Syke)
  - Environmental, economic, social indicators
- Service design workshop with the Residuum employees and designers (University of Lapland)
  - co-designing a new plastics collection and recycling area for consumers





## Activities in 2024 – Promoting CE business models development

- Innovation toolkit developed and tested (Aalto University)
  - Facilitating companies in making the change towards circular economy business models
  - Workshops arranged for companies
- Regional clusters for companies (LAB UAS)
  - Lahti and Lappeenranta areas
  - Helping companies in CE of plastics related issues
  - Concept development in process



## Activities in 2024 – Improving recycling of infrastructure plastics

#### Studies on artificial turfs

- National study and recycling pilots in Helsinki (City of Helsinki)
- Hazardous substances in the material (Syke)
- LCA on recycling alternatives for artificial turfs (LUT University)





# Activities in 2024 – Reducing the health and environmental impacts of plastics

- Screening the adsorption properties of plastic to determine whether plastics in the environment collect and enrich contaminants (metals, hormones and drugs) (University of Jyväskylä)
- Biodegradation experiments results analysed.
  Tested materials were nylon, PLA, CA,
  PHB, bioska (maize starch), celluose (positive control).
  (University of Jyväskylä)
- Ecotoxicological testings of plastic (University of Jyväskylä):
  - Acute and chronic toxicity test of HDPE, CA,
    PLA, bioska bag, PHB and chaolin with Daphnia.
  - Health effects of plastic using sperm test.





# Activities in 2024 – Replacing the use of fossil raw materials in plastics





A veterinary ear speculum, to be used especially with dogs Plastone

- Mapping new raw material alternatives to compensate fossil based raw materials in the production of household products. (Orthex)
- Testing new materials especially in food contact. Challenging to find raw material that generates certain kind of transparency (Orthex)
- Improving the utilisation of plastic industry side streams (Plastone)

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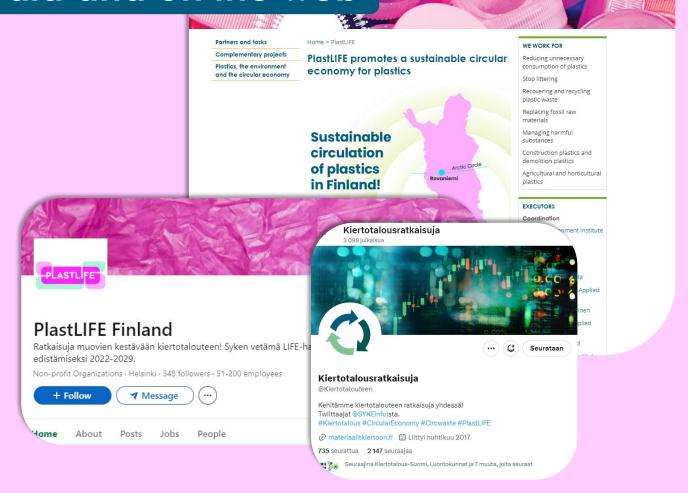
### Joining the Yle campaign against littering:





#### Follow us in the social media and on the web

- www.plastlife.fi
- in PlastLIFE Finland
- **&** @kiertotalouteen
- #plastlife
- #muovitiekartta





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### Thank you!

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