

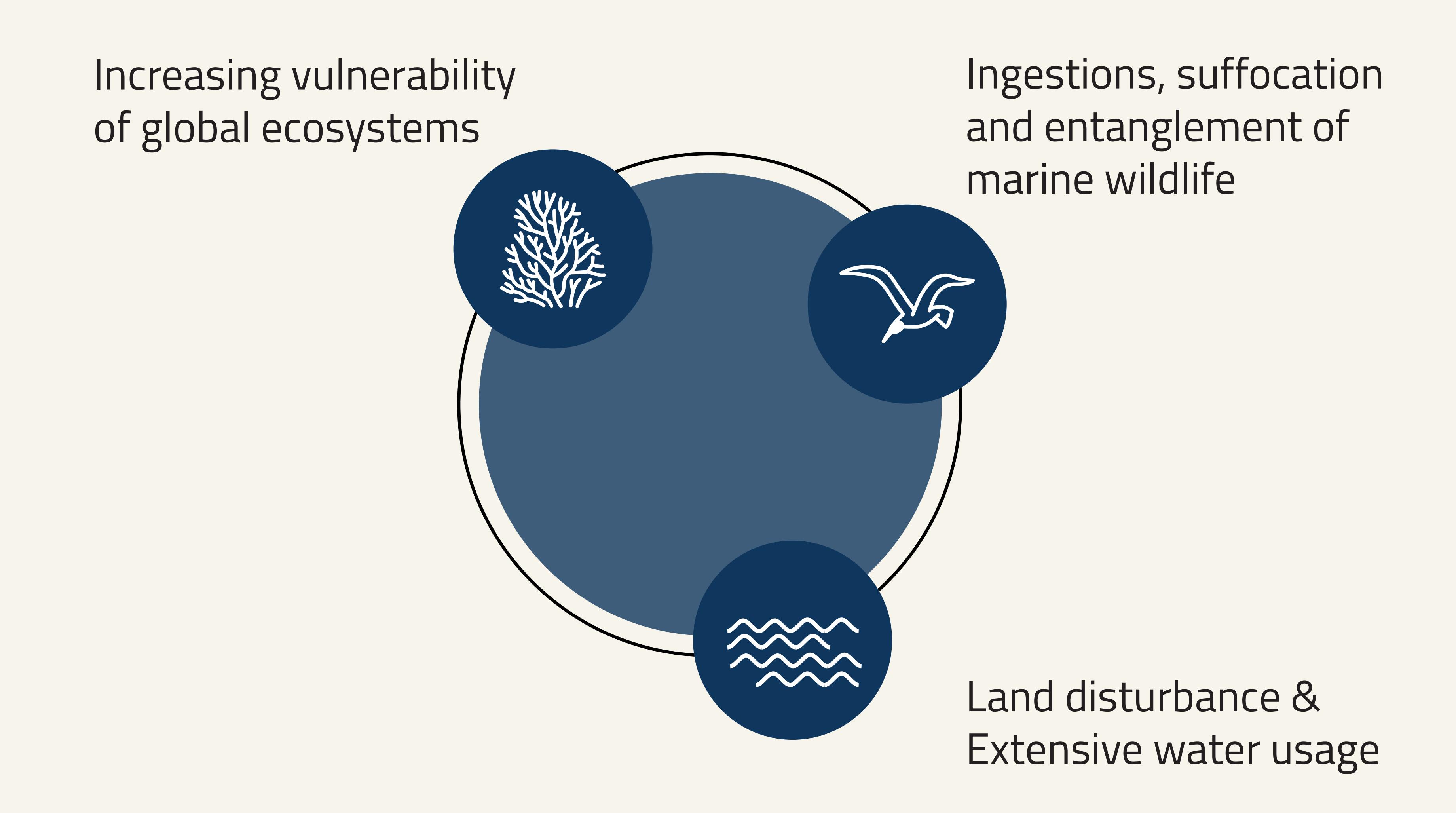
GREEN HOUSE GAS EMISSIONS IN THE PLASTICS VALUE CHAIN

MtCO₂e = metric tons of carbon dioxide equivalent

0.86 Gt of CO₂e

TOTAL FOR PLASTICS PRODUCTION, CONSUMPTION & END OF LIFE IN 2019

ENVIROMENTAL DAMAGE



VALUE CHAIN



PER METRIC TON OF PLASTIC PRODUCED

FOSSIL FUELS EXTRACTION

RAW MATERIALS REFINING

RESIN MANUFACTURING

POLYMERIZATION & BLENDING

CONVERSION INTO PRODUCTS

CONSUMPTION

0.272 Mt CO₂

1.89 Mt CO₂e

0.544 Mt CO₂

indeterminable emissions

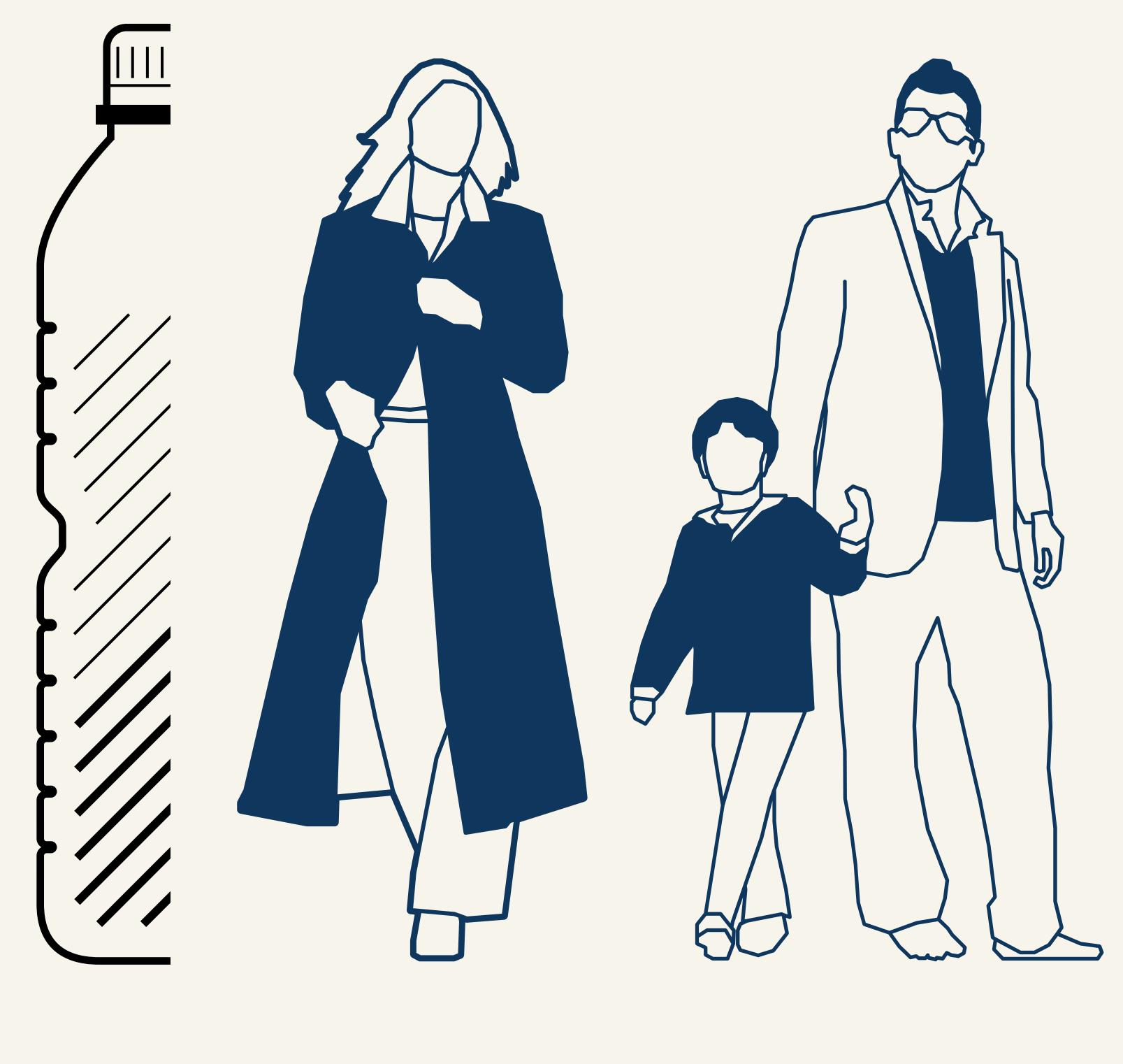
indeterminable emissions

indeterminable emissions

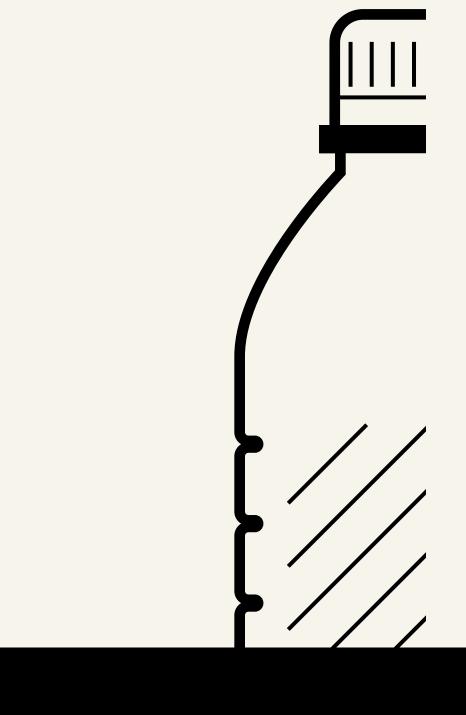
END OF LIFE () 2.45 Mt of CO₂ embedded into the product itself

PLASTIC PACKAGING INCINERATION

0.9 MtCO₃e *considering 2MtCO₃e is offset by energy recovery



100kg plastics used per person in a year (EU)



III 1 Mt CO₂ e Return flight London - Mumbai

GREEN HOUSE GAS EMISSIONS

IN THE PLASTICS VALUE CHAIN

MtCO₂e = metric tons of carbon dioxide equivalent

STEPIN VALUE CHAIN



GHG EMISSIONS

PER METRIC TON OF PLASTIC PRODUCED

EXPLORING SYSTEMIC SOLUTIONS

PROJECTS

eCircular

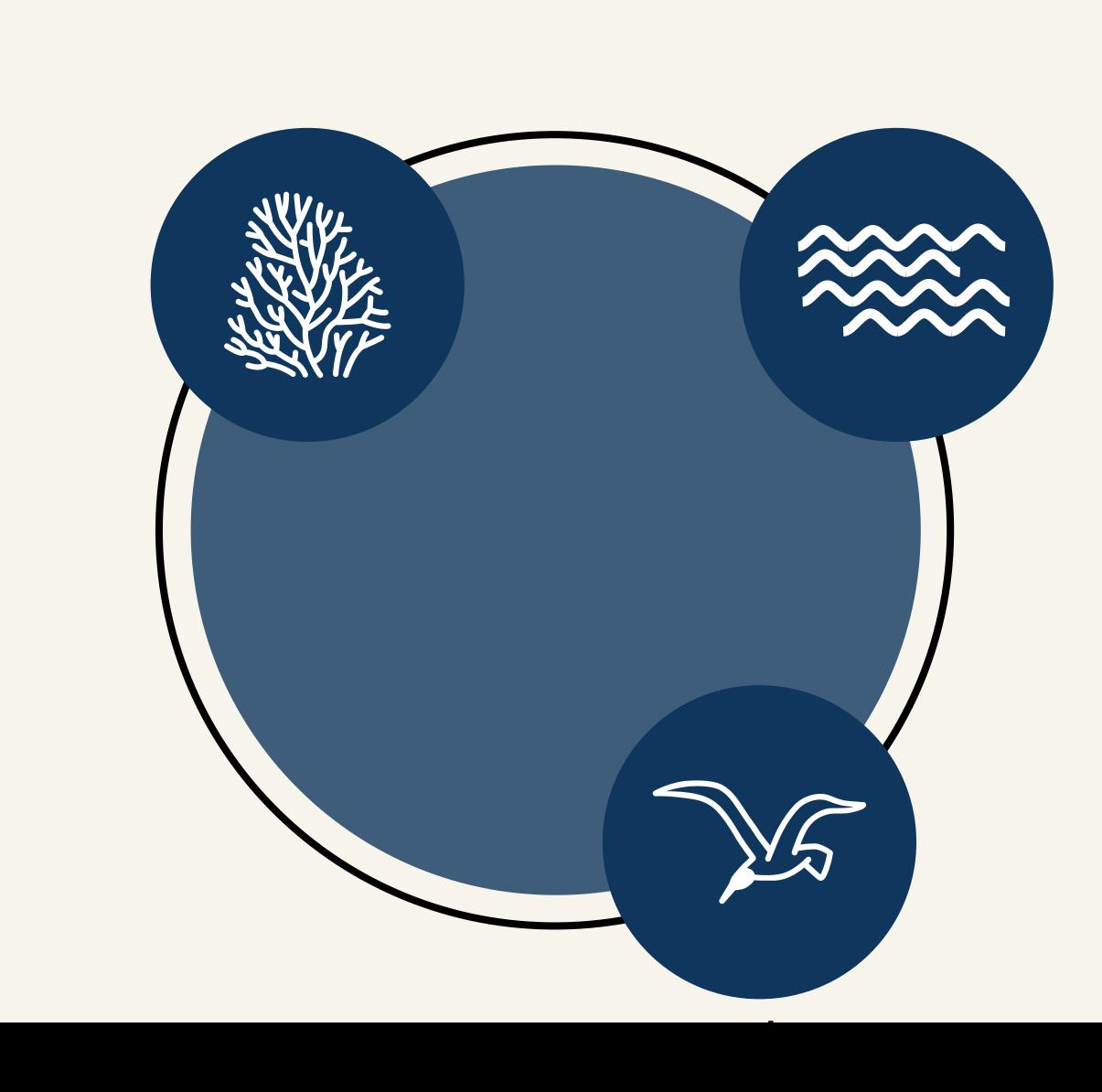
Plastics Engagement and Stewarship Programme

Catalyzing Corporate Action Through Plastic Standars

Circular Economy Indicators for Plastic Value Chain in Manufacturing

Innovation Center for Sustainable Retail

ENVIROMENTAL DAMAGE



IMPROVING WASTE MANAGEMENT

STARTUP

Encapsulae

PROJECTS

Plastic waste recovery by regional blockchain networks

Traceability

for Circularity

Centres for Urban Remanufacture

Feasibility Study for a waste prevention consultancy on plastic packaging

Circular Crowd Production Platform

Service-based circular business models

Closing the loop for

NON FOSSIL FUEL BASED

MATERIAL INNOVATIONS

STARTUPS Made of Air

FuturAlga Bambooder Hemp Eyewear Kaffeeform

Impact Acoustic

PROJECT

B-Plas Demo

FOSSIL FUELS EXTRACTION

RAW MATERIALS REFINING

RESIN MANUFACTURING

POLYMERIZATION & BLENDING

CONVERSION INTO PRODUCTS

RETAIL

CONSUMPTION

0.272 Mt CO₂

indeterminable emissions

1.89 Mt CO₂e

0.544 Mt CO₂

indeterminable emissions

indeterminable emissions

indeterminable emissions

END OF LIFE () 2.45 Mt of CO₂ embedded into the product itself

STARTUPS

ALTERNATIVES

PACKAGING

Plantics Cupbites

Arekapakh Leafymade Notpla

PROJECTS

Packaging Circular Design

Plastic Information Flows

ZERO WASTE SOLUTIONS

STARTUPS

Plantics Cupbites Arekapakh Leafymade Notpla

1230

0.9 MtCO₂e *considering 2MtCO₂e is offset by energy recovery

PLASTIC PACKAGING INCINERATION RACCIANICAL