



BLUE CIRCULAR ECONOMY



Northern Periphery and
Arctic Programme
2014-2020



EUROPEAN UNION
Investing in your future
European Regional Development Fund



PLASTIC WASTE IN GREENLAND

Online Seminar: 25th March 2021

Creating Business Opportunities from Waste Fishing Gear

Opportunities for Circular Products from Fishing Gear

25th March 2021

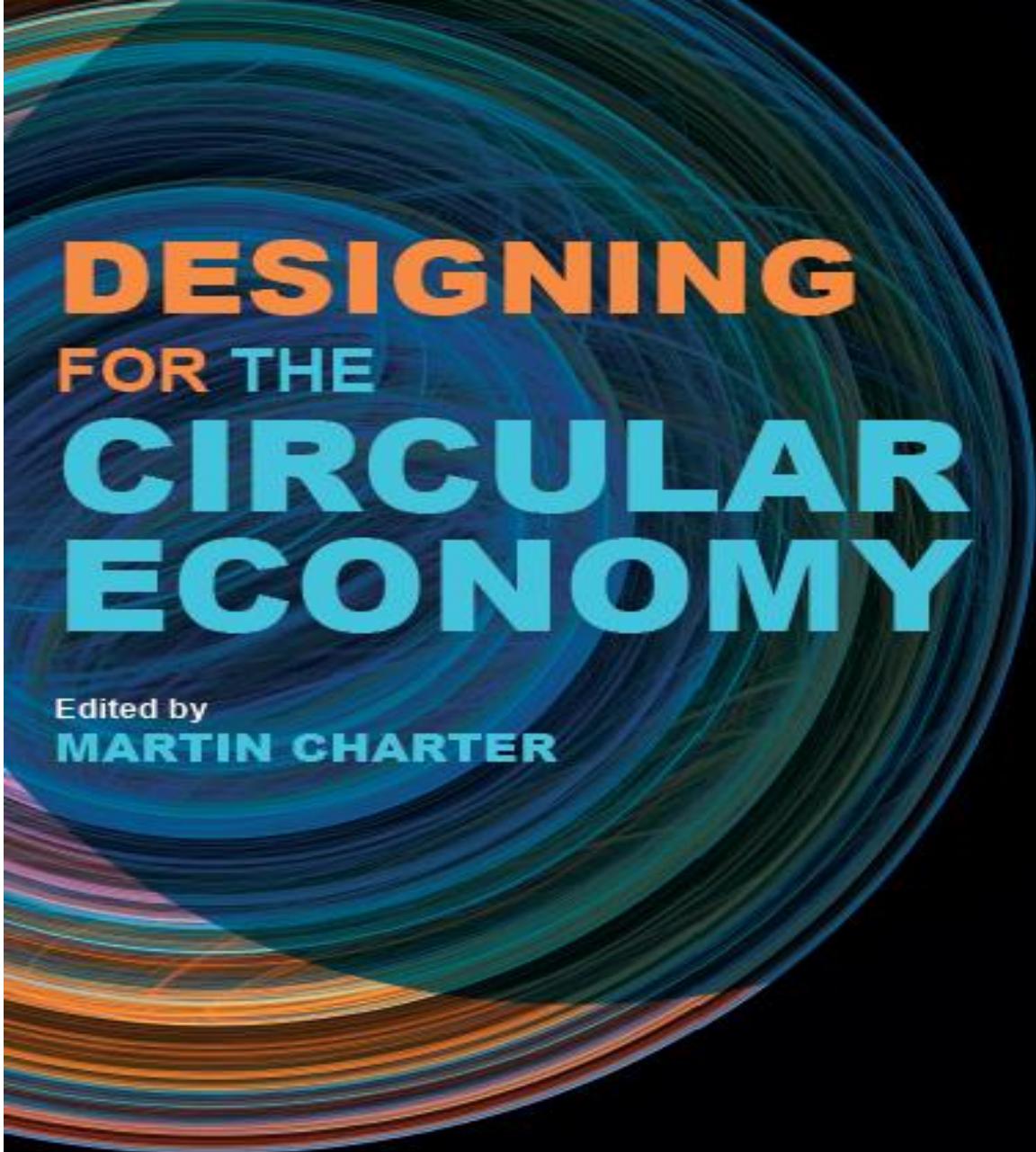
BCE Online Seminar

Professor Martin Charter

Director, The Centre for Sustainable Design ®

Business School for the Creative Industries

University for the Creative Arts (UCA)

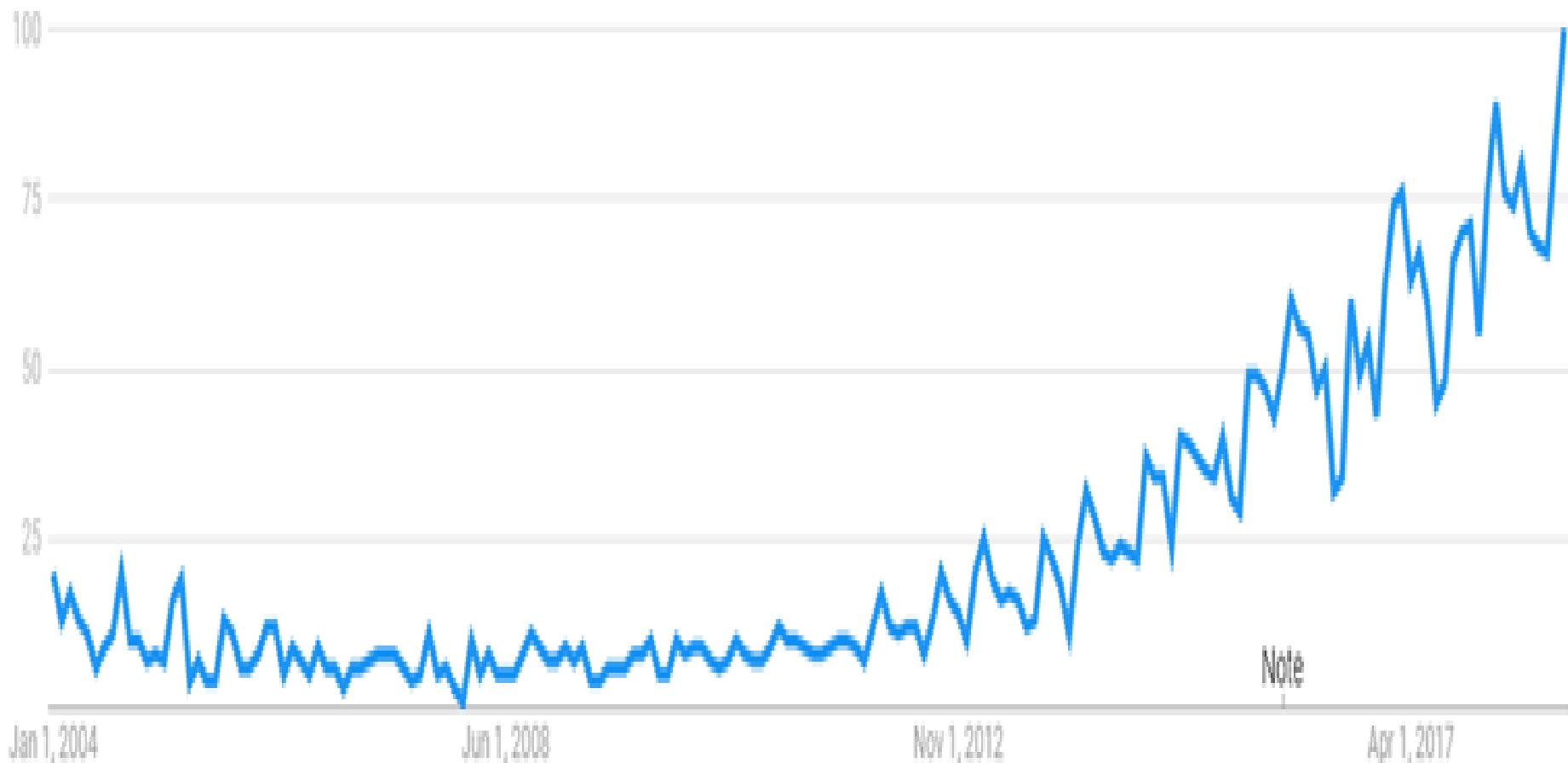


DESIGNING FOR THE CIRCULAR ECONOMY

Edited by
MARTIN CHARTER



Google Trends: Circular Economy



1 NO
POVERTY



2 ZERO
HUNGER



3 GOOD HEALTH
AND WELL-BEING



4 QUALITY
EDUCATION



5 GENDER
EQUALITY



6 CLEAN WATER
AND SANITATION



7 AFFORDABLE AND
CLEAN ENERGY



8 DECENT WORK AND
ECONOMIC GROWTH



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



10 REDUCED
INEQUALITIES



11 SUSTAINABLE CITIES
AND COMMUNITIES



THE GLOBAL GOALS

For Sustainable Development

13 CLIMATE
ACTION



14 LIFE BELOW
WATER



15 LIFE
ON LAND



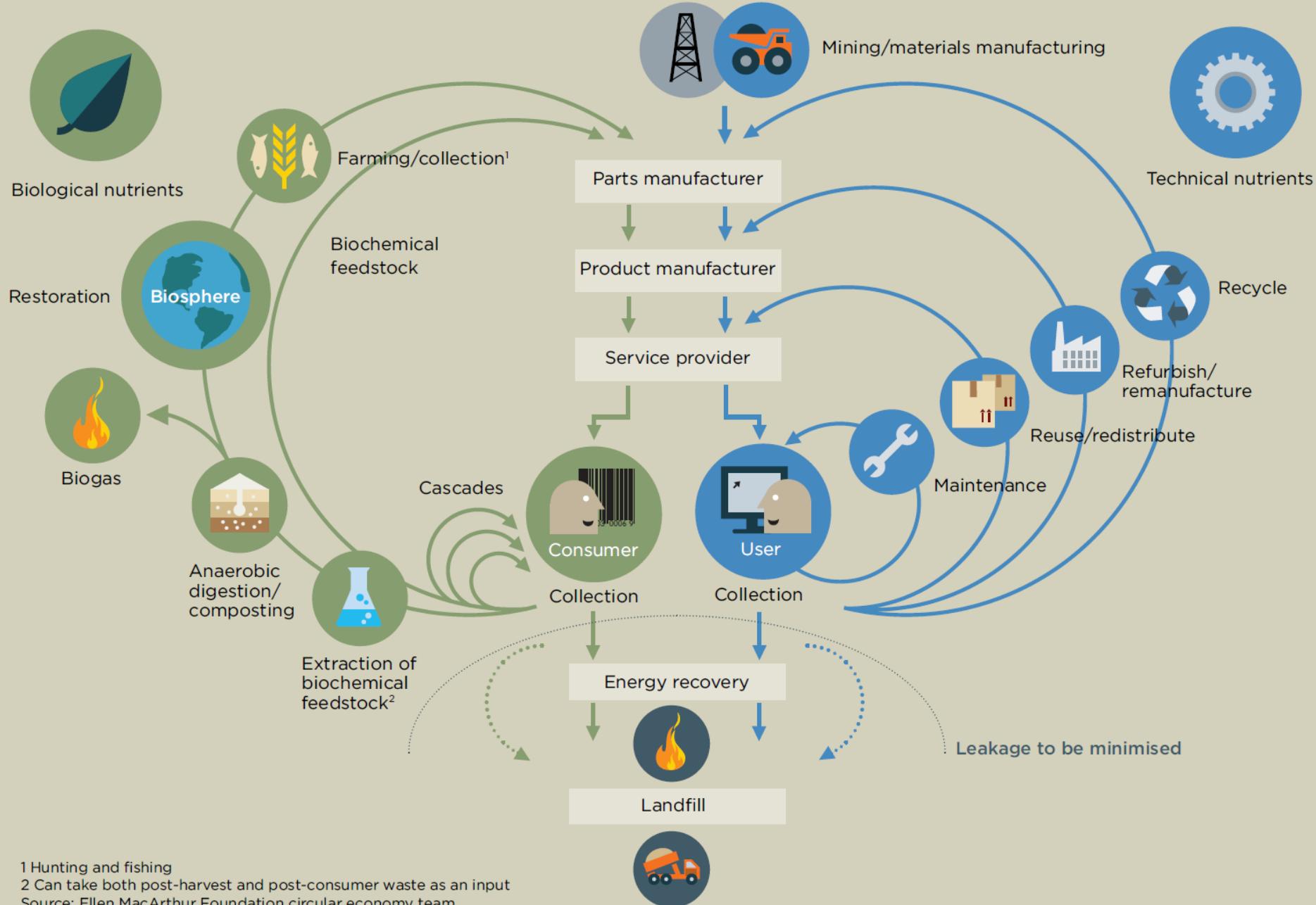
16 PEACE AND JUSTICE
STRONG INSTITUTIONS



17 PARTNERSHIPS
FOR THE GOALS



FIGURE 6 The circular economy—an industrial system that is restorative by design





Circular Economy 2.0

An EU Action Plan for the Circular
Economy – March 2020



EUROPEAN COMMISSION

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European Commission - Statement

Circular Economy: Commission welcomes European Parliament adoption of new rules on single-use plastics to reduce marine litter

Brussels, 27 March 2019

The European Parliament today agreed on the ambitious measures proposed by the Commission to tackle marine litter coming from the 10 single-use plastic products most often found on European beaches, as well as abandoned fishing gear and oxo-degradable plastics.

EPR

**Circular
Design**

VALUE

WASTE



EXTENDED LIFECYCLE PERSPECTIVE

Focus on *Use* phase *not*
'End of Life'





Design Problem

Product, Service, Systems



BLUE CIRCULAR
ECONOMY

Northern Periphery and
Arctic Programmes



CREATING BUSINESS OPPORTUNITIES FROM WASTE FISHING NETS

OPPORTUNITIES FOR CIRCULAR BUSINESS MODELS AND CIRCULAR DESIGN RELATED TO FISHING GEAR

Professor Martin Charter, Director, The Centre For Sustainable Design®, Business School For The Creative Industries, University For The Creative Arts, and Jude Sherry and Dr Frank O'Connor, Founders and Directors, annis.

May 2020



FNRCPs

Fin- and Shell-fish:
Fishing nets, ropes,
components &
peripherals (FNRCPs)

Functionality

Costs

Materials

Durability

Supply chains

Customisation

Failure modes

Repair

&

Modification

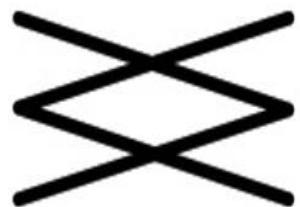
Closed Loop

&

Open Loop



RE-USE



VERDURA

MADE IN ITALY



BRACE NET
SAVE THE SEAS. WEAR A NET



RE-GEN

Chemicals Recycling

RE-COMMERCIALIZATION

WORLD-WIDE NYLON 6
WASTE RESCUE



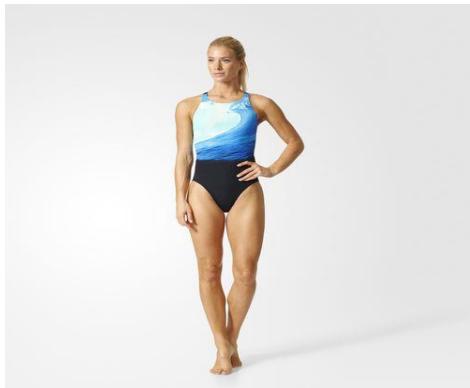
TRANSFORMATION INTO
ECONYL® NYLON YARN

ECONYL®
REGENERATION PLANT

Socks



Swimwear

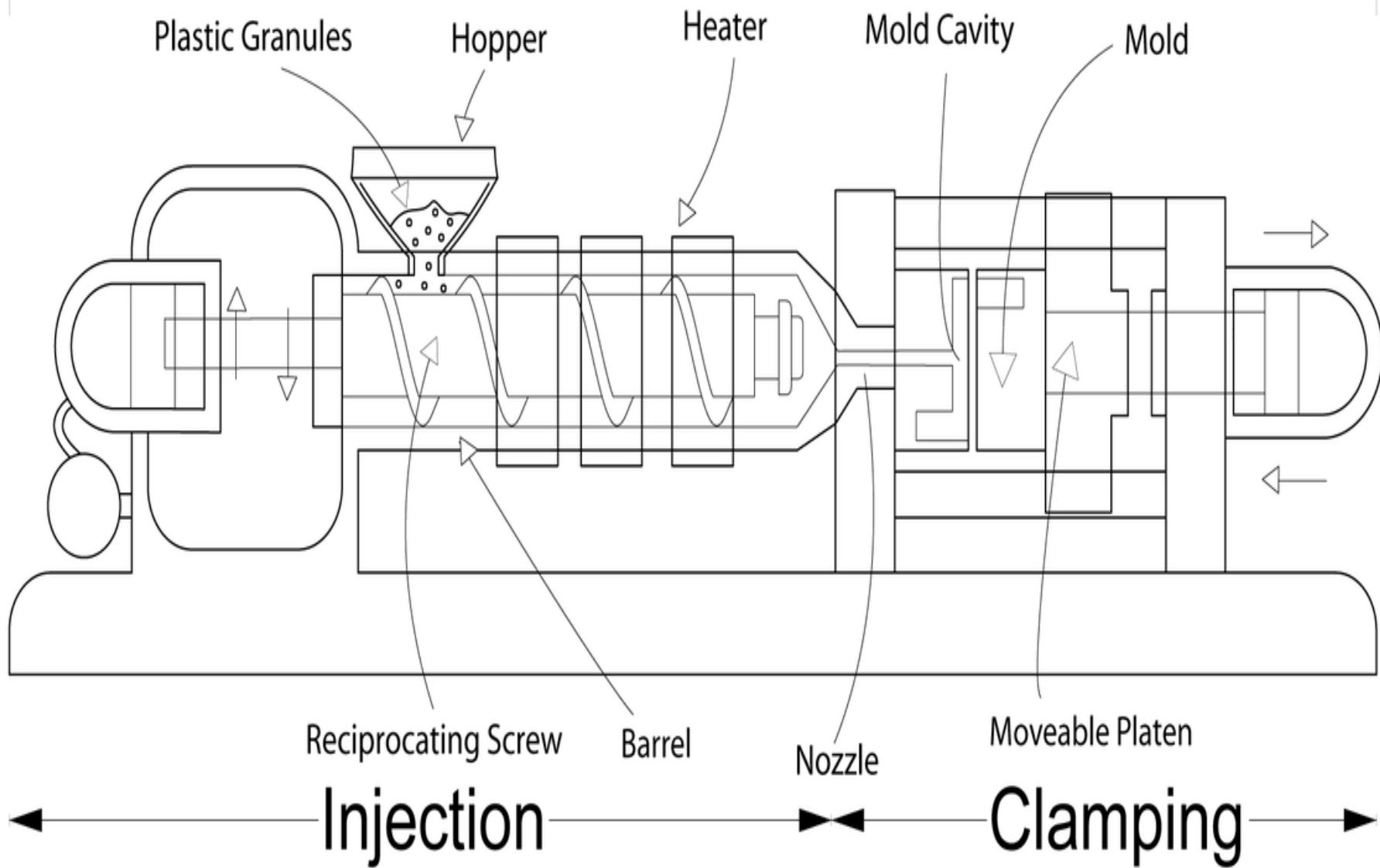


RECYCLE

Mechanical Recycling



Injection Molding Machine





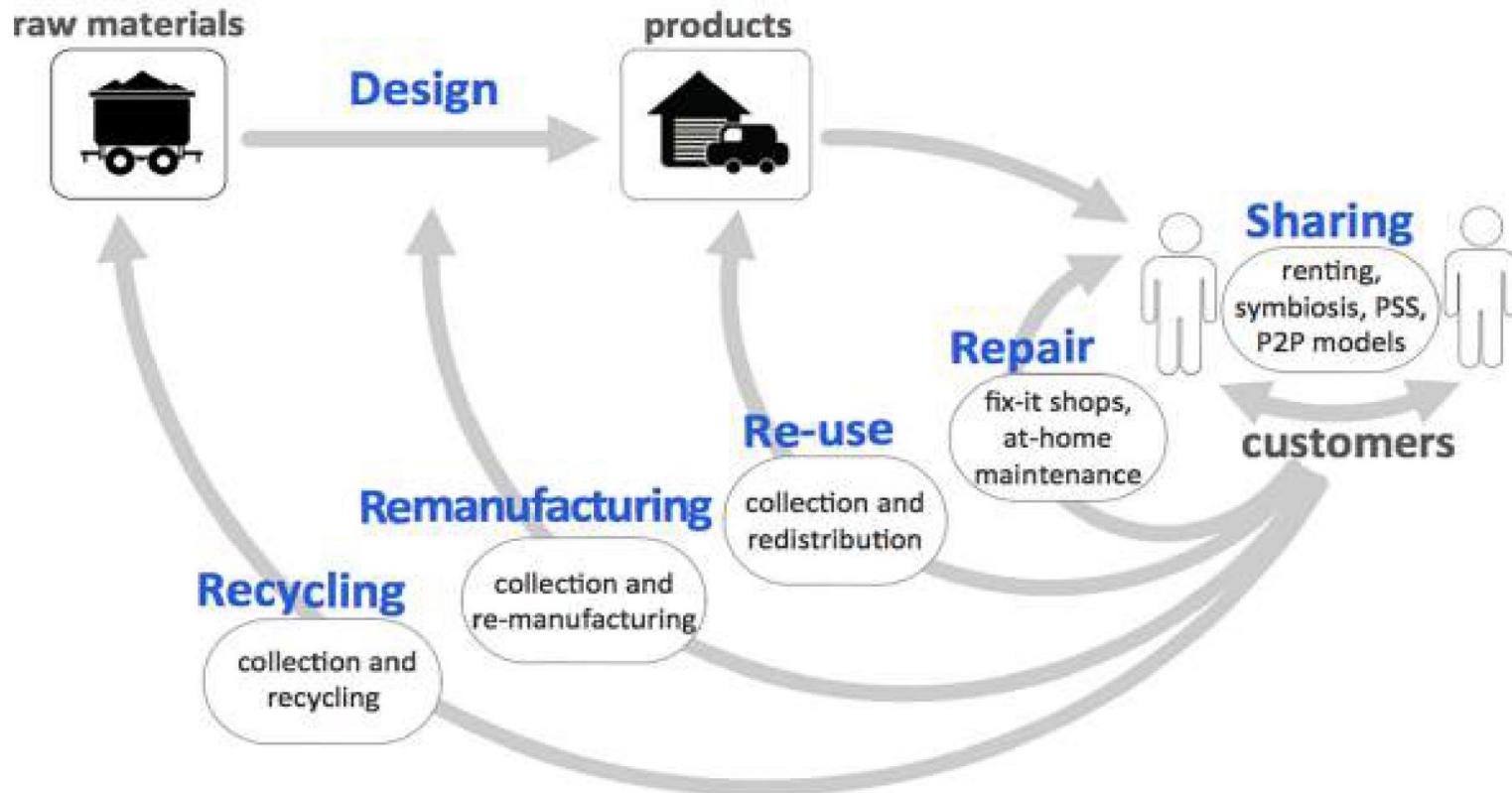
3DP



Fishy
Filaments

Place

Circular Economy



Source: Eco-innovate (2016), The Eco-innovation Observatory

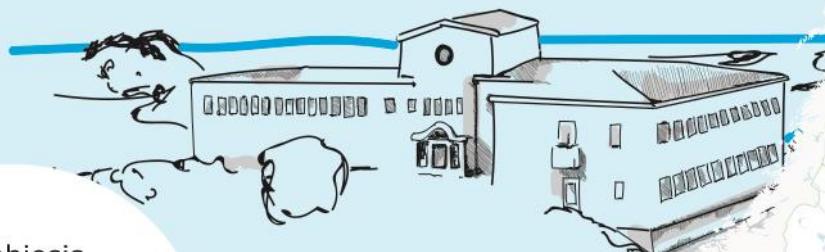


Sotenäs
kommun

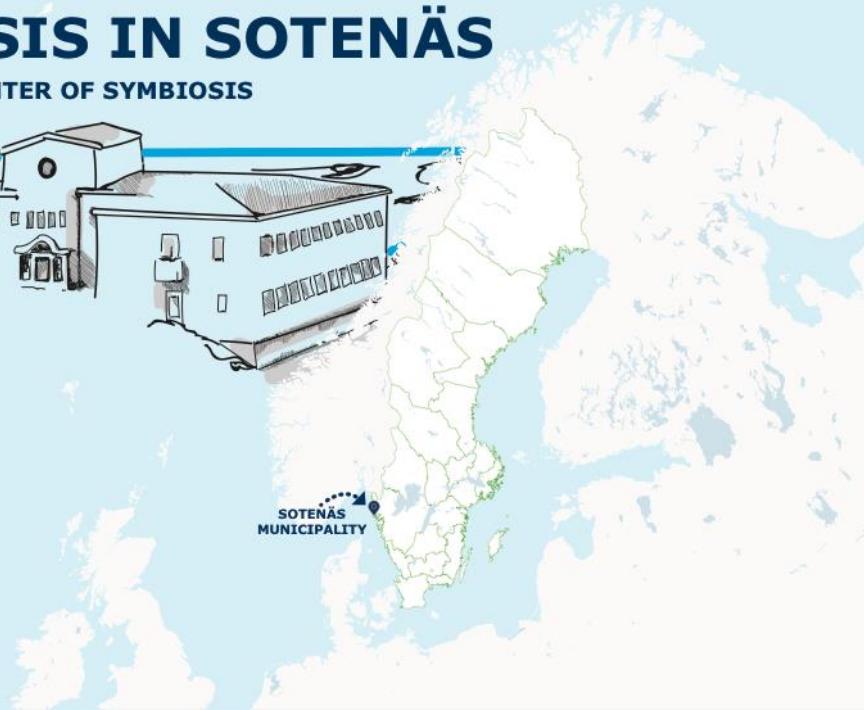


INDUSTRIAL AND SOCIAL SYMBIOSIS IN SOTENÄS

CENTER OF SYMBIOSIS



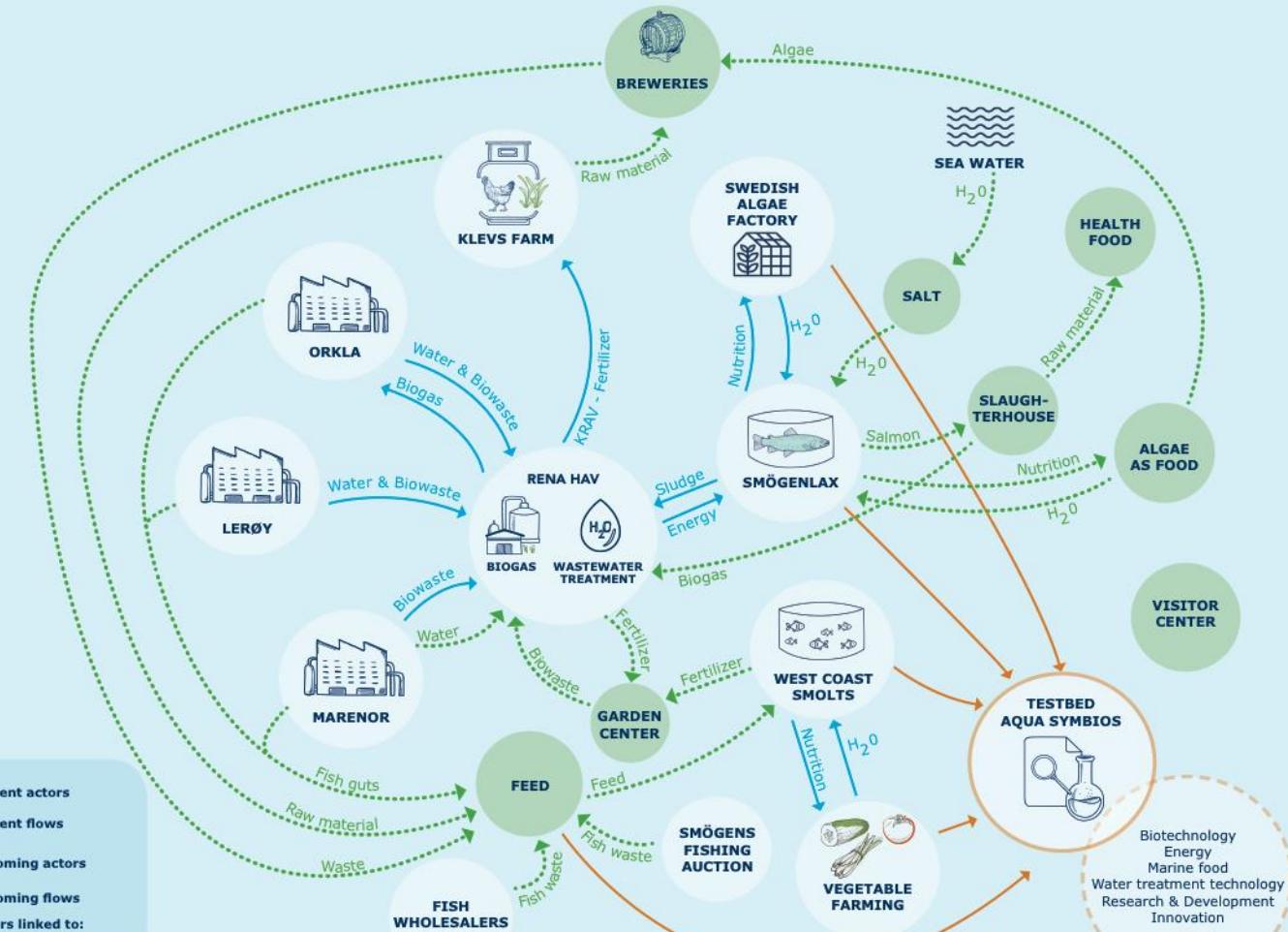
Symbiosis
Lifelong learning
University West
Sustainable development
Companies
Tourism





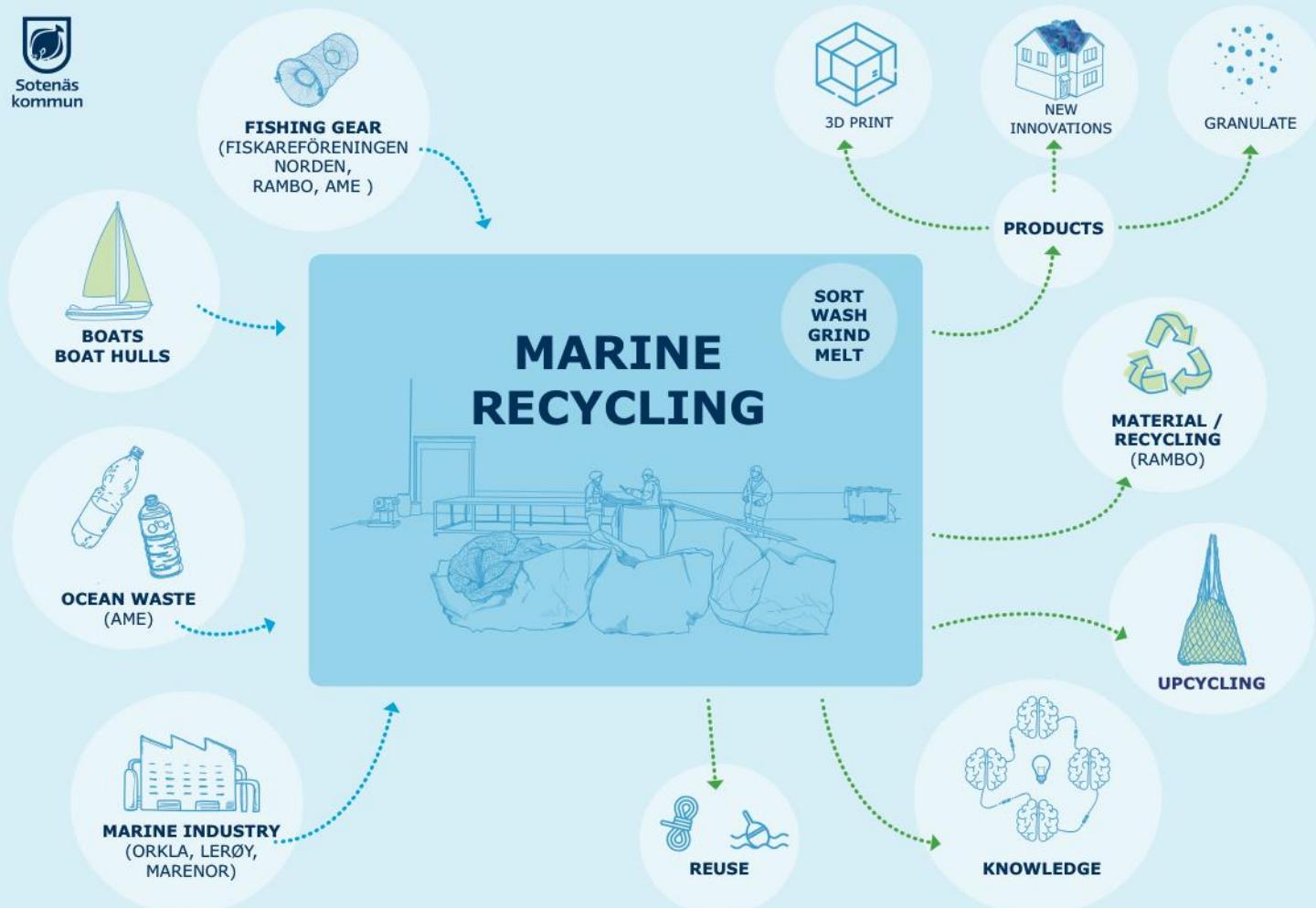
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- Current actors
- Upcoming actors
- Upcoming flows
- Actors linked to:
Testbed Aqua Symbios



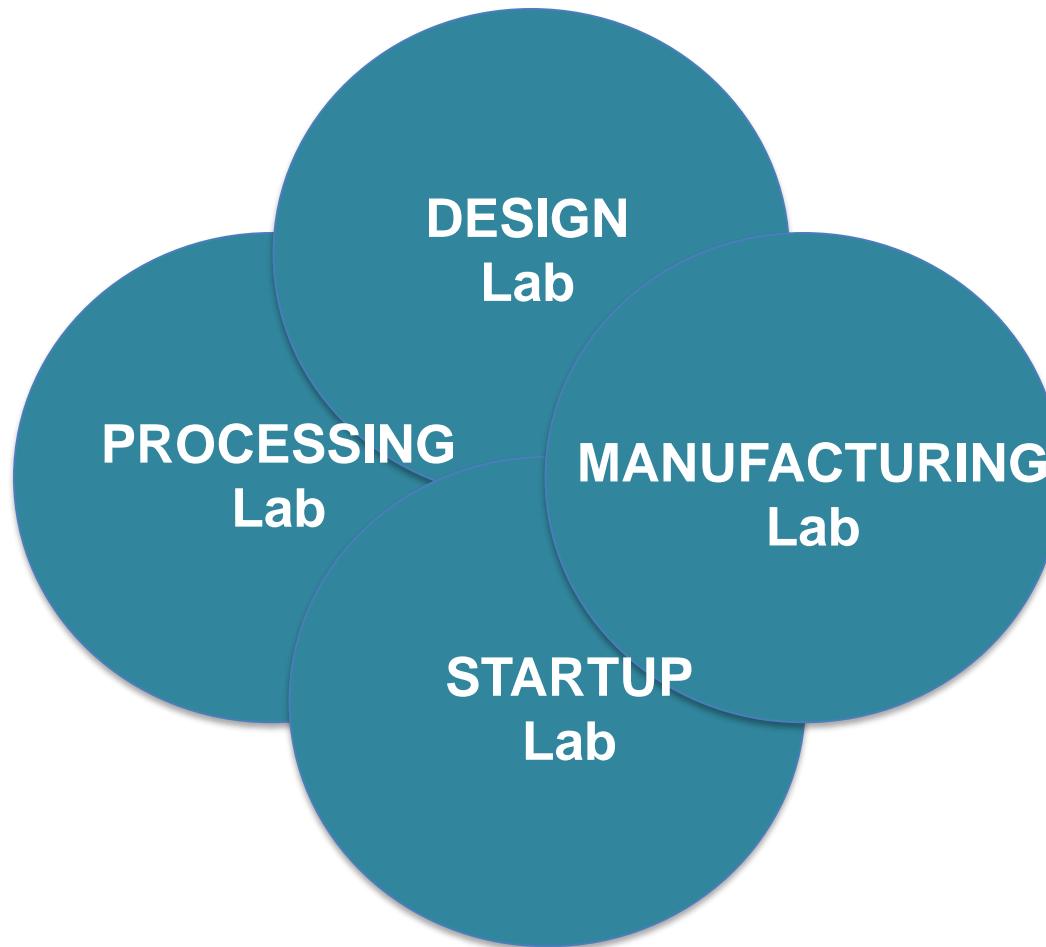


Sotenäs
kommun



BCE_Lab ©

Four Components



A photograph of a powerful ocean wave crashing towards the shore. The wave is white and frothy, contrasting with the deep blue of the surrounding water. The background shows a bright, slightly cloudy sky.

CREATE
YOUR
FUTURE

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Thank You



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