



PLASTIX

KLIMATORIUM
19 & 20 AUGUST 2020

Hans Axel Kristensen, CEO

Facts

- *The world has a growing problem: Plastic Waste*

+8,3Bn

Since 1950 around 8.3 billion tonnes of plastics have been produced globally- *HALF* of which in the last 13 years alone!

359M

In 2018 359 million tonnes of plastic have been produced globally, with 61 million metric tonnes produced in Europe alone

+400Mt.

This corresponds to approx. 400 million tonnes in CO₂ emission per year



Facts

- *Plastic Waste: A Detriment to our environment*

+15T

According to UN and WWF 15 metric tonnes of plastics are entering our seas and oceans every minute

+8M

Corresponding to 5-13 million tonnes of plastic waste seep into our environment and ocean every year

11%

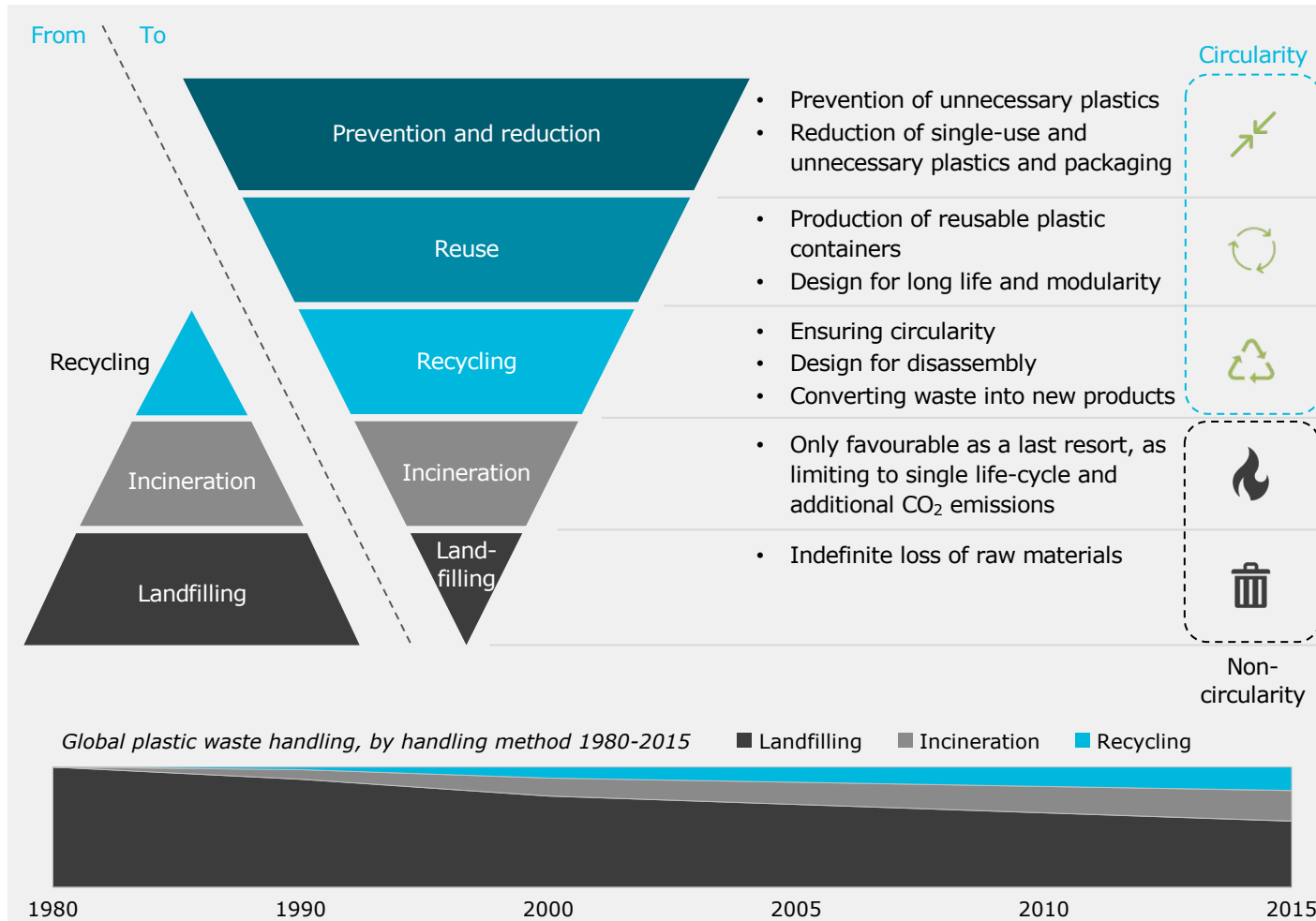
Around 11% of this plastic waste, stems from the maritime industry in the shape of fishing nets, trawls, ropes, and boxes

Paradigm Shift

FROM MAKE – USE – DISPOSE
TO REDUCE REUSE RECYCLE

(PRODUCER – FORBRUG – SMID VÆK)
(REDUCER – GENBRUG – GENANVEND)

A 21st century paradigm shift in handling of plastic waste induces circularity



Mission

Manufacturer “of Green Plastics”, mechanically recycling post-use maritime fibres, fishing nets and ropes into high quality raw plastics materials

Vision

Eradicating plastic pollution by enabling circular solutions for cleaner environments and cleaner oceans

*We strive to extend our limits by becoming both **a recycler** and **a polymer producer** for a true Circular Plastics Economy*

Current capacity 12.000 Mt/Y
with planned expansion to +40.000 Mt./Y

PLASTIX

WE WORK EVIDENCE BASED

More than +900 laboratory analysis in our database, growing day by day
ISO 9001 and 14001 Certified since January 2020



PLASTIX SOLUTIONS

- HELP YOUR COMPANY INTEGRATE GREEN PLASTICS –
- HELP YOUR COMPANY DESIGN FOR RECYCLABILITY -

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The Circular “New Plastics” Economy and the SDGs

- An innovation agenda and a tremendous business opportunity



Can Plastix save the world?

The short answer is yes. We have been called upon to be a part of the SDG Accelerator. Together with the other companies in the Accelerator and companies committed to the 17 Global Goals around the world, we will work towards achieving a better future for people and planet. We begin today.

Find more information about the Global Goals at www.sdg-accelerator.org/global-goals

THE WORLD'S MOST IMPORTANT PLAN!



“The UN was not created to take mankind to heaven, but to save humanity from hell”

- Dag Hammarskjöld -
Second UN Secretary-General



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Why we do it ...

...and why you should too

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From maritime waste... → ... to high-value Green Plastic pellets... → ... to new products

Recyclers must aim to produce the highest quality & ensure stable supply (= stable input)

FROM OUR "GREEN PLASTIC" YOU CAN PRODUCE:

INJECTION MOULDING
EXTRUSION
BLOW MOULDING
ROTO MOULDING
FILM EXTRUSION
FIBERS
3D PRINTING

ADJUSTING TO YOUR NEEDS:

COLOURS
FLOW INDEX
E-MODULUS
UV STABILITY
IMPACT RESISTANCE
ETC.

...FOR INNOVATIVE SOLUTIONS

Facts

- Barriers to using recyclates

ODOUR

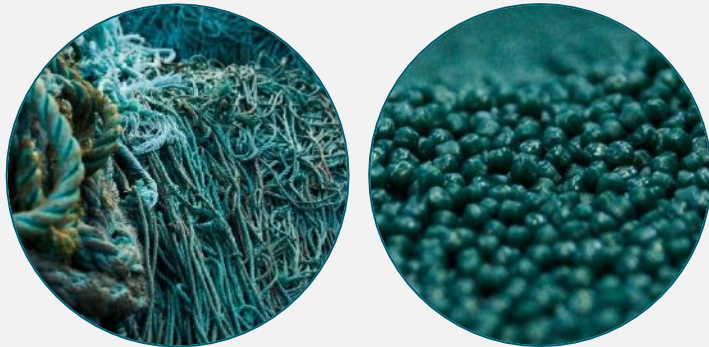
COLOUR

MECHANICAL
PROPERTIES

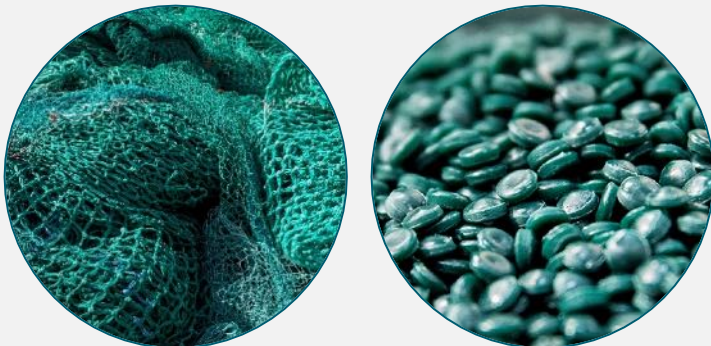


OceanIX is made of recycled post-consumer fibre materials from the maritime industry, such as fishing nets, ropes and trawls. The product of PLASTIX' mechanical recycling process, OceanIX pellets, are with a quality and application range on par with virgin plastic. OceanIX is available as rHDPE and rPPC*.

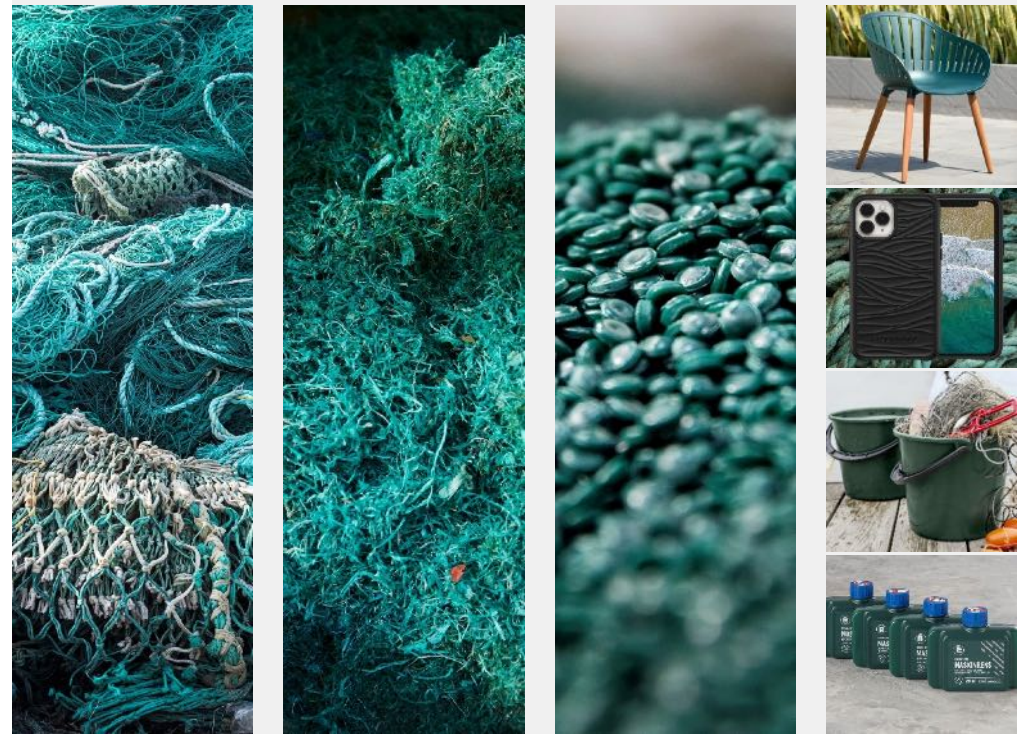
OceanIX rPPC – ropes from the maritime industry



OceanIX rHDPE – nets and trawls from the maritime industry



A STORY OF SUSTAINABILITY AND CIRCULAR ECONOMY



From maritime waste... ... to high-quality Green Plastic pellets... ... to new products

Note: *rPPC refers to a maritime industry common blend of PP and PE use to make maritime fishing gear. The PE is added to improve stability below freezing point. This material behaves and performs similar to a PP-copolymer during processing and in final products.

PLASTIX raw material can be used for a multitude of manufacturing processes and material modifications



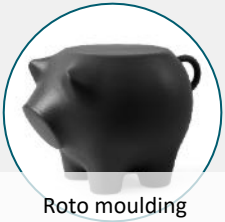
Injection moulding



Blow moulding



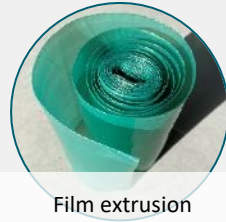
Extrusion



Roto moulding



Expanded PPC



Film extrusion



Freeform injection moulding



Fibres



Woven fibres



3D printing



Thermo Forming

PLASTIX' raw material can be used for a wide variety of product applications.

Further adjustments, allows PLASTIX to service customers in terms of colours, physical properties and other applications.

PLASTIX is moreover developing a modification of OceanIX to be applicable for food contact packaging, using food-safe Nano Technology.



Modification to TPE



Addition of Glass fibres

PLASTIX raw material can be coloured for a variety of applications



PLASTIX' Standard Products are available in Green, Green+, Mint, and Black.

We offer our customers a high degree of colourability to suit end-product needs.

A wider range of colours is available through our Limited Quantities products.



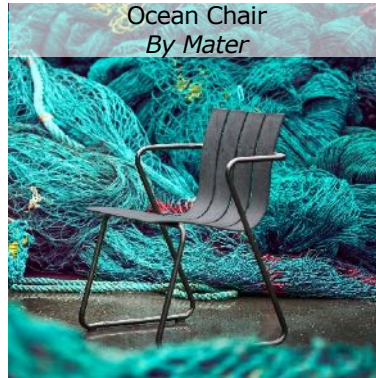
Selected End-Product Examples



R.U.M.
By Wehlers



WAKE
By Lifeproof



Ocean Chair
By Mater



Oceanis
By Araven



Ocean Reader
By iZettle



Meerschutzcreme
By prowinn



Fish Net Bucket
By Orthex



SIDEPIG
By Werkwaardig



August
By Fischer Lighting



KLP 2-Bench Picnic table
By Lankhorst



DuraOcean
By Scancom



Maskinrens
By Rema1000



BuddyBob
By BuddyBob



Ocean
By Fapil



Paradise Marine Recycled
By Odyssey Innovation

The UN SDGs and the Circular “New Plastics” Economy

WILL RADICALLY CHANGE THE WAY WE OPERATE OUR BUSINESSES ...

RECYCLERS

must ensure the **highest quality standards** for recycled polymers that they put up for sale on the market

CONVERTERS & BRAND OWNERS

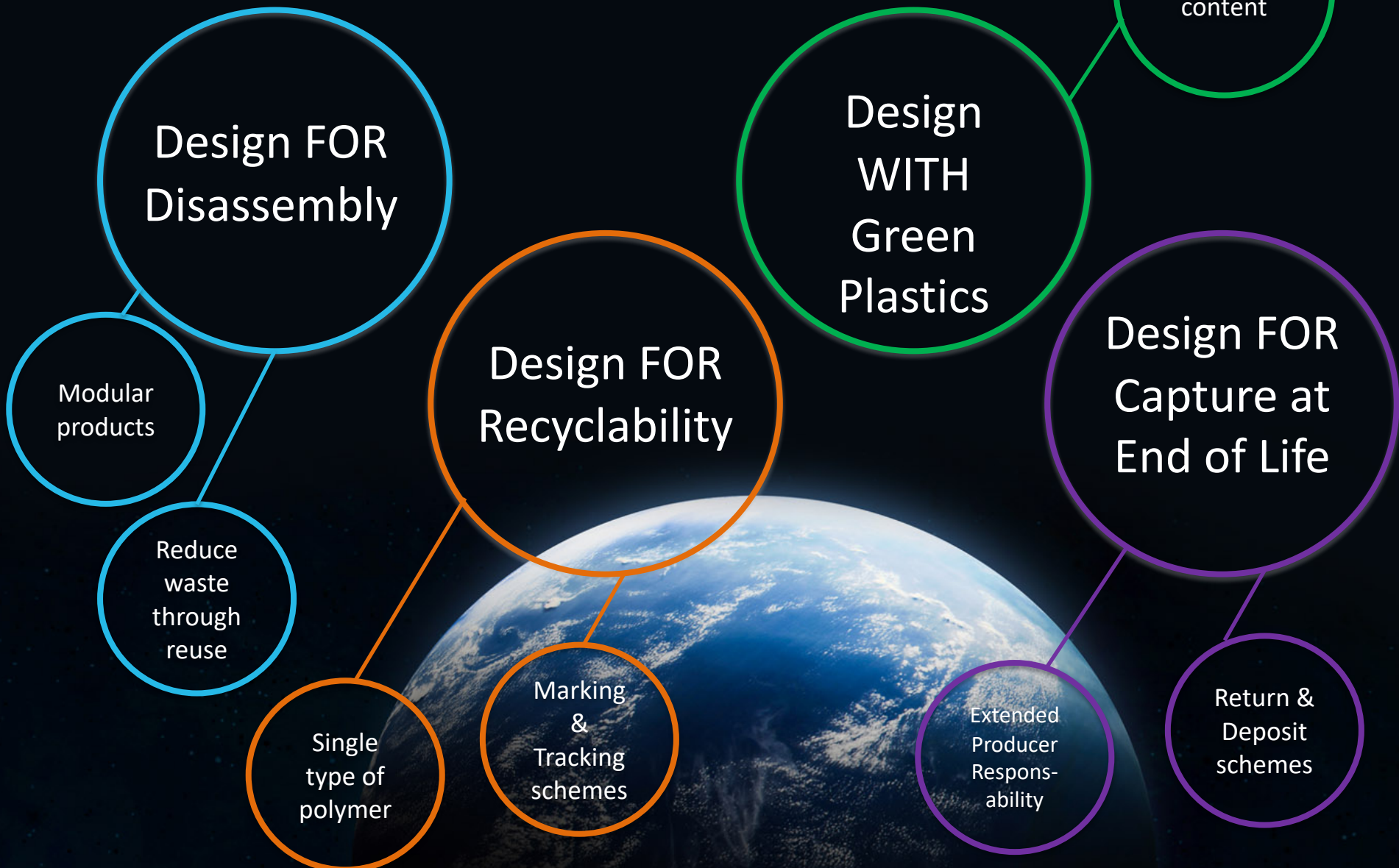
should **maximise** their effort to design easily-recyclable plastics articles
“License to Operate”

WASTE MANAGERS

must ensure that plastics wastes are **collected separately &** that the different polymers are **sorted/homogenized**

CONSUMERS *should be made aware of their responsibility in this endeavour* to maintain the value of plastics material: the way they dispose plastics has a spill-over effect on all following steps in the value-chain

Circularity - Four points for reflection



Legislation as an accelerator



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THANK YOU FOR YOUR KIND ATTENTION
Q&A

2020 · Hans Axel Kristensen, CEO