

PLASTIX - WHERE BLUE MEETS GREEN
Contributing to a more blue and green circular economy

Hans Axel Kristensen, CEO

***“Developing a circular economy of
fishing nets and ropes (FNRs) in Norway”***

**Circular Ocean Conference, Ålesund, Norway,
1-2 September 2016**

AGENDA

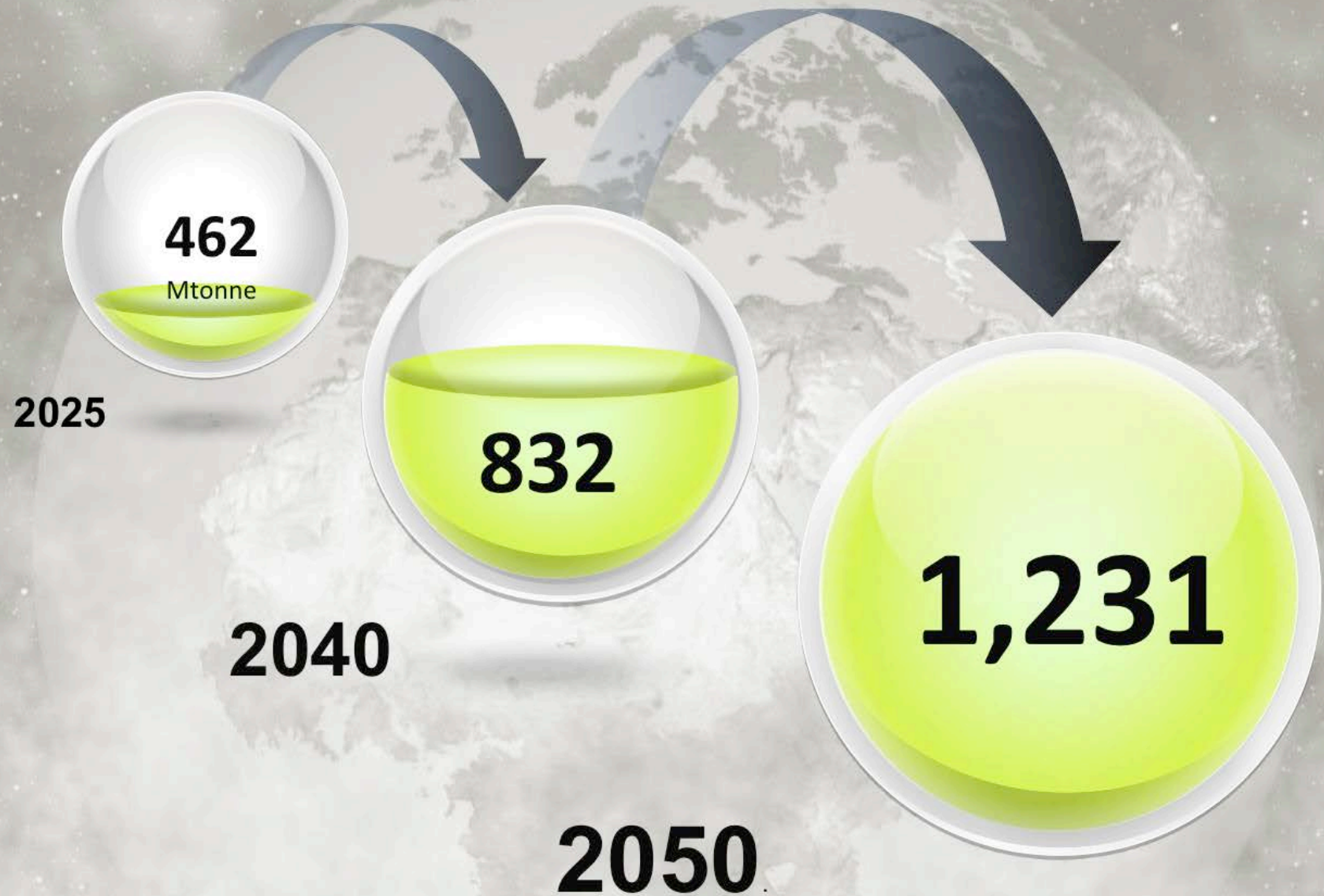
Why are we here?

Plastix at a glance

What challenges are ahead of us all?

Summary

Expected world plastics growth by 2050



Business as usual.... The future is here right now!!!

2016



2050



Carbon Countdown

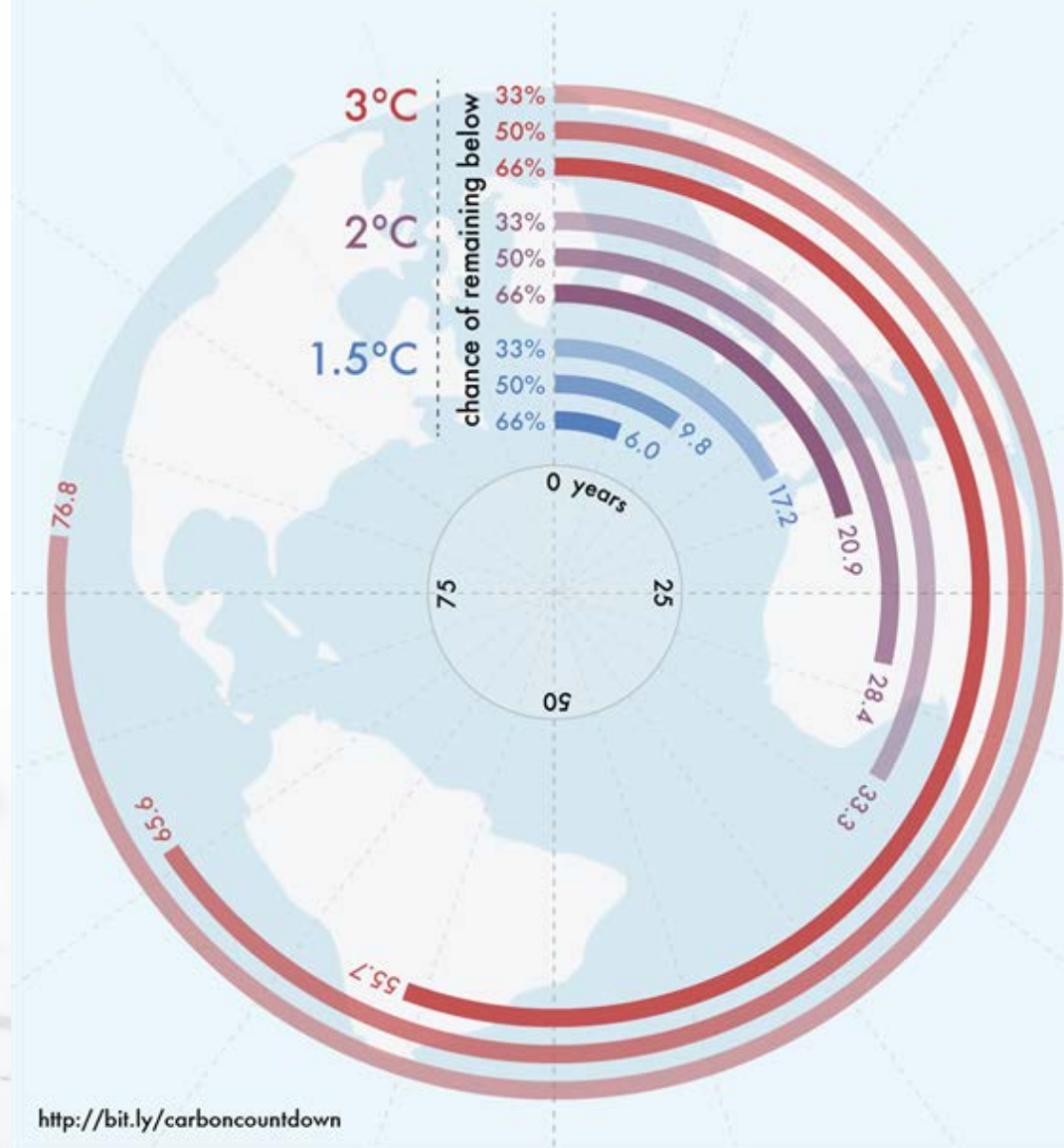
- It will take just six years of current emissions to exhaust a carbon budget that would give a good chance (°66%) of keeping global warming below 1.5°C, based on figures from the Intergovernmental Panel on Climate Change (IPCC).
- 21 years to remain below 2°C
- 3°C warmer in 2070

Source:

<https://www.carbonbrief.org/six-years-worth-of-current-emissions-would-blow-the-carbon-budget-for-1-5-degrees>

Carbon Countdown

How many years of current emissions would use up the IPCC's carbon budgets for different levels of warming?



ECO INNOVATION PROJECT PARTNERS

PLASTIX
FROM NET TO RAW MATERIALS



A co-creative
partnership
between

reTRAWL
eco-innovation

Plastix has been co-funded by the European Union within the CIP **Eco-Innovation** initiative of the Competitiveness and Innovation Framework Programme (CIP) through the **Retrawl** project, which formally ended 1 August 2016

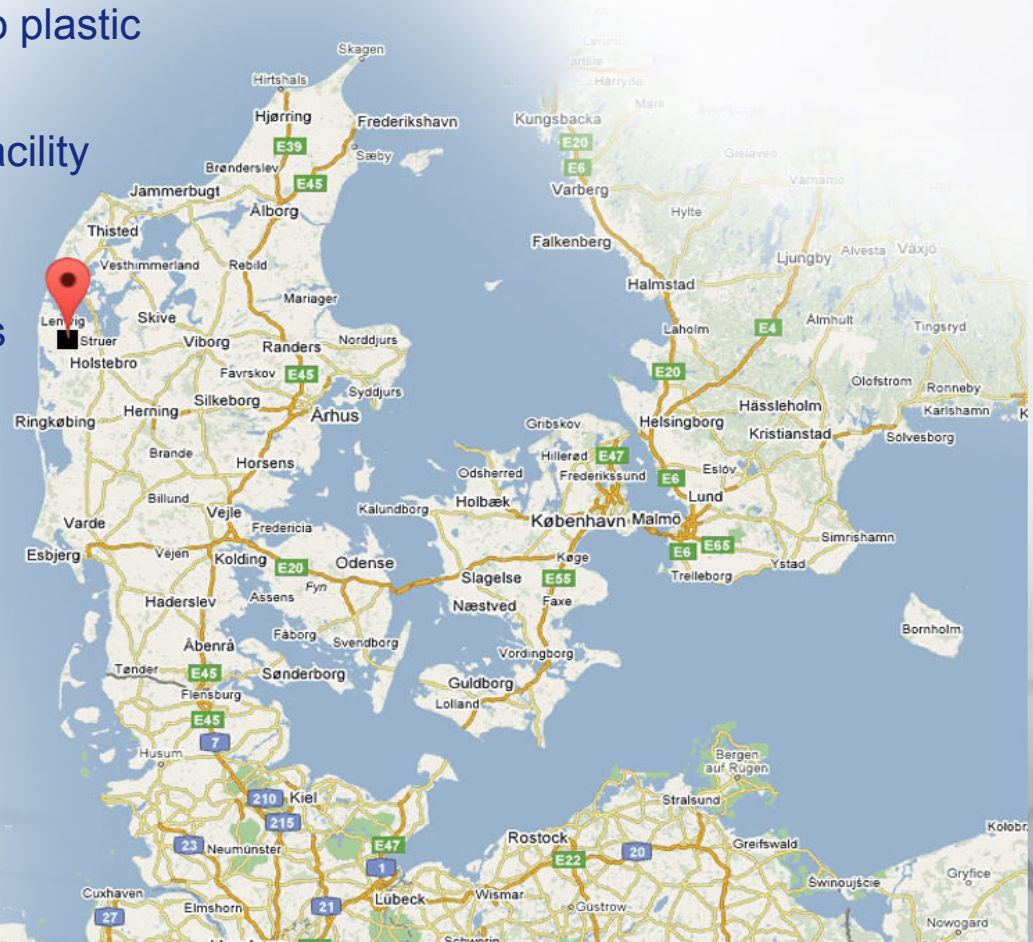
Plastix
GreenWavePlastics
Uddeholm
EFD Induction
JJ Chicolino



Co-funded by the Eco-innovation
Initiative of the European Union

Pioneer clean-tech company

- **Plastix's Mission**
We transform fishing nets and trawls into plastic raw materials
- **Plastix** is a registered waste treatment facility of non-hazardous waste
- **Plastix** has all necessary environmental permits for operating a recycling plant as well as recycling plastic production plant
- **Plastix** employs 30 employees
- Planned capacity: 25.000 t/y
- **Plastix's Vision**
We provide sustainable solutions to the maritime industry for cleaner environments and oceans



Plastix works with four strategic focus areas based on four core capabilities

Strategic focus areas

Expand leadership in recycling of used fishing net

Establish leadership in recycling of aqua farming nets

Establish leadership in recycling of Ghost nets

Expand Plastix's technologies globally

Core capabilities

Engineering, co-creating, and developing technology solutions and processes

Efficient large scale production

Planning and executing optimization processes, new sorting and cleaning solutions and delivering high quality plastic, raw materials

Building and maintaining a leading position in emerging plastic recycling markets

The Plastix Way

Setup, Processes & Effect



Reducing

- Landfilling
- Marine Pollution
- CO2 Emissions
- Loss of valuable resources

Co-Creative Partnerships



HAPPY SEAL PARTNERSHIP PROJECT

MULTI STAKEHOLDER PREVENTIVE FISHING GEAR COLLECTION SCHEME



Incentives



PLASTIX - WHERE BLUE MEETS GREEN

Plastix documents and quality assures all process steps!

Plastix's Lab is equipped with all required instruments for delivering Technical Data Sheets.

- Test of each production batch on a number of mechanical properties: tensile strength, elongation to break, assess compliance with company data sheets
- Next to standard grades, Plastix will co-create a growing number of tailor made special grades with several of its customers
- Identification: FTIR, DSC
- Mechanical properties: tensile strength, elongation to break
- Rheological properties: MFI
- Grain size
- Technical Data Sheets
- REACH compliance



WHAT CHALLENGES ARE AHEAD OF US ALL?

What is recycling?

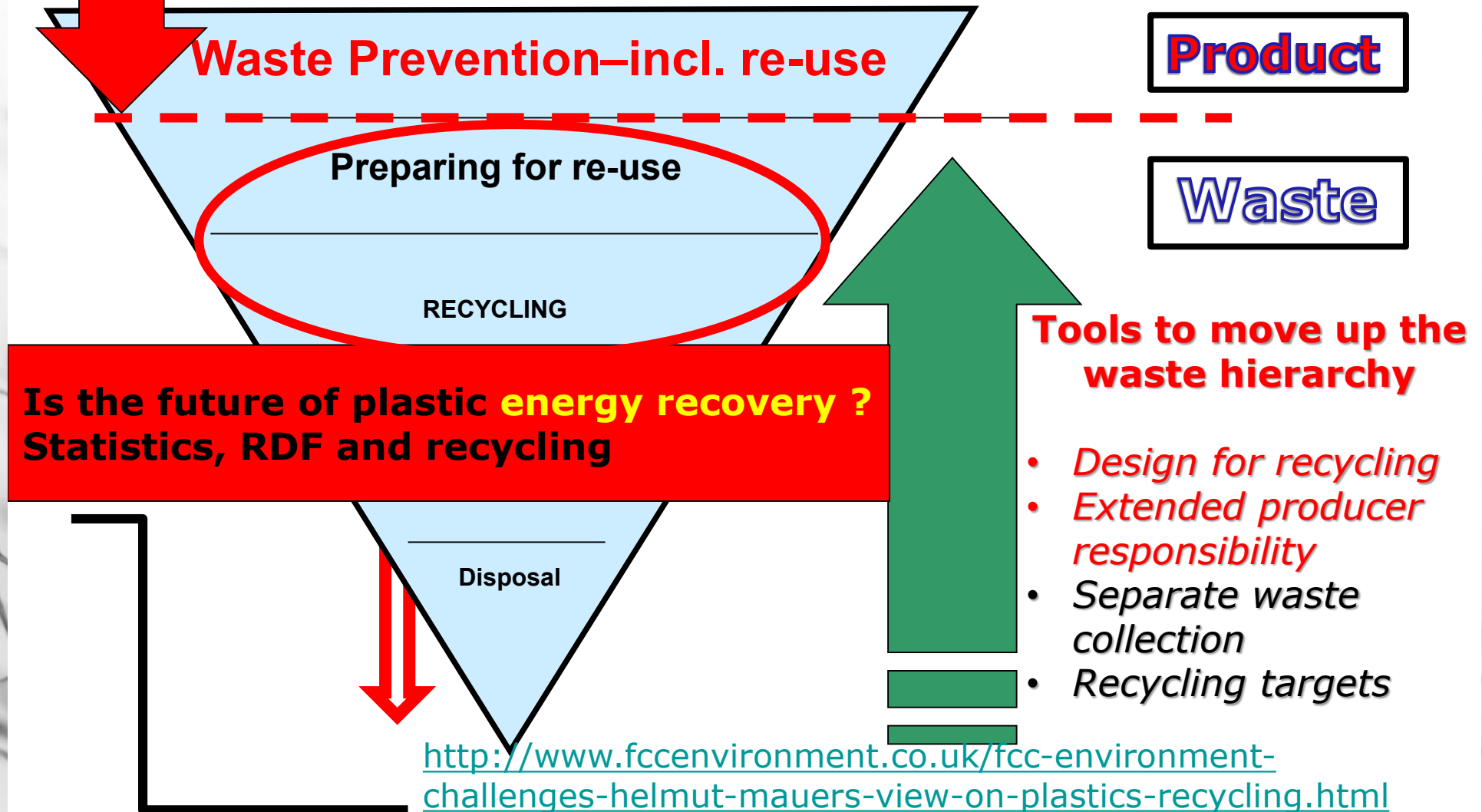
(Definition in the Waste Framework Directive 2008/98/EC)

Recycling means any recovery operation by which waste materials are reprocessed into products, materials or substances whether for the original or other purposes.

It includes the reprocessing of organic material but does **not include** energy recovery and the reprocessing into material that are to be used as fuels or for backfilling operations.

Hence:

Collection, logistics, sorting and “recovery” is **clearly not recycling**



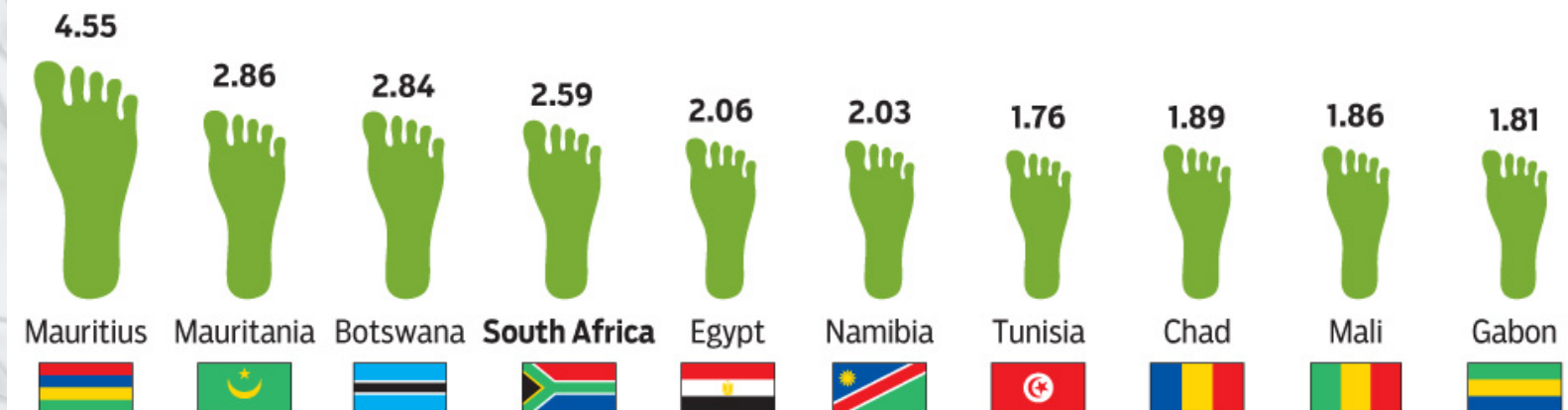
To meet the EU 2030 targets for a Circular Economy

- ➔ **Stop Landfilling** (Too much plastic ends in landfills)
- ➔ Operational Tool No. “1” = **Separate Collection**
- ➔ **PAYT Schemes** (Pay As You Throw) proven to give highest yield = Boost to sorting technology
(Flat rate charge the worst / DK, SE & NO = Fixed Fee + PAYT)
- ➔ **Do Not** give incineration of recyclables **any** chance
- ➔ **Design** for Recycling
- ➔ Extended **Producer Responsibility** (Deposit and/or return systems)
- ➔ **Enforce** Recycling Targets
(Ambitious goals, regulations, separate collection, deposit and return systems)

Top 10 countries with the biggest ecological footprint per person



Top 10 African countries with the biggest ecological footprint per person



* United Arab Emirates

Source: WWF

Graphics24

THANK YOU FOR YOUR ATTENTION!

PLASTIX FILM

shown 8 June at UNEP Conference in New York on The Global Ghost Gear Initiative
- Protecting Oceans and Marine Animals

Link to film:

[https://youtu.be/Gw0__9orQsQ?
list=PLTPavHdpLFTnvQtSdhBxjNsdUTmxbu8Es](https://youtu.be/Gw0__9orQsQ?list=PLTPavHdpLFTnvQtSdhBxjNsdUTmxbu8Es)

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QUESTIONS

