

This project has received fundings from the European Union's Horizon 2020 research and innovation programme under grant agreement No: 101138013





AMBITIE EN TRANSITIE





Wouter Scheepens: Je hebt wetten nodig om duurzame bedrijven de wind in de zeilen te geven

Hoe is het mogelijk dat Nederland een circulaire economie wil en tegelijk dat ivederland een circulane laat gaan? Bedrijven die oplossingen bieden, hebben meer steun nodig', zegt Wouter Scheepens van MVO

TRATEN De Bie Buitenwerk zet met roadprinter in op emissieloos werken

'Steentje bijdragen aan duurzaamheid'

Als we zo doorgaan, is de economie in 2050 bij lange na niet circulair

De energietransinabaa

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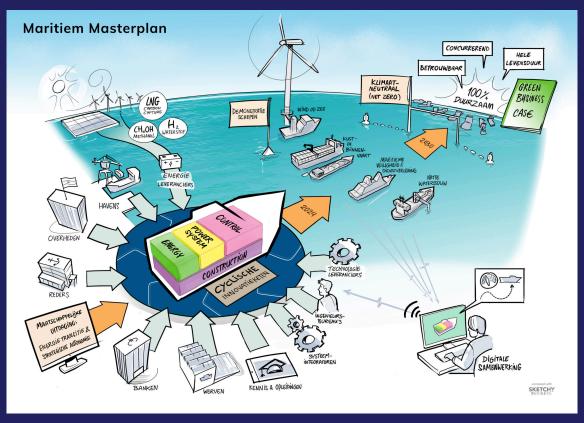
AMBITIE EN TRANSITIE MARITIEM



De Nederlandse Maritieme Strategie









EXTERNAL & INTERNAL DRIVERS



2020

2030

2050



20% reduction of GHG emissions compared to 1990

20% renewable energy

20% reduction primary energy usage

55% reduction of GHG emissions compared to 1989 (Fit for 55 package) ERN

7% renewable energy

32,5% reduction energy usage

Climate neutral economy

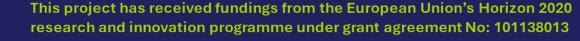
Circular economy



40% carbon intensity reduction of all ships

70% carson intensity reduction of all

50% reduce GHG emissions from international shipping to the total annual GHG emissions to 2008









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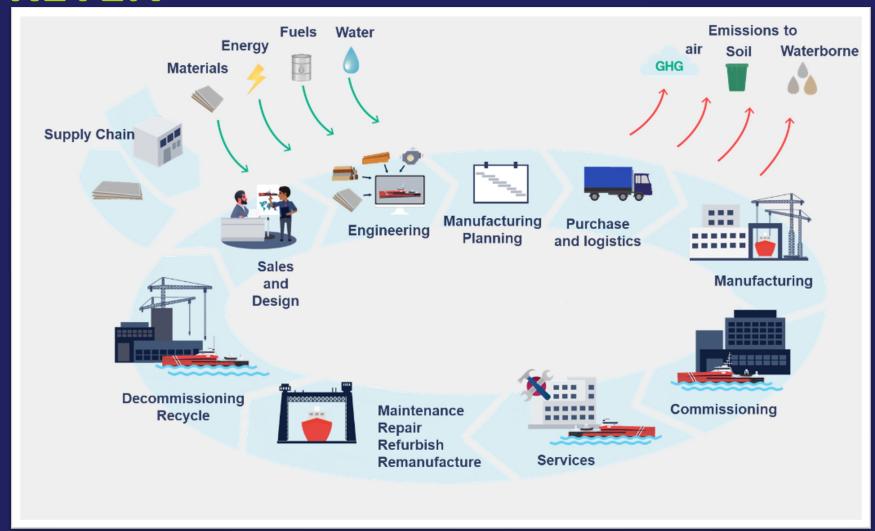




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KETEN

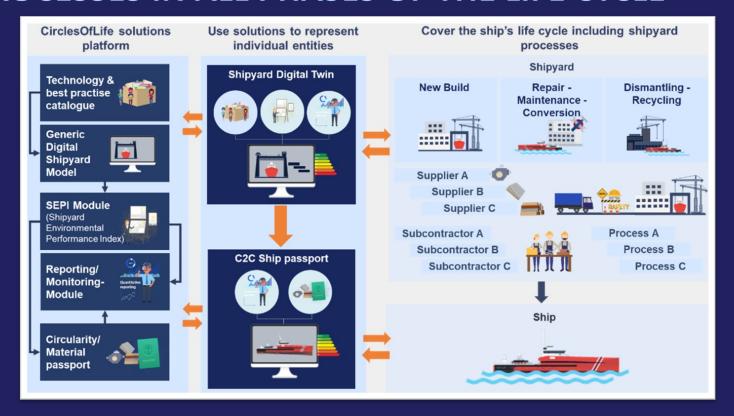




CIRCLES OF LIFE



ENHANCING MATERIAL CIRCULARITY AND LOWER EMISSIONS OF SHIP BUILDING PROCESSES IN ALL PHASES OF THE LIFE CYCLE





CRADLE 2 CRADLE SHIP PASPORT









Circular Readiness level Product design Product-service system End-of-life management Closing the loop



COMPONENT X



Resource inflow

- The overall total weight of products and materials;
- The weight in absolute value & percentage of renewable input materials from regenerative sources used (including packaging);
- The weight in both absolute value & percentage of reused or recycled products and materials (non-virgin)

Based on draft ESRS

Resource outflow

- Material resource outflows, including waste and hazardous materials;
- Durability;
- Reusability;
- Repairability;
- Disassembly;
- Remanufacturing or refurbishment;
- Recycling;
- Recirculation by the biological cycle;
- Other potential optimisation of product and material use;

ESRS

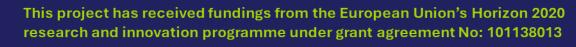
E1 Climate change

E2 Pollution

E3 Water & marine resources

E4 Biodiversity & Ecosystems

E5 Resource & Circular economy





SEPI FRAMEWORK AND DIGITAL SHIP of Life MODEL

- Based on existing standards such as ISO 14000 series
- Green Marine Europe







11 PERFORMANCE INDICATORS



Ship owners



Shipyards





AQUATIC INVASIVE SPECIES



COMMUNITY IMPACTS



COMMUNITY RELATIONS



GREENHOUSE GAS EMISSIONS



POLLUTANT AIR EMISSIONS NOX



POLLUTANT AIR EMISSIONS SOX & PM



OILY DISCHARGE



SHIP RECYCLING



SPILL PREVENTION AND STORMWATER MANAGEMENT



UNDERWATER NOISE



WASTE MANAGEMENT

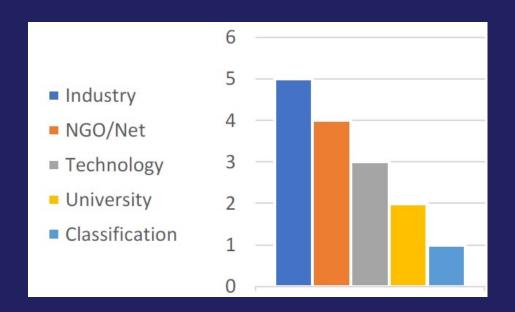






PARTNERS











HARTELIJK DANK VOOR JULLIE AANDACHT!



Voor meer informatie: www.circles-of-life.eu

