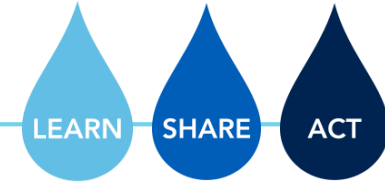


Race For Water

Plastic waste as new resource for energy transition

Race for Water

Foundation vision, mission and programs



MISSION

Stop the exponential trend of wild plastic waste reaching waterways by developing new social and economic models that gives end-of-life plastics a value.



Contribute to the advancement of **scientific knowledge on plastic pollution in water**



Alert decision-makers, **raise awareness** among the general public and **educate** younger generations



Promote and implement **sustainable solutions with significant social impacts**

Program ACT

Strong focus on our mission



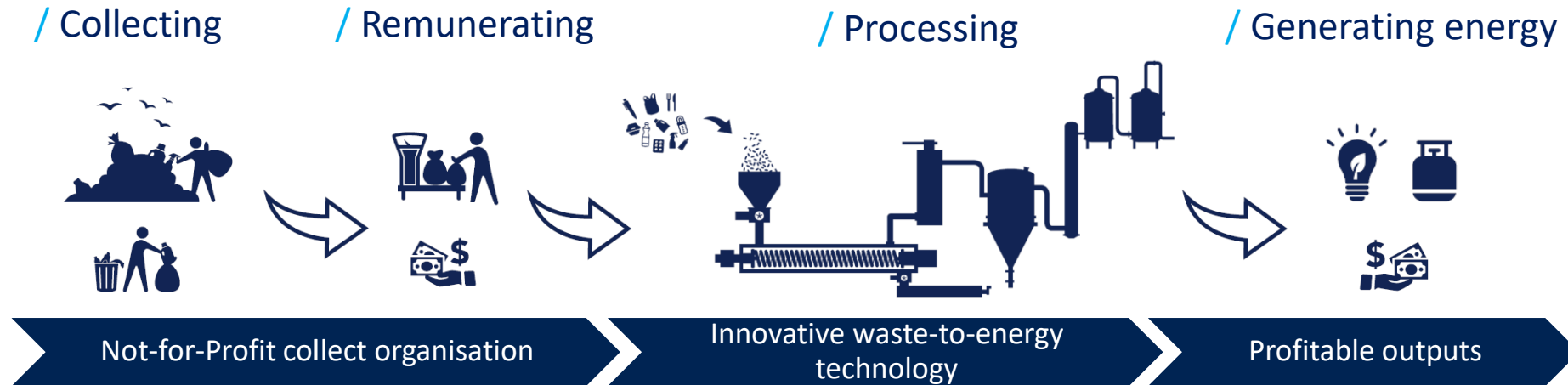
Stop the exponential trend of wild plastic waste reaching waterways by developing new social and economic models that gives end-of-life plastics a value.



Action plan

Implement a value chain for plastic waste

ACT



/ ENVIRONMENTAL OUTCOMES

/ ECONOMIC VALUE CREATION

/ SOCIAL IMPACTS

Technological Partnership with ETIA

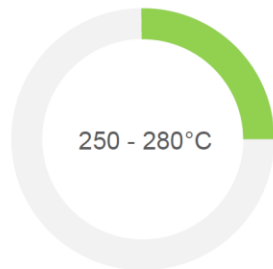
Plastic waste to energy



ACT

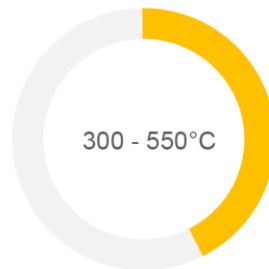
- / French engineering company founded in 1989
- / Specialized in innovation, **equipment & processes for continuous thermal treatment** for divided product
- / According to feedstock & operating conditions, can produce solid, liquid, gas fractions

Thermochemical conversion – range of applications



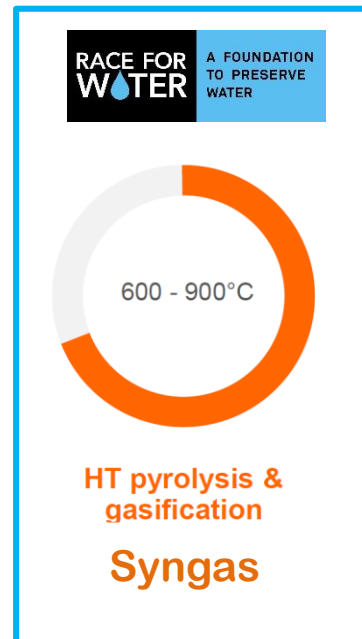
torrefaction

Biocoal



MT pyrolysis

Bio-oil
Biochar

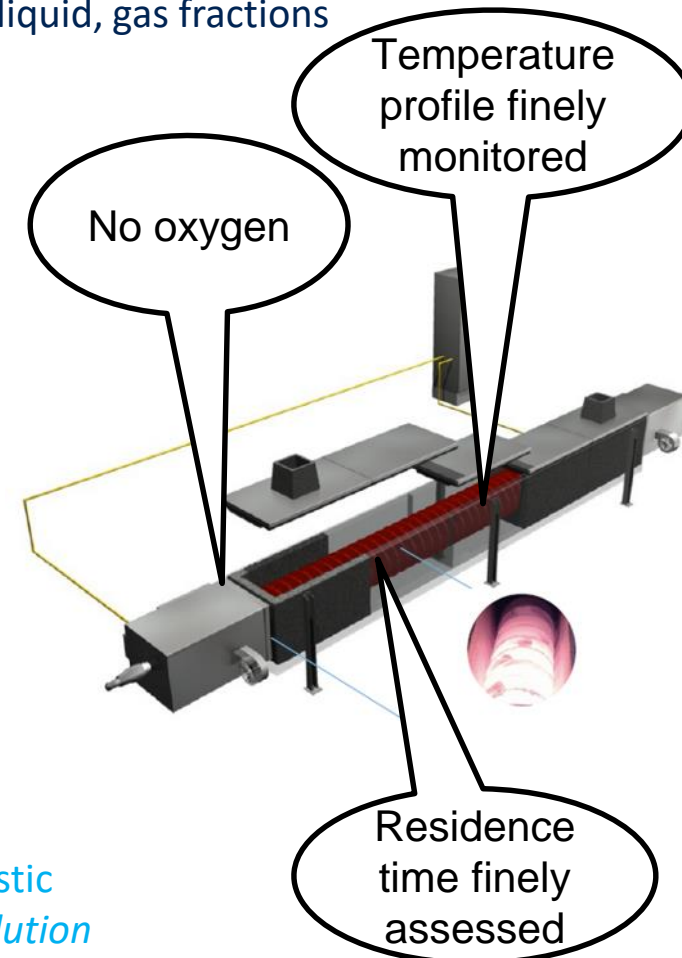


HT pyrolysis &
gasification

Syngas

Biogreen® by ETIA

- / Accept mix types of plastic
- / *Compact, local scale solution*
- / *Economical and easy to maintain*



Pilot Project toward scalability

Demonstration plant starting from Q3-2018 in Netherlands

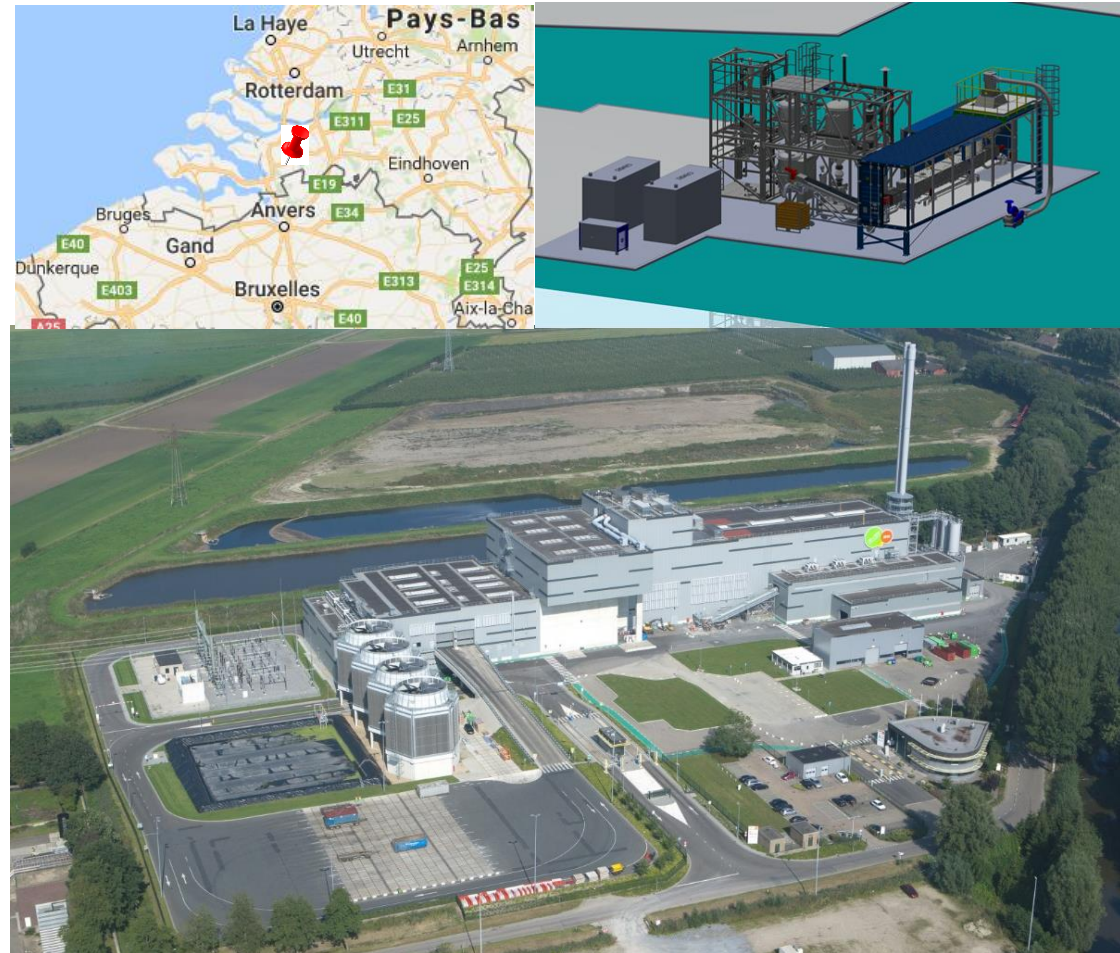
ACT

/ Why choosing ReENERGY unit at Roosendaal (Netherlands)

- Ability to contract at least a 6 month permitting period
- Compliant with “innovation”
- Having thermo-chemical competencies (technician, engineer)
- Site capabilities to make the project “workable” and “visible” for stakeholders

/ Why doing a DEMO TEST

- Increase the return of experience on flows of interest for Race4Water
- Validate key Performance Indicators from a large range of plastic fuels



Foremost proof of concepts projects (PoC)

On site validation of the value chain

DOMINICAN REPUBLIC
«Nuevo Domingo Savio» Project



EASTER ISLAND
Eco Park Project



PERU
Lima



Dominican Republic

Integrate project «Nuevo Domingo Savio»

ACT

Take part of the President's initiative to rehabilitate the Domingo Savio district in Santo Domingo (SD).

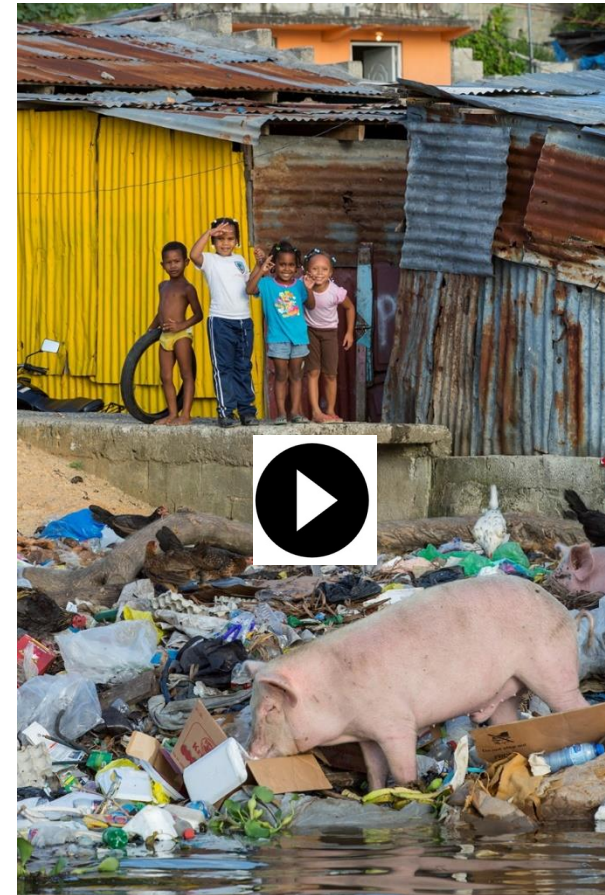
/ Domingo Savio district state

- Poorest district in SD situated along the Ozama river
- Highest density : 60k to 85k people in 102,5 HA
- 12k informal houses
- Deteriorated roads and water streams
- Lack of infrastructures
- Average salary : 110 US\$/month

/ «Nuevo Domingo Savio» project key objectives

- Restructuring of infrastructure system (road network, water, waste, sanitation)
- Restructuring of the removal of flood-prone homes on the Ozama River replaced by a park & avenue
- Installation of schools, equipment, services and public spaces

Extract from «Santo Domingo Paradigm»
Video clip



Easter Island

Collaborate with Eco Park Project

ACT

/ Key facts

- 6 000 inhabitants
- 100 000 tourists annually
- Isolated island

/ Waste management status

- Most of unsorted waste (over 4,500 tons forecasted 2019) goes to the local landfill with no treatment
- Only 300 tons of recyclables (PET, paper/cardboard, glass, steel, aluminum & TetraPak®) are collected & stored
- 50 tons of marine debris picked up by hand every year

/ Main consequences

- Pollution of the groundwater (freshwater)
- Winds blowing the waste back into the water
- Constant increase of landfill surface

/ Electricity market

- Consumption price : 300€/MWh



Easter Island

Collaborate with Eco Park on-going Project

ACT

/ Eco Park

- Waste collection, sorting and treatment site

/ R4W Objectives

- Provide a technical solution to treat plastic waste
- Supply energy for local consumption

/ 2018 Program

- R4WO back on the island in September 2018

/ Strength

- Strong collaboration with the Rapa Nui community & Eco Park project management
- Large impact on local environmental issues





Help us preserve the most precious resource !