



eLECTRO

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AristEng
Greenergize your process!



benkei
stratégie • innovation • développement

COOLBROOK[®]



GHENT UNIVERSITY
GLOBAL CAMPUS

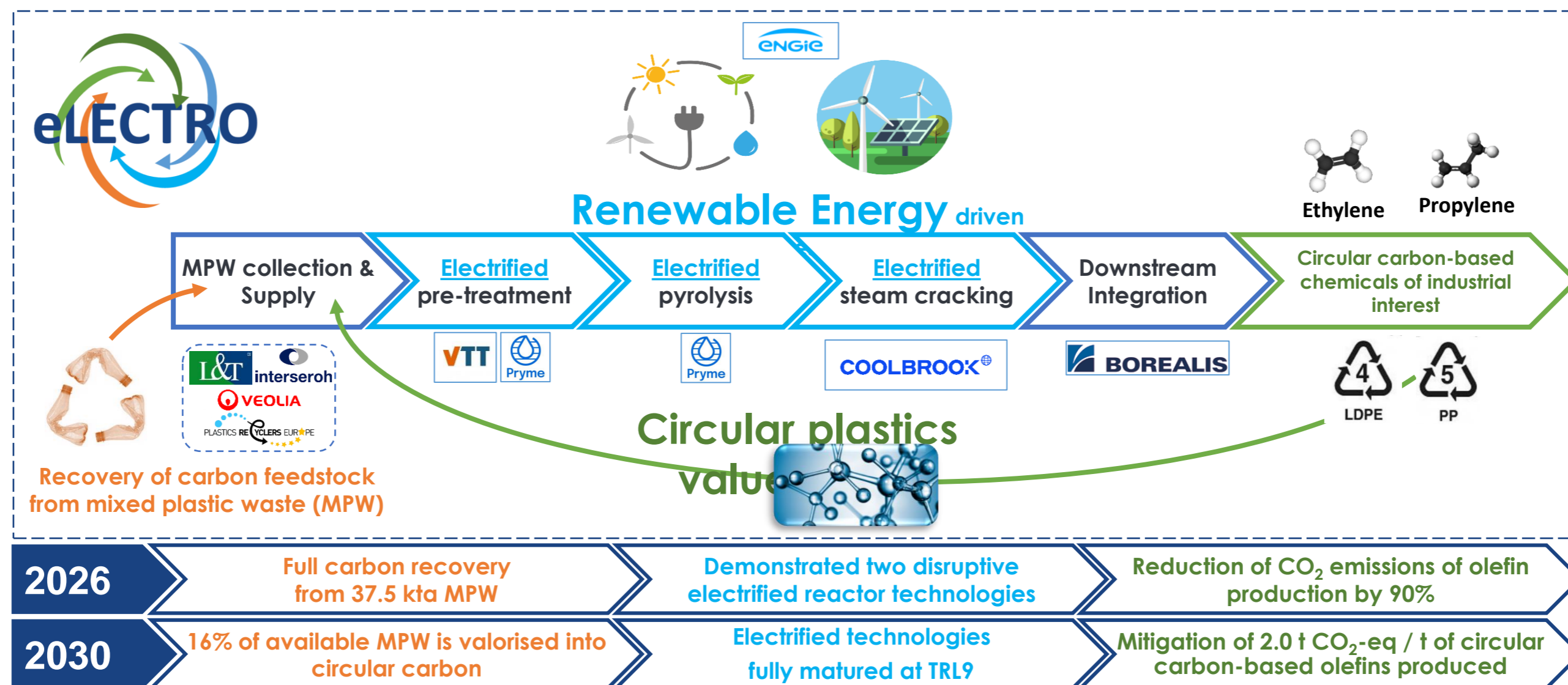


POLITECNICO
MILANO 1863



eLECTRO objectives

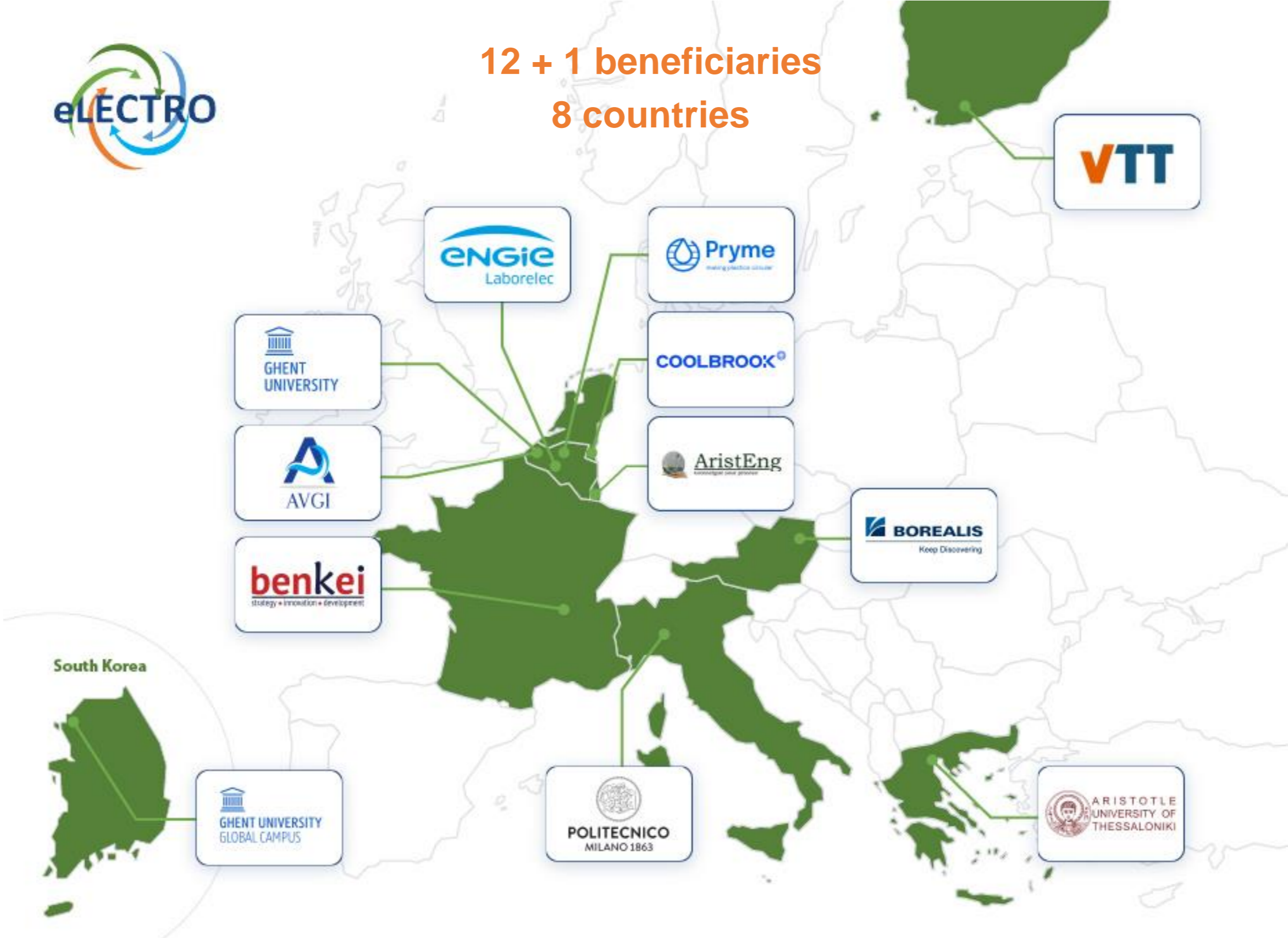
Demonstrate a **revolutionary technology concept** that links the **waste and petrochemical industry** and provides them with a sustainable, low GHG footprint and scalable circular solution for **olefin and polyolefin production**.



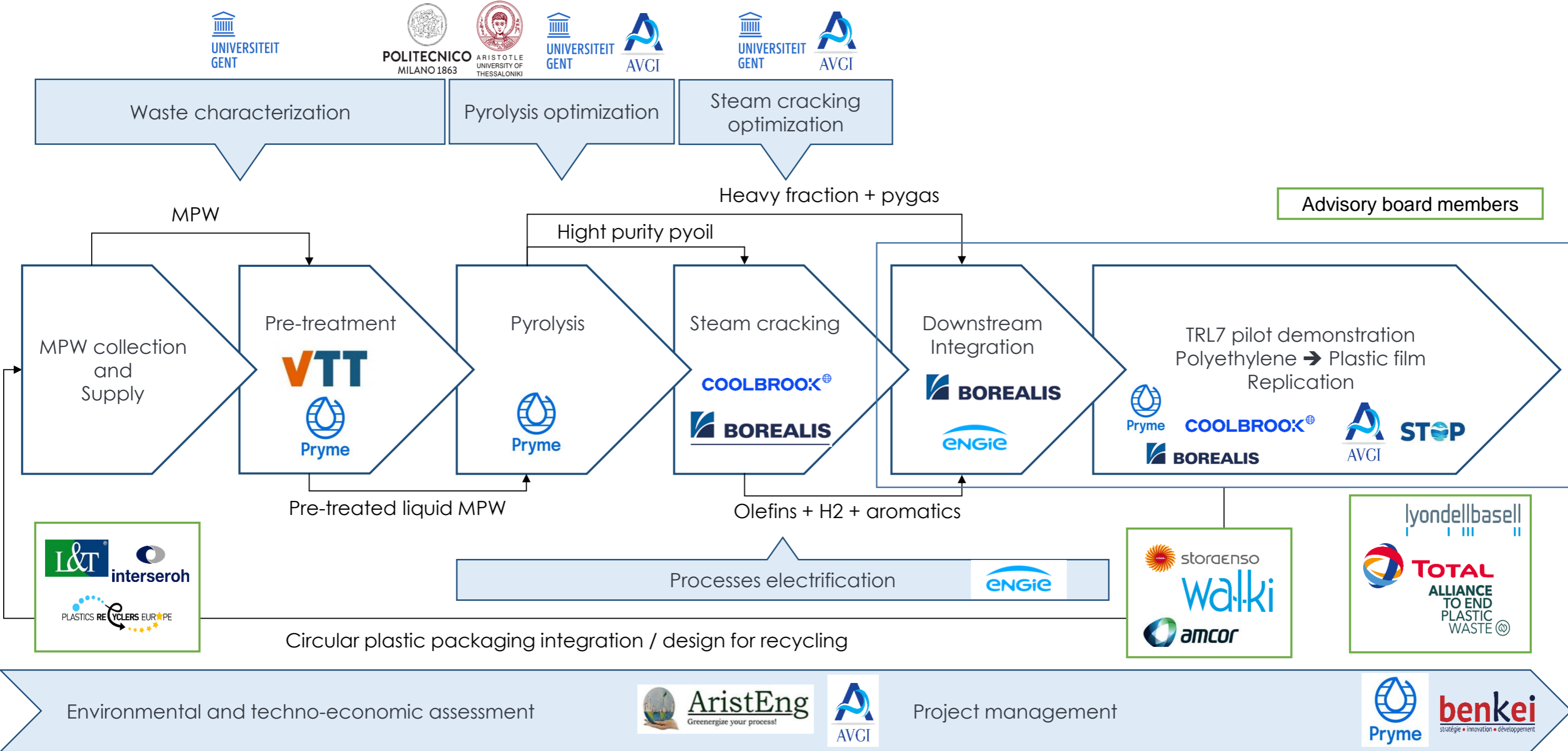
Consortium



12 + 1 beneficiaries
8 countries



Consortium value chain

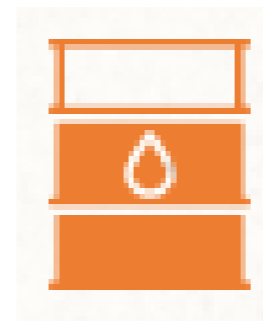


4 ambitions



Valorise a wide variety & large volumes of unsorted plastic

(> 50 kta plant size) by connecting a **two-step extrusion pre-treatment to electrified conversion** of high-purity py-oils



High value olefin

(ethylene and polyethylene) production from full range **pyrolysis oil**



Enabling electrification

100% utilization of **Energy Sources (RES)**

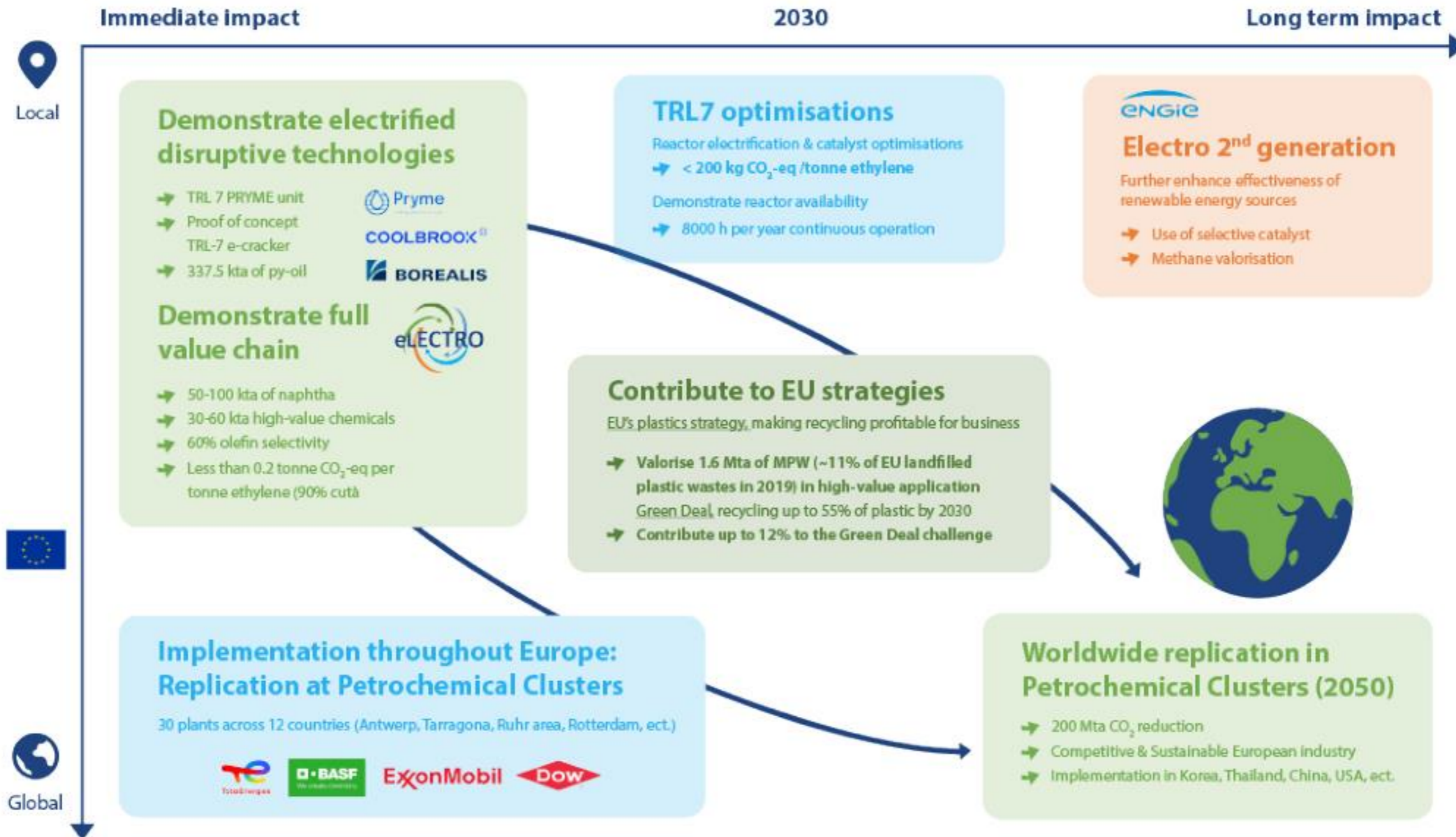
Renewable



Up to 90% reduction of GHG emissions

in the overall lifecycle of polyolefins

Impact



Acknowledgements



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