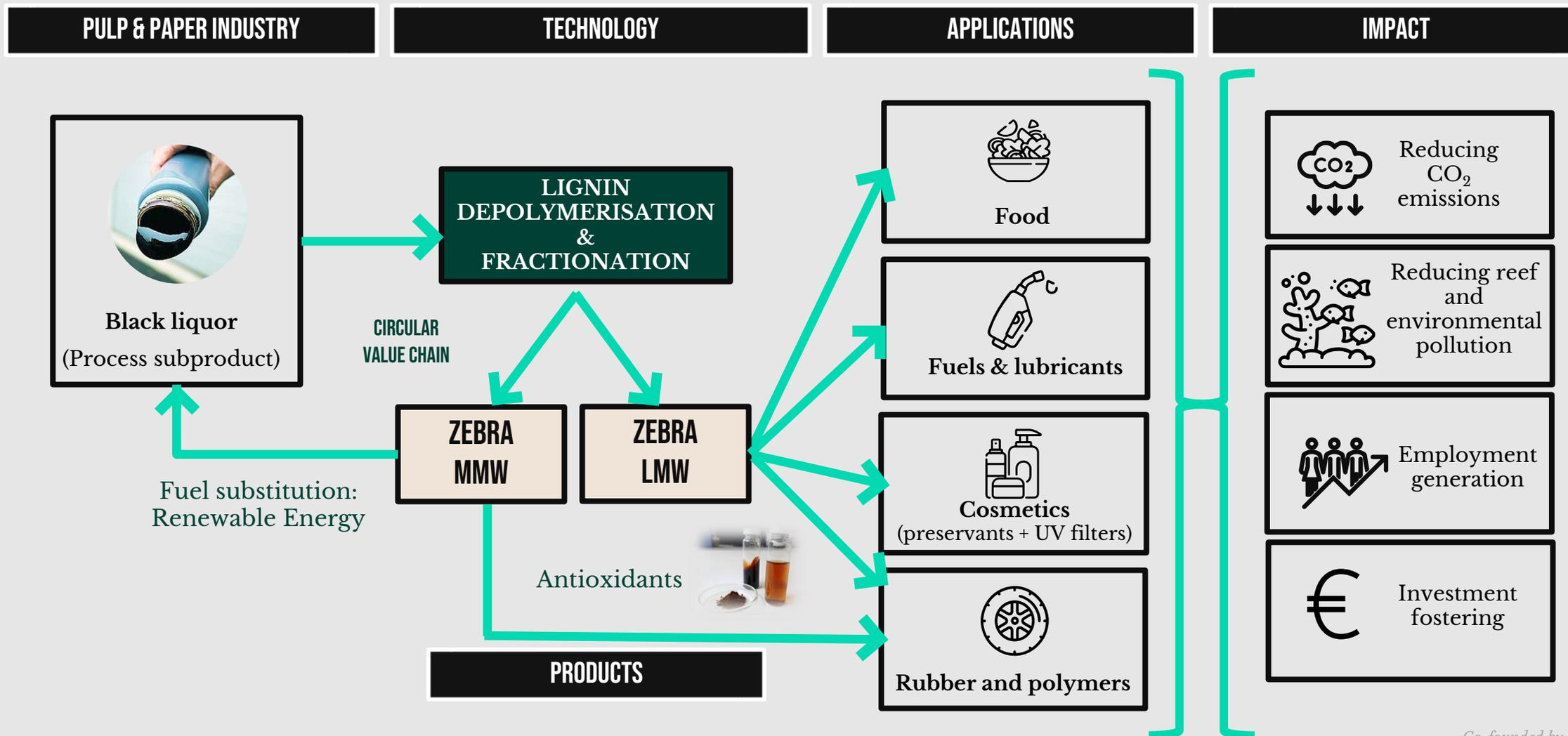


# ZERO EMISSION BIOCHEMICAL AND RENEWABLE ADDITIVES

# ZEBRA LIFE



# ZEBRA-LIFE PROJECT



# ZEBRA-LIFE CONSORTIUM

PULP & PAPER INDUSTRY

TECHNOLOGY

APPLICATIONS

IMPACT



# ZEBRA-LIFE MAIN OBJECTIVE

Produce sustainable lignin-derived bio-aromatics for the food, cosmetics, rubber, polymer, fuel and lubricants, industries.



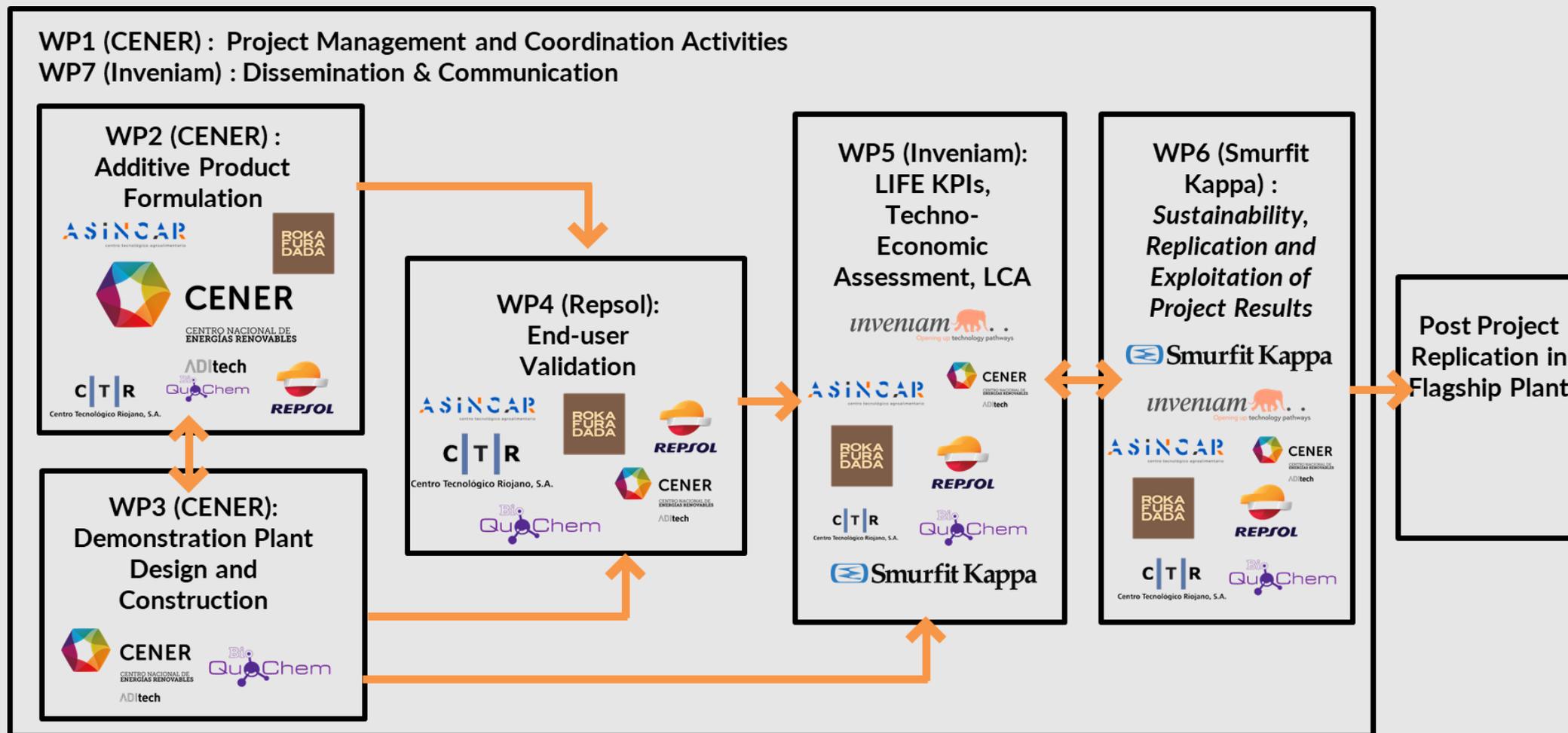
# ZEBRA-LIFE SPECIFIC OBJECTIVES

- S01** Renewable bio-aromatics formulation optimized for cosmetics, food, fuels and lubricants and rubber applications.
- S02** Demonstration of online monitoring of antioxidant capacity during production process
- S03** Construction and operation of ZEBRA-LIFE Pilot plant.
- S04** ZEBRA-products ready to be used as ingredient at pilot scale for different selected applications
- S05** Demonstrate that ZEBRA-LIFE has a significant environmental impact in the EU circular economy.
- S06** Confirm economic feasibility and sustainability of the ZEBRA-LIFE processes and final applications.
- S07** ZEBRA-LIFE processes and final applications ready to be scaled up.
- S08** Relevant stakeholders' awareness of the beneficial impact offered by ZEBRA-LIFE

## ZEBRA-LIFE EXPECTED IMPACTS

- **Protect and improve the quality of the environment and the marine ecosystem**
- **Promote the development, commercialization, and uptake of safe and sustainable-by-design substances, materials, and products**
- **Develop a circular value chain to valorize residues from the pulp and paper industry, fostering industrial symbiosis between EU industrial sectors.**

# PROJECT IMPLEMENTATION



# THANK YOU



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