



+ RECYCALYSE -

New sustainable and recyclable catalytic materials
for proton exchange membrane electrolyzers



DANISH
TECHNOLOGICAL
INSTITUTE

 Sustainable
INNOVATIONS



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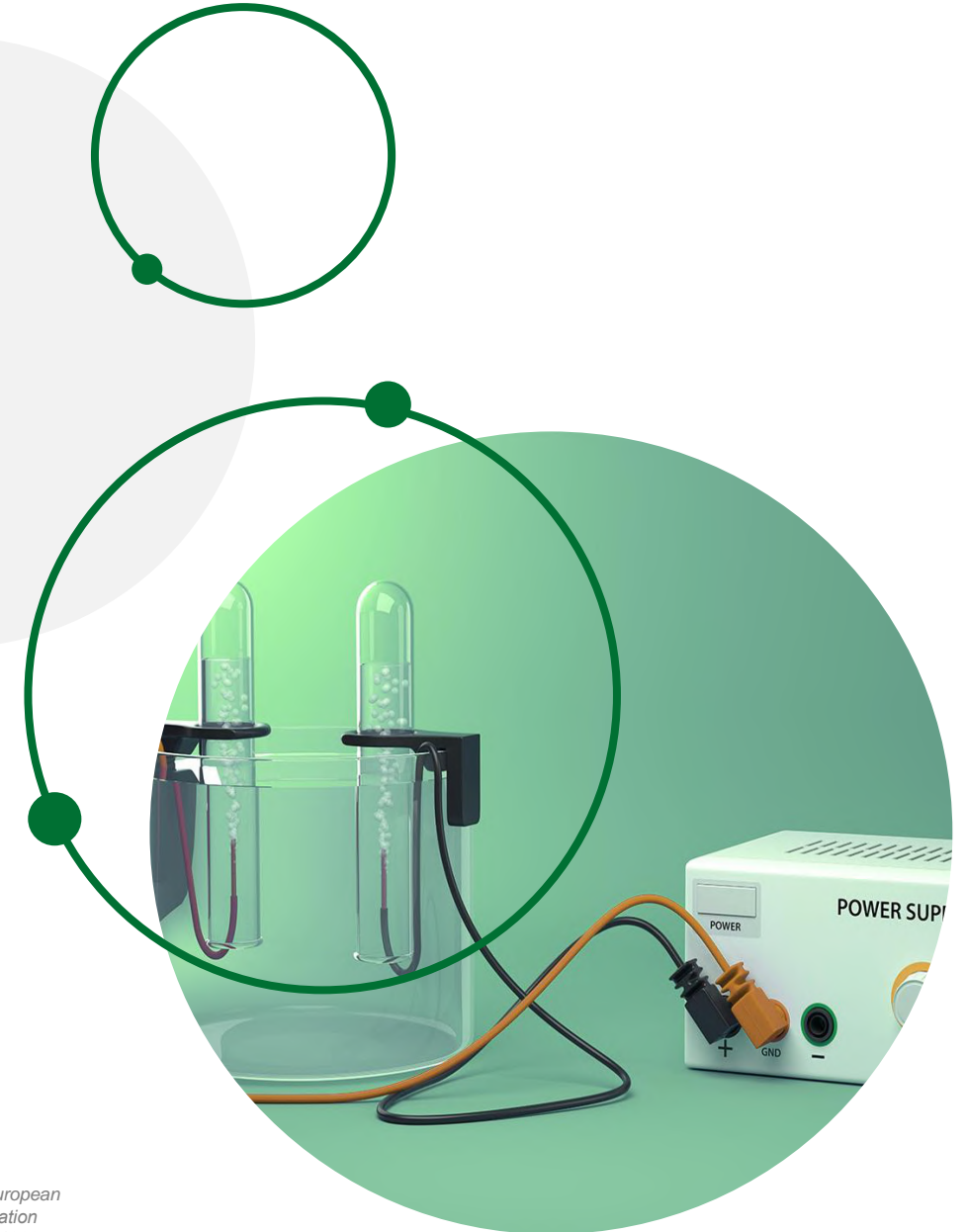
Fraunhofer
ICT

u^b
UNIVERSITÄT
DUISBURG
ESSEN

OBJECTIVES

RECYCALYSE will mainly focus on two objectives:

1. Develop and manufacture highly active sustainable oxygen evolution catalysts that will reduce or eliminate the use of Critical Raw Materials, thus decreasing CO₂ emissions and reducing cost.
2. Establish a recycling scheme for proton exchange membrane electrolyser catalysts, electrodes and overall systems. By implementing the recovered elements in the new developed catalysts, dependence on materials import in Europe is reduced or avoided, thus reaching a full circular economy.



IMPACTS

Leading improved levelised cost of (renewable) energy

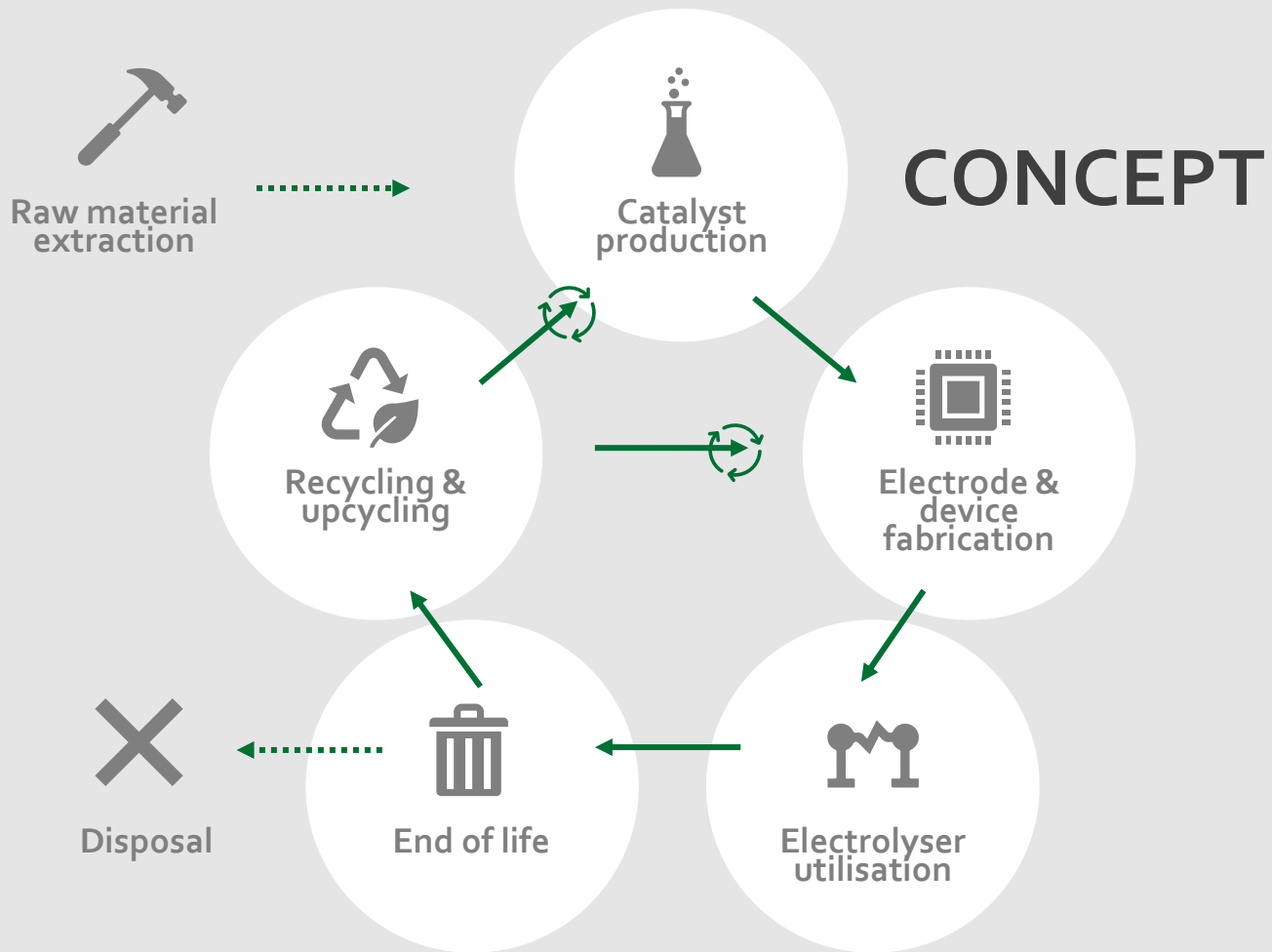


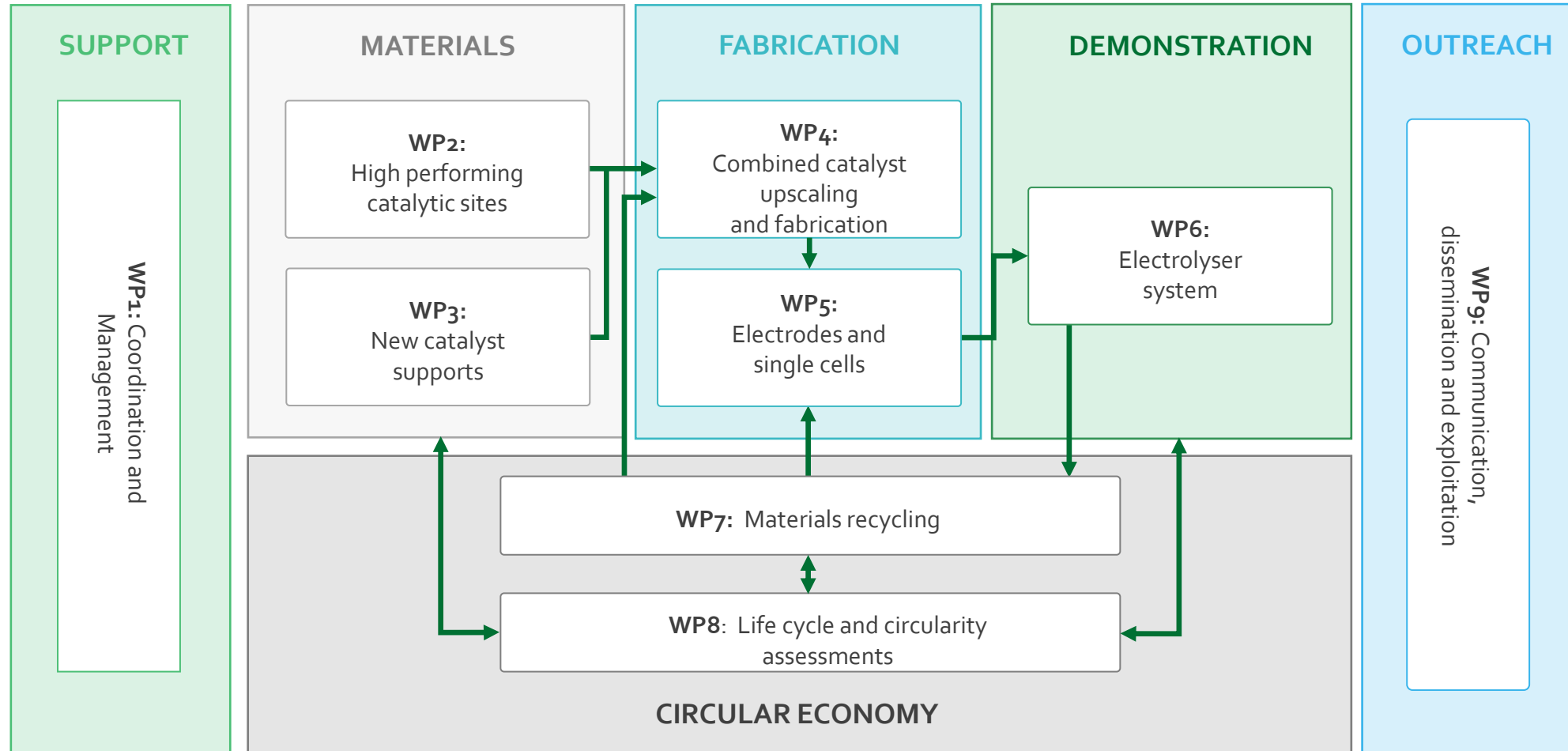
Improvement of EU energy storage competitiveness



Enabling reduced CO₂ emissions









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