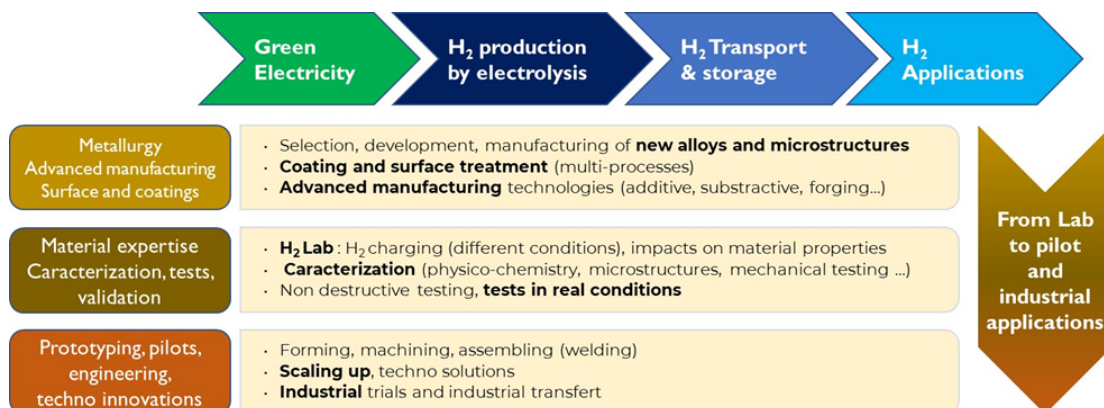


GREEN HYDROGEN

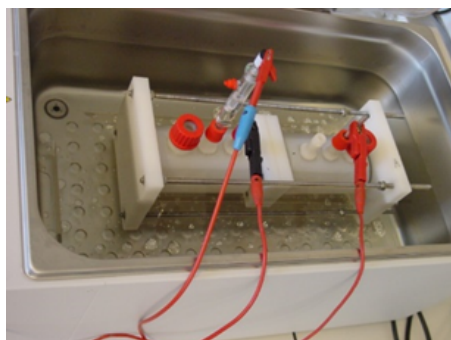
Purpose

Material, characterization and manufacturing process expertises at CRM are used all along the value chain of green hydrogen.



Green Electricity: PV steel roof

H₂ production by electrolysis:



Lab cell (2 to 4 cm²)



GREEN HYDROGEN



Lab pilot (615 cm²)

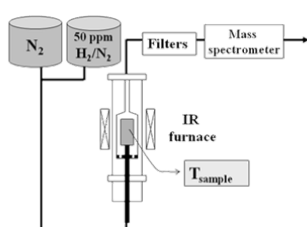


Lab cell (38 cm²)

Alcaline Electrolyzers

Electrode and membranes optimization

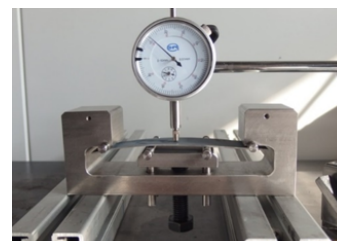
H₂ transport and storage:



**Thermal Desorption
Analysis**



Constant Load Testing

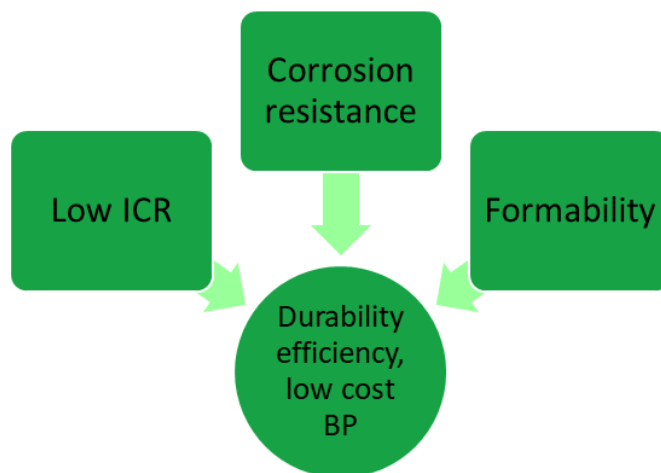


4 p^t bending test

Future: high pressure charging (autoclave) – H permeation – high pressure mechanical testing

GREEN HYDROGEN

H2 applications: Fuel cells –bipolar plate



Bipolar plate prototyping platform

- Marciniack deformation (ICR, Corrosion)
- Hydroforming press
- Up to 4000bar
- PEM Stack test (in collaboration with ULiège)

