

Contact point : Lise Malassenet University of Bordeaux (Innovation Manager) [lise.malassenet@u-bordeaux.fr]

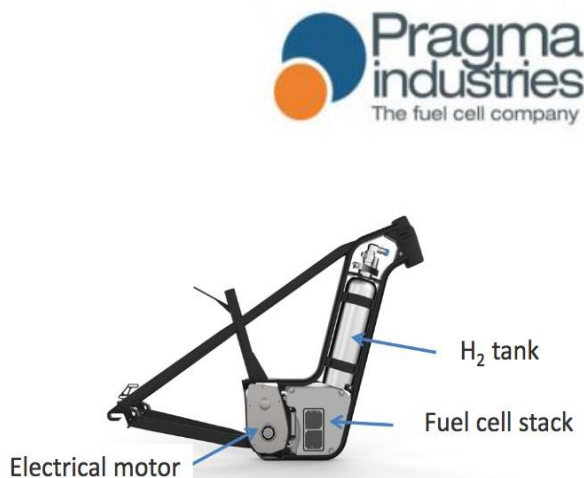
Idea holder : Fabrice Mauvy [mauvy@icmcb-bordeaux.cnrs.fr]

[Is it a Normal Pitch]

Hydrogen GeneRIC : Hydrogen Generation in Real Conditions

- Circular economy / Hydrogen energy technology coupled with fuel cell / mobility

Patented Hydrogen generation system based on Magnesium hydrolysis



UPSCALING



Prototype : Generation 1 (TRL 4)
(medium pressure, grams of Mg powder)

Prototype : Generation 2 (TRL 7)
(low pressure, kg of Mg powder,
design improved)

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Patented Hydrogen generation system based on Magnesium hydrolysis

- Outcomes:

Mitigate Greenhouse gas emissions

Energy storage application without hydrides

Closing material loops using magnesium alloy (aeronautic waste...)

- Market & Business opportunities:

Transport application: H₂ + fuel cells in any vehicle

Mobile applications: for portable devices (autonomy extender for mobile phone, laptop...)

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Hydrogen GeneRIC : Hydrogen Generation in Real Conditions

- Partners already identified

University of Bordeaux, Core partner, France

Pragma Industries, SME France (hydrogen fuel cell)

université
de BORDEAUX



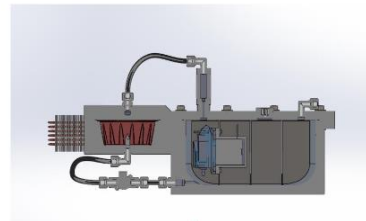
- Wanted additional partners:

System producer (mechanics: control valve; electronics: electronic control; designer)

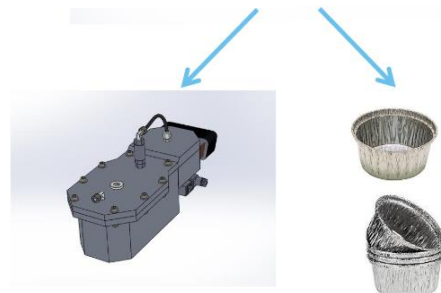
Material engineering (Magnesium waste or powder producer; grinding and mixing skills; designer)

What do we have ?

What do we need ?



Hydrogen generator



System producer

Material engineering

