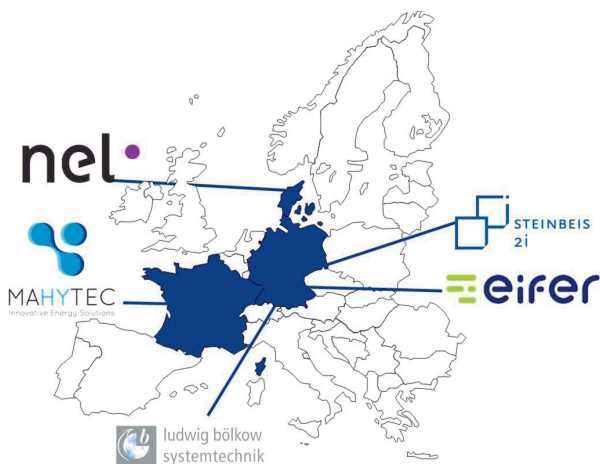


## FACTS

- ◆ Jan 2019 – Dec 2021
- ◆ Budget: €2.75M
- ◆ FCH 2 JU Project Pillar: Transport
- ◆ Follow– up of COSMHYC (2017- 2020)

## THE PARTNERS



## Innovative compression solutions

for large scale hydrogen mobility applications



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# COSMHYC<sup>XL</sup>

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## COSMHYC XL: THE OBJECTIVE

**COSMHYC XL** is a follow up project of the **COSMHYC** project funded by FCH JU, with the same European partners working on innovative compression solution.

Hydrogen mobility is one of the most promising solutions for a sustainable energy transition in **large scale transport**, such as trucks, busses or professional vehicle fleets. These applications demand a specific **infrastructure**, including hydrogen compressors that are able to allow the necessary **flow rate** and **availability**.

COSMHYC XL aims to

- ◆ lower investment and maintenance costs
- ◆ increase flow rates
- ◆ improve reliability and availability of hydrogen refueling stations.

## COSMHYC XL: THE APPROACH

COSMHYC XL develops an innovative compression concept for extra large scale hydrogen refuelling stations combining:

- ◆ a baseload **metal hydride compressor**, with high level of **reliability**
- ◆ and a **new mechanical compressor** enabling **very large flow rates**.

Within the 3 year project a very **cost efficient** and **flexible** compression solution, with strong potential for **modularity, scalability and flexibility** will be developed and tested. In addition, the new compression solution will contain no critical raw materials.

