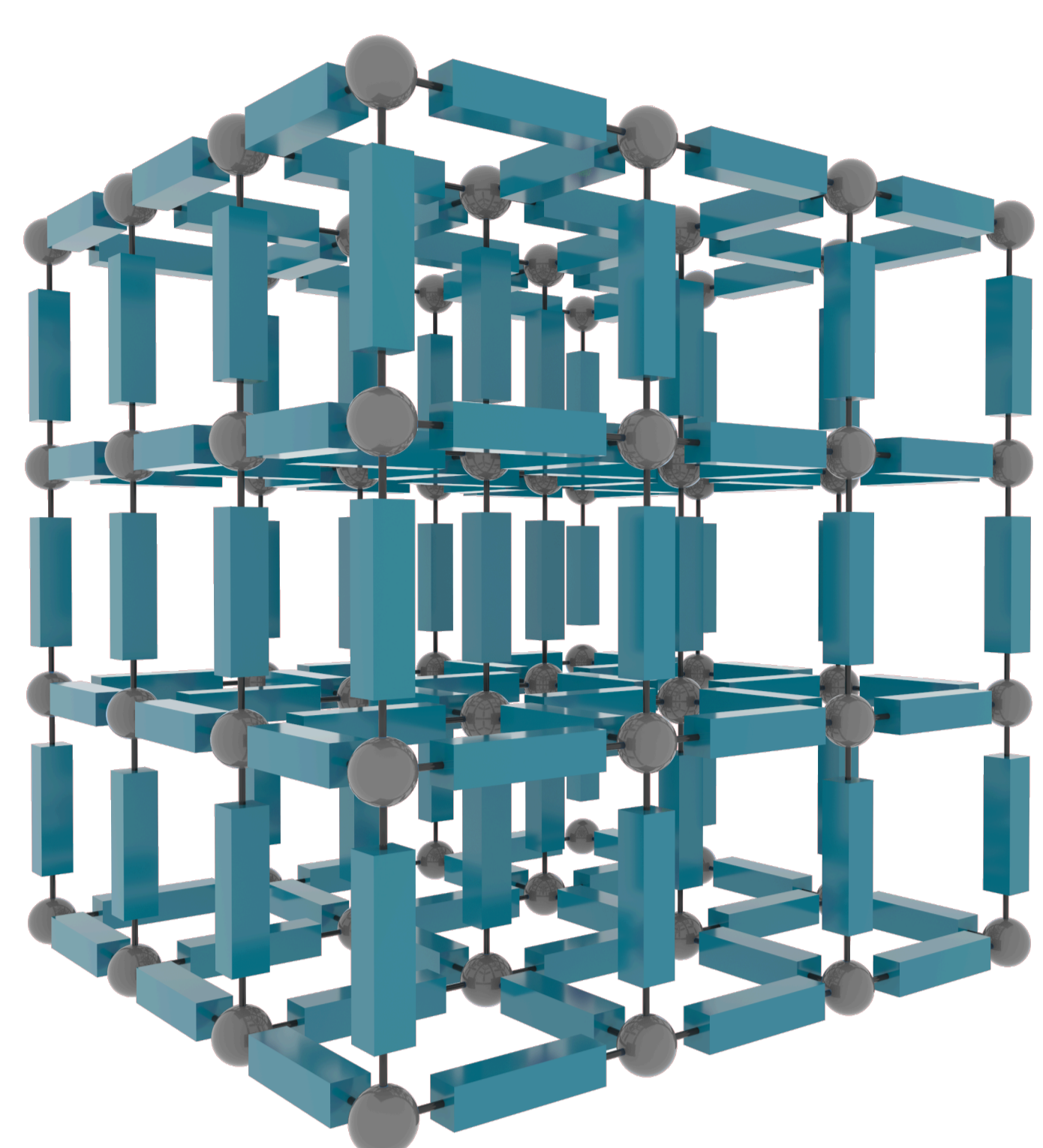


MOST-H₂

Novel metal organic framework adsorbents for efficient storage of hydrogen

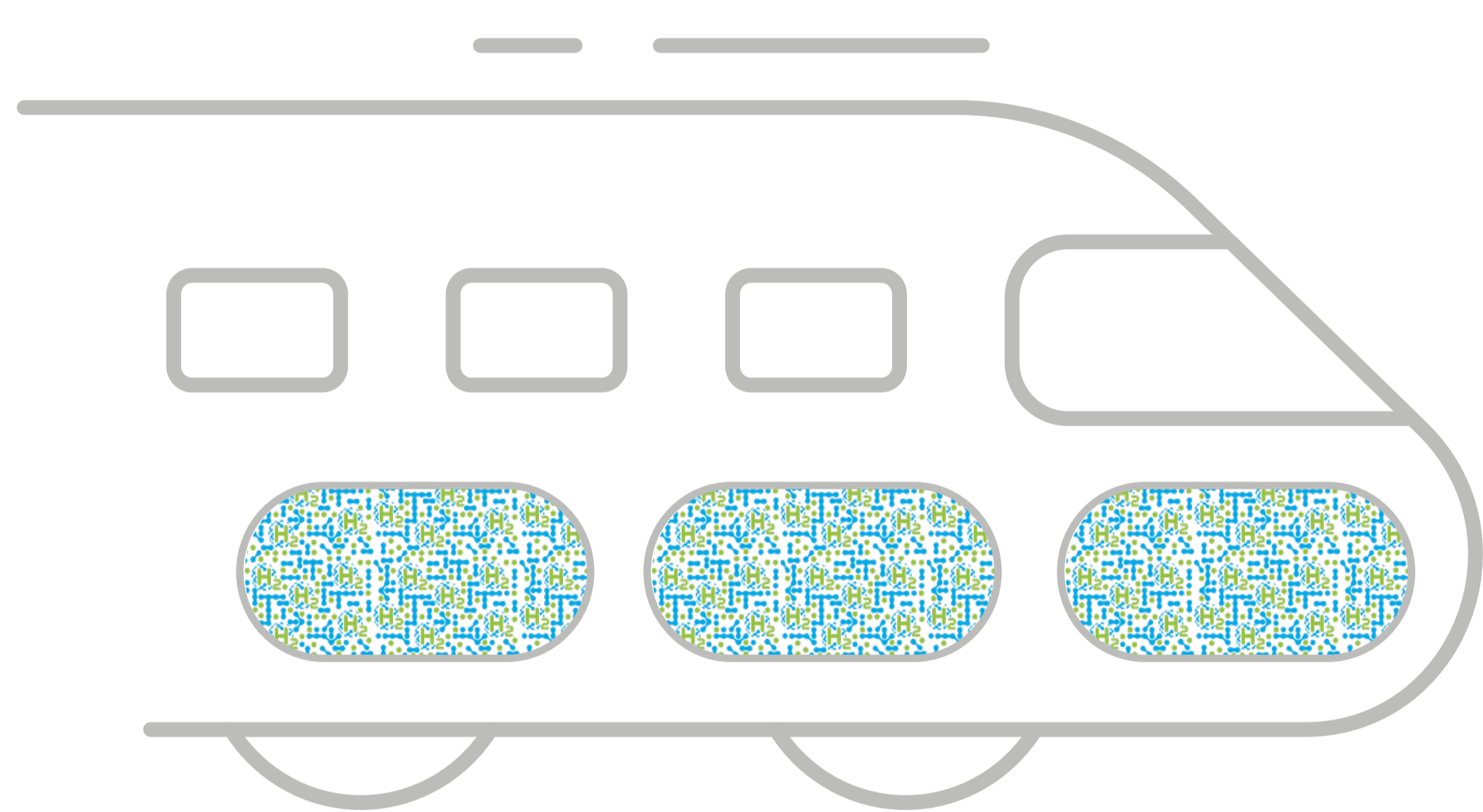
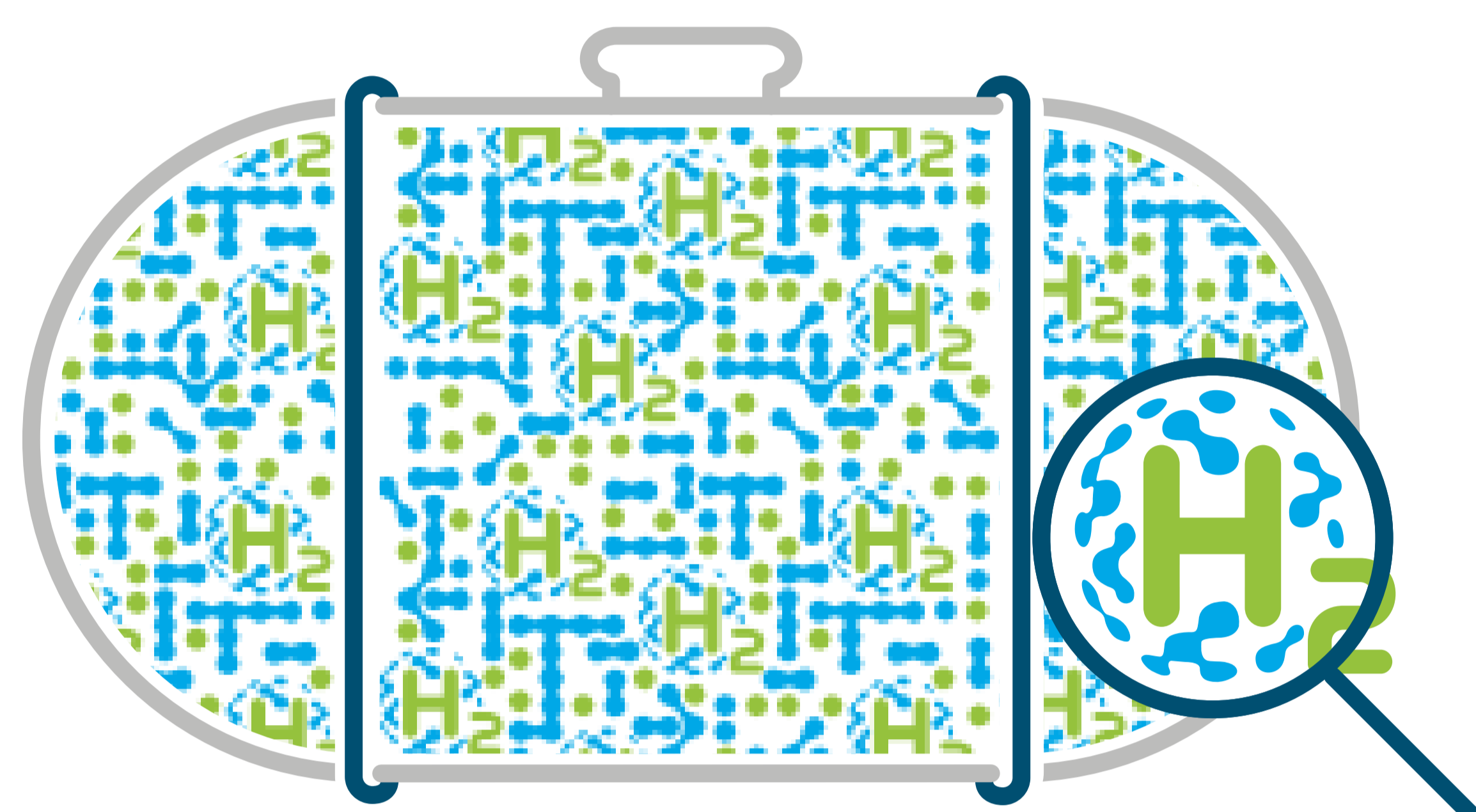
New Materials



- Metal organic frameworks (MOFs): Porous materials formed by metal ions or clusters connected with organic ligands.
- High performance, sustainable, monolithic MOF-based hydrogen adsorbents.
- Industrial manufacturing processes for monolithic MOFs production.

Hydrogen Storage Process

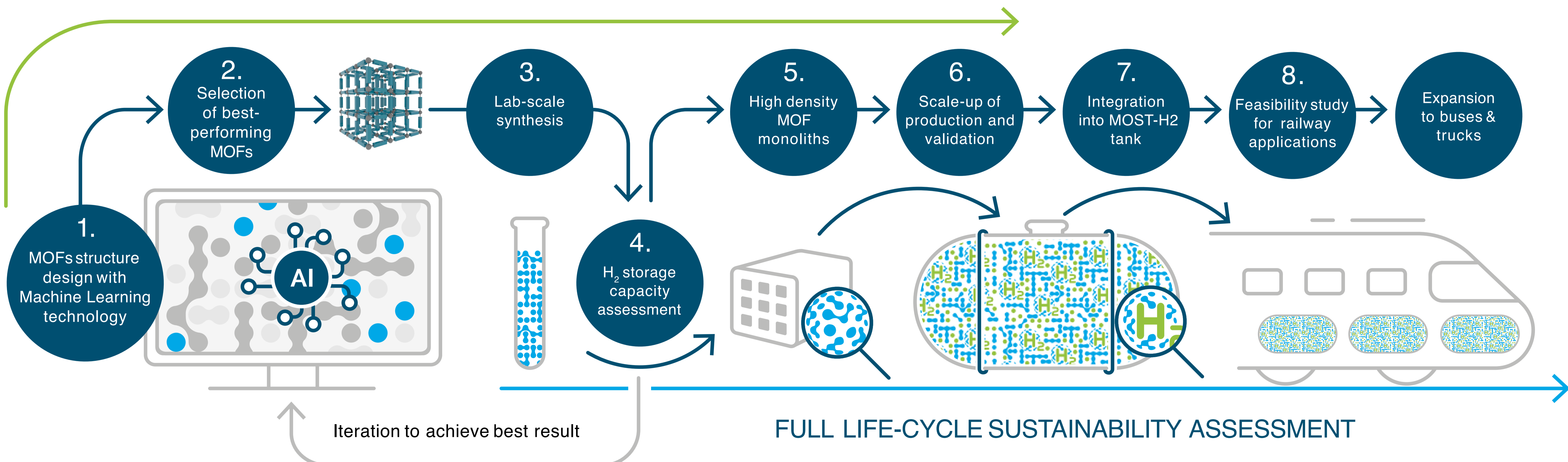
- Cryoadsorption tank optimised for high-density monolithic MOFs.
- MOST-H₂ storage: 0.5 kg hydrogen capacity, operating at 100 bar/80 K to 5 bar/160 K.



Application

- Sustainable hydrogen storage for heavy-duty mobility.
- Feasibility study for rail and road transport scenarios.

DEVELOPMENT OF MOST-H₂ TANK



Project Partners

