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Hydrogen Sussex Members include:



University of Brighton



Shoreham Green Hydrogen Hub

- **Developer** – H2 Evolution Ltd
- **Location** – Shoreham Port: strategically placed for local and regional customers
- **Partners** – Shoreham Port Authority, historic Port Trust, logistics and distribution capabilities
- **Site** – 6,700m² brownfield light industrial site with good access
- **Plant** – nominal 20MW, 340kg/h high purity green hydrogen from renewable energy and electrolysis
- **Utilities** – embedded renewable generation at the Port (wind, solar, wave)
- **Customers** – fuel cell electric vehicles, buses and refuse collection targeted
- **Impact** – decarbonize at least 300 buses, reduce emissions by 115 ton/day
- **Benefits** – enabler for local authority decarbonisation plans, Brighton's city centre ultra-low emissions zone, significant contribution toward net zero



Key Dates

Planning Application Submission

May 2021

Project Financial Close

April 2022

Commence Commercial Operation

Summer 2024





A leading global engineering and environmental consultancy establishing a Hydrogen Transport Centre of Excellence to accelerate H₂ technology development & deployment

HYDROGEN TRANSPORT CoE

H₂ TECHNOLOGY DEVELOPMENT

WORLD CLASS H₂ TEST FACILITIES



H₂ PEOPLE & SKILLS DEVELOPMENT

DIGITAL PROCESSES & TOOLS

Production & compliance

Product launch

Strategy & advice

Advanced research

Design & analysis

Product development



HYDROGEN is central to achieving Ricardo's vision to **CREATE A WORLD FIT FOR THE FUTURE**

Fuel Cell Future Fleet – Phase One (Metrobus Crawley)

- 22 Fastway buses and 32 standard Metrobus spec buses – a mixture of single & double decks
- Around 1/3 of Crawley based fleet converted to zero emission in one go – largest deployment in Europe



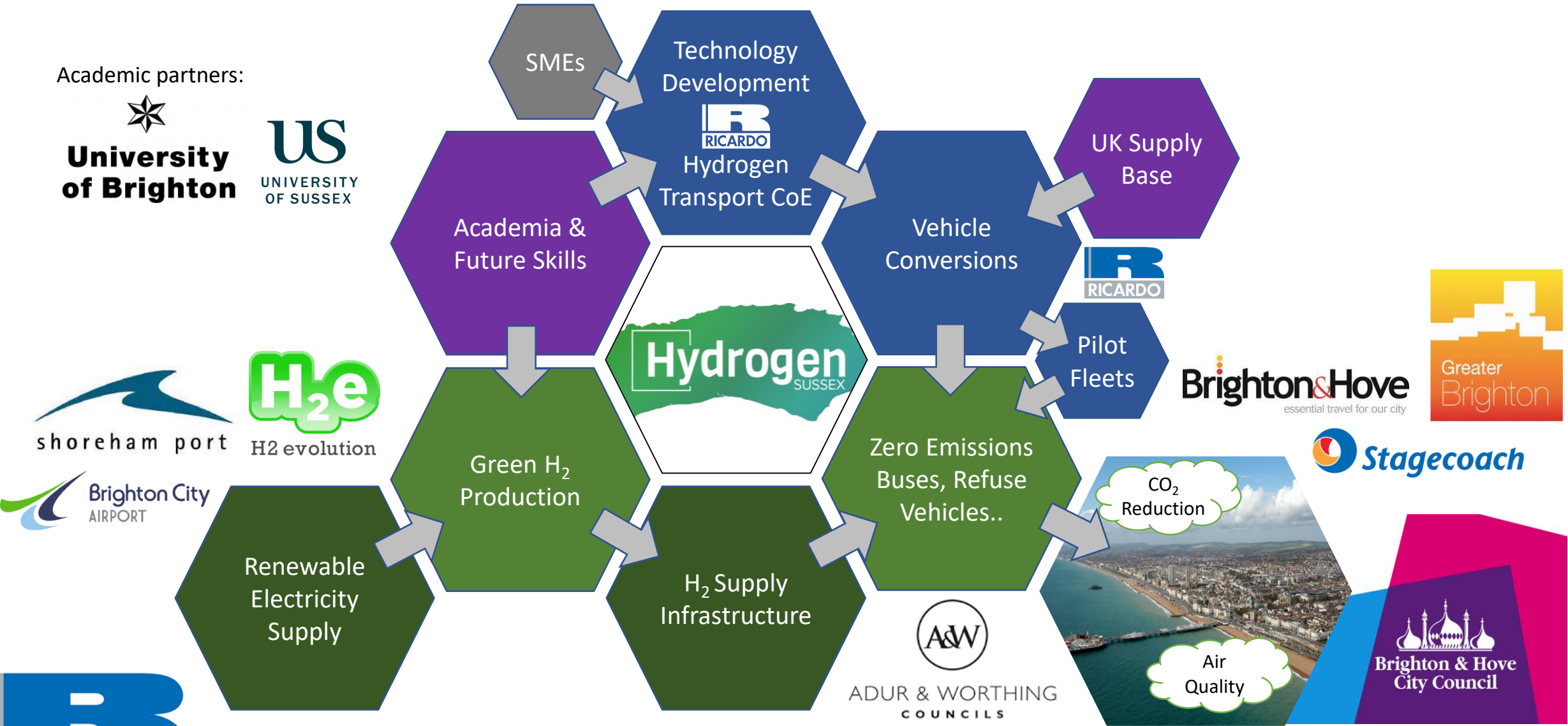
Fuel Cell Future Fleet – Phase Two (B&H Buses, Newhaven)

- Up to 50 double decker buses and the world's first 'all hydrogen' bus depot
- Air quality improvements in three air quality management areas
- Ground breaking collaboration: big group buying power and large regional fleet of buses, lowering the costs of entry for other heavy fleet (refuse collection vehicles, gritters and locally based logistics fleet)
- Newhaven Town Deal Fund linkage with hydrogen skills and job opportunities



HYDROGEN SUSSEX – An Eco-System for Green Growth

Academic partners:



Hydrogen Sussex

Our vision is for Sussex

- to become a leading Hydrogen region in:
 - hydrogen production
 - the development and uptake of hydrogen vehicles
- to establish the innovation, skills and supply chain that will underpin our energy transition.

Our unique selling points are our

- natural resources,
- infrastructure,
- skilled engineering workforce,
- partnership.





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