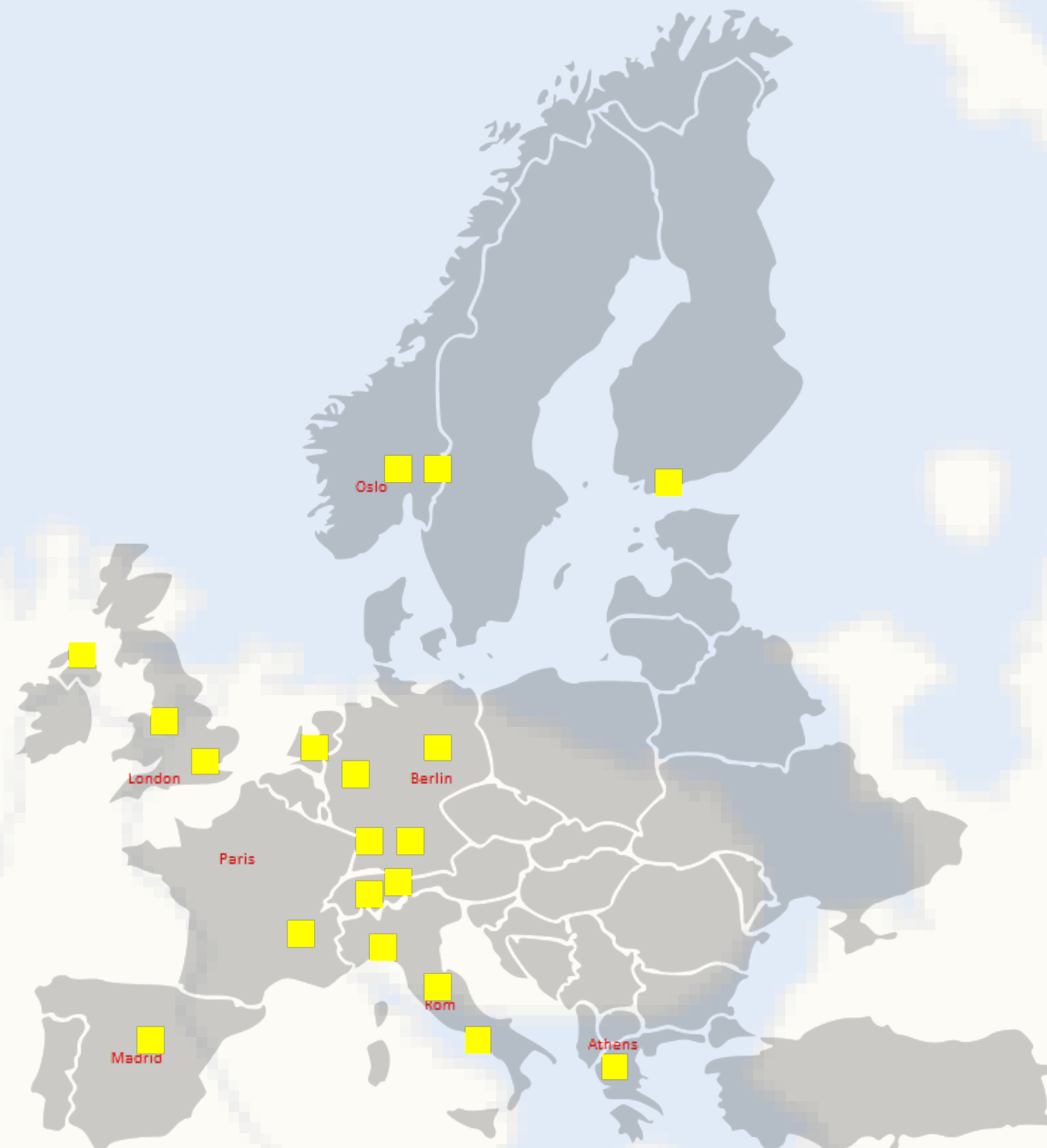


Integrating European Infrastructure to support and development of Hydrogen- and Fuel Cell Technologies towards European Strategy for Sustainable, Competitive and Secure Energy

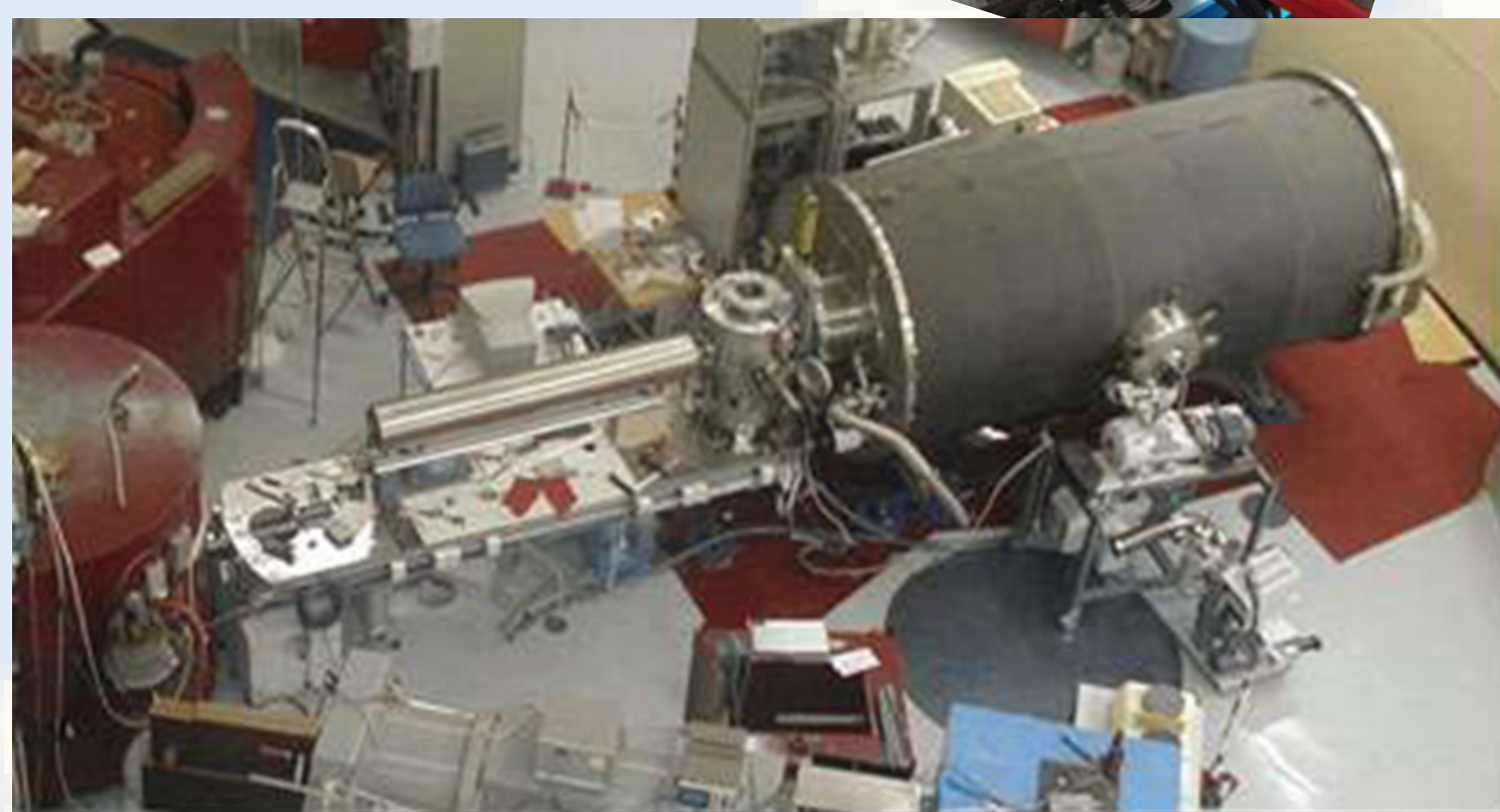
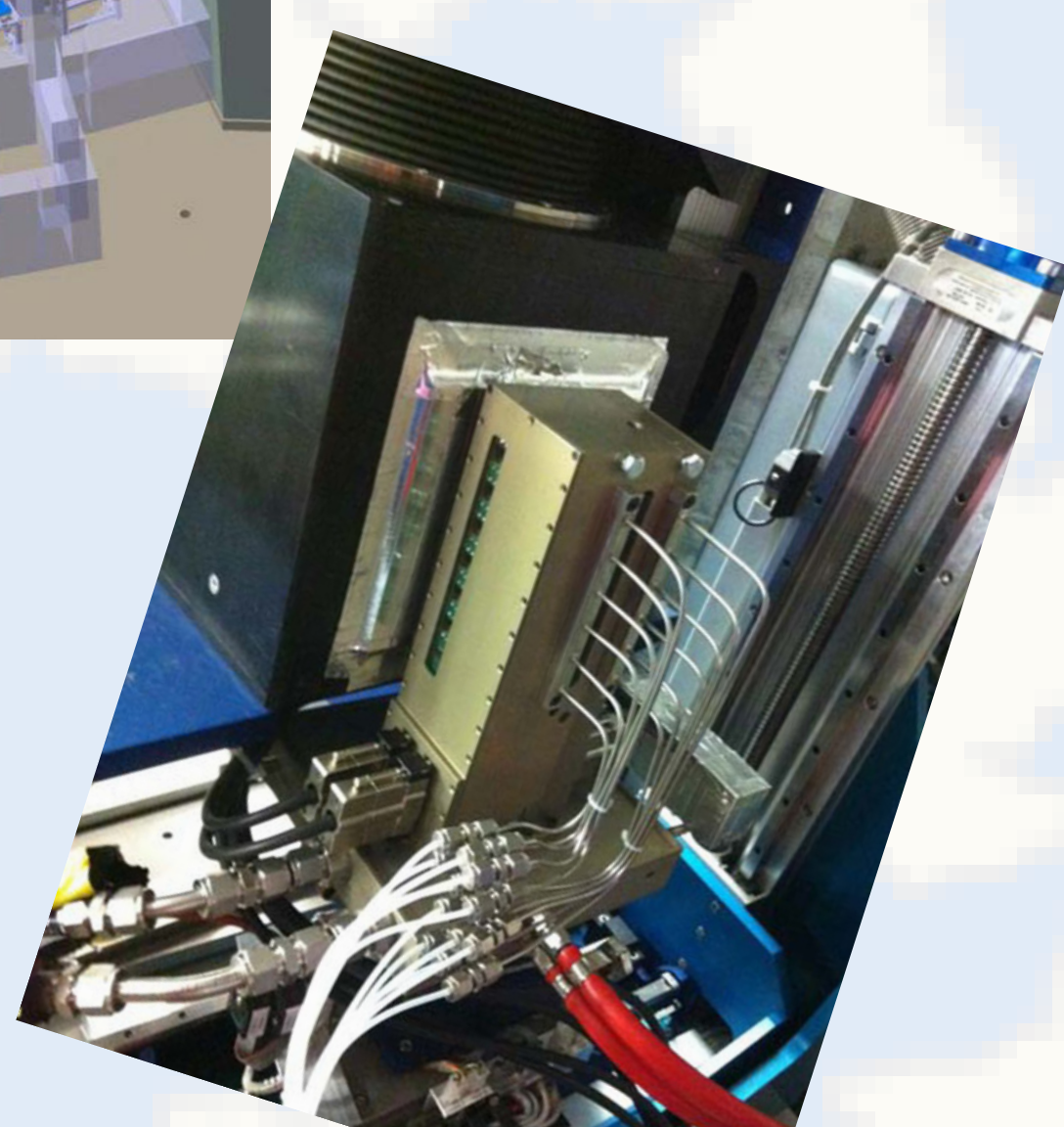
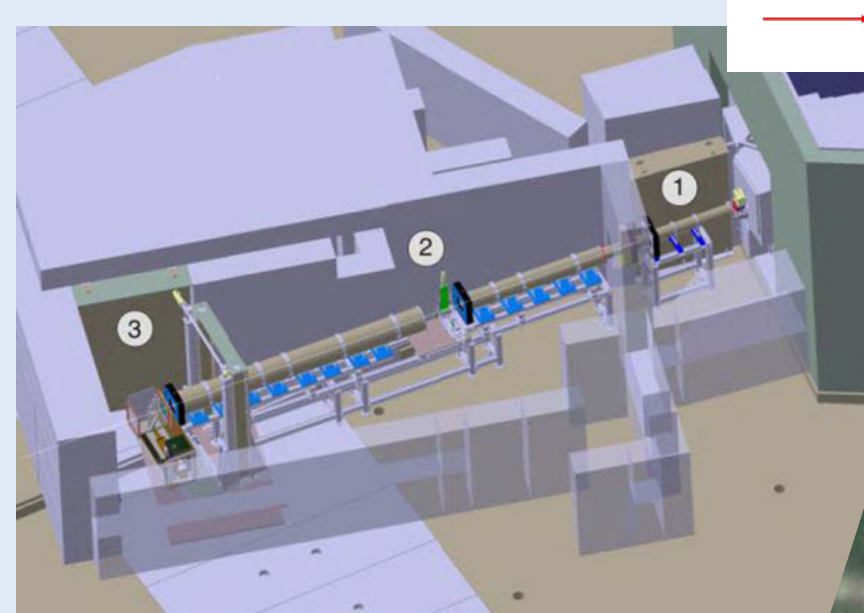
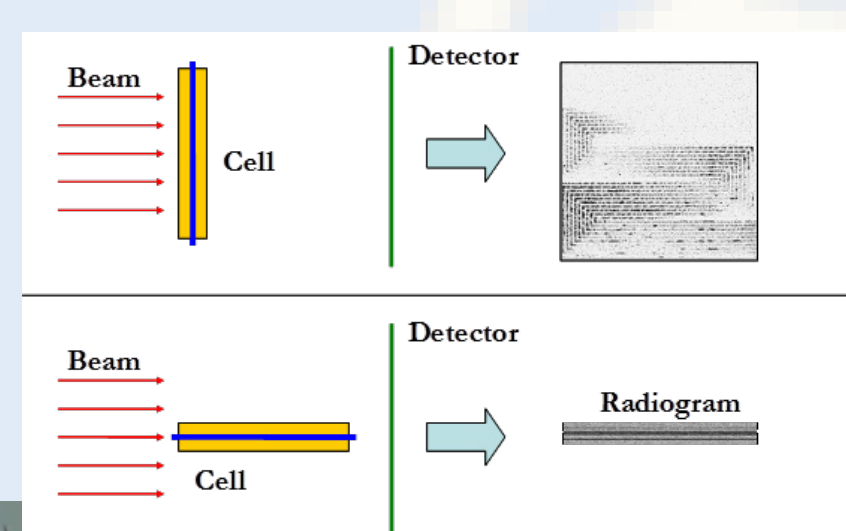
www.H2FC.eu



YOUR GATEWAY

to unique portfolio of fuel cells - and hydrogen investigation technologies

- 15 access providers
- 49 installations
- ~ 60 internal experts

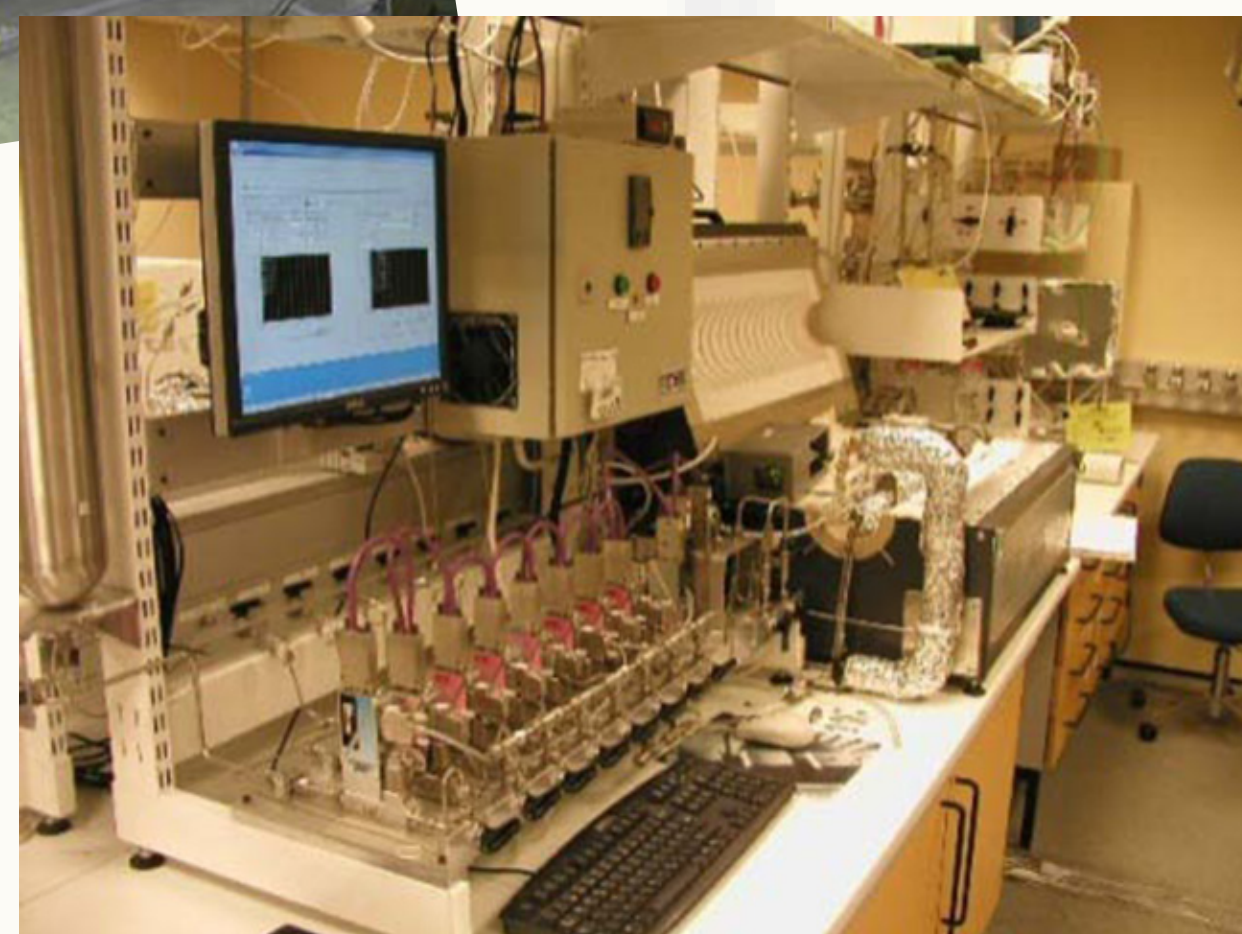


HYDROGEN PRODUCTION AND STORAGE

- Synthesis of hydrogen storage materials
- Structuring (also nano) of hydrogen storage materials
- Powder neutron diffractometer
- Small angle neutron scattering
- Solid-state hydrogen storage testing facility
- High-pressure hydrogen tank testing facility
- Synthesis of hydrogen storage materials
- Characterisation of hydrogen storage materials

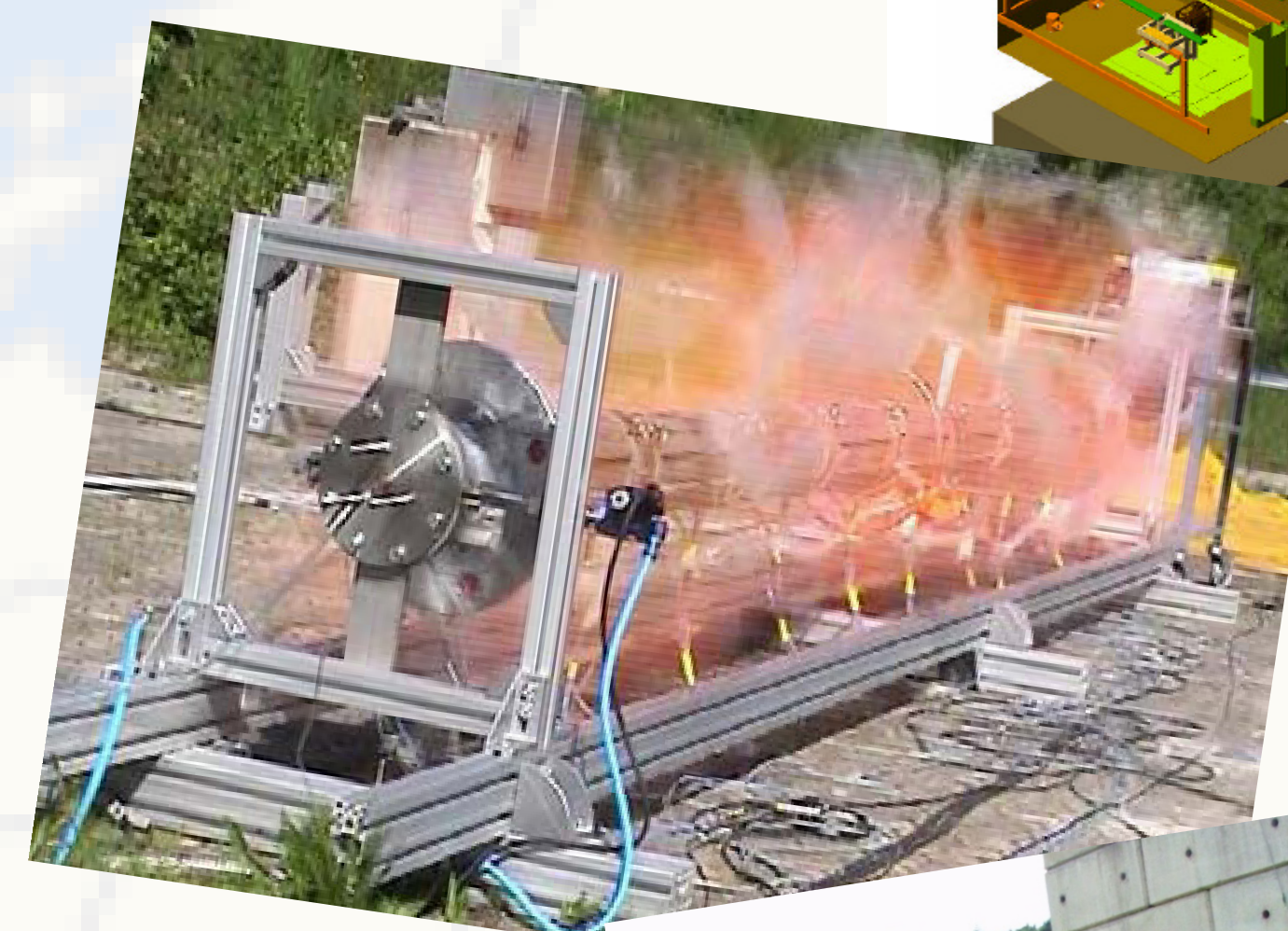
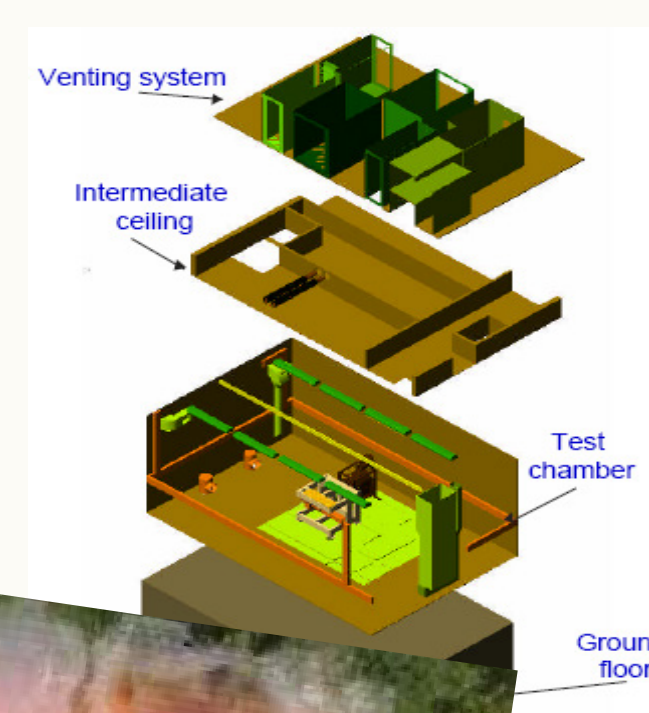
YOUR ADVANTAGE

- Access to technologies is free of costs
- Experienced peer review board
- Proprietary projects upon request



YOUR BENEFITS

- Benefit from efficient test facilities in fuel cells - and hydrogen investigation technologies
- Experience hands-on access or services on emerging needs
- EC facilitates transnational access by reimbursing costs of access for external H₂FC users



FUEL CELLS

- SOFC tests
- Performance and durability infrastructure
- Environmental test chamber
- ICON beam line mobile fuel cell test bench / multicell setup
- FCLab (fuel cell laboratory) 2.5 KWe / 300W / 3 W / 16 W SOFC test bench; 11 W / 300 Kwe MCFC test bench
- Small and wide angle x-ray diffractometers
- Neutron CRG low spectrometer angle Brillouin
- Hydrogen assisted stress cracking
- Instrumented PEFC test station
- Electrochemical techniques for characterisation of catalyst performance
- Gas chromatography for hydrogen purity
- Membranes and materials research laboratory
- PEM durability diagnostics lab

SAFETY ISSUES

- Hydrogen safety issues
- Safety and risk assessments
- High pressure hydrogen facility
- Tunnel / enclosure facility
- Impact facilities
- Fire testing rig for tanks and other pressure vessels
- Air test site for open air large scale tests with fire
- Tribmeters for oscillating or sliding friction

AROUND **180** USER PROJECTS ENVISAGED

For more information see installation book at www.h2fc.eu