



HZwo – Hydrogen Technology Cluster

Germanys new Hydrogen Innovation Center HIC and its contribution to the transformation of European value chains

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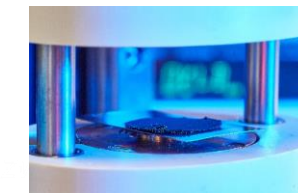
 **Generalitat de Catalunya**
Government of Catalonia



Who we are

	European network of hydrogen experts	
	National Hydrogen Innovation Center	
	National Transformation Hub	
	Saxon Competence Center for Hydrogen Technologies	

Our aim: product value chains for hydrogen technologies



1,75
million jobs
in 2030
in Europe

Production, transport
and application

OEM and system
manufacturers

Stacks and components

Machines, equipment
suppliers, materials

Transformation support for existing value chains

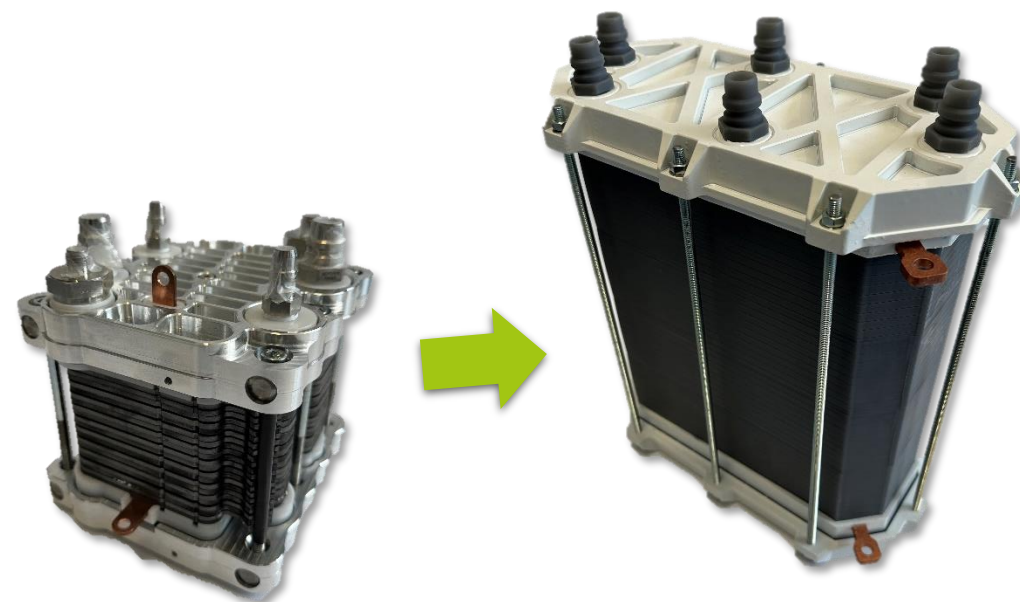


Developed by



Minimise barriers
Simplify access
Provide requirements
Transfer knowledge

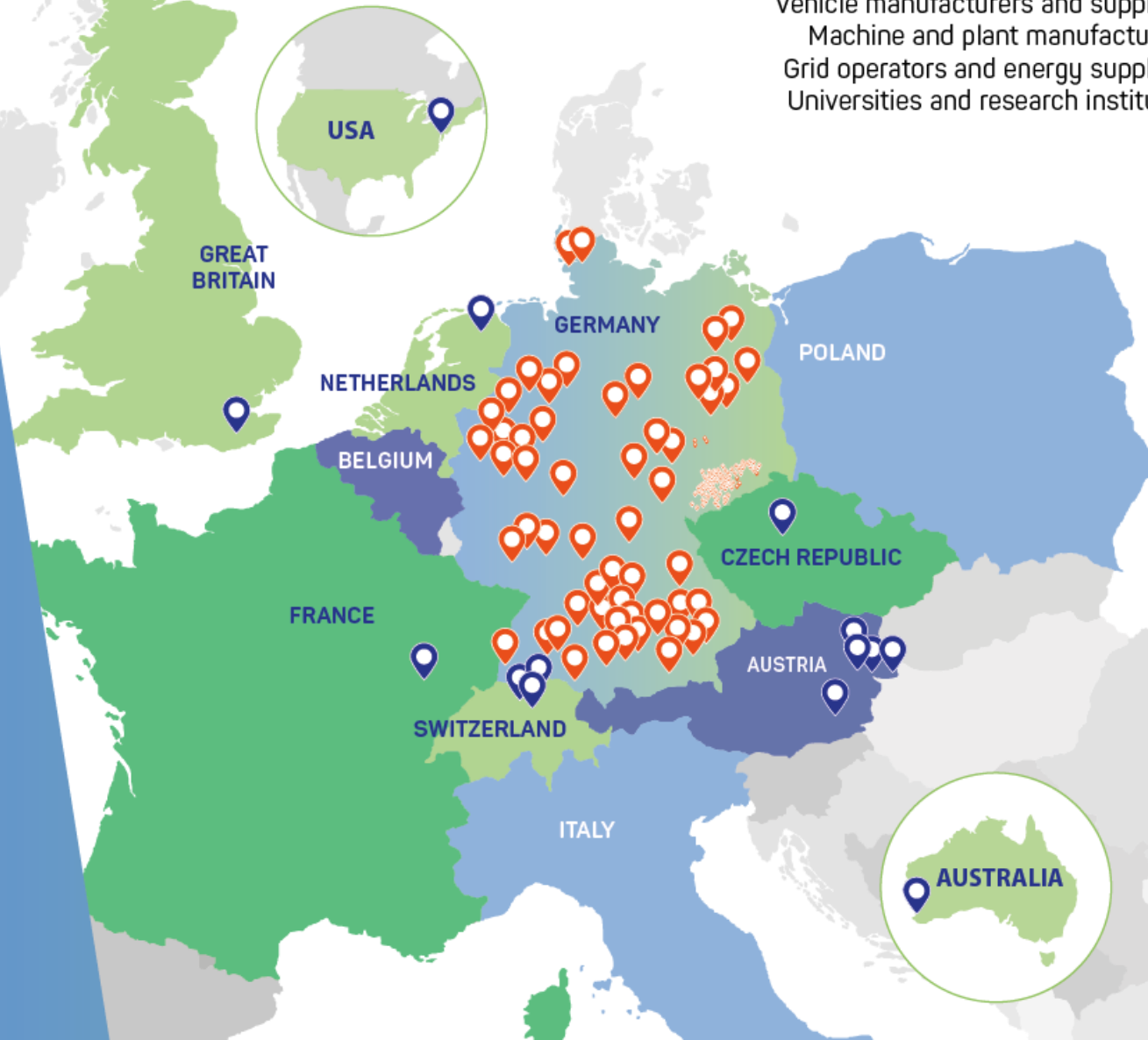
Based on projects funded by



Goals for 2025

- Expansion of the current OSS050 concept to OSS150 (150 cm² active area)
- Development of an OS electrolysis stack

- Fuel cell and electrolyzer manufacturers
- Vehicle manufacturers and suppliers
- Machine and plant manufacturers
- Grid operators and energy suppliers
- Universities and research institutes



From hydrogen cluster to innovation centre



HZwo e.V.
Cluster of > 150 companies and
research institutions



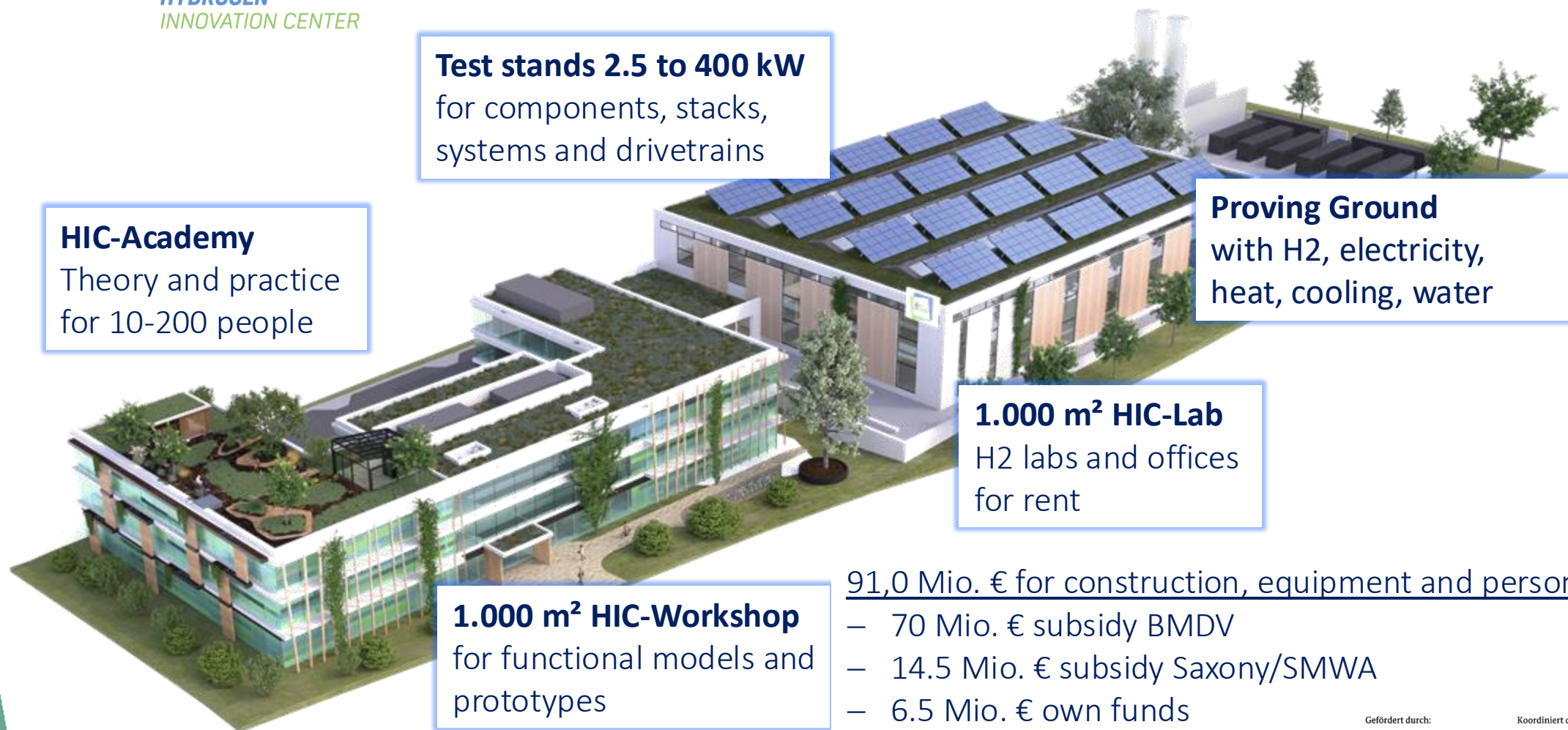
100 %



HIC gGmbH
Hydrogen Innovation Center



Handover of the € 84.4 million funding letter at the
Federal Ministry of Transport on 6 March 2025



Test stands 2.5 to 400 kW
for components, stacks,
systems and drivetrains

HIC-Academy
Theory and practice
for 10-200 people

Proving Ground
with H₂, electricity,
heat, cooling, water

1.000 m² HIC-Lab
H₂ labs and offices
for rent

1.000 m² HIC-Workshop
for functional models and
prototypes

91,0 Mio. € for construction, equipment and personnel

- 70 Mio. € subsidy BMDV
- 14.5 Mio. € subsidy Saxony/SMWA
- 6.5 Mio. € own funds



HIC Research and Transfer Centre

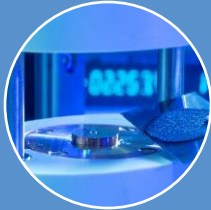
Opening: Summer 2025



Testing of
stacks and
components



Regulation,
codes and
standards



R&D on
testing
methods and
as a service



Knowhow
transfer



Networking



Consultancy



Trainings



Rentable proving
ground, H2 labs
and workshops



Meeting point
for H2
developers



Available offers from 2025

- Development of FC & electrolyser systems, subsystems and components
- Feasibility studies, market studies, patent searches
- Simulation of existing components and assemblies
- Development of specifications for components and assemblies
- Seminars on components, stacks and complete systems
- Visualisation of components, stacks and complete systems, e.g. mockups, images and animations for trade fairs and online presences

Digital twins





Rentable open spaces and
container sites with control
centres

Grid connection

Drinking water supply

H₂ supply and withdrawal

Media supply

Usable for e.g. endurance tests
and demonstrator showcases of
your technology solutions





Test stands for
Single cells, short and full stacks
up to 275 kW (partly with climatic
chamber), systems up to 2x 170
kW, components (anode, cathode,
thermal)

Workshop for Stack and system
assembly, Prototype and tooling
construction

Labs for Material characterisation,
measurement and gas analysis



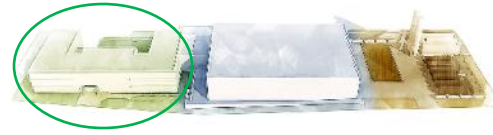


Rentable Labs

Basic - partial equipment
H₂ and N₂ supply
Compressed air (with oil)
Temperature 20°C +/- 3 K

HIC Ready - fully equipped:
+ oil-free compressed air
+ Humidity regulation 50% +/-20
+ DI – water

Flexible utilisation with
installation spaces in the ceiling
and floor area



Rentable offices and meeting rooms

Seminar rooms for 20 to 200 people

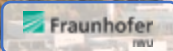
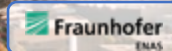
Marketplace - integral contact area for encounters and communication

Tram, train and motorway connections

Nearby hotels and event locations



H2 Campus Chemnitz



- **80.000 m²** campus area
- central **hydrogen** grid
- **1.000** workspaces
- **HIC** Hydrogen Innovation Center
- **University Campus / event areas**



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Funded by:



This measure is co-financed by tax revenue on the basis of the budget approved by the members of the Saxon state parliament.

