

Berlin | 25 November 2020

# HYLAND – GERMAN HYDROGEN REGIONS

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**PrioritHy: How hydrogen and sectoral integration can bring recovery, growth and jobs for Europe**

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# TOWARDS SUSTAINABLE ENERGY AND MOBILITY

Integrated implementation of German national funding programs by NOW GmbH



## NaKoMo

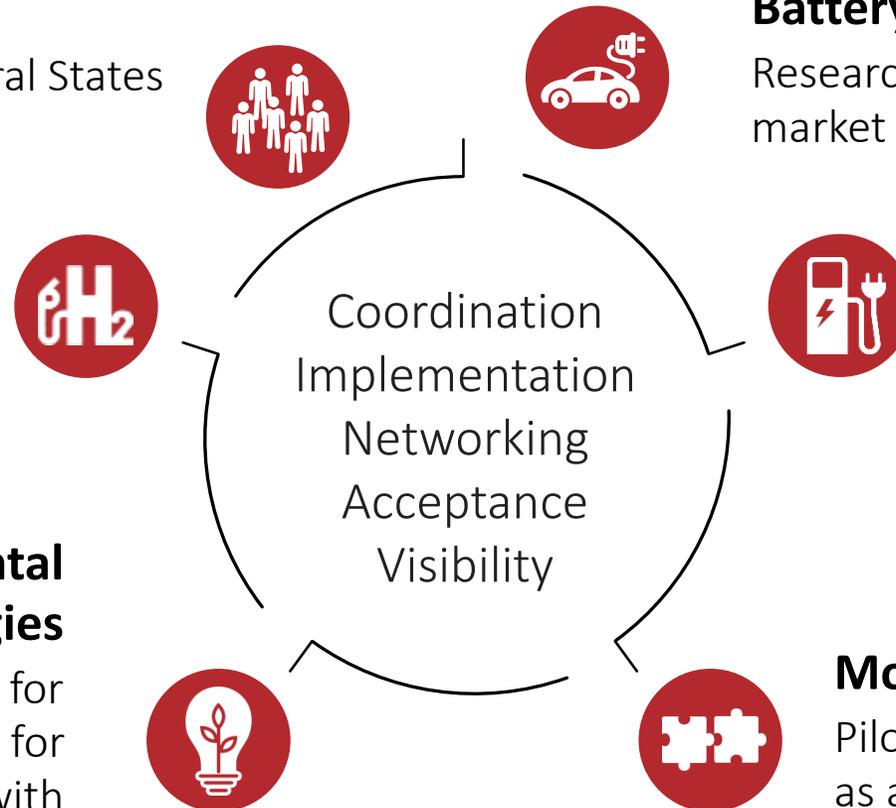
Networks, Municipalities, Federal States

## NIP\*

Research and development,  
market activation

## Export Initiative Environmental Technologies

German-Japanese cooperation for PtG, development cooperation for H<sub>2</sub>/FC technologies, cooperation with the GIZ



## Battery Electric Mobility

Research and development,  
market activation, concepts

## National Centre for Charging Infrastructure

Nationwide buildup, normal and  
fast charging

## Mobility and Fuels Strategy

Pilot projects, alternative fuels, LNG  
as a marine fuel

# PARALLEL DEVELOPMENT OF HYDROGEN FUNDING



## German and European Initiatives

The FCH JU is born out of the High Level Group on Hydrogen

NOW is founded as public limited liability company to concentrate the activities of several hydrogen-related initiatives

The FCH JU starts the H2Valley competition as part of the 2019 call

NOW awards funding to regions as part of HyLand

Mission Innovation Challenge #8 (IC8) workshop on "Hydrogen Valleys"

The German Federal Government launches the National Hydrogen Strategy in June 2020

The European Hydrogen Strategy is launched in July 2020

Several Member States launch calls for interest on Important Projects of Common European Interest on hydrogen technologies

Foundation of NOW GmbH and the FCH JU

HyLand and H2Valley

Mission Innovation

Hydrogen Strategies

IPCEI

post-2020

2019

2020

2008

2019

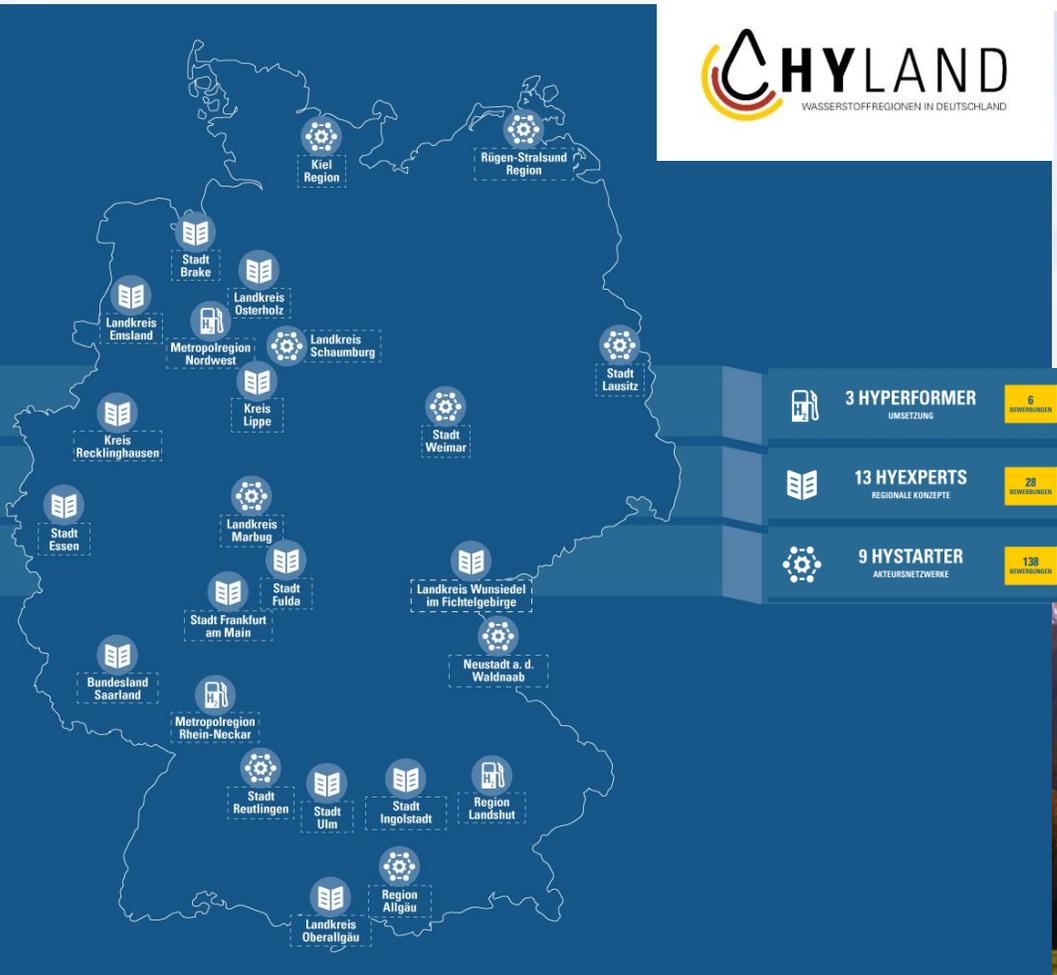


FUEL CELLS AND HYDROGEN  
JOINT UNDERTAKING



# HYLAND – HYDROGEN REGIONS

Funding concept within NIP



# AIMS OF THE BMVI HYLAND COMPETITION

Support in initiating, planning and implementing integrated H2 concepts



Visibility and acceptance of hydrogen applications



Source: Alstom

Serving as an example and blueprint for other regions

Supports the entire value chain

Networking of active regions

Strengthens the regional hydrogen economy



Source: RVK



Source: Philipp Braunsdorf

# THE NATIONAL HYDROGEN STRATEGY



- Interministerial strategy of the federal government
- Acknowledgement of the role of hydrogen in the energy system
- Integration of ongoing and planned programs of the government
- Definition of additional necessary measures
- 38 concrete measures across the complete value chain
- Budget: 7 billion Euro (national) + 2 billion Euro (international)
- Focus on green hydrogen

# HYLAND 2.0 AND REGULATORY SANDBOXES

Connecting the dots

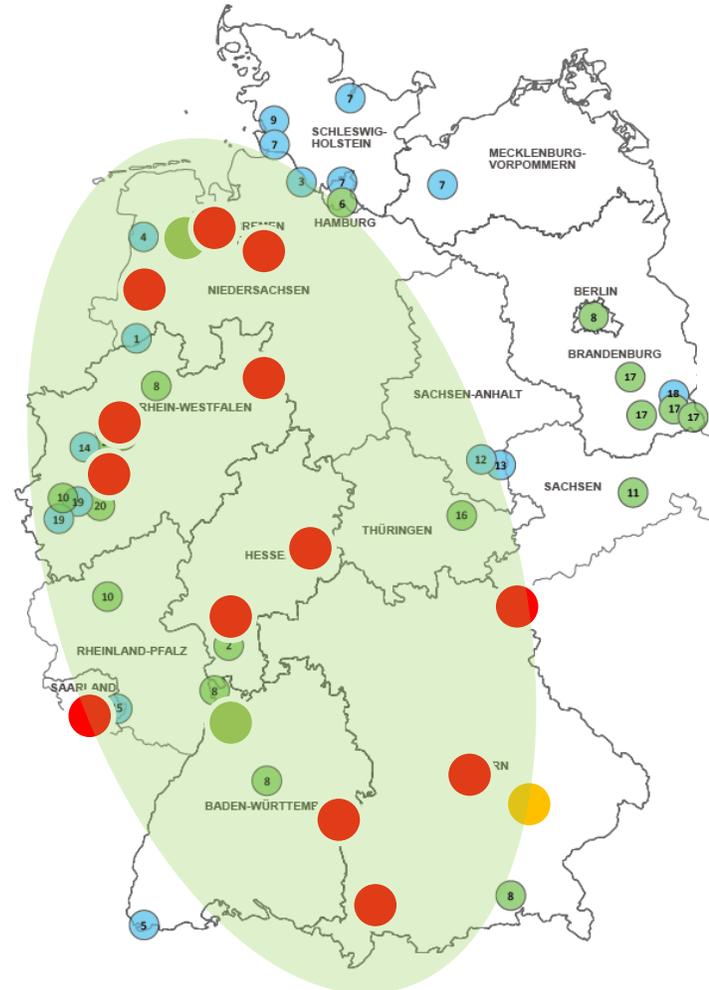


## ■ Measure 6:

- The funding under the NIP will continue with additional funding from the Energy and Climate Fund (ECF) until 2023
- Extension of funding strategy of “HyLand – hydrogen regions in Germany”

## ■ Measure 25:

- Strategic bundling of research activities
- “Regulatory Sandboxes”: bring PtX-technologies to an industrial scale



Federal Ministry of Transport and Digital Infrastructure

HyLand – hydrogen regions in Germany



Federal Ministry for Economic Affairs and Energy

Regulatory Sandboxes for the Energy Transition

# MISSION INNOVATION

National activities in line with international approach



**HYLAND / Regulatory  
Sandboxes / ...**



**H2 Valley /  
IPCEI / ...**

## Potential of the Initiatives:

- Demonstration of and story line for H<sub>2</sub> technologies
- Establish stakeholder network
- Include existing initiatives
- Include national stakeholders in international activities
- Knowledge transfer and link between both national and international activities
- Substantial funding with € 390 million for 2021



**Mission Innovation  
IC#8**



# NOW'S INTERNATIONAL COOPERATION



- Fuel Cell Technology Office (FCTO) of the DoE
- California Fuel Cell Partnership (CaFCP), California Air Resources Board (CARB)

Partners both within networks and strong bilateral relations

Partners within networks



- Government Support Group GSG, Sustainable Transport Forum STF
- Fuel Cell and H2 Joint Undertaking FCH JU
- French-German Workgroup E-Mobility



- New Technology Development Organisation NEDO & Ministry of Energy, Trade and Industry
- Bilateral Power-to-Gas-Project



- China Automotive Technology and Research Center CATARC & Ministry of Science and Technology MoST
- Sino-German Electro Mobility Innovation and Support Center SGEN (bilateral projects)



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