

**H2.B** HYDROGEN  
CENTER  
BAVARIA



## Overview:

# The Bavarian Hydrogen Landscape

Carolyn Reiser, Manager International Affairs

06.05.2025

Initiated by



Bavarian Ministry of Economic Affairs,  
Regional Development and Energy

# 1

## Introduction

# Hydrogen landscape Bavaria



Hydrogen strategy and update  
(2020/24) and roadmap (2022)



Leading innovation hub for  
hydrogen technologies



Strong network of active and  
innovative players:

14

HyLand-Regions  
*former & active*

40+

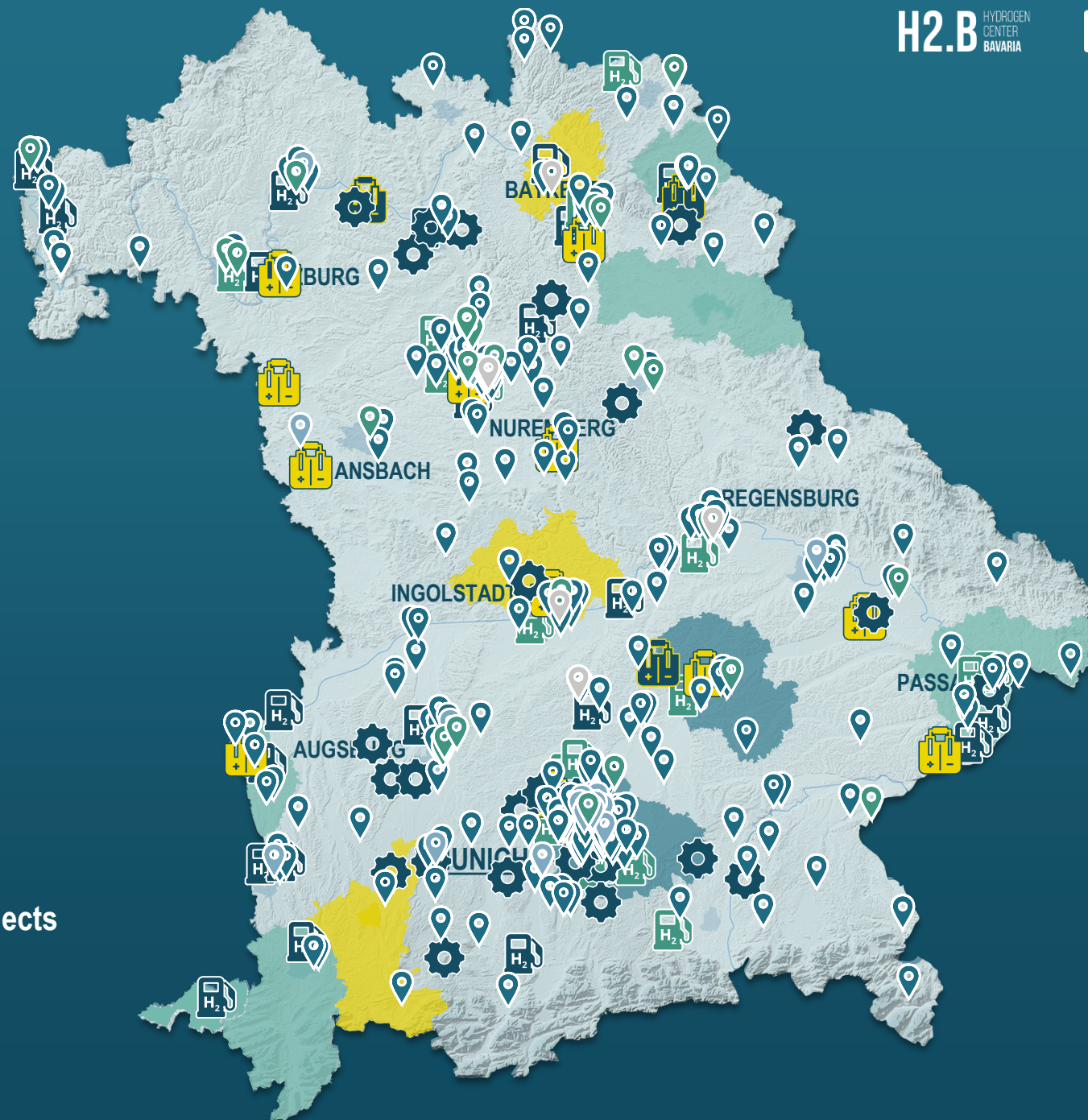
Hydrogen refueling stations  
*active & planned*

45+

Funded Hydrogen & Electrolyzer projects  
*active & planned (excerpt)*

385+

Partners in the  
Hydrogen Alliance Bavaria



# Hydrogen Center Bavaria (H2.B) and Hydrogen Alliance Bavaria

**H2.B** HYDROGEN  
CENTER  
BAVARIA

## Hydrogen Center Bavaria (H2.B)

Coordination and networking center for hydrogen of the Free State of Bavaria for

- ▶ Accelerating the ramp-up of the Bavarian hydrogen economy
- ▶ Advising, informing and connecting the Bavarian hydrogen players

### Tasks:

- ▶ H2-roadmap development
- ▶ Advice to Bavarian government
- ▶ Market & technology analyses
- ▶ Public relations & networking

Coordination

 HYDROGEN  
ALLIANCE  
BAVARIA

## Hydrogen Alliance Bavaria

Networking, information and interest platform for more than 380 H2 players with a registered office in Bavaria

### Services:

- ▶ Events & services for networking & information
- ▶ National & international technological matchmaking
- ▶ Initial project consulting
- ▶ Joint exhibition booths
- ▶ Delegation visits



# Partners in the Hydrogen Alliance Bavaria



## Founding Partners 2019:



[www.h2.bayern/alliance](http://www.h2.bayern/alliance)



 **387 alliance partners**

 **313 Companies**

 **31 Research institutions / universities**

 **35 Associations / clusters**

 **7 Other organizations**

# Competencies & Industries in the Hydrogen Alliance Bavaria

- Activities and interests along the hydrogen value chain:  
H<sub>2</sub> generation – H<sub>2</sub> storage and transport – H<sub>2</sub> utilization – industrialization of H<sub>2</sub> key components
- Broad-based alliance with self-employed, SMEs, large corporations, financial service providers, research institutes, associations & clusters



# 2

## Strategy & International Cooperation



[www.h2.bayern/strategy](http://www.h2.bayern/strategy)

# The Bavarian Hydrogen Strategy (2020)

- Strong focus on green hydrogen and H2 in mobility
- Strategic priorities:
  - Innovation and technology leadership
  - Industrial scaling and economic efficiency
  - Expansion of H2 infrastructure/application (industry, transport)
- Mainly **hydrogen imports** to Bavaria and **technology exports** from Bavaria
- Implementation steps (excerpt):
  - Hydrogen research initiative "H2 Hightech Bavaria"
  - Establishment of facilities for development, testing and application
  - **Funding program for HRS**
  - **Funding program for electrolyzers**





[www.h2.bayern/roadmap-en](http://www.h2.bayern/roadmap-en)

# Hydrogen Roadmap Bavaria (2022)

- Goals:
  - Identification of perspectives, concrete needs for action and important milestones for the rollout of hydrogen in Bavaria
  - Estimation of possible hydrogen consumption in Bavaria
- Key findings:
  - Faster ramp-up of the H<sub>2</sub> economy required
  - Cumulative demand (H<sub>2</sub> + derivatives) by 2030: 10 TWh; by 2040: at least 33-75 TWh – mainly for petrochemicals/conversion (H<sub>2</sub> as basic material, reconversion) and mobility
  - Need for Bavarian electrolysis capacity of at least 1 GW by 2030
  - Great opportunities for the export-orientated Bavarian industry
  - Legal framework and availability of an H<sub>2</sub> transport infrastructure as an important basis for market activation

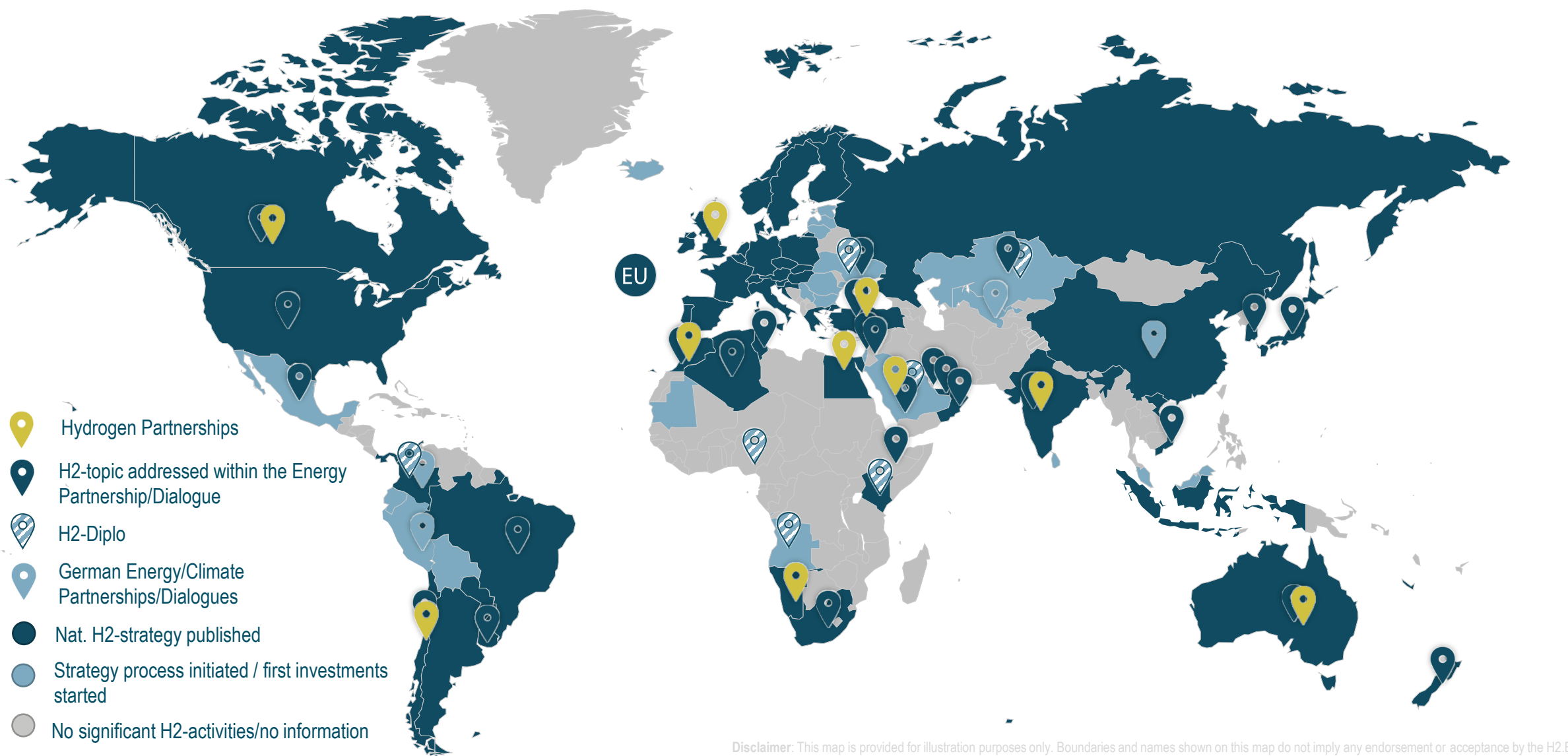


[www.h2.bayern/strategy](http://www.h2.bayern/strategy)

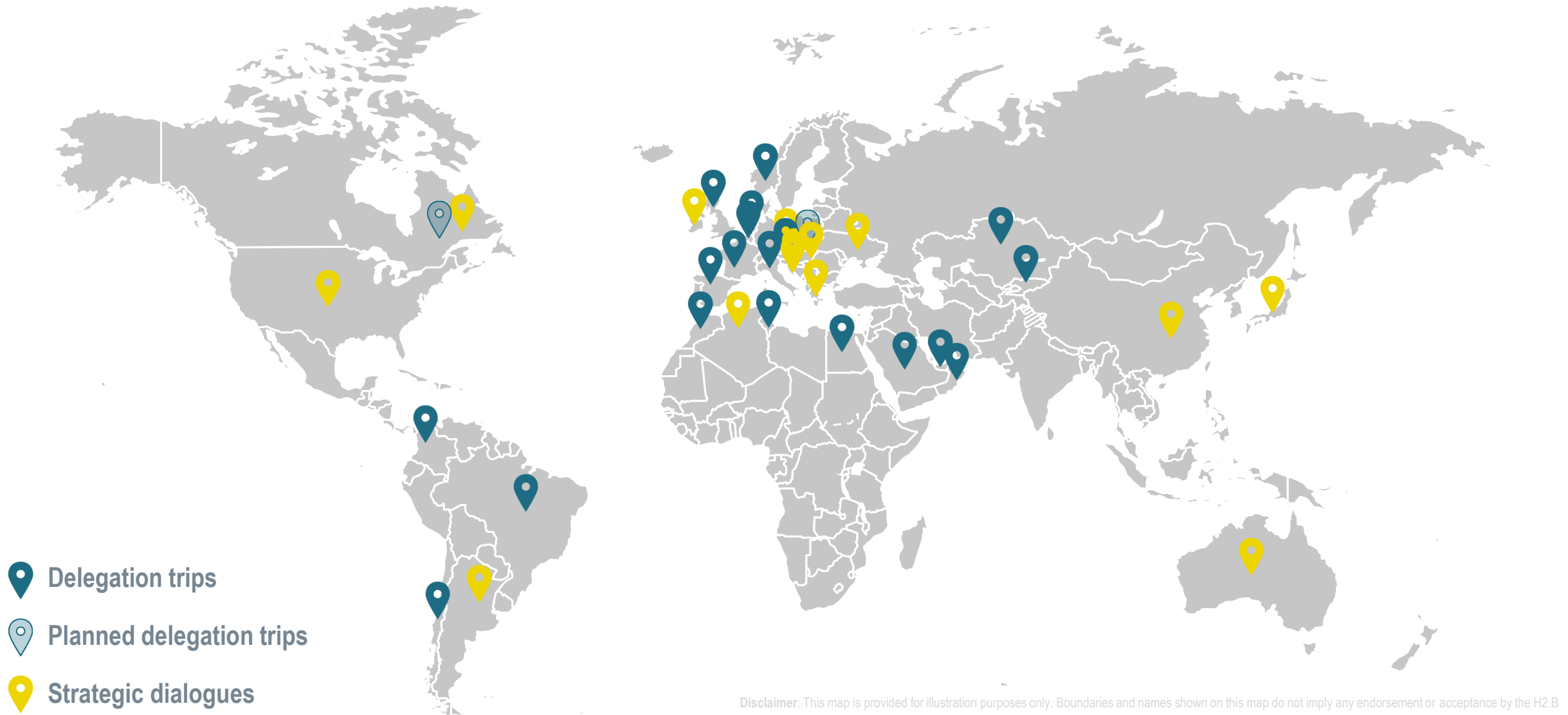
## Bavarian Hydrogen Strategy 2.0 (2024)

- Published within the framework of the **Energy Plan Bavaria 2040**
- Update and clarification of overall goals and specific actions in order to strengthen the **ramp-up of the Bavarian hydrogen economy**
- Priorities
  - Setting the **basic (regulatory) framework** for future hydrogen projects
  - Ensuring **availability of hydrogen** according to Bavarian demand
  - Establishing hydrogen as a tool for **industry transformation**
- Implementation steps (excerpt):
  - Strengthening hydrogen networks and expertise in Bavaria
  - Support and assistance in the **development of hydrogen infrastructure**
  - Increased cooperation on **hydrogen imports, import corridors and technology exports** at international level
  - Advocating for Bavarian interests at federal and EU level

# H2-Strategies and partnerships worldwide



# Bavarian H2-delegation trips und -dialogues



Disclaimer: This map is provided for illustration purposes only. Boundaries and names shown on this map do not imply any endorsement or acceptance by the H2.B

# Examples of cooperation projects

- „Haru Oni“, produced by Enel Green Power
  - „Power-to-MED“, producing dimethyl ether (DME)
  - Partnership for the production of hydrogen (SENAI)
- ...mens Energy, HIF, ...n Matthey)  
...methanol and  
...er UMSICHT and







## Your contact

**Carolyn Reiser**

Manager International Affairs

Tel: +49 (0) 911 5302 99222

Mail: [carolin.reiser@h2.bayern](mailto:carolin.reiser@h2.bayern)

Hydrogen Center Bavaria (H2.B)  
Fuerther Str. 250, 90429 Nuremberg  
[www.h2.bayern](http://www.h2.bayern)