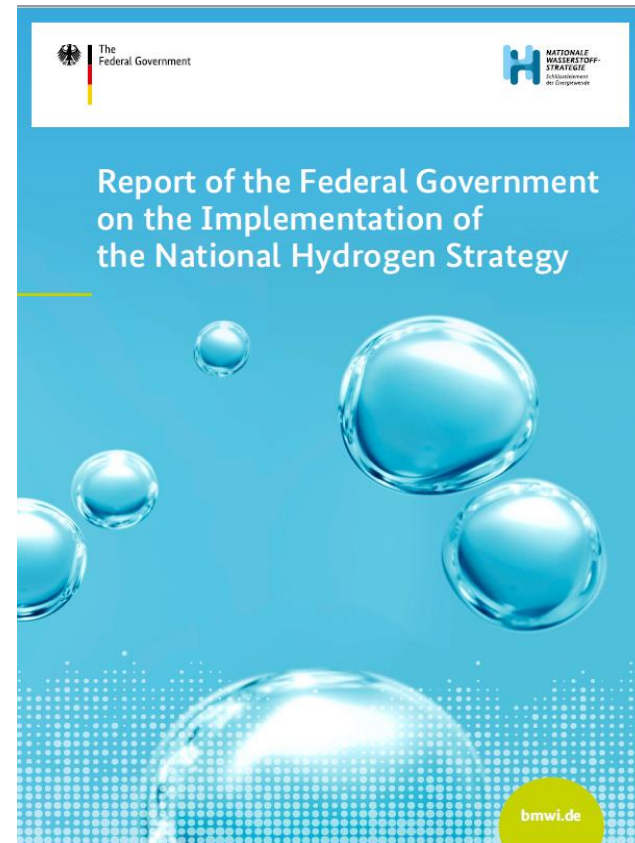
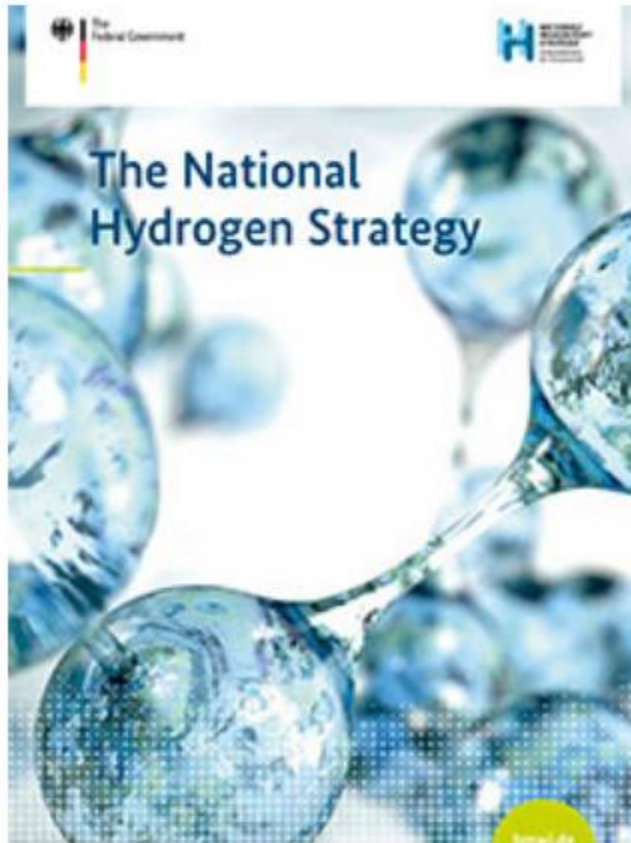




Federal Ministry  
for Economic Affairs  
and Energy

# The German National Hydrogen Strategy

Federal Ministry for Economic Affairs and Energy (BMWi)





## Strategic objectives of the German H<sub>2</sub> strategy

**Establishing H<sub>2</sub> as an  
alternative energy  
carrier (esp. industry,  
mobility)**

**Develop a  
domestic market**

**Transport and  
distribution  
infrastructure**

**Making “green” H<sub>2</sub>  
and related tech  
competitive**

**Promoting R&D**

**Establishing  
international markets  
and cooperation**

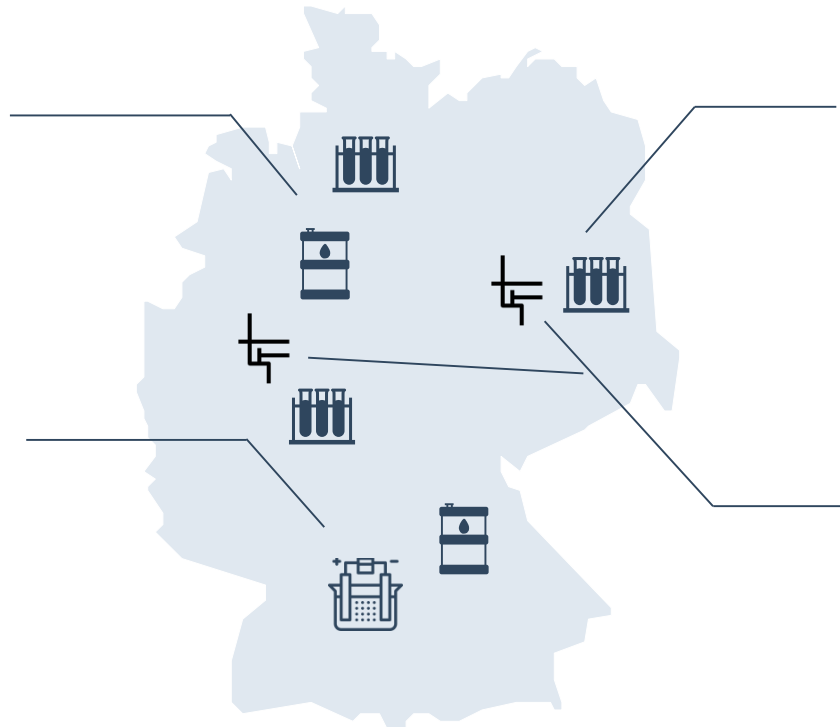
**Transparent  
certification,  
guarantees of origin**



## Hydrogen in Germany: State of play

Total yearly  
production: approx.  
55 TWh mainly  
„grey“ H<sub>2</sub>

3,85 TWh of  
hydrogen are  
produced via  
**electrolysis**

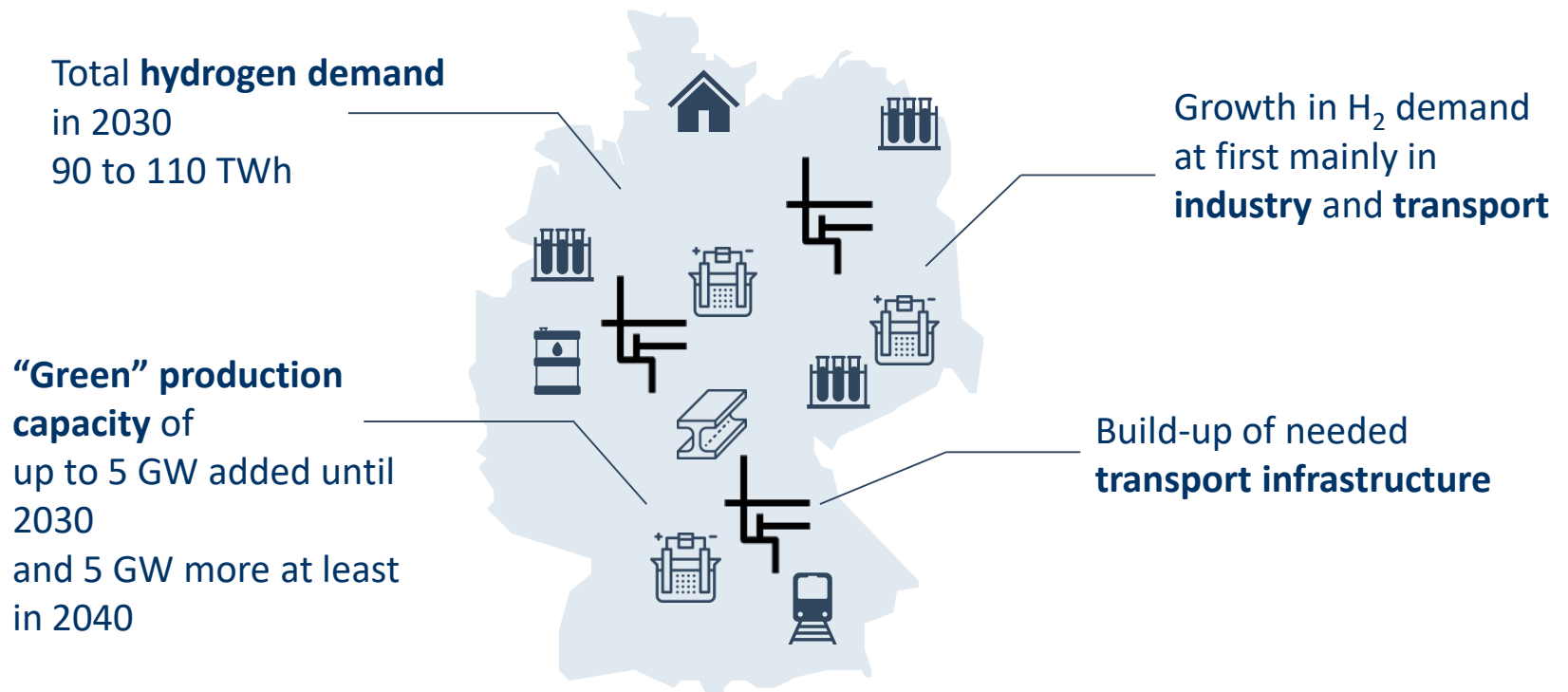


mainly used for **ind. processes**, e.g. production of ammonia, methanol, etc.

**H<sub>2</sub>-infrastructure:**  
Private networks  
operated by Air  
Liquide (>250 km)  
and Linde (90 km)

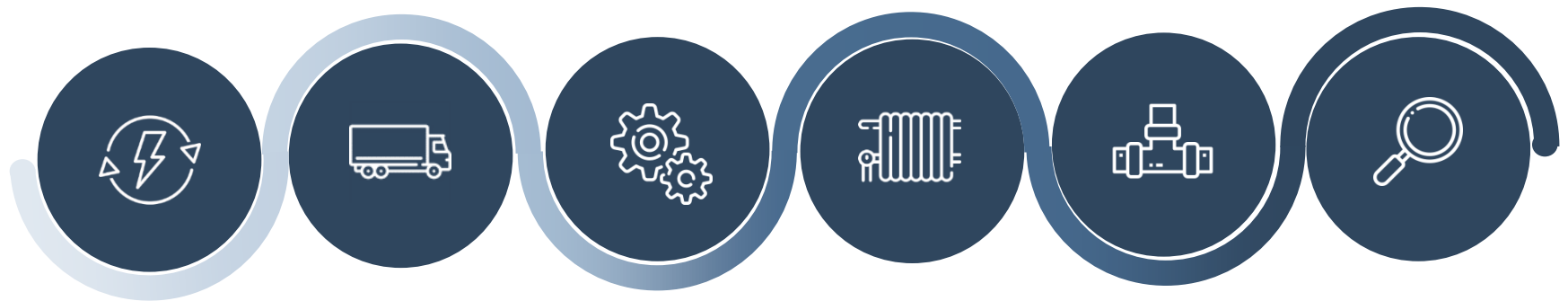


## Future of hydrogen in Germany





## NWS-Action Plan: Necessary steps to success



- **9 bn €** from German recovery plan (“Konjunkturpaket”)
- Use where gap to **profitability** smallest or **no other alternative**
- Focus on **integrated projects** along whole value chain
- **European** approach (esp. via IPCEI)



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## Important Projects of Common European (IPCEI)

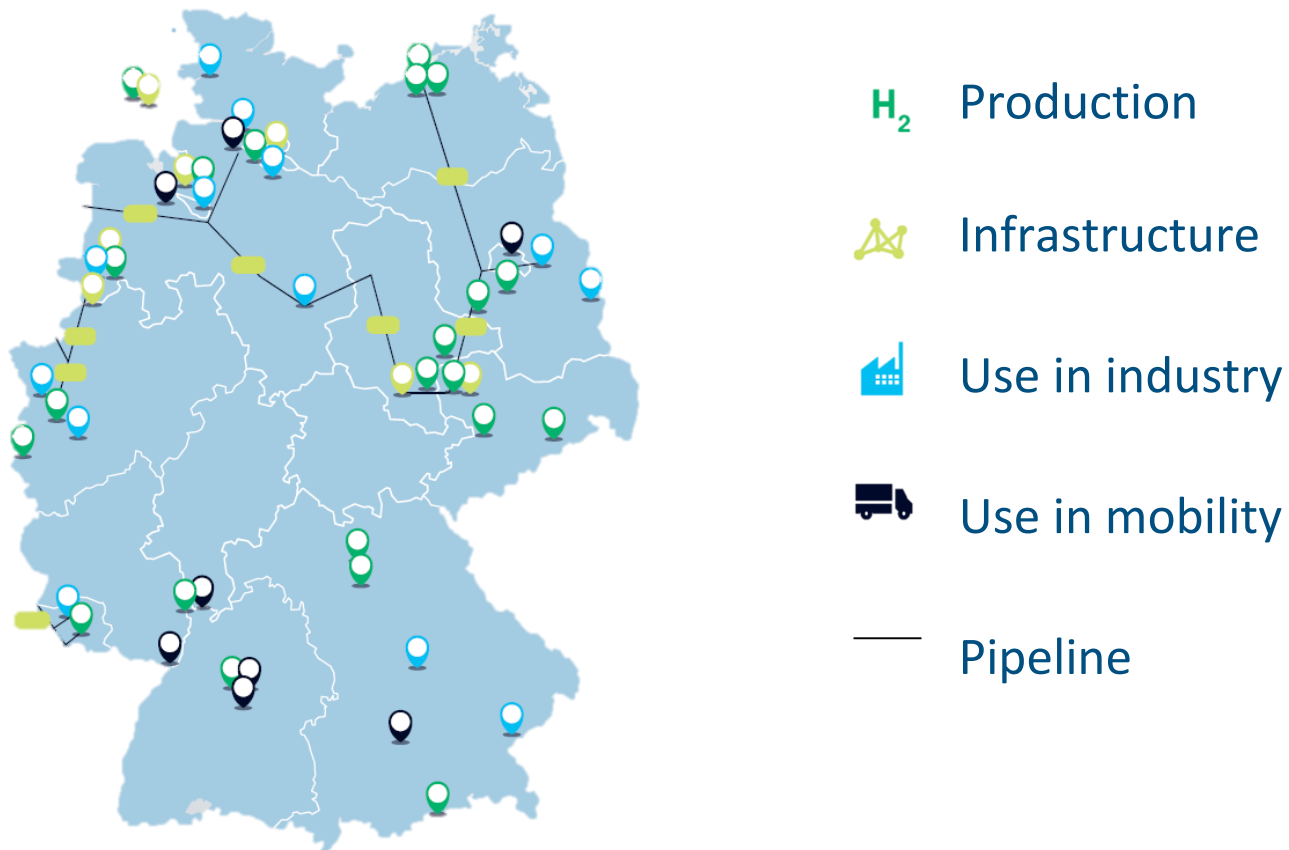
- Promotion of projects with a strong European spill-over character
- Establishment of large-scale production plants

### Current level of implementation

- Approximately 230 projects submitted in the declaration of interest procedure
- Preselection of 62 GER projects announced by Federal Minister Altmaier and Federal Minister Scheuer on May 28th
- EU matchmaking, from end of May 2021 -> European networking
- (Pre-) Notification EC, summer 2021 -> Aid Approval EC
- Granting of funding decisions from 2022



## IPCEI: Pre-selection of 62 GER Projects





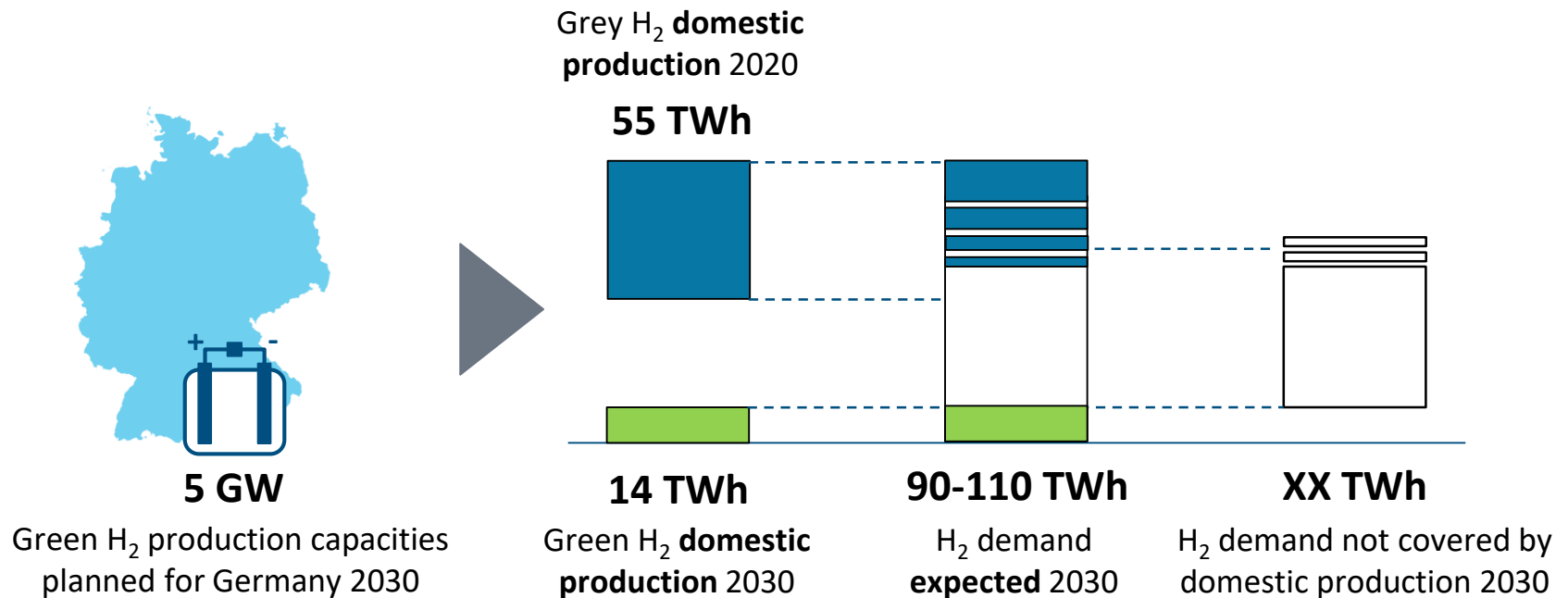


## Improved framework conditions for H<sub>2</sub>

- Fair design of state induced price components for electricity (esp. EEG-surcharge)
- Transparency on CO<sub>2</sub>-footprint of production (need for a European methodology)
- Transitional regulatory framework for future H<sub>2</sub>-infrastructure (EnWG revision)
- Ambitious implementation of the EU Renewable Energies Directive (RED II)
- OPEX: where needed, pilot programs (e.g. Contracts for Difference, CfD)



## A large part of the hydrogen needed in Germany will have to be imported





# International actions

## Funding tools

- **Funding guideline for PtX production facilities abroad**
  - Departmental coordination and market consultation on support guideline for PtX production facilities abroad completed.
- **H2 Global** - Auctions for purchase and sale of H2/ derivatives and compensation by government for difference in purchase and sale prices.
- **Individual subsidies:**
  - Siemens Energy project funding notice in Chile handed over on 02.12.20
  - Grant decision for Thyssen Krupp project in Saudi Arabia handed over on 16.12.20
- **H2 Uppp** - project to support smaller private sector projects through accompanying services
- Participation in **bilateral innovation funds** to support H2 production



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Thank you for your attention !