

Model region Green Hydrogen „H2-Wandel“

The Danube Region at the turn of times

Economic Cooperation and Hydrogen Supply Chains along
the Danube

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Kofinanziert von der
Europäischen Union



Baden-Württemberg

Goals of the model region:

- Establishment and operation of an ecosystem for Green Hydrogen in Baden-Württemberg (BW).
- Making hydrogen practically tangible for industry, administration, and the public.
- Implementation of five flagship projects.
- Public relations and knowledge transfer through the newly founded association „H2-Wandel e.V.“.

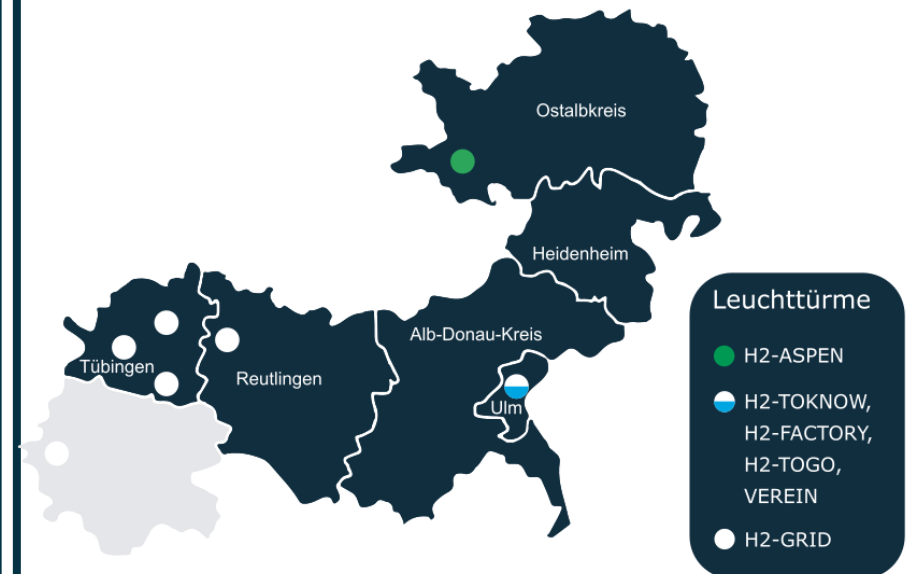
Financial volume of the model region:

- Budget: 51 Mio. €
- Funding via EFRE from EU and State Baden-Württemberg: 31 Mio. €

20 project participants from:

- Municipalities
- Public utilities
- Industry
- Research institutions
- 98 Letter of Intent

The model region H2-Wandel:



the flagship projects of the modelregion



The four flagship projects of H2-Wandel

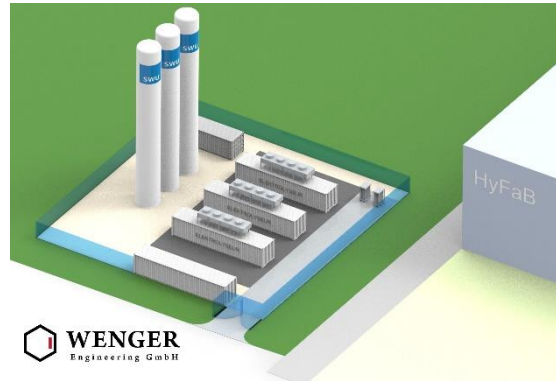
H2-Factory: Construction of a 3 MW electrolyzer in the supply area city of Ulm

Key figures:

- 2023: Planning Services
- 2024: Tendering of the facility
- 2025: Commissioning

Investment: 7,9 Mio. €

Funding: 3,6 Mio. €



WENGER
Engineering GmbH

H2-ToGo: Hydrogen refueling station (HRS) and testing of light and heavy commercial vehicles in Ulm

Key figures:

- 2023: light duty vehicle procurement
- 2024: Planning and start of Construction of the HRS
- 2025: Commissioning HRS

Investment: 5,4 Mio. €

Funding: 3,5 Mio. €



Quelle: Michael Bächler, H2-Wandel e.V.

H2-Aspen: Construction of a electrolyzer with 10 MW and a hydrogen refueling station in Schwäbisch Gmünd

Key Figuren:

- 2023: Planning and Permit
- 2023 - 2024: Construction
- 2024: Commissioning

Investment: 20 Mio. €

Funding: 11,5 Mio. €



Quelle: Lhyfe

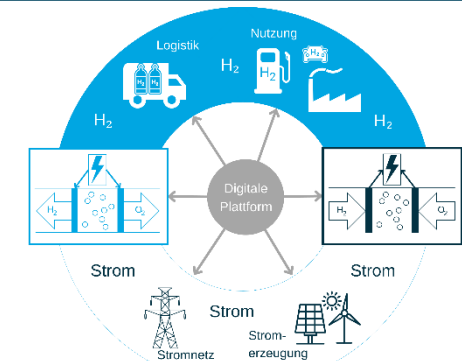
H2-Gird: decentralized electrolyzers less than 1 MW in Reutlingen, Tübingen und Ulm - network serving operation

Key figures:

- 2023: Planning
- 2024: Tendering for the facilities / commissioning at research partners
- 2024 - 2025: Construction and commissioning at industry partners

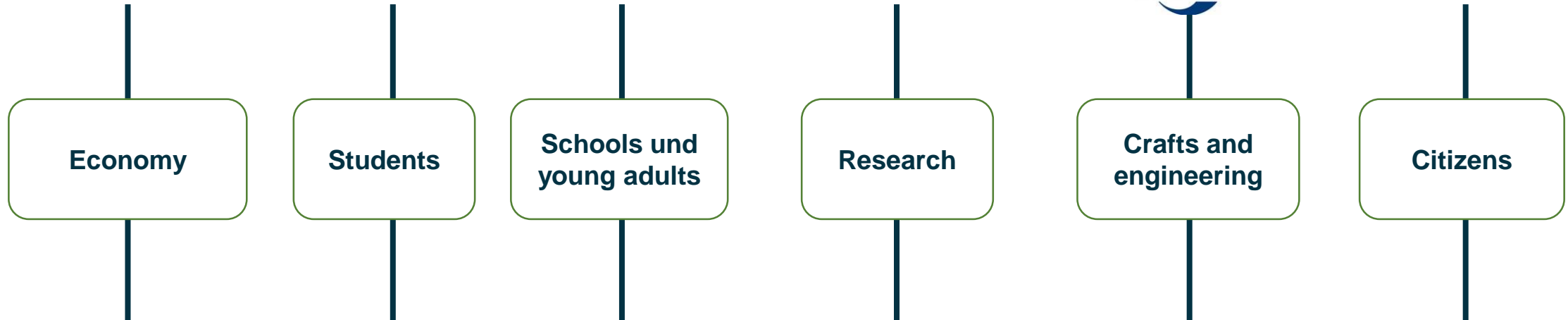
Investment: 14,7 Mio. €

Funding: 10 Mio. €



Quelle: Karin Pfister, Hochschule Reutlingen

H2-ToKnow: education, training and professional development



Societal Development: Diverse educational opportunities for all target groups create access to knowledge and strengthen acceptance.

Innovation and Progress: A well-educated population promotes innovation and technological advancement in the region



Activities of the association “H2-Wandel”:



Coordination of H2-Wandel



- Organization of consortium meetings
- Communication with the funding provider
- Collaboration with accompanying research

Public Relation



- Coordinating the public relation
- Provision of information
- Public dialogues/excursions
- Interactive concepts & tours
- Social media

Creating a network



- Networking events
- Excursions
- Special events (e.g., information evening on H2 technologies)
- Initial consultations
- Knowledge transfer



Main impacts and learnings



Model regions are create for the start, but there are still challenges.



1. In a model region important initial infrastructures are established. New projects are easier, as they can be integrated there.
2. For a succesfull project => think the whole the value chain (Production-Distribution-User)
3. Smaller projects (< 1 MW) are facing higher specific costs.
4. There is a need for standards and interoperability.
5. Challenging regulation => Support from the authority and communication is the key



We would be happy to discuss possible cooperations along the Danube!



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Stay tuned:

Our Website: <https://h2-wandel.de/>

LinkedIn: <https://www.linkedin.com/company/h2-wandel-wasserstoff-modellregion/>