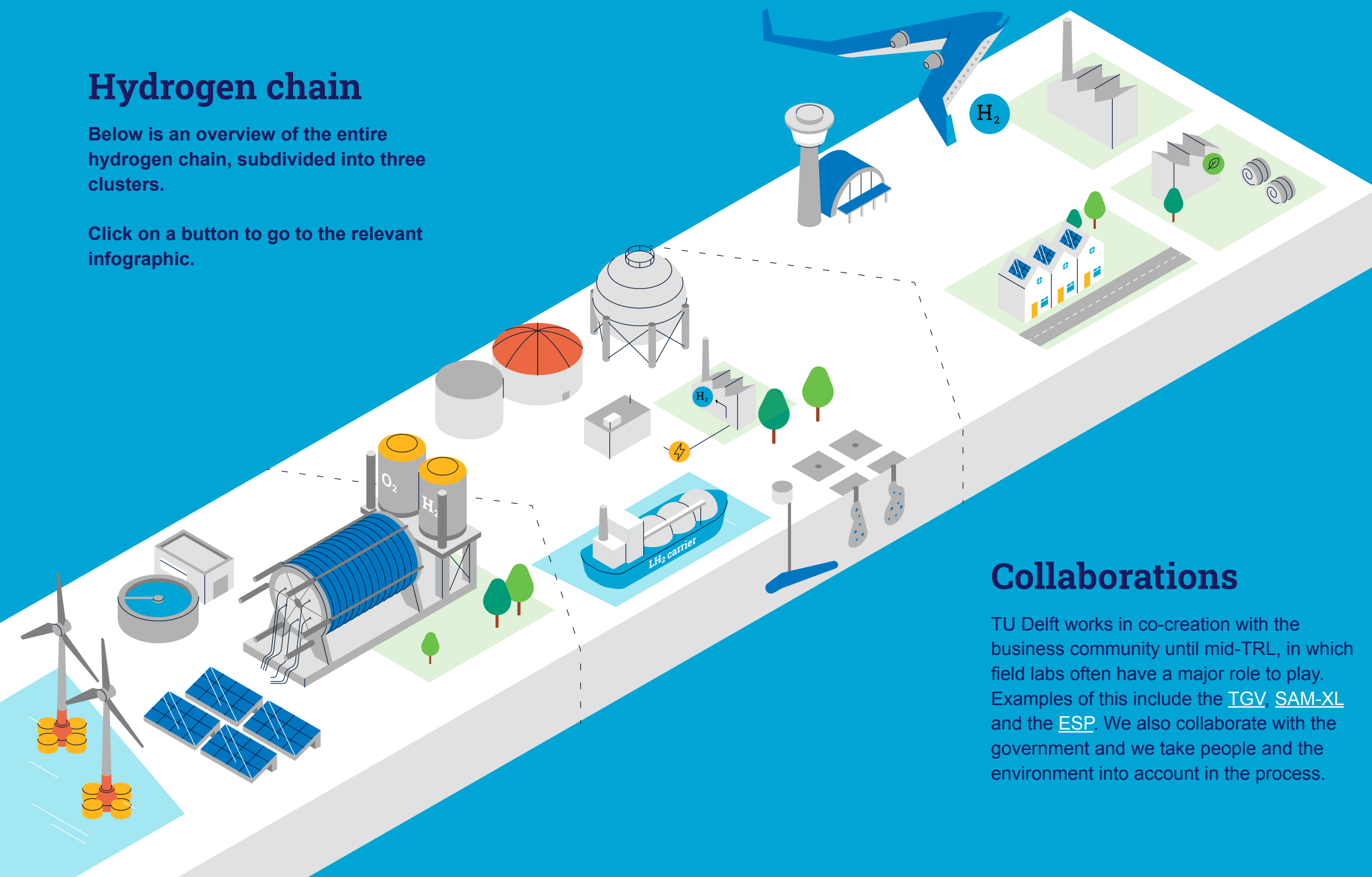


# TU Delft Hydrogen research

## Hydrogen chain

Below is an overview of the entire hydrogen chain, subdivided into three clusters.

Click on a button to go to the relevant infographic.



## Collaborations

TU Delft works in co-creation with the business community until mid-TRL, in which field labs often have a major role to play. Examples of this include the [TGV](#), [SAM-XL](#) and the [ESP](#). We also collaborate with the government and we take people and the environment into account in the process.



For a sustainable world

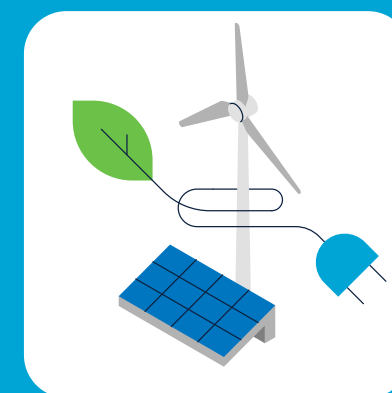
Research objectives



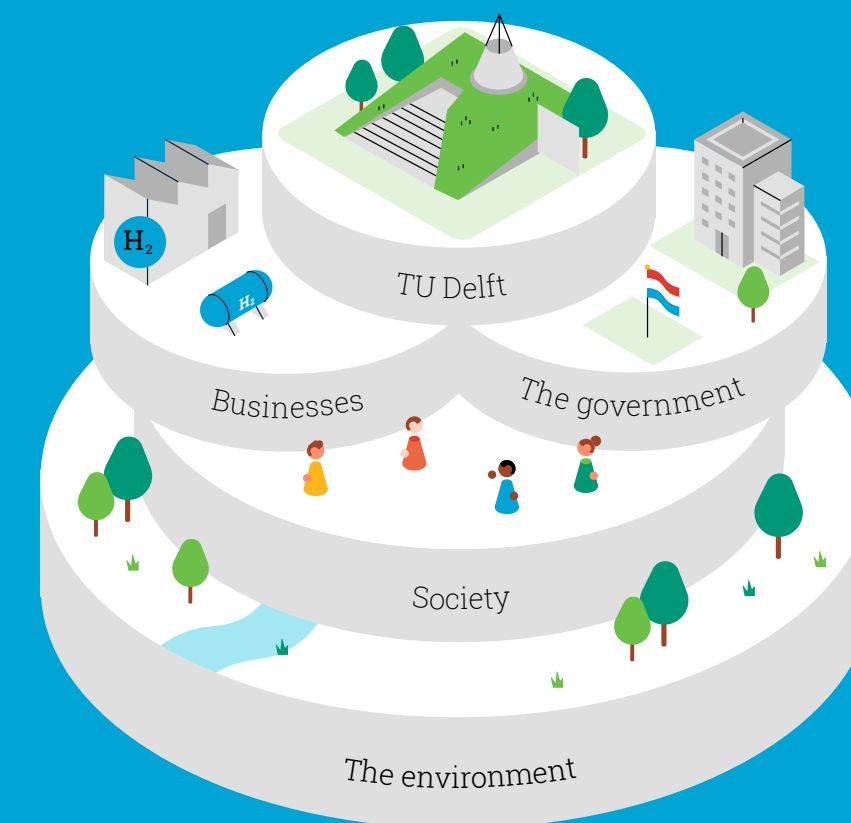
Energy security



Cost effective and safe



Clean energy and its applications

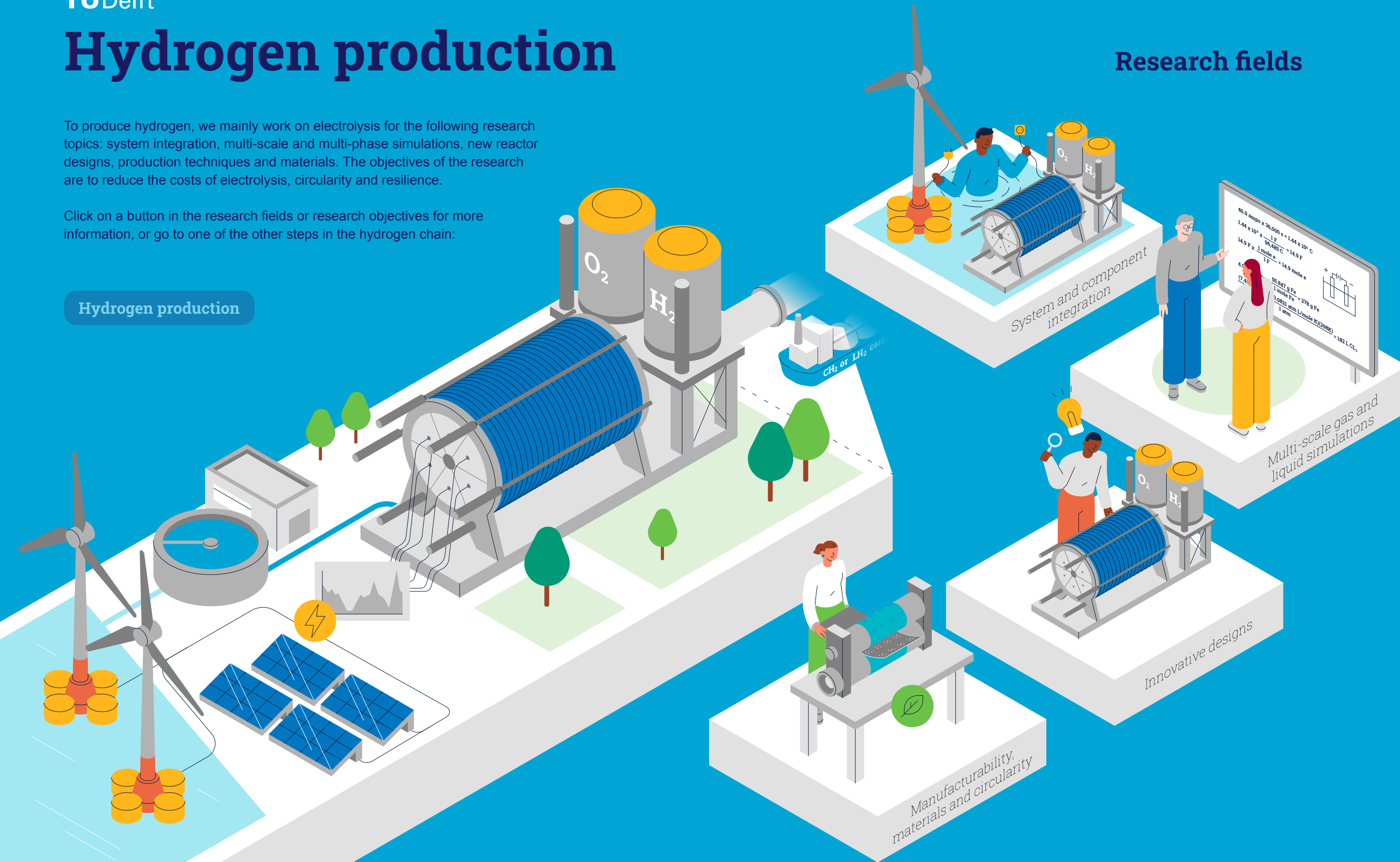


# Hydrogen production

To produce hydrogen, we mainly work on electrolysis for the following research topics: system integration, multi-scale and multi-phase simulations, new reactor designs, production techniques and materials. The objectives of the research are to reduce the costs of electrolysis, circularity and resilience.

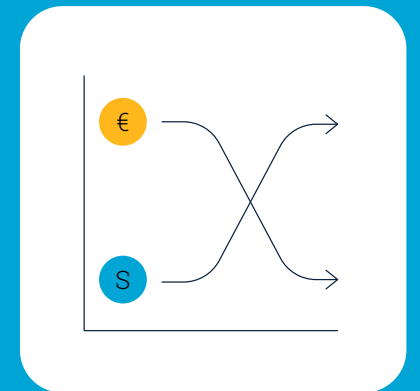
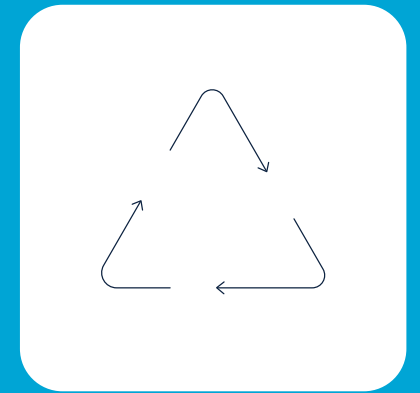
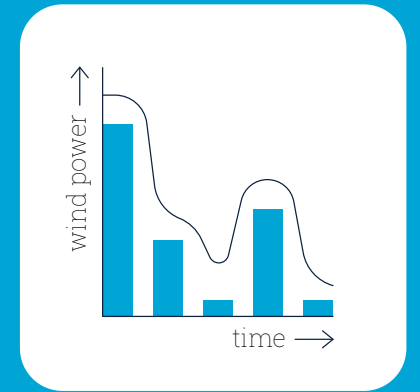
Click on a button in the research fields or research objectives for more information, or go to one of the other steps in the hydrogen chain:

Hydrogen production



## Research fields

## Research objectives

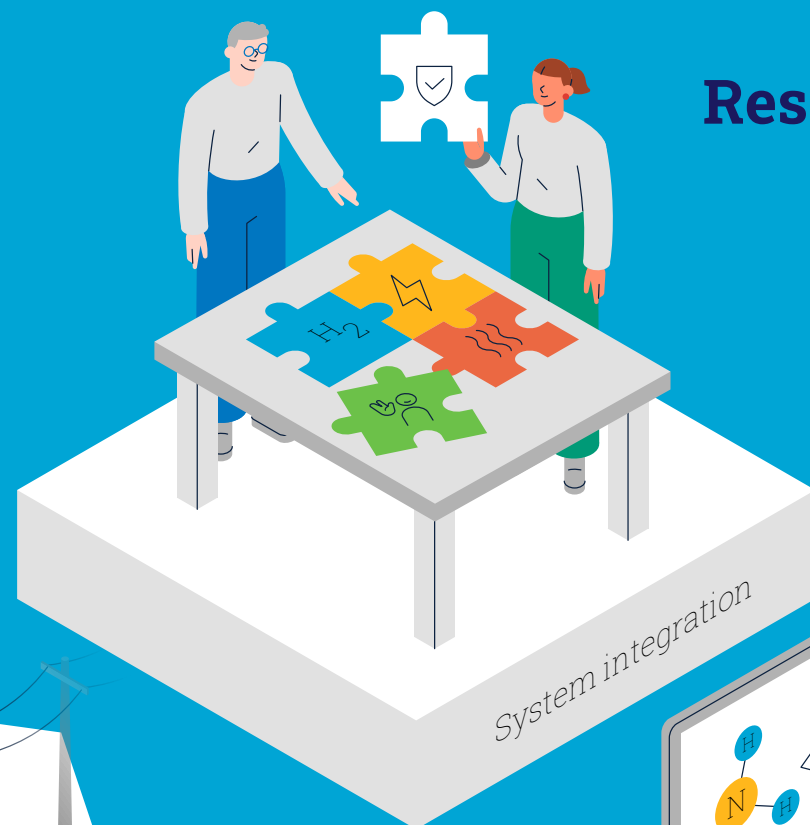


# Transport, storage and distribution

For transport, storage and distribution, TU Delft mainly works in the following research fields: system integration, materials, hydrogenation, dehydrogenation and geosciences. The objective of this is to contribute to a reliable and cost-effective hydrogen integrated power system.

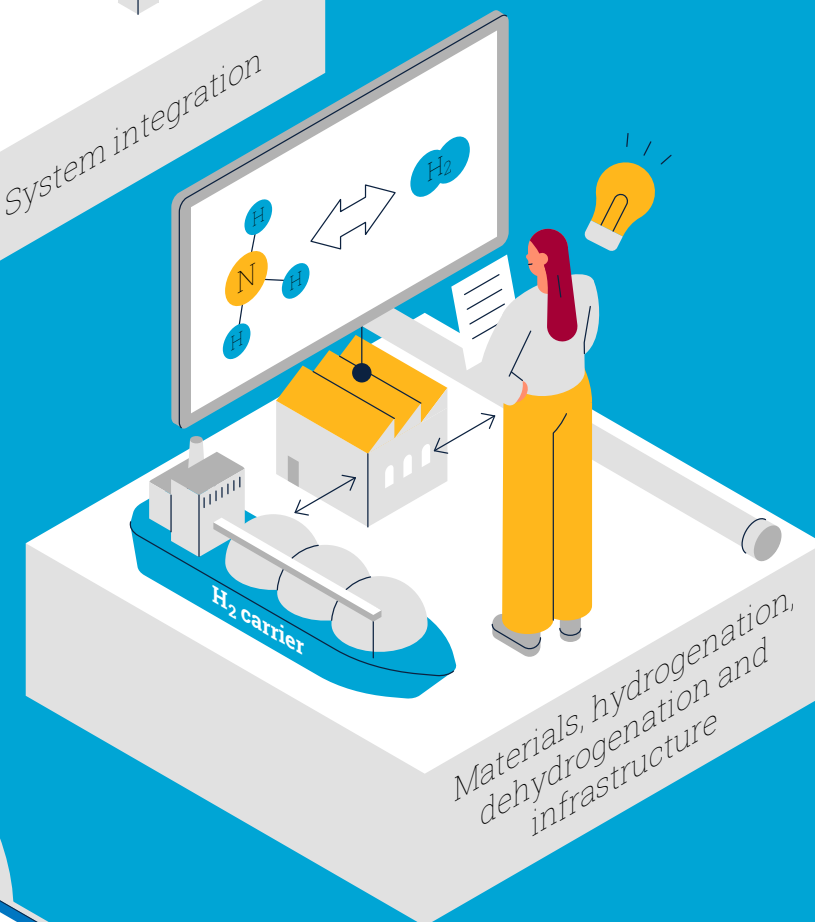
Click on a button in the research fields or research objectives for more information, or go to one of the other steps in the hydrogen chain:

Transport, storage and distribution



Research fields

System integration



Materials, hydrogenation, dehydrogenation and infrastructure



Large-scale storage

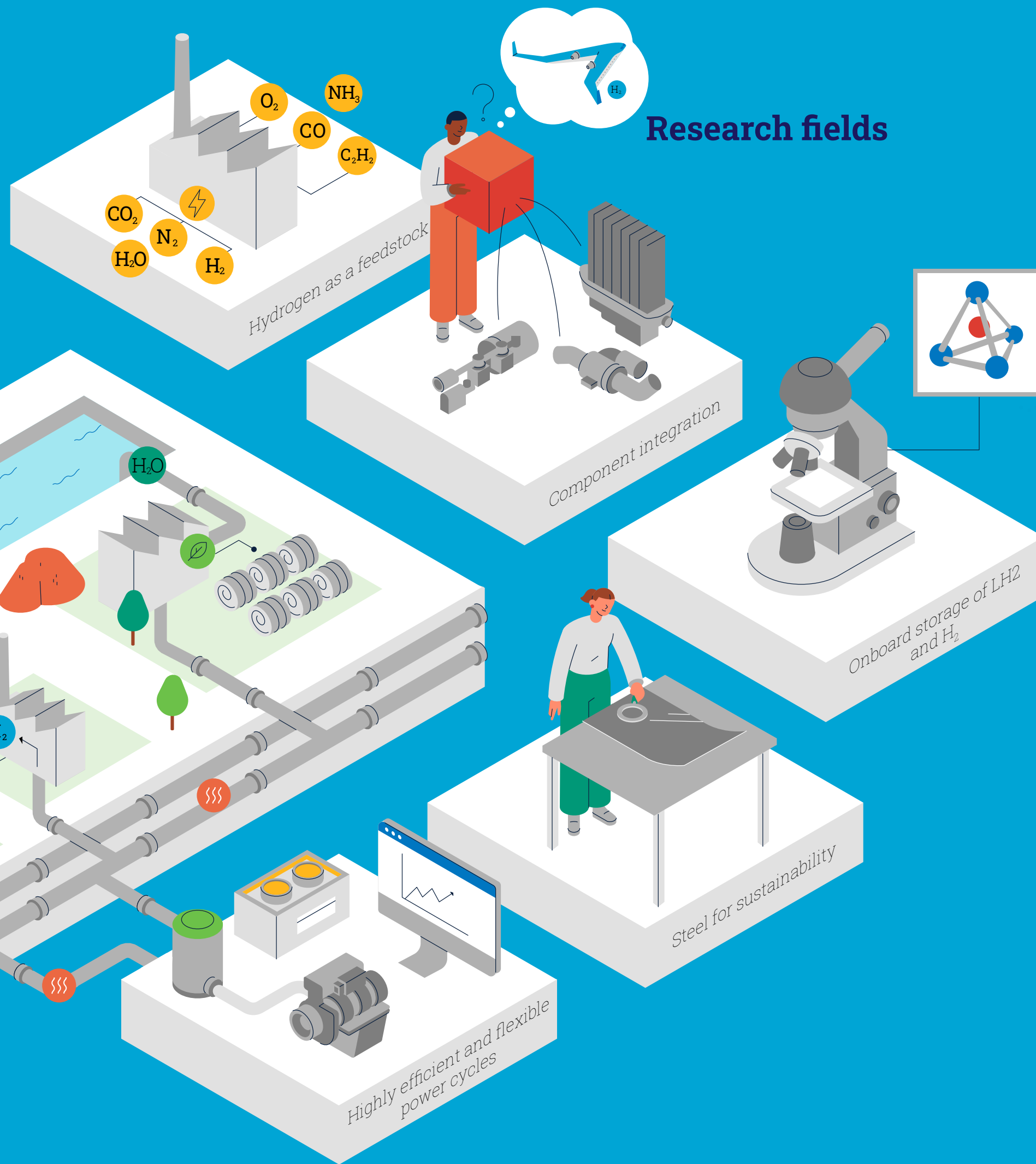
Research objectives



# Applications

To be able to use hydrogen in new industries, TU Delft is mainly conducting research in the following fields: system integration, onboard storage of LH2 and H2, green steel and new power cycles.

Click on a button in the research fields or research objectives for more information, or go to one of the other steps in the hydrogen chain:



Applications

Research fields

Research objectives

