

Seeing Green with HySynth

The Netherlands has set an ambitious goal to achieve net-zero carbon emissions by 2050. A critical part of this effort involves transitioning industries from fossil fuels to renewable hydrogen. However, the adoption of green hydrogen faces several challenges, including high production costs, financial risks, and inadequate infrastructure. The research proposes the development of Local Hydrogen Networks (LHNs) that cluster regional demand, integrate renewable energy sources, and foster strategic partnerships. These networks are designed to be scalable and adaptable to regional needs, making hydrogen adoption more feasible.

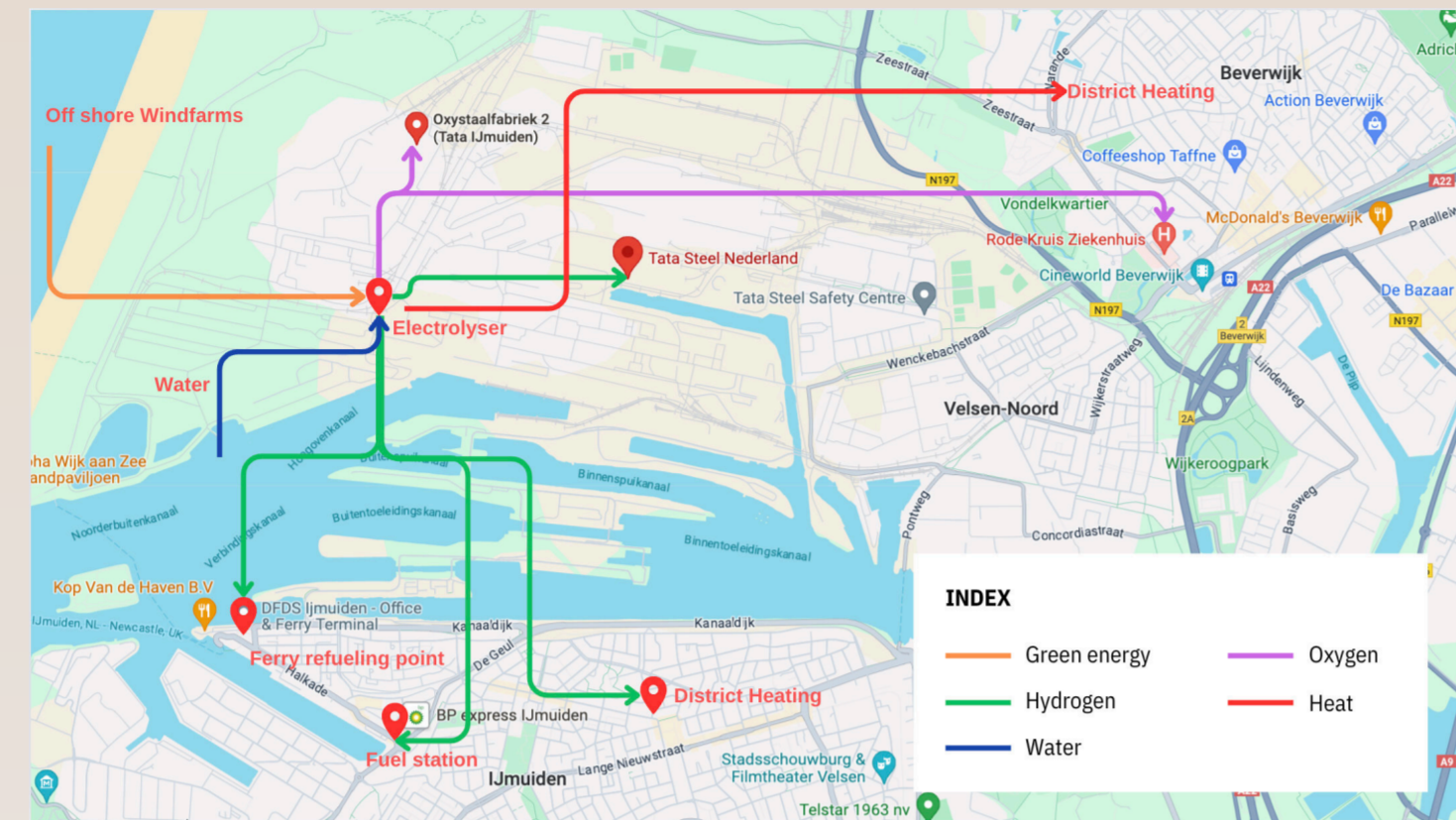


Figure 1: An example of a Local Hydrogen Network

Local Hydrogen Networks (LHNs) can be developed by leveraging data on the input and output of industries across the country. However, these datasets are often complex and challenging for many to interpret. HySynth's data visualisation features are crucial in making this information accessible and intuitive for stakeholders. By translating intricate data into clear visual formats, HySynth allows users to easily navigate through different layers of information, compare regions, and pinpoint key opportunities for collaboration. This method not only enhances decision-making but also promotes greater transparency and engagement among all stakeholders involved.

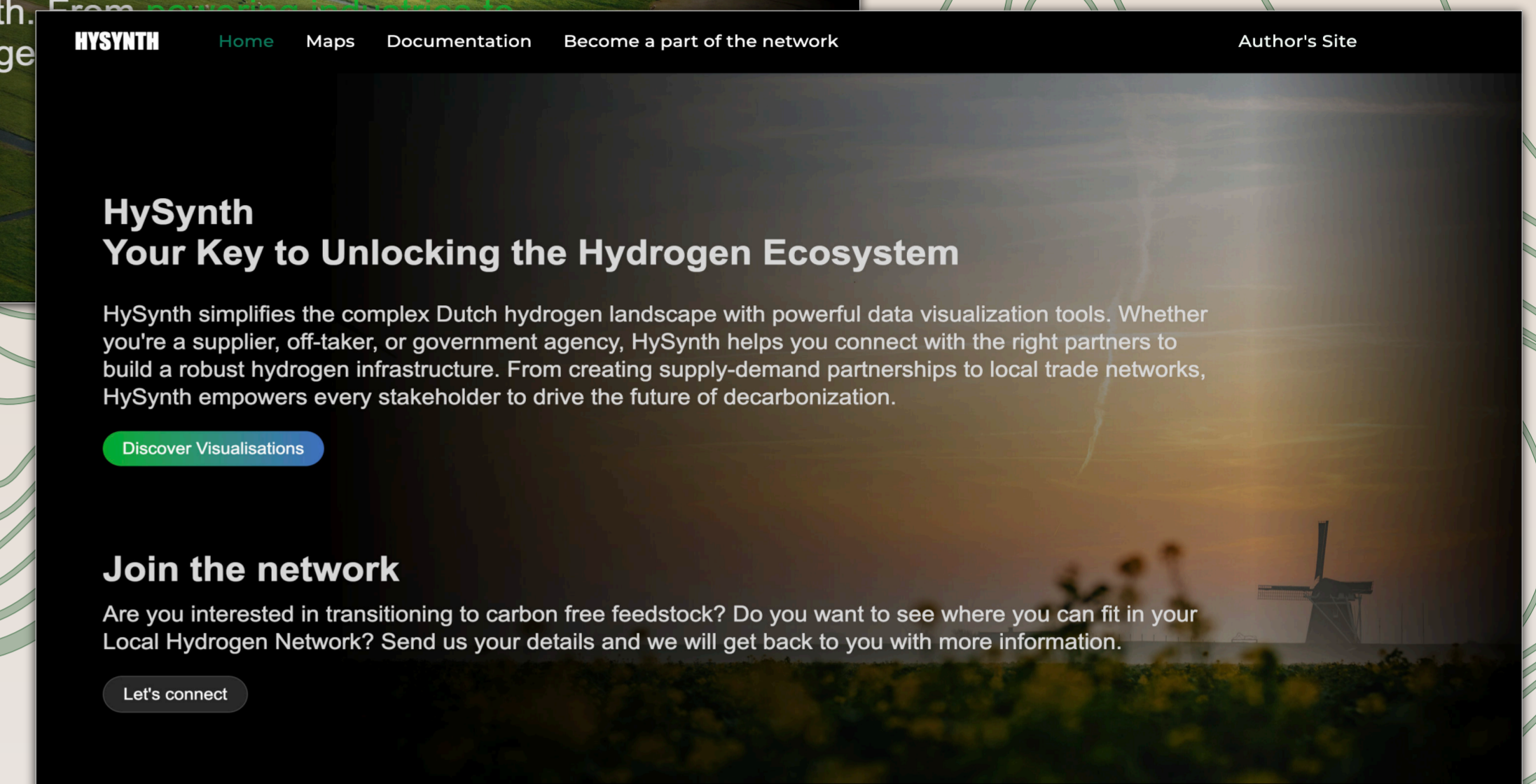
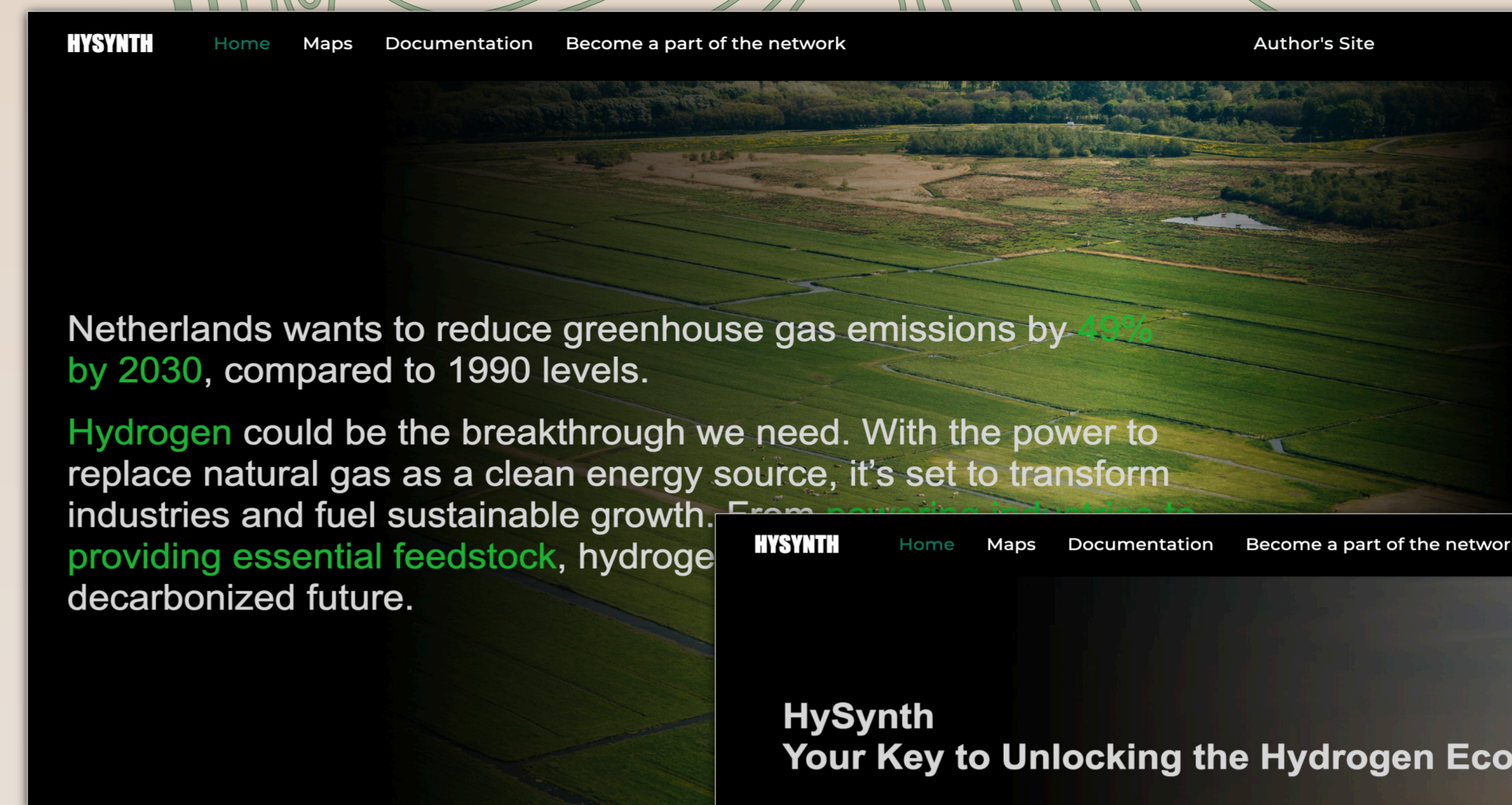


Figure 2 : HYSYNTH

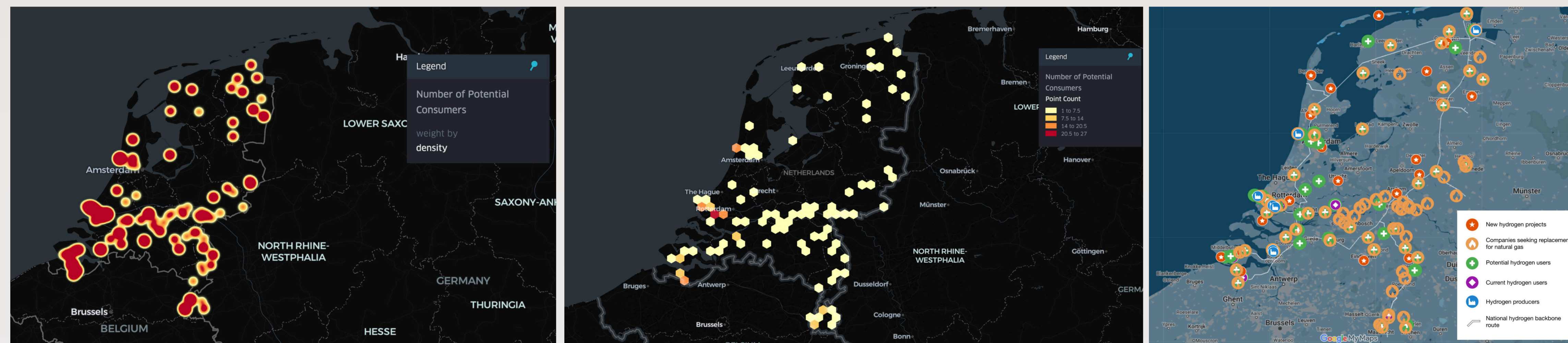


Figure 3 : Data visualisation tools in HySynth



Visit www.yallaling.design/h2 or scan the QR code to use HySynth and learn more about data visualisation for hydrogen infrastructure

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Seeing Green : Data Visualisation as a Catalyst for Hydrogen Powered Decarbonisation

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