

keynote address by
Koen Schuiling Mayor City of Groningen
at the INTERNATIONAL HYDROGEN SYMPOSIUM
on 23/10/2019 in Hamburg Germany

Groningen the hydrogen valley

Groningen the hydrogen valley



where?
why?
why here?
?

Groningen the hydrogen valley

where?

WHERE IS
GRONINGEN



HERE IS **GRONINGEN**




where?



LIVELY CITY

231.620 Inhabitants
155.000 Jobs
529.140 m² shops



HEALTHY CITY

Highest ranking as European Reference Region for Active & Healthy Ageing: 4 stars
First documented 100-year-old in the world
30 hectares of Healthy Ageing Campus



YOUNGEST CITY

Half of the inhabitants are < 35 years



HAPPIEST CITY

Cleanest city air in the Netherlands
Scoring in the top five European cities for quality of life, education, public domain and health care.



24 HOURS

■ open
□ closed

There are no closing hours for bars



2 GREAT UNIVERSITIES

ALETTA JACOBS
First female University graduate in the Netherlands

University Groningen:
founded over 405 years ago
#66 in the academic ranking of World Universities

Hanze University of Applied Sciences:
6th worldwide in the field of entrepreneurship.
26.000 students and 3.000 staff members.

where?

ENERGY CITY



Football stadium holds biggest collective solar power project in the Netherlands
Leading in sustainable energy: communal vehicles, like waste trucks, run on hydrogen
Lighthouse city for energy transition in city districts

CYCLING CITY



65% of all journeys are on bikes
150.000 bicycle movements per day within the city

ALBERT SZENT-GYÖRGYI
Nobel Prize in Physiology or Medicine



FRITS ZERNIKE
Nobel Prize in Physics



KAMERLINGH ONNES
Nobel Prize in Physics



BEN FERINGA
Nobel Prize in Chemistry



BRIGHT CITY

4 Nobel Prize winners
2nd Start-up city after Amsterdam, more than 450 start-ups
80.000 students, of which 8.600 internationals
44% of the inhabitants have a university degree

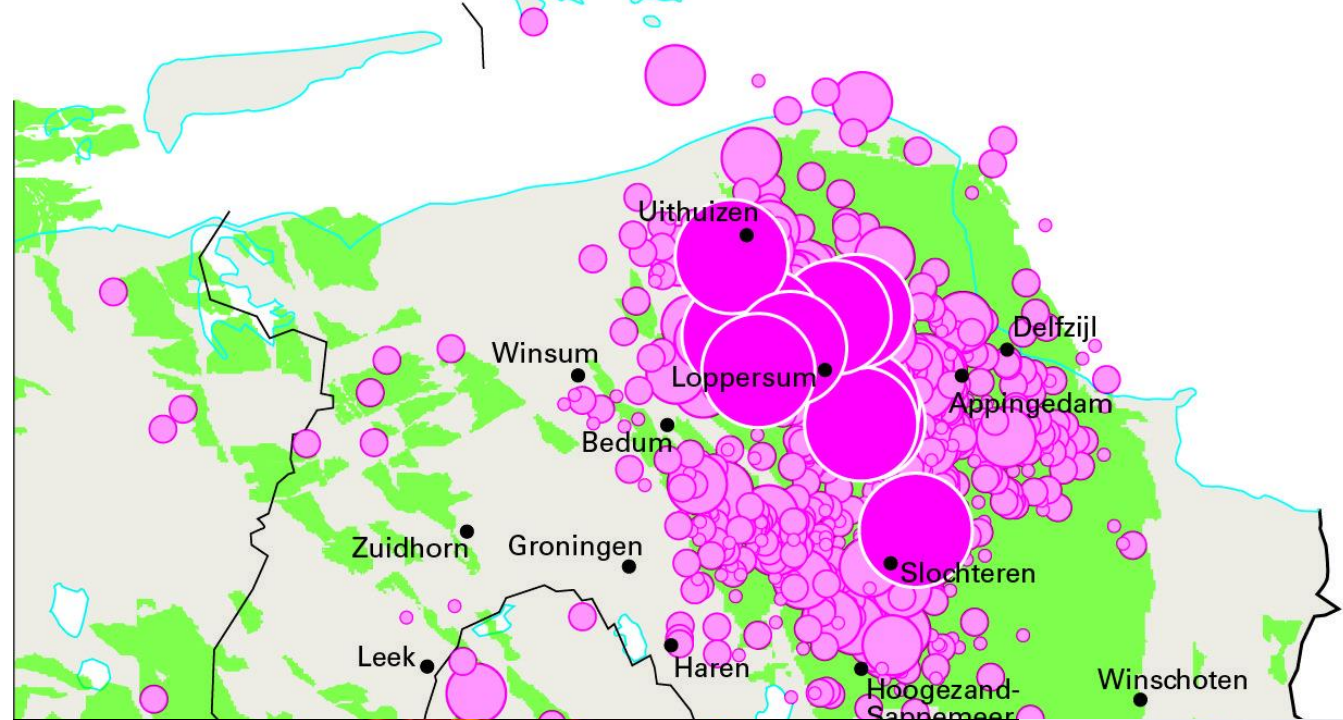


CAMPUS GRONINGEN



198 companies, fastest growing in the Netherlands
46.000 students and 21.000 jobs
UN Global Center on Climate Adaptation opened in 2018

why?

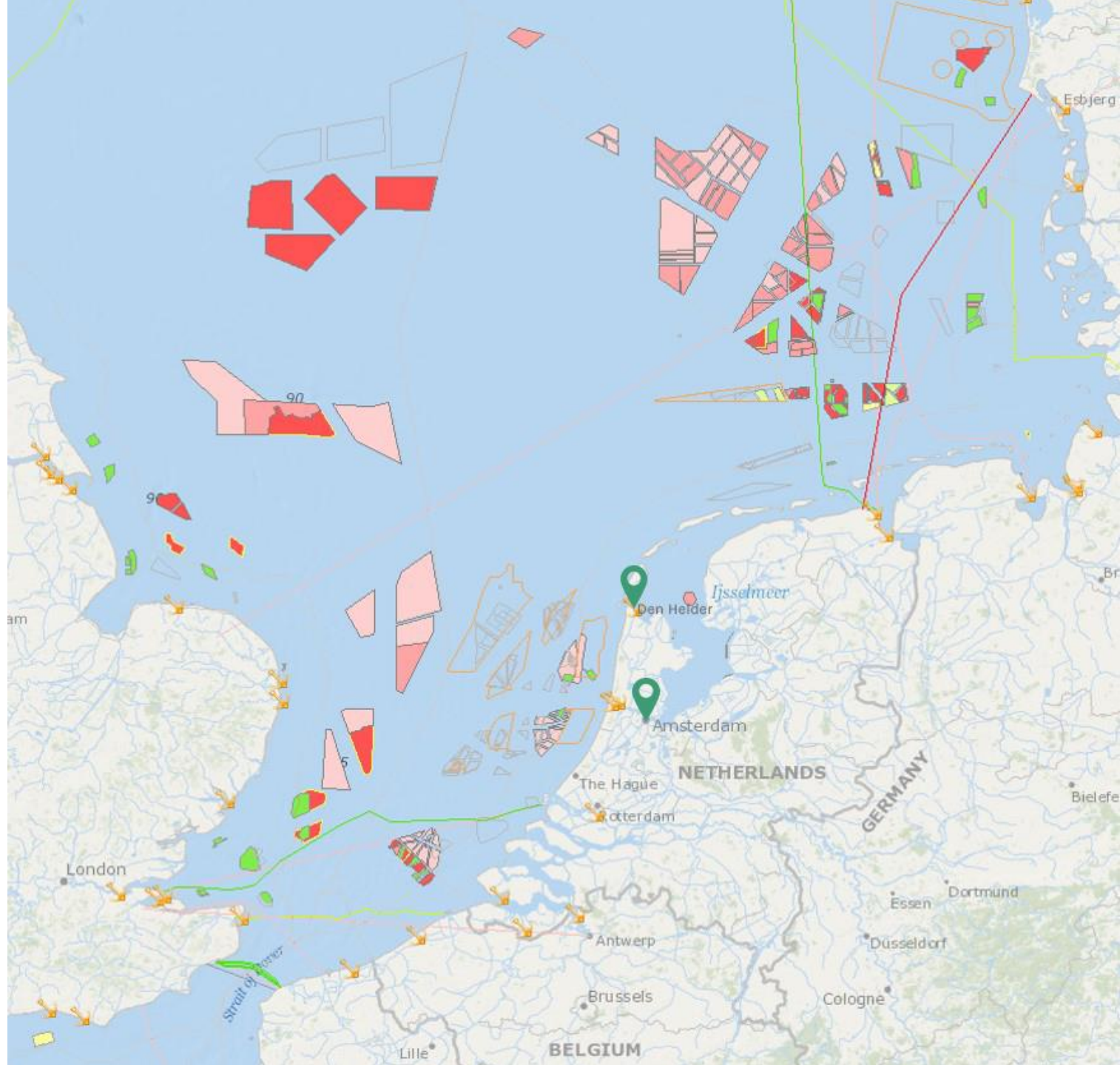


why?



why here?

a good geographic position with the North Sea and the rapidly growing sea port of Eemshaven nearby



why here?

in the city and the region, talent and knowledge centers possess a strong will and the space to experiment in a mature and market driven knowledge infrastructure.



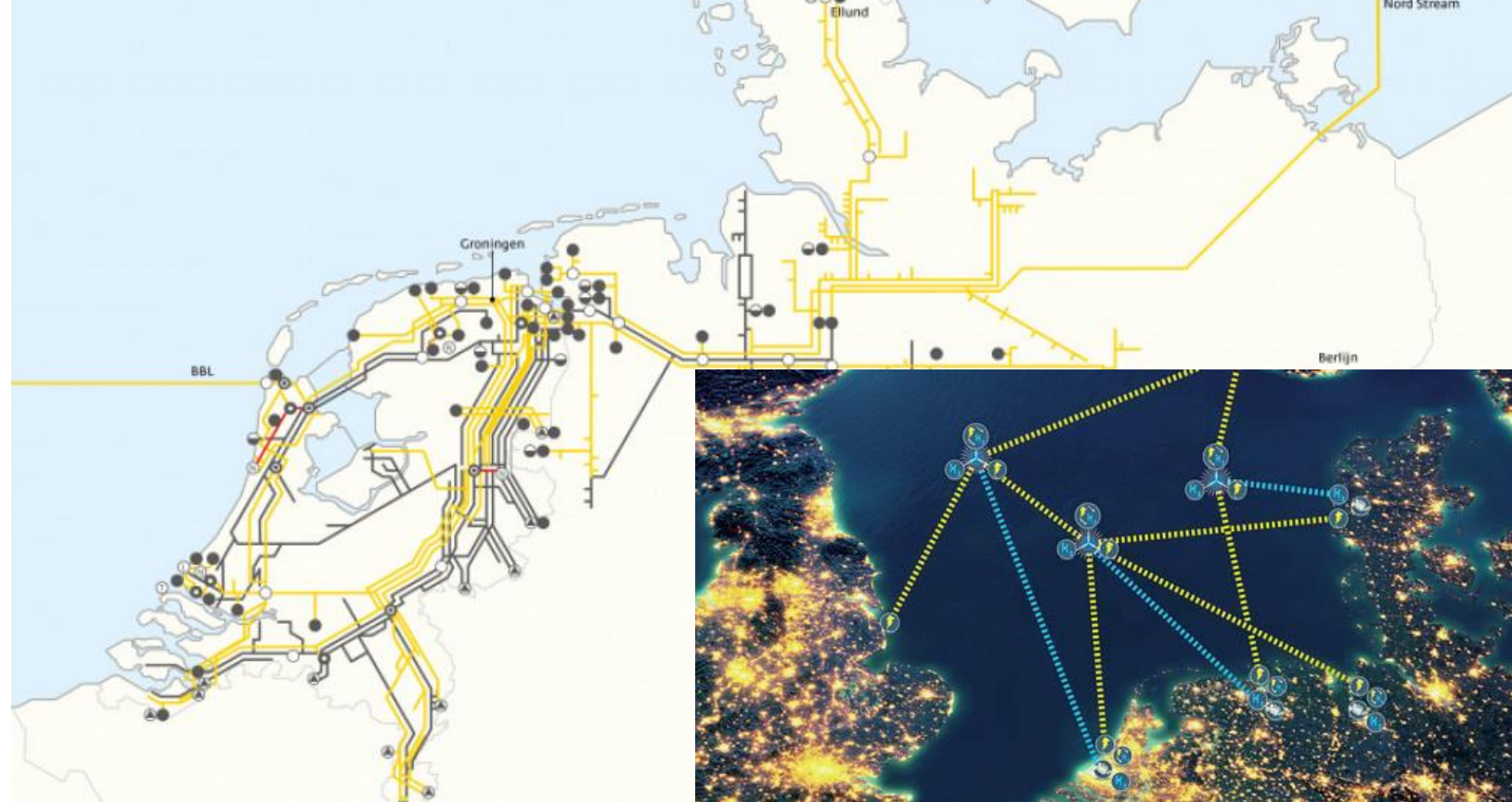
why here?

much experience already with the production and utilization of hydrogen



why here?

an existing and planned gas infrastructure and large underground storage capability



Waterstof backbone 2030

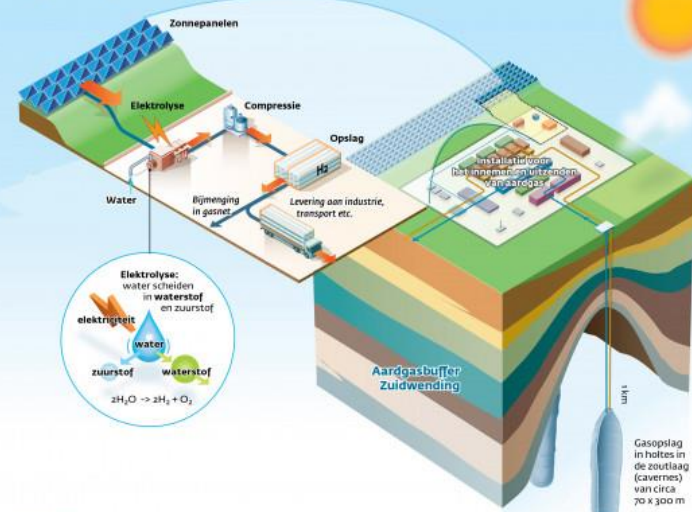
Als onafhankelijk netbeheerder en verbinder kan Gasunie waterstof transporteren en de grote industriële clusters in Nederland verbinden in een waterstofnetwerk. Gasunie maakt hiervoor zoveel mogelijk gebruik van bestaande infrastructuur.



- Bestaande gasleiding
- Aanpassing bestaande compressorstation
- Nieuwe waterstofleiding
- i Industriële cluster
- Opslag waterstof

HyStock pilotproject

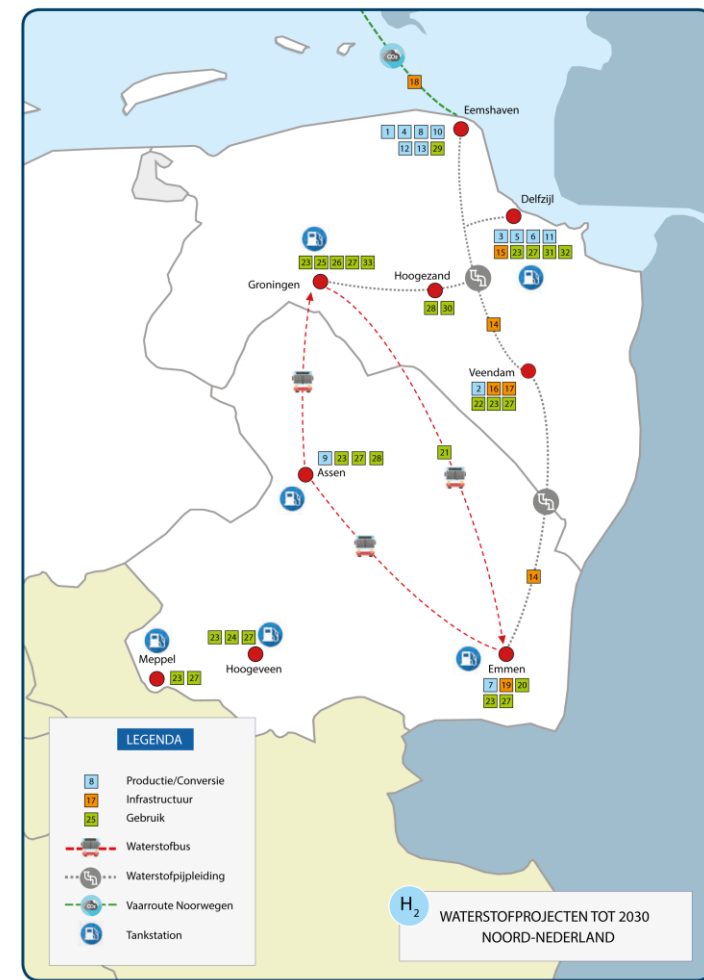
Waterstof uit elektriciteit opslaan in de aardgasbuffer



why here?

we've been at it for some
time now

The Green Hydrogen Economy in the Northern Netherlands



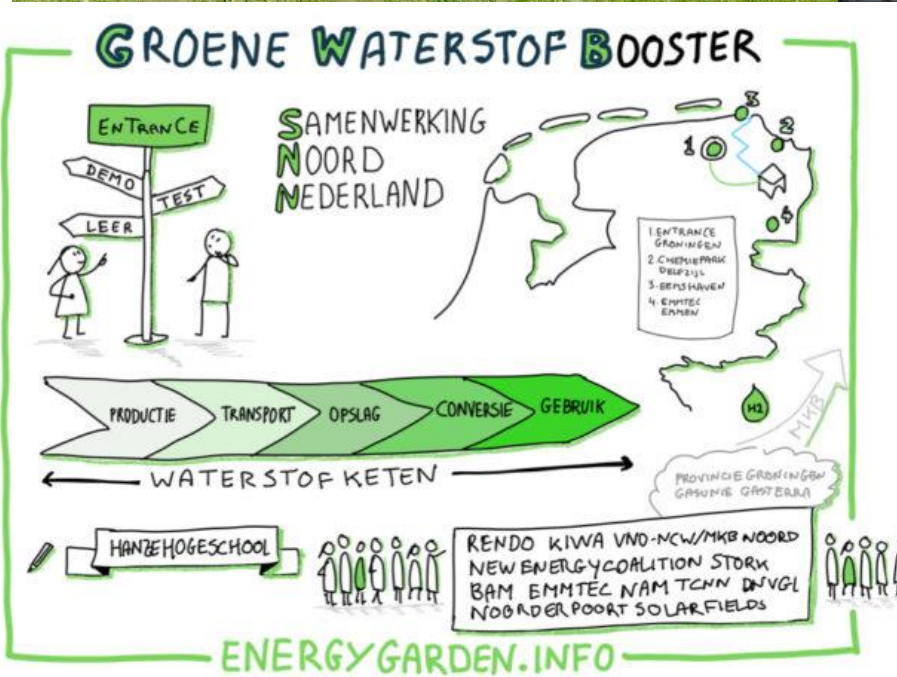
Overzichtkaart met waterstofprojecten tot 2030



HYDROGEN VALLEY

why here?

we've been at it for some time now



W
W
why here?



thank you!

Groningen
the hydrogen valley