



WaterstofNet: regional hydrogen initiative Flanders – South-Netherlands

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WaterstofNet

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WaterstofNet

- non-profit organisation (3 persons, 1/7/2009)
- Coordinating a 14 M€ regional crossborder hydrogen project within EU Interreg-programme
- Coordinating the Flemish network on hydrogen and fuel cells (VSWB)
- Official representative of Flanders in HyRaMP
- Member of the board of HyRaMP

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What is the role of a region ?

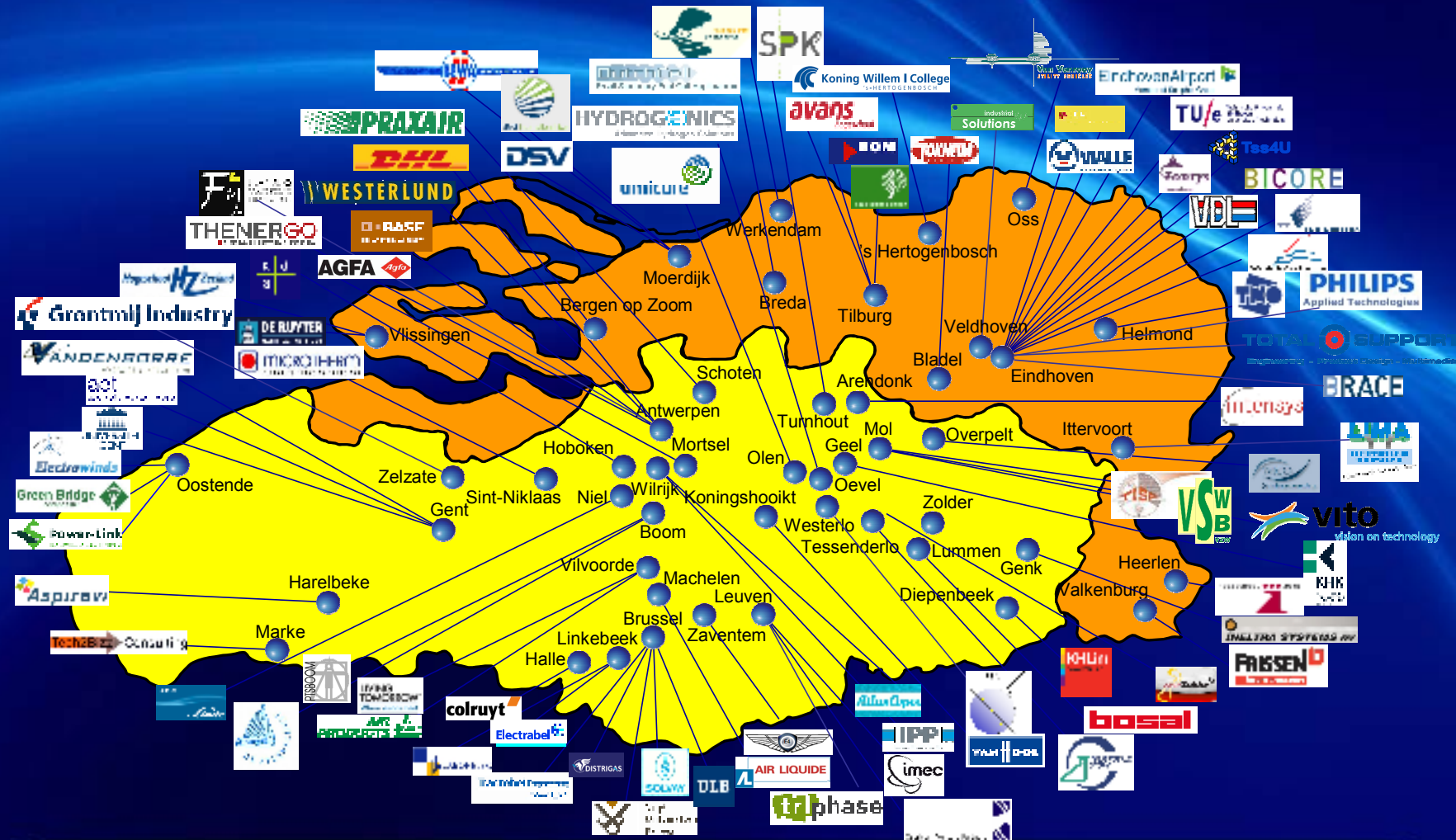
- Region is key-element in implementation, answering following questions :
 - Who are regional early adopters ?
 - Co-funding possibilities from the region ?
 - Regional permitting/licensing projects ?
 - Regional industrial activities (esp. SME) ?
 - Education/training/communciation ?



Step 1: Strong points the region



Step 2 : Regional interest

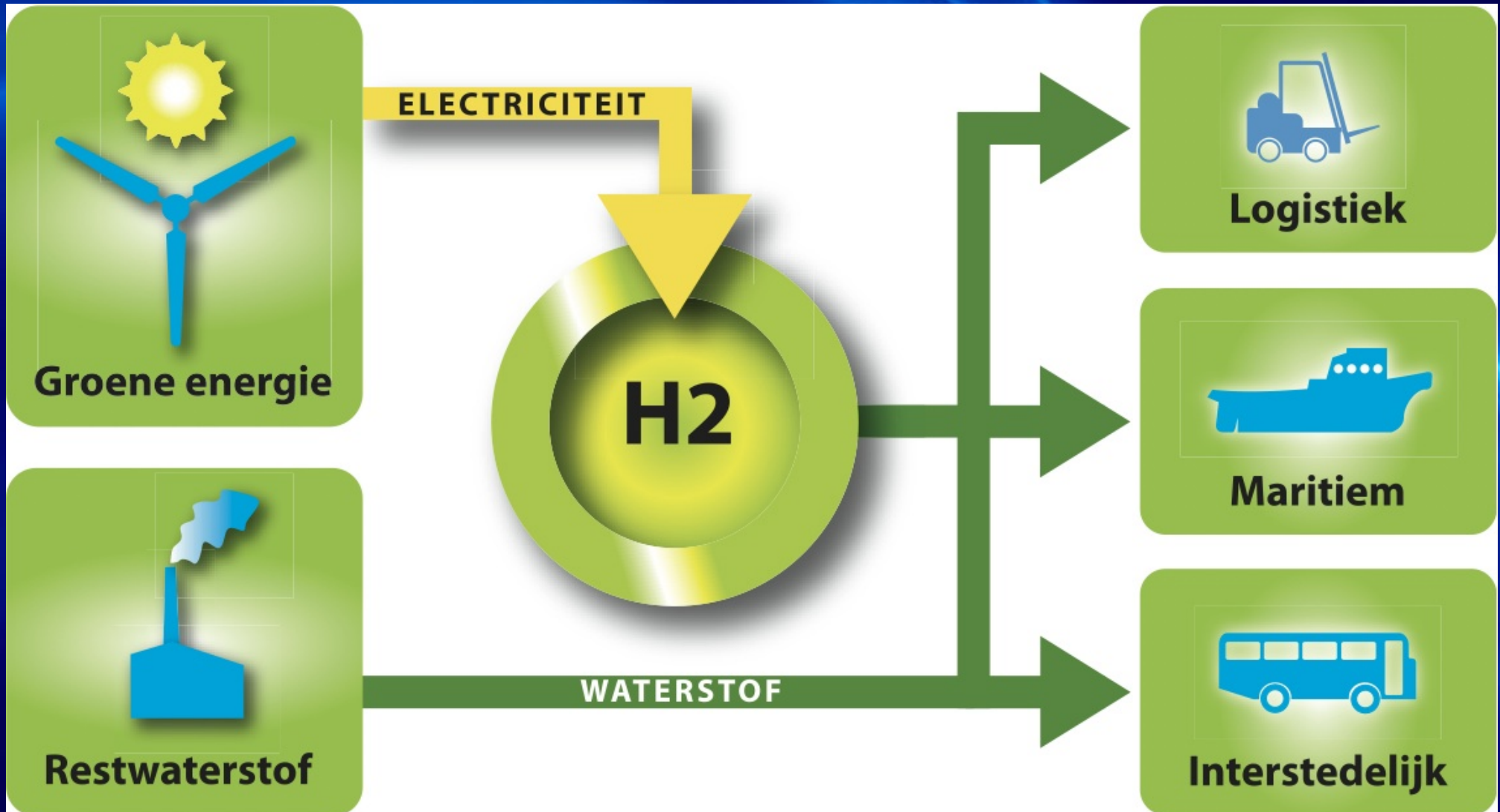




Step 3: Focussing

- **Sustainable hydrogen (no fossil fuels)**
- Early markets
- Education/training program
- Concrete, visible results within 3 years

Step 4: Concept



Step 5: Clear targets



- 2 re-locatable hydrogen fuel stations
- 1 MW power plant on by-product hydrogen
- Hydrogen production via photo-elektrolysis (1 m²)
- Logistic applications on hydrogen
- Maritime applications on hydrogen
- Intercity transport applications on hydrogen
- Roll-out scenario for hydrogen infrastructure
- Education/training program
- Coordination by WaterstofNet vzw

Step 6: Combined financing



Total budget: 14 million euro

Interreg : 3 M€

Dutch government : 3,6 M€

Flemish government: 3,6 M€

Industry : 3,8 M€



Step 7 : Quick start and results 2011:

1 MW fuel cell test plant:

EU-technology, testing with JRC

2 relocatable fuel stations

3 vessels on hydrogen

Logistic and intercity applications

Education program in test at schools

Conclusions



- Regions are crucial for implementation
- Regional strategy:
 - focus on regional strong points
 - cooperate together with other regions (HyRaMP)
 - Define concrete targets in line with JTI

Looking for European cooperation



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