

# HYDROGEN PILOT SUMMIT

**Provincie Noord-Brabant** 



### 18th November 2024, Brussels

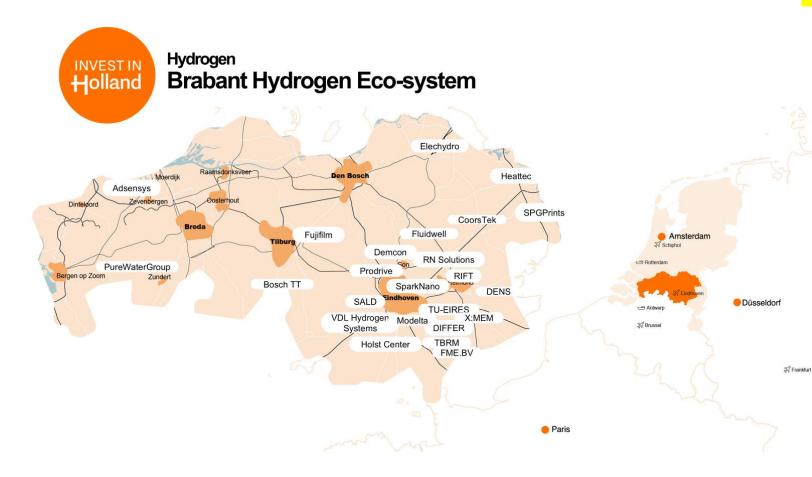








## Hydrogen in the region



### **Innovation Coalition Hydrogen**

enabling technology for the world to effectively produce and use green hydrogen

- **Focus** : development of equipment for cost-effective hydrogen production.
- Ambition: Develop and realize a robust H2-High Tech Systems and Materials ecosystem in Brabant based on an innovative 2<sup>nd</sup> or 3<sup>rd</sup> generation elektrolyzer (Alkaline (ALK/AEM), Proton Exchange Membrane (PEM) and/or SOEC), produced here using flexible manufacturing systems.
- **Goal:** realization of a strong Brabant supply chain and OEMs / system suppliers with a world-wide position.



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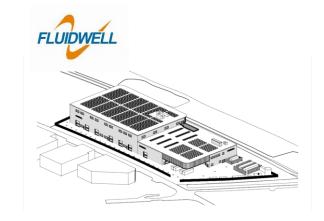
### H2 best practices



Spatial ALD tool (application of nano coatings to a surface; works atmospherically) from SALD



Rectifier (important part of elektrolyzer that does the power electronics; power input, conversion, current to water/membrane etc) from ProDrive



#### P2X test center Tilburg Pitch: Tilburg Test Technology for a CO<sub>2</sub> neutral future





Product D P2X test cer Bosch works assignments Work force ( Use generat Liquide, ...) Strong on-si

Value Prop

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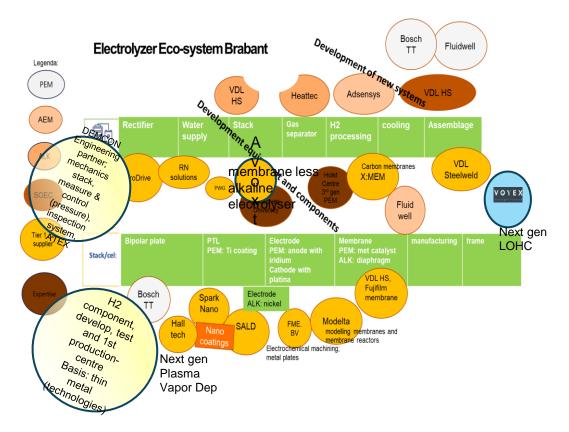
Alkaline elektrolyzer from VDL Hydrogen Systems (system to produce green hydrogen) BOM







## Region's offer & needs



- High-tech systems DNA
- New generation elektrolyzer OEMs
- Deposition technologies, Spatial ALD or other special coating technologies
- OEM, tier1 or tier2 in elektrolyzer or fuelcell manufacturing

### Needs:

- 1. Membrane / stack companies
- 2. Large scale nickel surface coaters
- 3. New elektrolyzer cell or fuel cell developers
- 4. Companies interested in
  - 1. electro chemical machining;
  - 2. next gen PV CVD tools
  - 3. Spatial ALD
- 5. Turn-key / BOOM companies





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## Proposal for collaboration

- B2B projects
  - Crossing border joint business projects and public funding
  - Business matchmaking
- K2K projects
  - Knowledge exchange; joint project development (next gen ALK, next gen SOEC) on elektrolyzer and on stack level
  - No rare earth metals, industrialized production, low energy consumption
  - Joint degrees, business challenges & student projects
- G2G projects
  - Cooperation between governmental bodies to simply and support more business between NL and Polish/Slovenian/Slowak/Spanish/... companies; develop more trade
  - · Joint tenders, joint tendering



Provincie Noord-Brabant

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