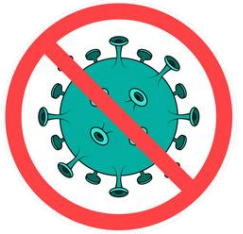
WIC MEETING MARCH 3, 2021

Welcome to the WIC meeting!

WATERSTOF INDUSTRIE CLUSTER

Welcome to our digital WIC meeting!



A few game rules:

- ✓ Mute yourself but you can use camera 
- ✓ Ask your questions in the chat 
- ✓ You can use mic/cam in the question round 

AGENDA

New members

10 – 10.30 AM : Presentation Sirris, HIMA, G&V and Everfuel

Hydrogen in buildings

10.30 – 10.50 AM : Results project Hoogeveen (Jan-Jaap Aué, Hanze Groningen)

10.50 – 11.10 AM : Presentation BatHyBuild project (Jan Rongé, KU Leuven)

Hydrogen in heavy duty

11.10 – 11.30 AM : Presentation development and production of heavy duty FC vehicles by Hyzon Motors Europe (Stefan van der Spek)

General info

11.30 – 11.50 AM : News from the cluster

11.50 – 12 noon : Questions – news from cluster members

PRESENTATION NEW CLUSTER MEMBERS

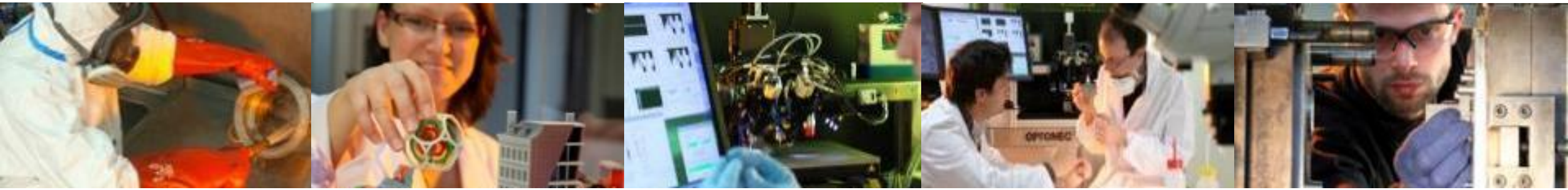
WATERSTOF INDUSTRIE CLUSTER

sirris
driving industry by technology

HIMA
SMART SAFETY.

G&V
ENERGY GROUP

Everfuel



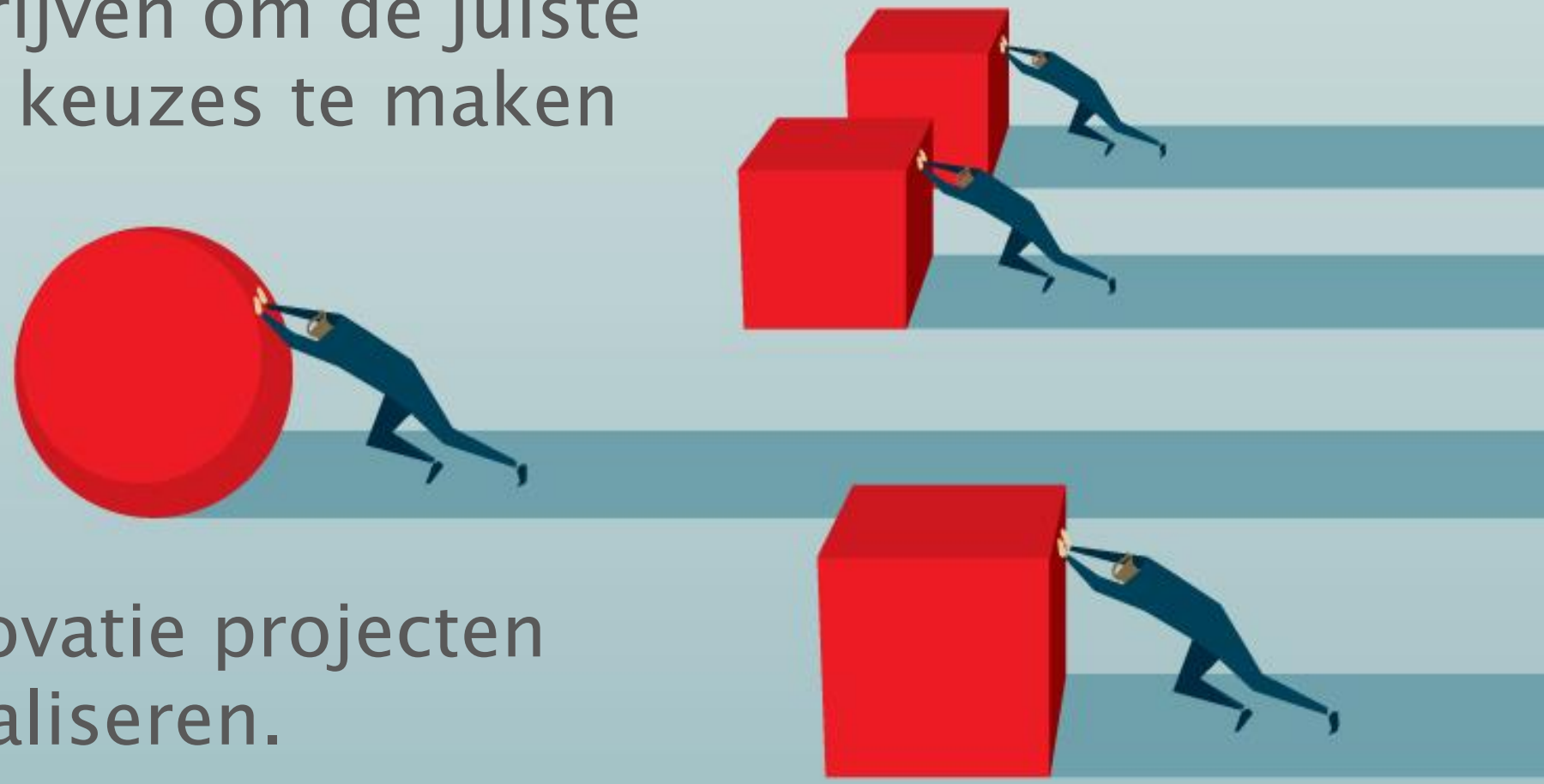
“Together, we innovate”

Sirris | Het collectief centrum van de Belgische technologische industrie

Het collectief centrum van de Belgische technologische industrie

Wat doen we?

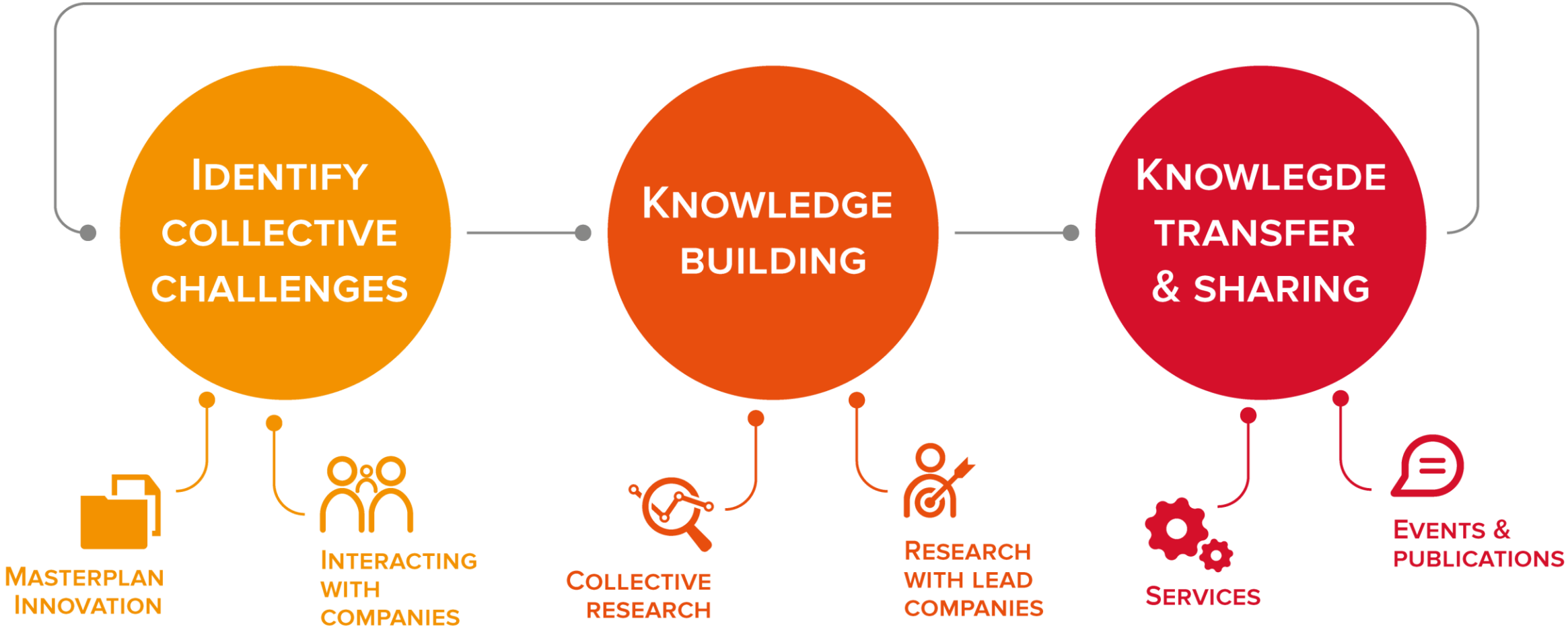
We helpen bedrijven om de juiste technologische keuzes te maken



en om hun innovatie projecten succesvol te realiseren.

FACTS & FIGURES 2019

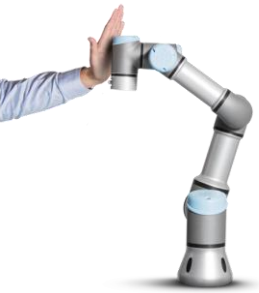
De Sirris waardeketen




COMBINING THE POTENTIAL OF TECHNOLOGY WITH BUSINESS MODEL INNOVATION TO MAKE YOUR BUSINESS FUTUREPROOF
business
of the future


HOW TO MAKE YOUR PRODUCT FUTUREPROOF? MAKE IT MICRO, LIGHT, SMART & CONNECTED!
product
of the future


HOW WILL DIGITAL MANUFACTURING AND INDUSTRY 4.0 IMPACT YOUR FACTORY IN THE FUTURE?
factory
of the future



SMART PRODUCTS
MICRO PRODUCTS
FUNCTIONAL SURFACES
HARSH ENVIRONMENT
SENSING TECHNOLOGY
LIGHT PRODUCTS
CORROSION MANAGEMENT
PRODUCT TESTING

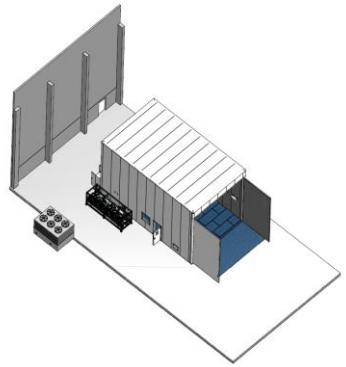
product of the future

4.0 MADE REAL
QUICK RESPONSE MANUFACTURING
ADDITIVE MANUFACTURING
OPERATOR SUPPORT
PRECISION MANUFACTURING

factory of the future

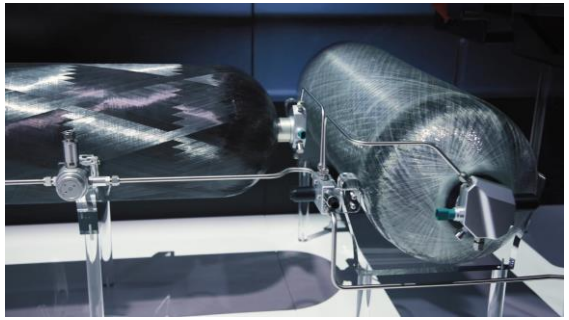
SUPPORTING INDUSTRY WITH DATA
CYBER-SECURITY
CIRCULAR ECONOMY
TECHNOLOGY STRATEGY ADVICE
DIGITAL SERVITISATION
SCALING OF DIGITAL COMPANIES

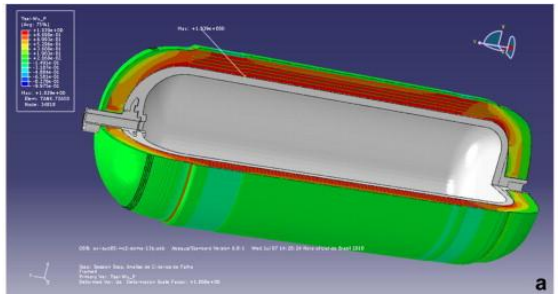
business of the future



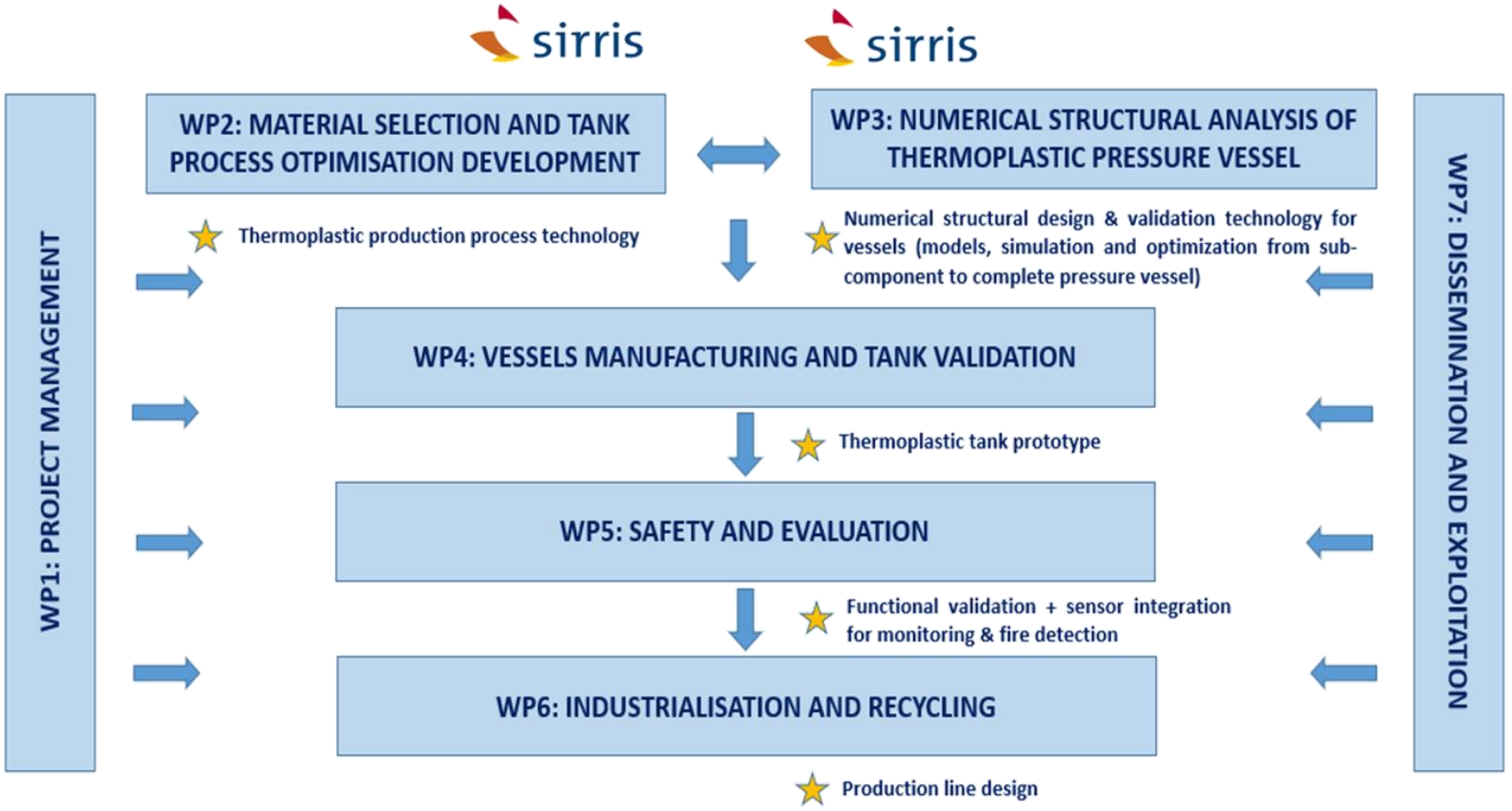
sirris
driving industry by technology

Thermoplastic tanks Optimised and Recyclable

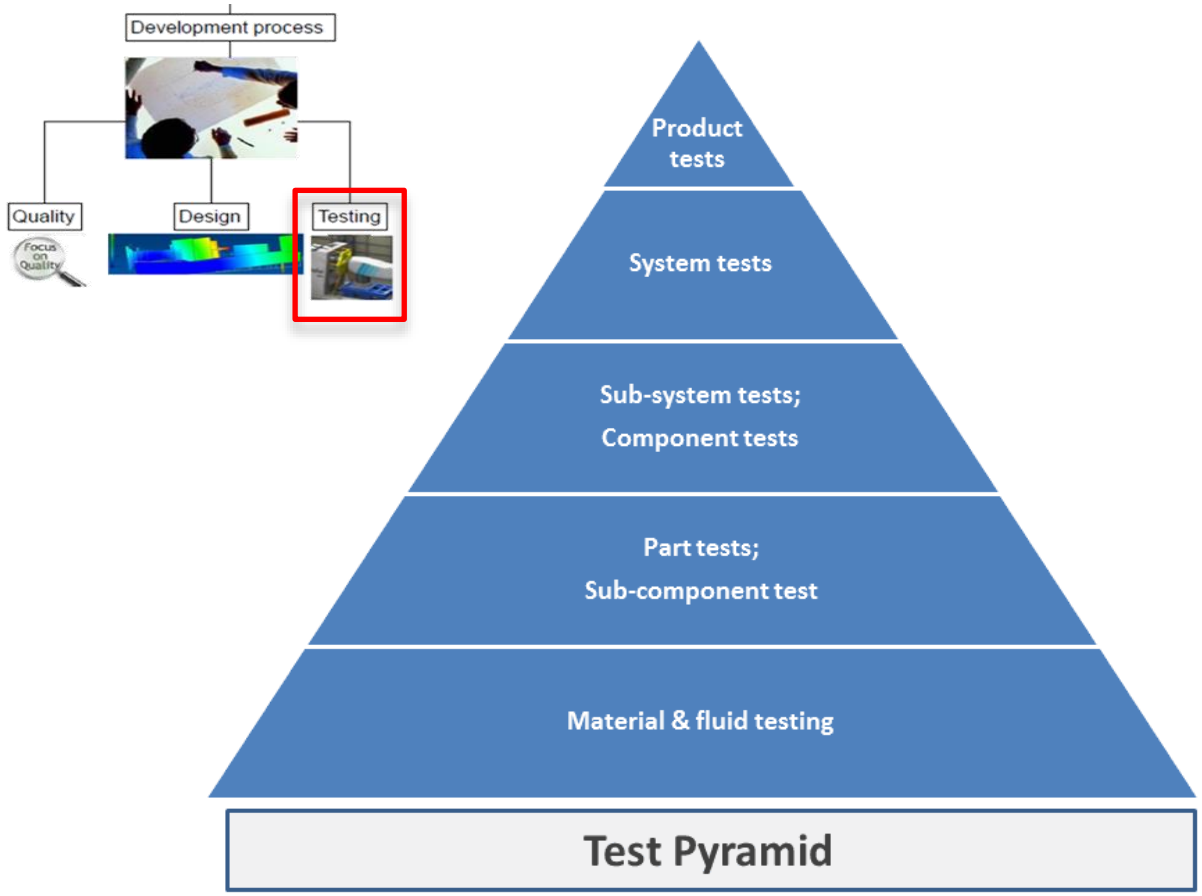


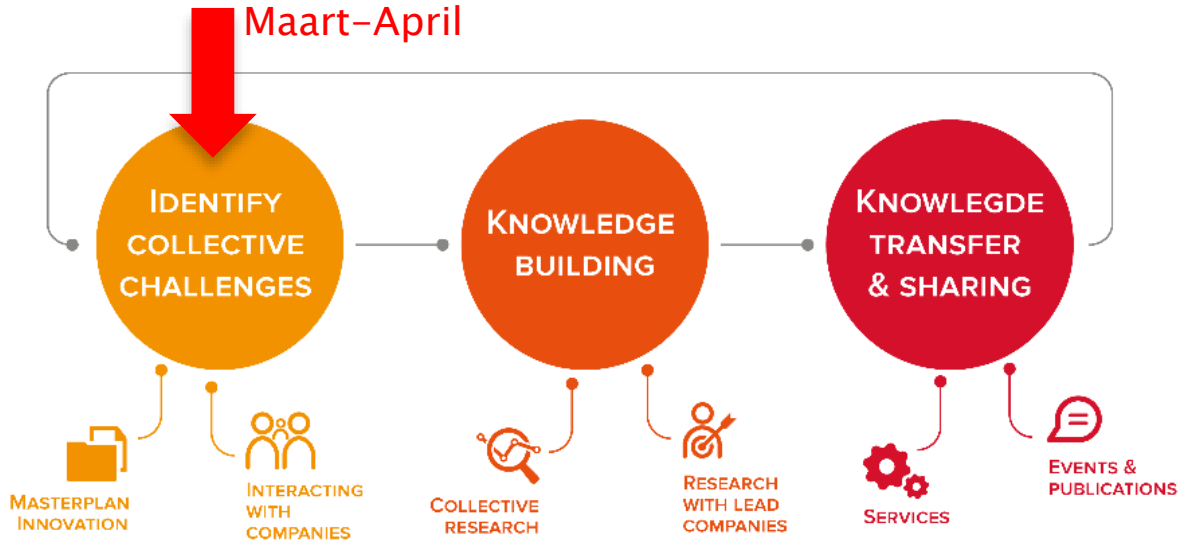


https://thor-fch2.eu/



Lopende actie: collectieve **TESTING** uitdagingen in de Vlaamse H2 waardeketen?





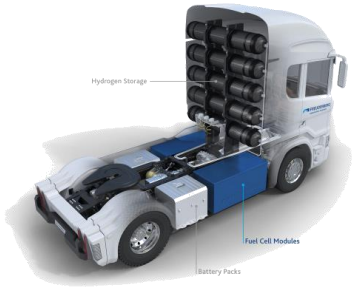
- Fundamental research tests
- Prototype testing: DVT
- Accelerated lifetime tests (HALT)
- Certification testing

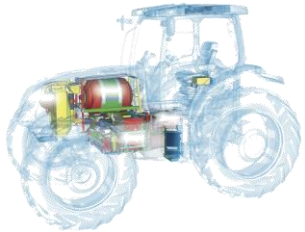
Full system environmental (climatic) testing

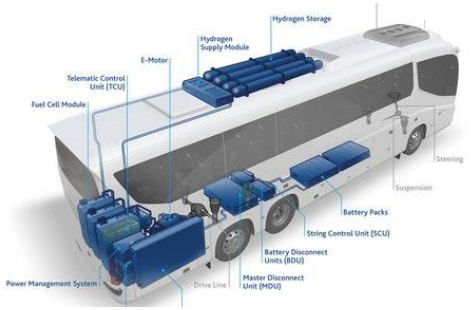
https://sirris.be/climate-chamber-extreme-working-conditions-different-inustries

-60°C/+60°C
95% RH
IR-heat
Icing conditions

Functional testing







Contacteer ons!

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https://www.linkedin.com/in/pieterjanjordaens/

www.sirris.be

www.sirris.be | innovation@sirris.be

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sirris

driving industry by technology

Smart Safety Solutions and Services

To protect plant/operations,
people and the environment

Josse Brys

Country Manager
HIMA Benelux B.V.

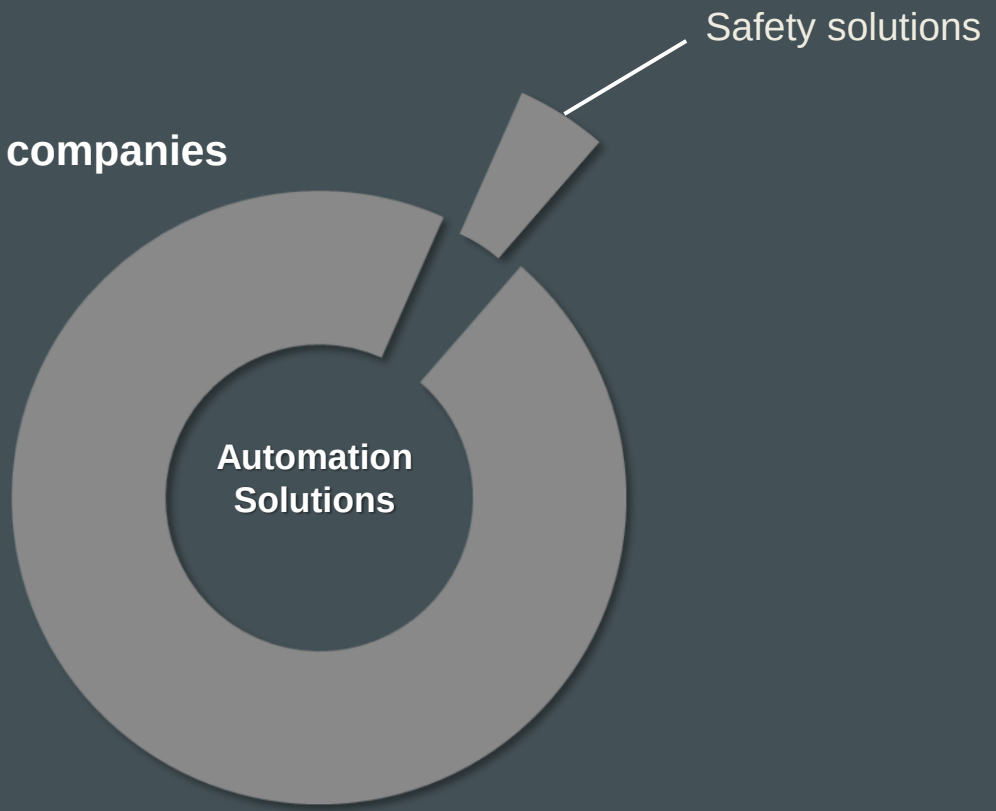
HIMA: The leading Expert in Safety Solutions

- HIMA is German family-owned company
- Exists more than 110 years
- Worldwide active in 50 countries
- HIMA has more than 800 people dedicated to safety
- Over 40,000 safety systems installed
- R&D investment with 125 experts

What makes HIMA unique?

Safety is our DNA

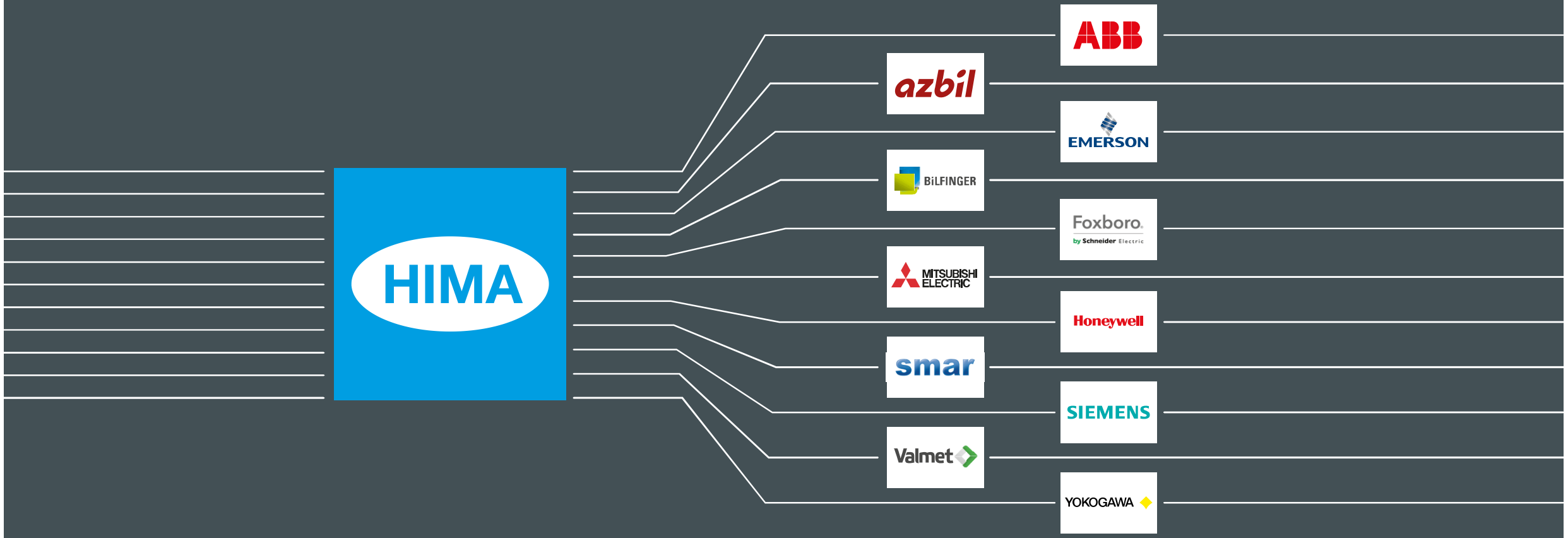
Other companies



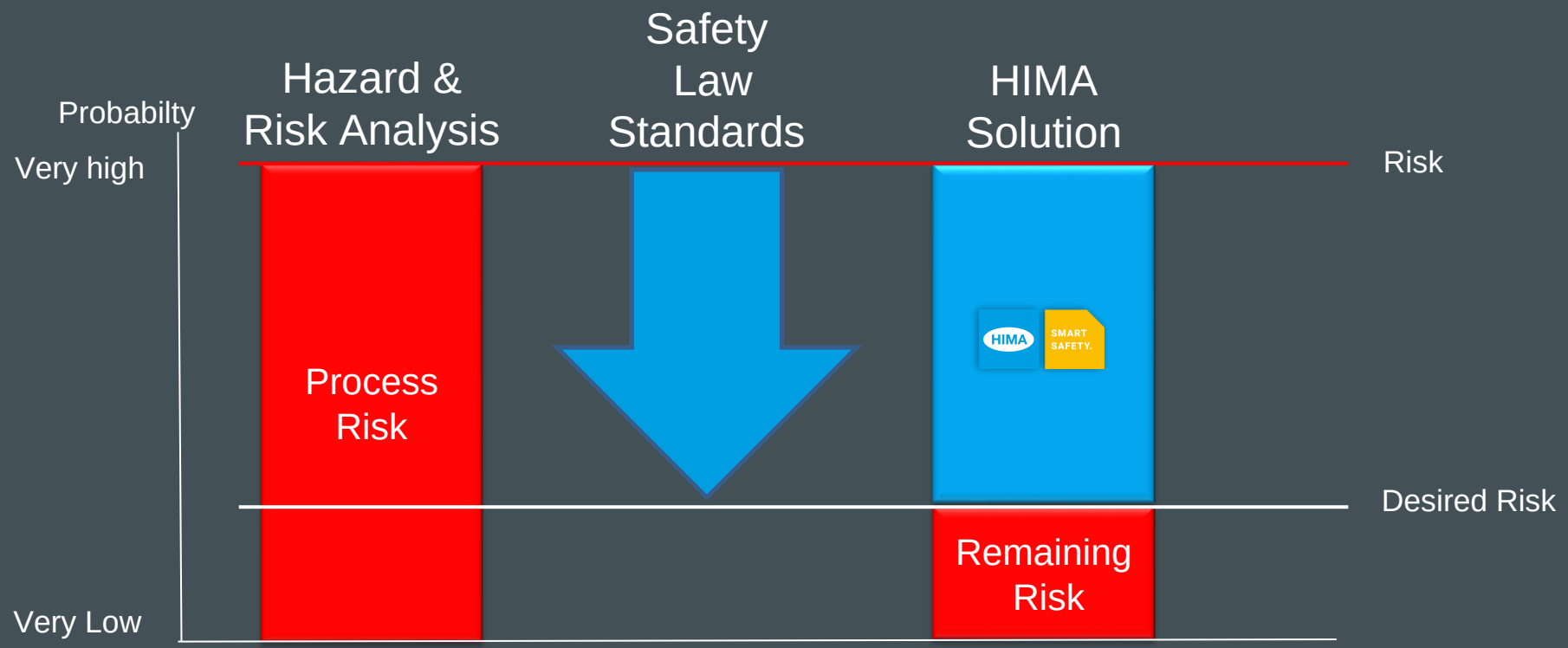
HIMA understands Safety better than any other company

HIMA Systems Integrate with any system

- HIMA security solutions run independently / separately from the control system



HIMA: The leading Expert in Safety Solutions



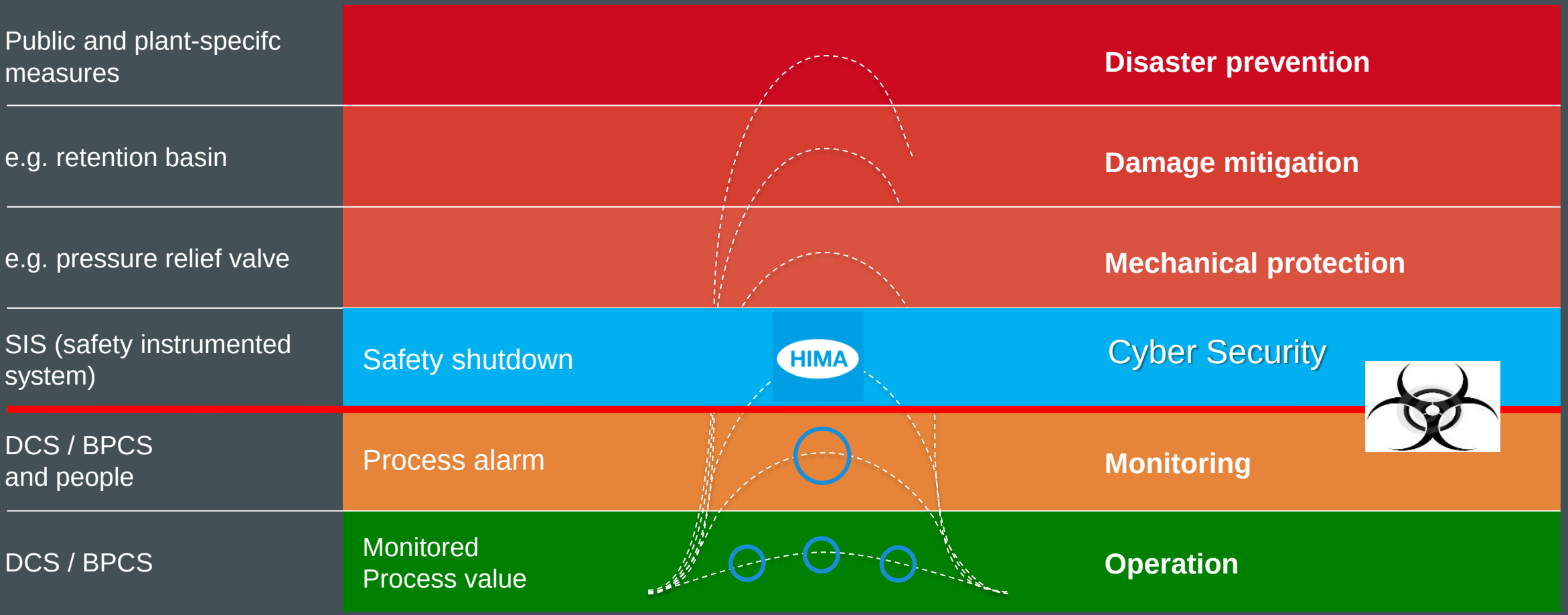
HIMA helps to reduce the risk in your process with an independent layer

HIMA: The leading Expert in Safety Solutions

HIMA delivers smart safety solutions when:

- **you need to get the highest safety and cyber security or**
- **it’s a complex safety system that needs to react fast or**
- **the availability needs to be at the highest level , non-stop safety**
- **and a lifecycle of +20 years and the best 24/7 service or**
- **you need to get the highest safety on a small footprint**

HIMA safeguards your plant/operations



22

Our Industries

Process Industry

- Applications in the oil and gas industry
- Petrochemicals
- Chemicals
- Pharmaceuticals
- Energy
- Etc.

Rail Industry

- Level crossings
- Railway signaling
- Power supply
- Rolling stock
- Automatic train control systems
- Etc.

Logistics & Machine Safety

- Conveyors
- Elevators
- Cranes
- Cableways
- High bay storage
- Assembly and coating lines
- Etc.

Our Industries

Process Industry


Oil & Gas


Chemical


Pharma


Energy

Our Safety Solutions


Turbomachinery Control


Burner Control System


Emergency Shutdown System


Fire & Gas System


High-Integrity Pressure Protection System


Pipeline Leak Detection System

HIMA Services

Safety Consulting

SIL Assessment support

Specifications (SRS)

Sizing and Architecture

Safety Solutions

BMS/BCS

TMC

HIPPS

PMC

Wellhead

FGS

ESD

Integration Concept

DCS Integration

Cyber Security

Definition and Delimitation

Engineering & Project Management Manufacturing

Germany:
Manufacturing of HIMA Products PEP, PQP

Engineering, Assembly, Testing

Worldwide:
Engineering, Assembly, Testing

Services

Application Site Services

SAT Procedure

Spare Part Recommendation

Solution Integration

Hydrogen in Benelux

ExxonMobil

Antwerp & Rotterdam
Hydrocrackers
Hydrogen compressors

ESD
TMC
F&G
Availability

Nouryon

Delfzijl
Hydrogen production plant

ESD
F&G
HIPPS
Availability

TEIJIN
Human Chemistry, Human Solutions

Teijin Aramid
Hyrdrogen compressors safety

ESD
F&G
HIPPS
Availability

Pipeline leak detection system

TAL Group Transalpine Pipeline

- Total length: 753 km
- From the Port of Trieste to the refineries in Central Europe
- Maximum pipeline elevation: 1,572 m
- Number of refineries supplied: 8

AllSeas: Pioneering Spirit

Pioneering Spirit

- Customer: AllSeas
- Competing System performance was too slow

Pre-Engineering,
Hardware & Software
Engineering
IFAT, Support

Netherlands,Rotterdam

11 HIMax Systems
970 HIMax modules
5300 Safety I/O

Software Training
SER with 25000 events
Operator Training Simulator

INPEX: Ichthys Gas Fields Development Project

Ichthys LNG

- Offshore & Onshore, Western Australia
- Customer: INPEX

FEED Study Prototyping
Hardware & Software
Engineering
Remote IFAT, DVT
Yard-support

Germany, Singapore,
South Korea, Australia

25.000 Safety I/Os
430 Cabinets

Onshore/Offshore
Application
Standard Application
Software Libraries

MOHO Nord Project

Moho Nord
- Coast of Pointe Noire, Republic of Congo
- Customer: TOTAL

Pre-Engineering,
Hardware & Software Engineering
IFAT, Site Support

France, Germany, Netherlands, South Korea, Congo

9 HIMax Systems
870 HIMax modules
8300 Safety I/O

Project Library
(115 function blocks)
SER with 25000 events
Operator Training Simulator

Martin Linge Project

Martin Linge
- Norwegian Continental Shelf
- Customer: TOTAL

Engineering HW & SW
Prototyping HW & SW
Hardware FAT, IFAT, SAT

Norway, Sweden, France, Germany, Romania, Poland, Singapore, South Korea, Australia

8000 hardwired I/O‘s
35 System-, 52 Marshalling-, 10 ATEX certified Marshalling Cabinets
470 redundant HIMax modules

Project Software Library (ESD, FGS)
Backup HMI with 530 Graphics
Operator Training Simulator

Malvinas Migration Project

Plus Petrol
- MALVINAS, Peru
- Customer: Pluspetrol

Engineering HW & SW
Prototyping HW & SW FAT & IFAT

Peru

5800 hardwired I/O‘s
32 PLC‘s
HIMax modules

Project Software Library (ESD, FGS)
DCS Integration
Overall MOS-Integration

FEED and Migration Strategies
Development Support

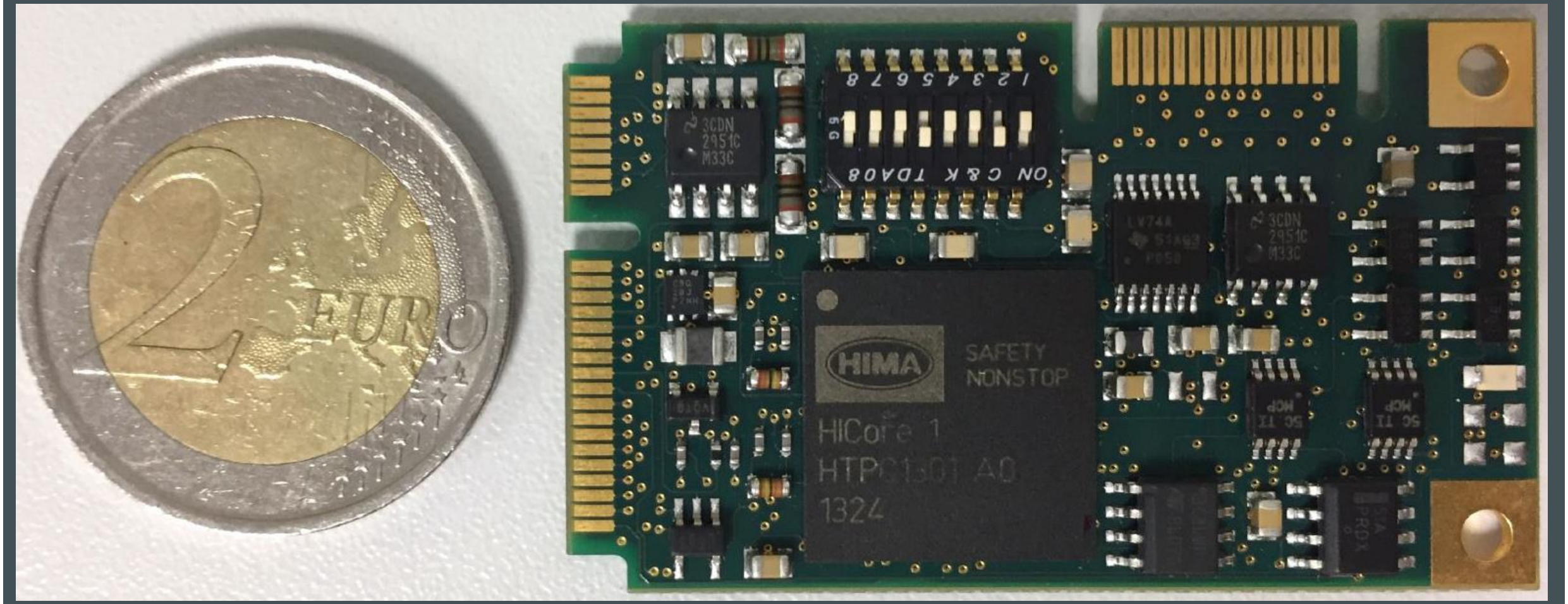
The future of Safety

Paving the way to Industry 4.0

The world’s first complete safety technology on a single chip. Can be integrated into your product.

Production line of Audi Germany
KARIS PRO

HIMA HiCore 1



Life Cycle Services

- Life Cycle Management & Local 24/7h support team at HIMA Benelux in Breda for the Benelux

Some of our customer in the Benelux

Safety Solutions and Services

HIMA

SMART SAFETY.

Thanks for your attention

Josse Brys

Country Manager
HIMA Benelux B.V.

j.brys@hima.com

+32 489 19 11 05

"Aanbieder van innovatieve mobiliteitsoplossingen via een professioneel netwerk van tankstations met een duidelijke commitment naar duurzaamheid"

"Fournisseur de solutions de mobilité innovantes via un réseau professionnel de stations-service avec un engagement clair en faveur du développement durable"

G&V Energy Group

A 100% Belgian company

Activities

G&V SERVICESTATIONS

32 Truck stations
17 G&V Retail stations 4 Train stations
16 CNG stations (ENORA)
2 LNG stations (LNG Sol Belg)

XL SERVICESTATIONS

124 Esso Retail stations
16 Shell stations
8 Total tations
2 Q8 stations

G&V ENERGY GROUP

CAPS FUEL CARD

Network of
+ 2000 service stations in
BeNeLux & France

XL ROC

26 Retail shops
5 Carwashes

Facts & Figures

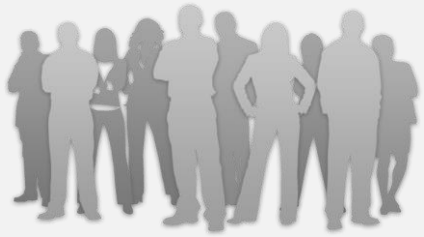
+200
Stations
in ownership

Nr. **1**
Independent BE player

CAPS FUEL CARD
Largest multibrand
fuel network in
BeNeLux & France

€
Group turnover 2019
957 Mio euros
Fuels
895 Mio euros
Shops (XL ROC)
62 Mio euros

Nr. **4**
Player in BE of
petrol stations



+300 Employees

G&V ENERGY GROUP

A 100% Belgian company

CAPS tankkaart

KIES DE TANKKAART DIE BIJ JE PAST …

+2000 stations BeNeLux & France

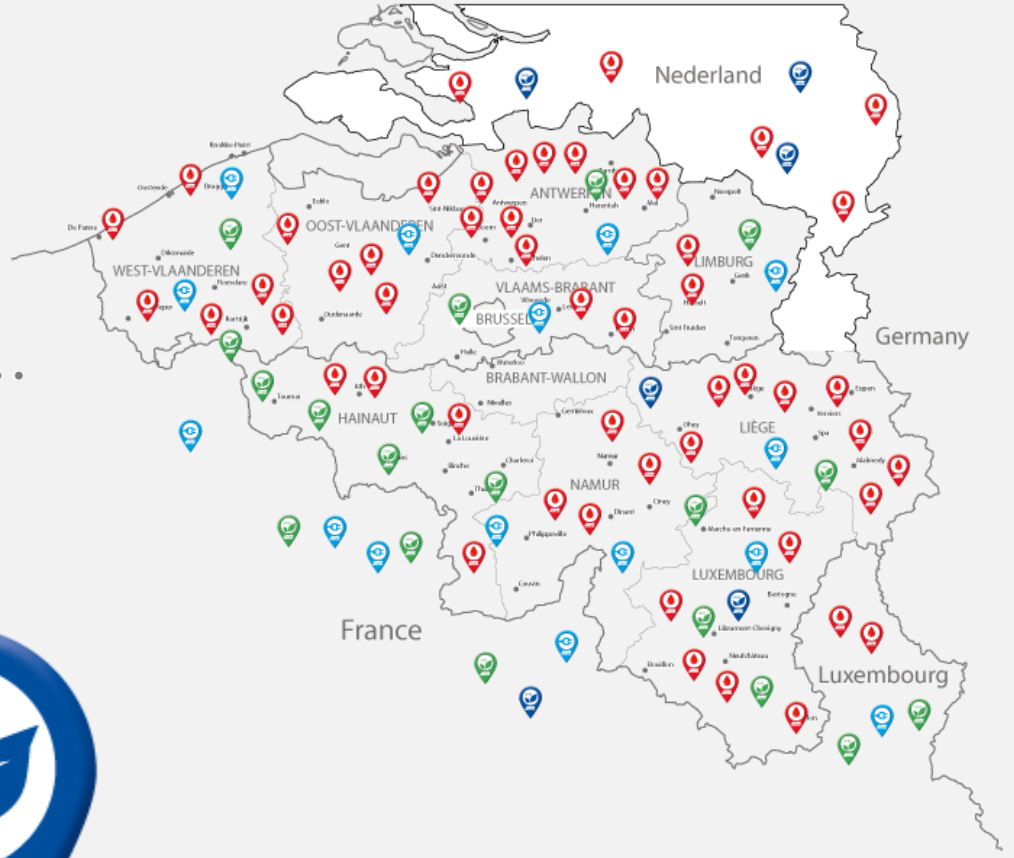
Blue Corner Network Europe

+18 000 stations in Europe + services

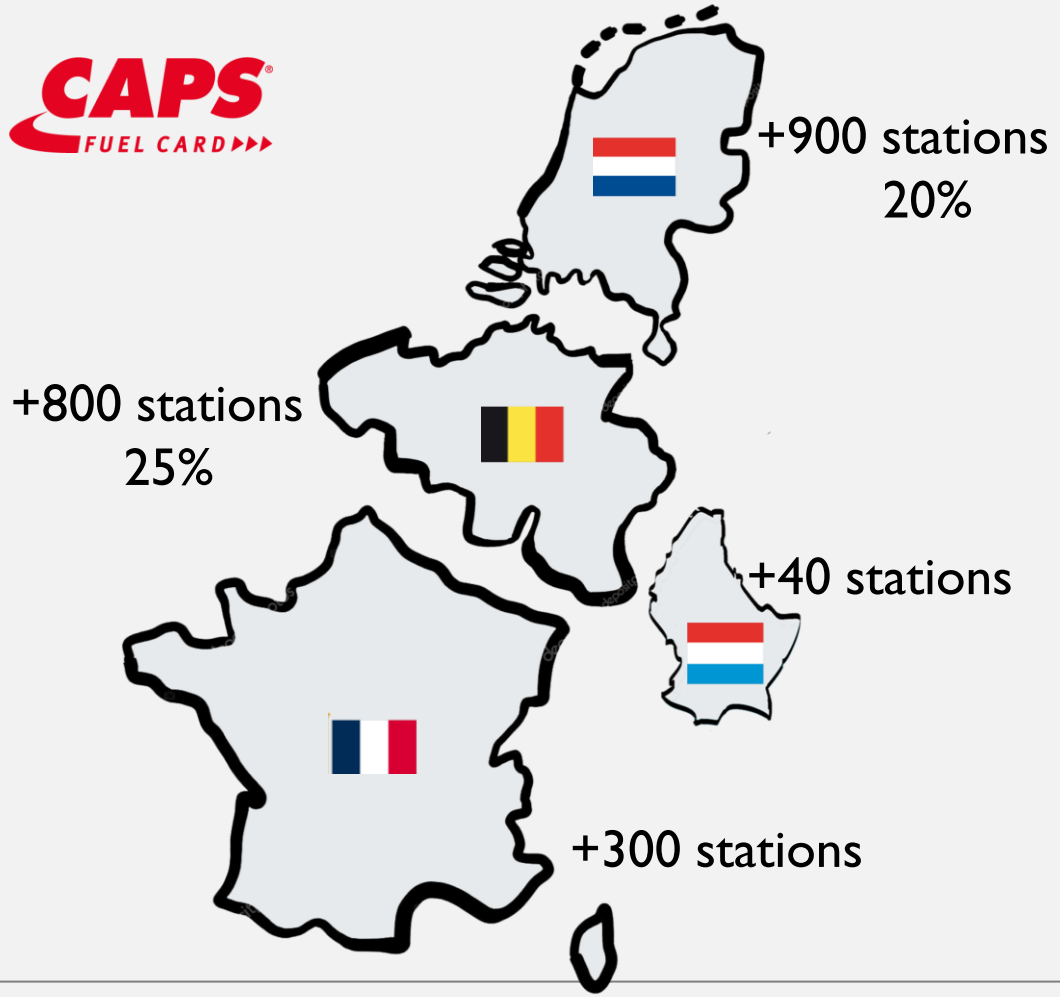
CAPS FUEL CARD

A 100% Belgian company

ONS TANKNETWERK BREIDT UIT :
Tank nu ook overal duurzame energie …



Geographic coverage



+18.000 stations

enora cng
Compressed Natural Gas

Partners

G&V ENERGY GROUP

ENGIE

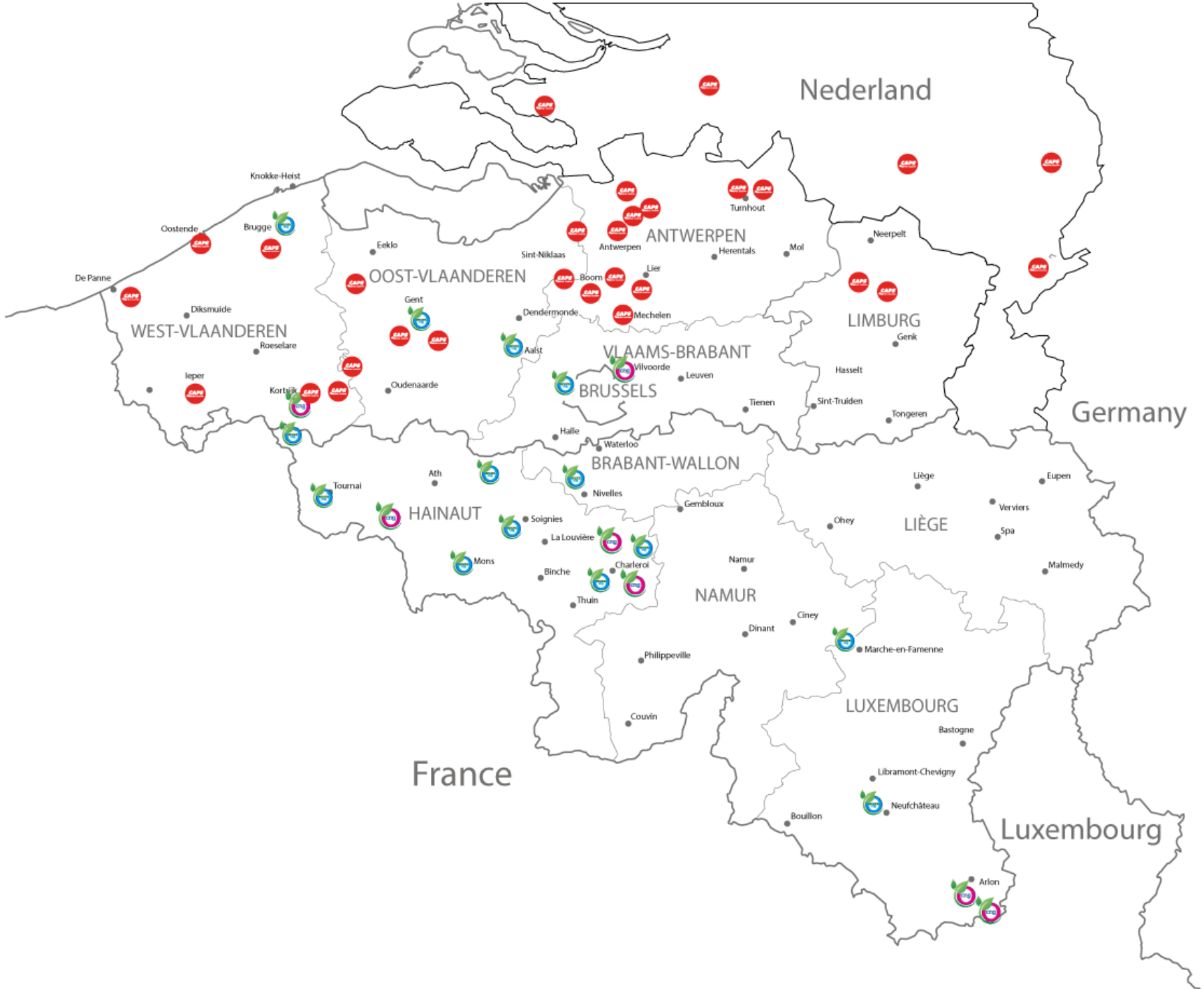
IDETA

I.P.F.H.

IDELUX

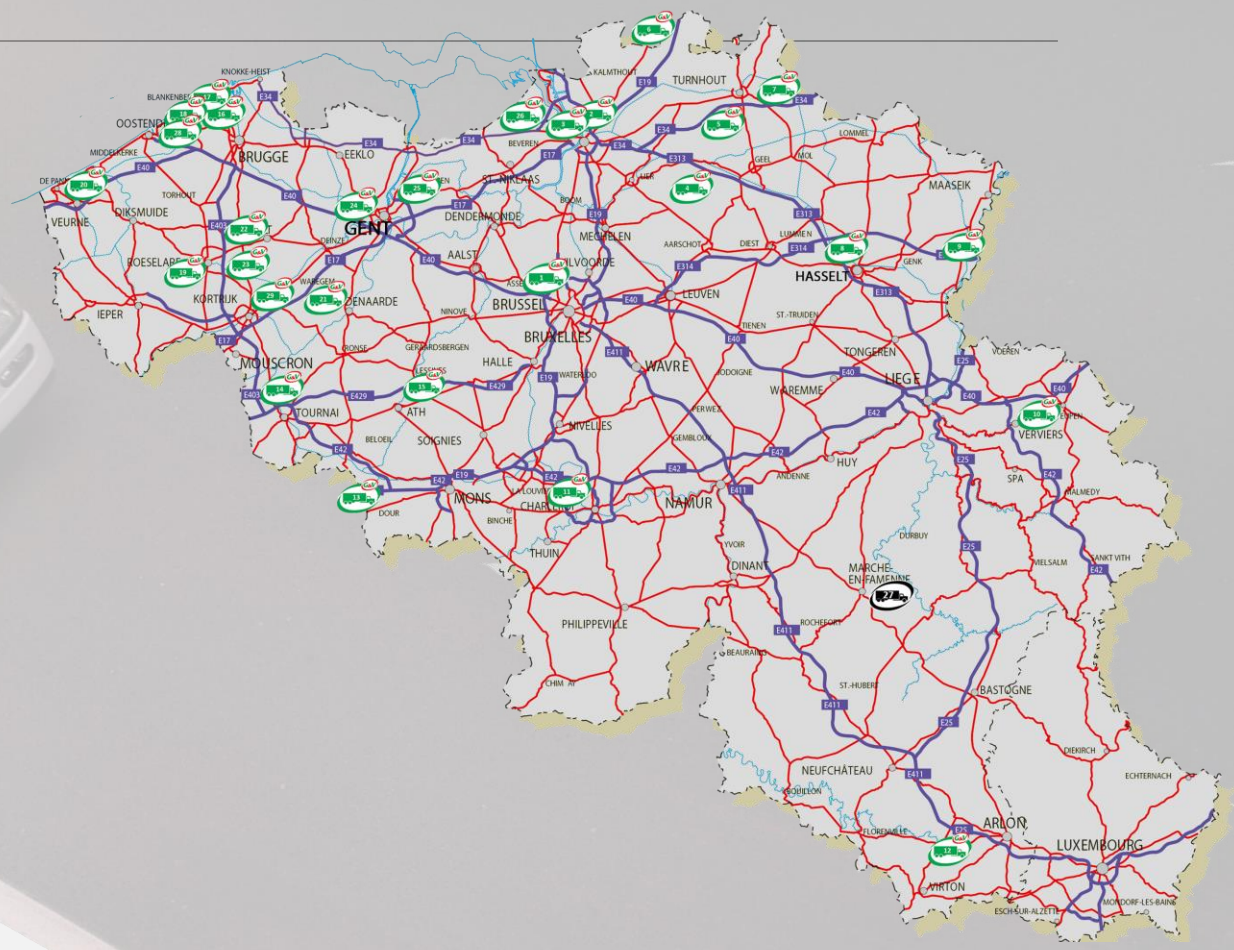
IEG

IGRETEC



Truck Network

- Camera surveillance
- Master slave pumps (120 lt)
- Ad Blue
- Red diesel
- Extensive network on all major transit roads and seaports



CAMERA SURVEILLANCE

CNG + LNG

GASOIL

GASOIL EXTRA +

AdBlue

CAPS FUEL CARD

G&V Truck

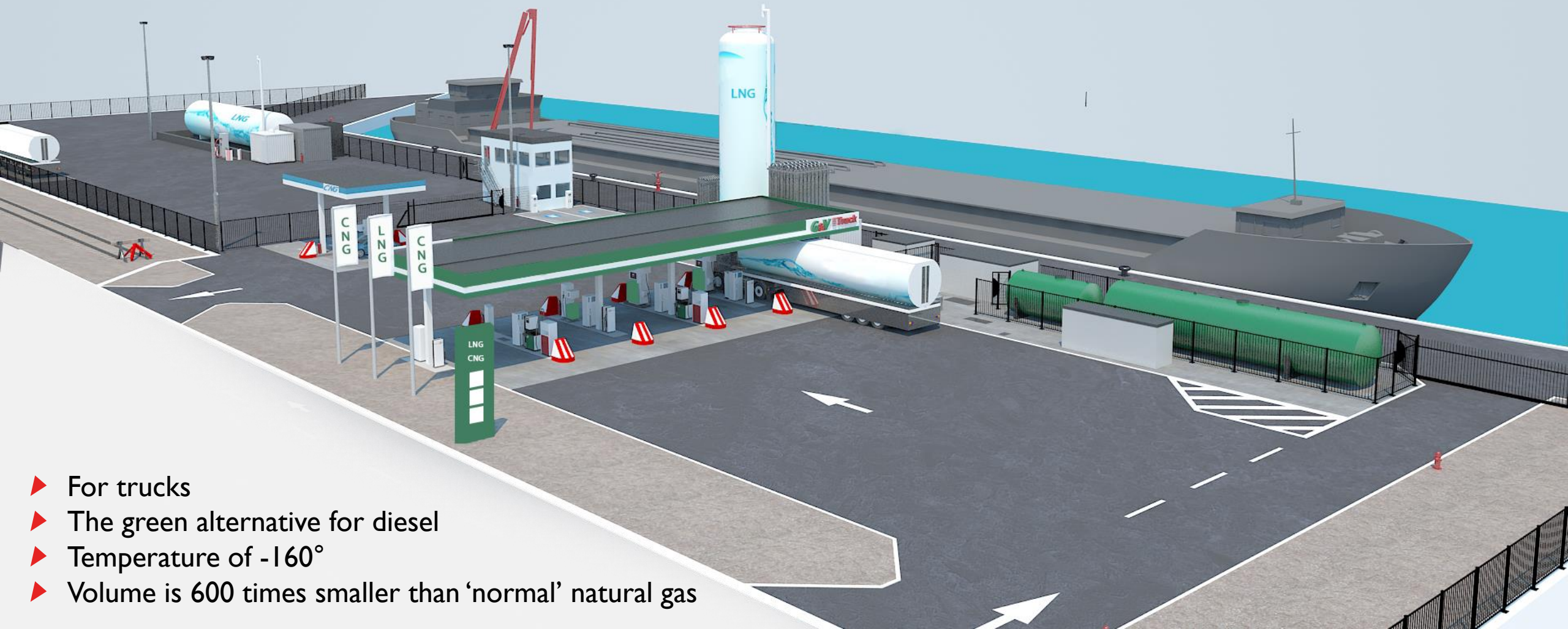
LNG – Liquid Natural Gas

LNG Solutions Belgium

Partnership Rolande & G&V

ROLANDE

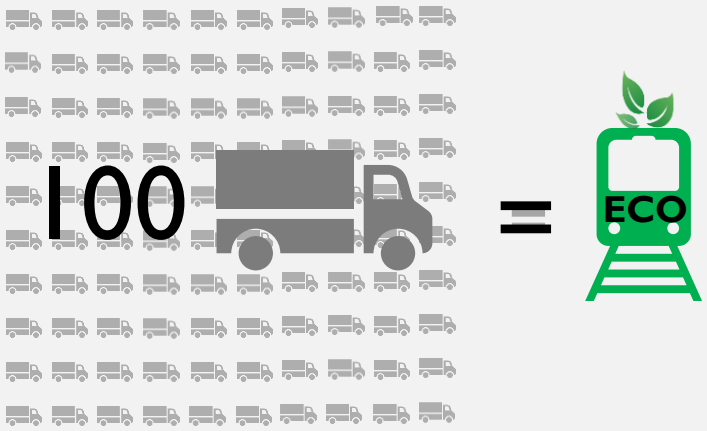
G&V ENERGY GROUP



- For trucks
- The green alternative for diesel
- Temperature of -160°
- Volume is 600 times smaller than ‘normal’ natural gas

Train network

- Port of Zeebruges
- Port of Ghent
- Port of Antwerp Left bank
- Port of Antwerp Right bank



Logistic partners

- Lineas
- Crossrail Benelux
- Europort FR
- DB Cargo Belgium & Nederland
- HSL Belgium
- Infrabel
- Railtraxx
- RTB Cargo Belgium
- Rurtalbahn Cargo gmbh

Q4 2020 earnings presentation

11 February 2021

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Everfuel

Today's presenters

Jacob Krogsgaard, *Founder and CEO*

- Former co-founder and CEO of H2 Logic (founded 2003)
- H2 Logic acquired by NEL in 2015
- Large shareholder and SVP of NEL 2015-19

Anders Bertelsen, *CFO*

- Former CFO and acting CEO at AFRY Buildings Denmark
- Experience from Siemens Wind Power, SAP, Nobia and as an auditor with BDO

H2 Logic nel

BDO SIEMENS SAP nobia AFRY

Everfuel

Unlocking hydrogen at scale

Everfuel at a glance

- Hydrogen is the new heavy-duty fuel – **100% clean and reaching diesel parity**
- The technology is proven and require a **dedicated fuel company** to commercialize green hydrogen
- Everfuel is **Europe's new integrated fuel company** – providing green hydrogen for larger vehicle fleets
- HQ in Herning, Denmark, listed as **EFUEL** on Euronext Growth Oslo.
- Everfuel is asset owner and operator of the complete H2 value chain. Currently activities in **N, S, DK, D, NL**

Power generation
Strategic integration potential

Hydrogen production
Can be owned by Everfuel or partners

Hydrogen distribution

Hydrogen stations

Always owned/controlled by Everfuel

Hydrogen fueled vehicles
Strategic opportunities via partnerships and services

Everfuel

Q4

Key events

Everfuel

Everfuel News, 29 October

Successful private placement raising EUR 27 million of growth capital at NOK 22 per share and subsequent admission to trading on Oslo Børs' Euronext Growth

Key events

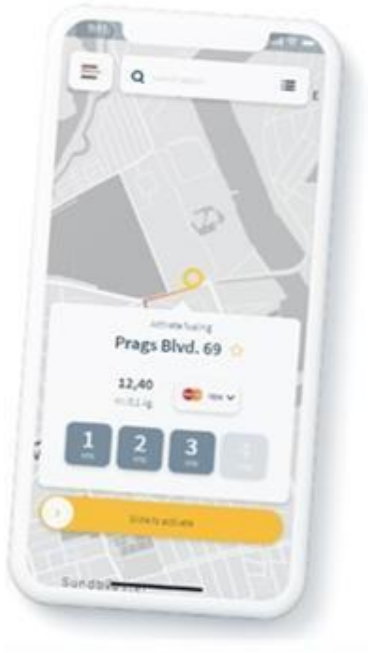
- Acquisition of two hydrogen fueling stations and distribution assets in Norway from Uno-X
- Purchase order for six hydrogen trailers designed exclusively to Everfuel specifications
- Agreement with Nel for joint development of the Norwegian hydrogen retail and truck fuel market and creation of Everfuel Norway retail AS
- EUR 20.7 million loan from EIB to scale and commercialize hydrogen fuel in Denmark and Europe
- Acquisition of Danish Hydrogen Fuel A/S (DHF), adding four hydrogen fueling stations in Denmark
- Award of contract for 20 MW alkaline electrolyser for green hydrogen production in Fredericia
- Year-end cash position of EUR 23 million
- Completed NOK 600/EUR 58.5 million multiple times oversubscribed private placement at NOK 125 per share in January 2021

Everfuel

Operational review

Scaling the distribution system

- **Everfuel App in testing now**
  - Expected beta-testing in Q1-2021 and full release during Q2-2021
  - New versions with further functionality will follow



- **Multi-year frame agreement with Hexagon Purus for supply of hydrogen trailers through 2025**
  - Designed exclusively to Everfuel specifications
  - Order for six hydrogen trailers for delivery in 2021
  - Adding to a previous order for two trailers, for delivery Q1-2021
  - The units will operate in Norway, Denmark and the Netherlands
  - Up to 80 MWh of mobile energy storage

Everfuel

Fredericia electrolyser order a trigger for developing attractive EPC strategy

- **Awarded contract to Nel for the delivery of a 20 MW alkaline electrolyser for the HySynergy project**
  - EUR 7.25 million contract with delivery from late 2021
  - Total project budget EUR 20 million
  - Capacity up to 8 tons per day of green hydrogen and 10 tons of storage capacity when operational from mid-2022

- **Everfuel to execute EPC-work (engineering, procurement and construction), including storage and distribution facilities**
  - Leveraging existing in-house competencies
  - Developing specialized EPC capabilities for future own and external projects in response to expected growth in demand
  - EPC capabilities combined with project development and operator strategy gives Everfuel a competitive advantage.
  - Expected cost reduction gains on future Electrolyser projects
  - Cooperation and order of compressor from Howden

Everfuel

Becoming Denmark's leading hydrogen fuel company

- **Acquisition of Danish Hydrogen Fuel A/S (DHF) with four H2Stations based on same technology as the Everfuel operated stations in Copenhagen**
- **Distribution agreement with Siemens Gamesa for green hydrogen from early 2021**
- **Contract with Ørsted for hydrogen offtake and distribution from 2MW electrolyser from end 2021**
- **MOU with Green Hydrogen Hub Denmark, a collaboration between Eurowind Energy, Corre Energy and Gas Storage Denmark, where Everfuel is the indented hydrogen mobility off-taker**
- **Everfuel positioned to supply green hydrogen produced in Denmark at competitive hydrogen fuel prices already in 2021**
  - Focus on substantially increasing hydrogen sales, initially to taxies and light commercial vehicles, from existing stations and the new high-capacity station under construction in Copenhagen
  - Driver for growth and competence development to support roll-out of more intensive refueling for heavy-duty vehicles like trucks and buses

Everfuel

Building a strong Norwegian position

- **Acquisition of H2CO AS from Uno-X with two hydrogen fueling stations and distribution assets**
  - To assume operation of stations at Hvam (near Oslo) and Åsane (near Bergen) in 1H 2021, pending COVID-19 restrictions
  - Final close of transaction is pending to seller delivering the stations approved and certified

- **Agreement with Nelfor joint development ofhydrogen fueling for retail and trucking customers**
  - Invested NOK 26 million for 51% ownership of Nel subsidiary H2FuelNorway AS (H2Fuel), with call-right to acquire remaining 49%
  - Transaction closed in January 2021 and H2Fuel was renamed Everfuel Norway Retail AS

- **Everfuel Norway Retail won concession to establish a hydrogen station at Kjelsrud (Oslo)**
  - Experienced manager, who led the tendering process for the Kjelsrudsite in Oslo, joined Everfuel as head of business development in Norway

Everfuel

The Netherlands, Germany & Sweden

- **The Netherlands**
- Construction of the H2Station for bus refueling in Heinenord close to Rotterdam progressing as planned
  - Expected to be operational from late Q3-2021
  - Site prepared for upgrade to also allow for car and truck refueling
- Preparing for various project developments in the Netherlands
- Everfuel have appointed a hydrogen industry veteran in Q4-2020 as head of business development in the Netherlands

- **Germany**
- Everfuel has signed contract with an experienced hydrogen expert from Germany as head of business development in Germany
- Preparing various project developments in Germany

- **Sweden**
- Selection of locations for the first stations in the Nordic Hydrogen Corridor project in Sweden is expected to happen within some months

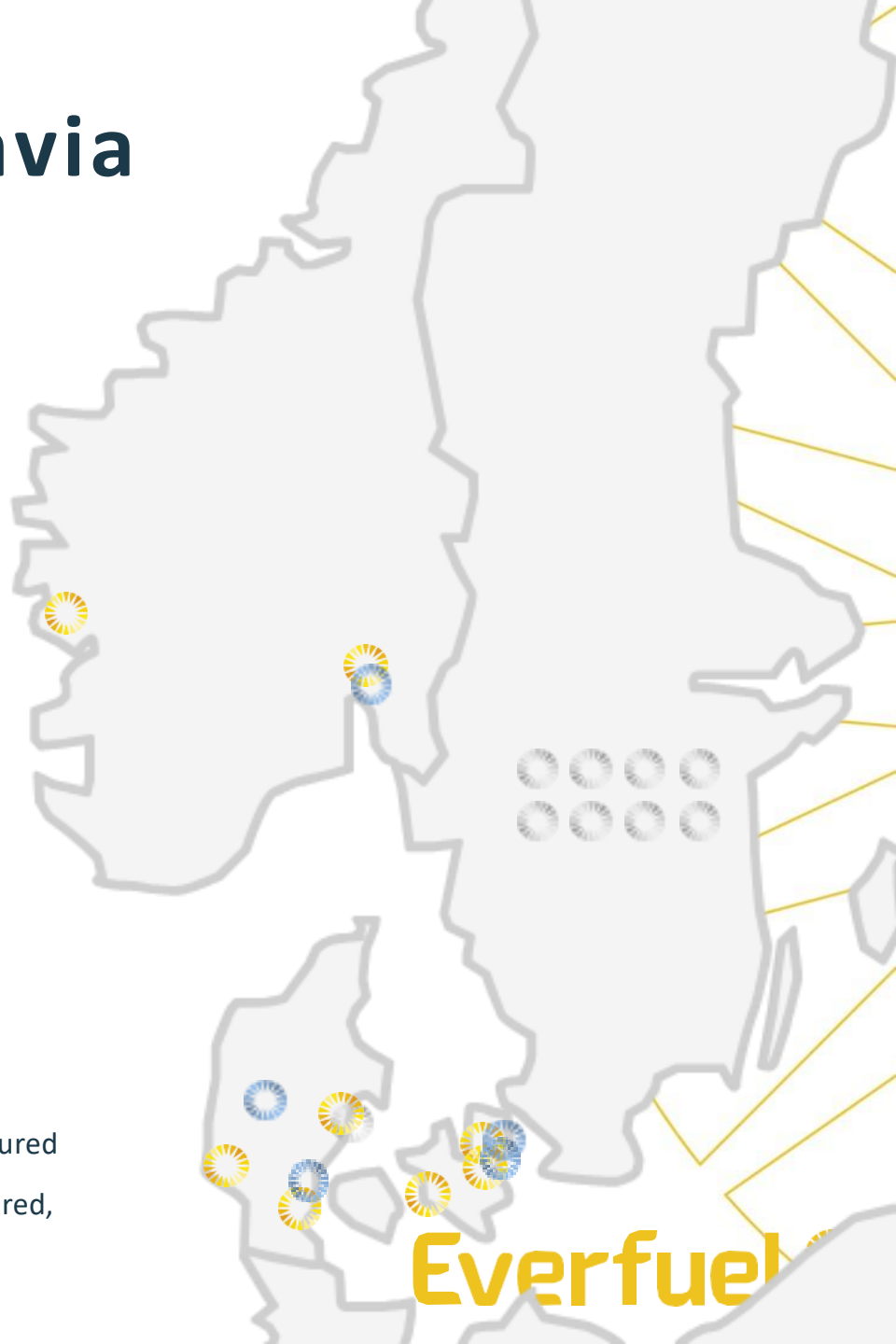
Everfuel

Building critical mass in Scandinavia

- **After Q4-2020 acquisitions Everfuel will:**
  - Operate 8 hydrogen stations
  - Secured sites for 5 additional stations
  - Secured funding for 9 stations where location is pending

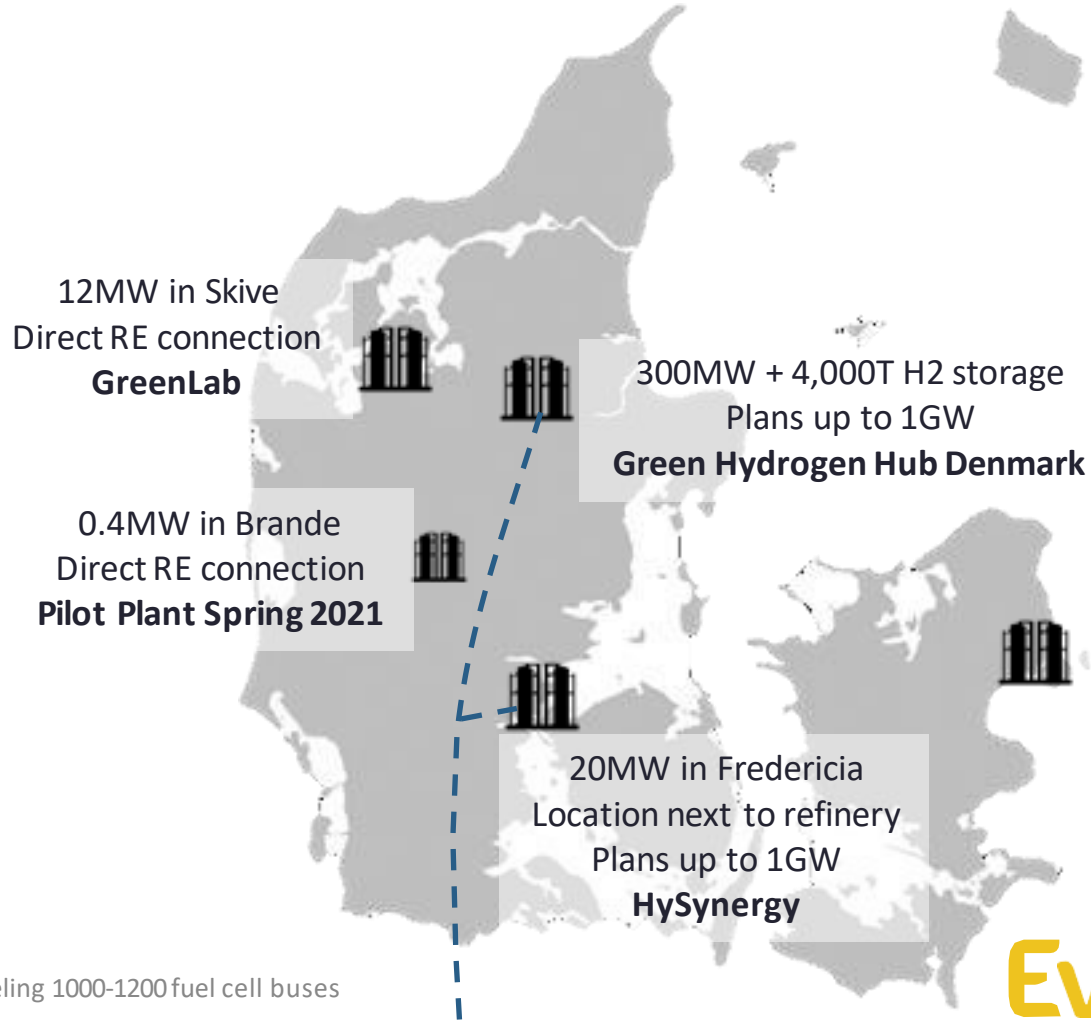
- Set to become Europe's **second largest operator** of light duty hydrogen fueling stations with +20 units in operation from 2022 when adding activities outside Scandinavia

- To use network of stations to **accelerate the Everfuel business case** of optimizing the complete hydrogen value chain – *making yesterday's wind to today's fuel*



Engaged in five strategic hydrogen production locations in Denmark

- **Ideal first market** to deploy commercial hydrogen production, distribution, fueling & PtX
  - 34MW[1] electrolyser capacity planned by 2022, growing to 600MW in 2025 and +3.3GW by 2030
  - Wind curtailment rising to ~8% of the total wind power capacity in 2020, equaling 1.4 TWh of curtailed power
- **Owner of Fredericia electrolyser** and distribution/ mobility partner on remaining projects
  - 2 sites operational in 2021, 2 more from 2022
  - All commercial sites are prepared for further expansion
- Agreement to develop access to **substantial hydrogen storage** capacity and potential pipeline for later export to other regions
- Repeat approach to **scale in other EU countries** based on bankable business cases and partnerships



1) 34MW electrolyser capacity can produce up to 14 ton/day of hydrogen, fueling 1000-1200 fuel cell buses

Everfuel

Financial review

Everfuel

Income statement

- **Financial results reflect thatthe company is in the initial stages of commercializing the green hydrogen value chain**
- **EBITDA was EUR -0.8 million for Q4-2020 and EUR -1.1 million for the full year**
- **Full-year EBITDA comparable to the adjusted EBITDA presented in January trading update**

EUR '000	Q4 2020	Q4 2019	FY 2020	FY 2019
Total revenue[1]	**271**	**97**	**1 048**	**170**
Cost of goods sold	-27	0	-97	0
Other operating expenses	-30	-97	-138	-97
Other direct cost	-31	0	-99	0
Salary and personnel cost	-426	-132	-1 011	-220
Other operating expenses	-556	-38	-812	-103
Depreciations and amortisations	-23	-1	-51	-1
Operating Profit	**-822**	**-171**	**-1 160**	**-252**
Financial income	591	0	591	0
Financial expenses	-11	-2	-17	-2
Net financial items	**580**	**-2**	**574**	**-2**
Profit before tax	**-242**	**-173**	**-587**	**-253**
Income tax expenses	0	38	76	56
Profit for the period	**-242**	**-135**	**-511**	**-198**

1 Reflects revenue from hydrogen sales and other operating income, whichincludes grants and other funding received

Everfuel

Positioned to invest for growth

- **Net proceeds of NOK 290/EUR 25.4 million from October private placement at NOK 22 per share**
- **Signed acquisition agreements totaling EUR 3.4 million in Q4-2020**
  - Some of which are closing in 2021
- **Additional NOK 600/EUR 58,5 million raised January 2021 private placement at NOK 125 per share**

Cash flow overview

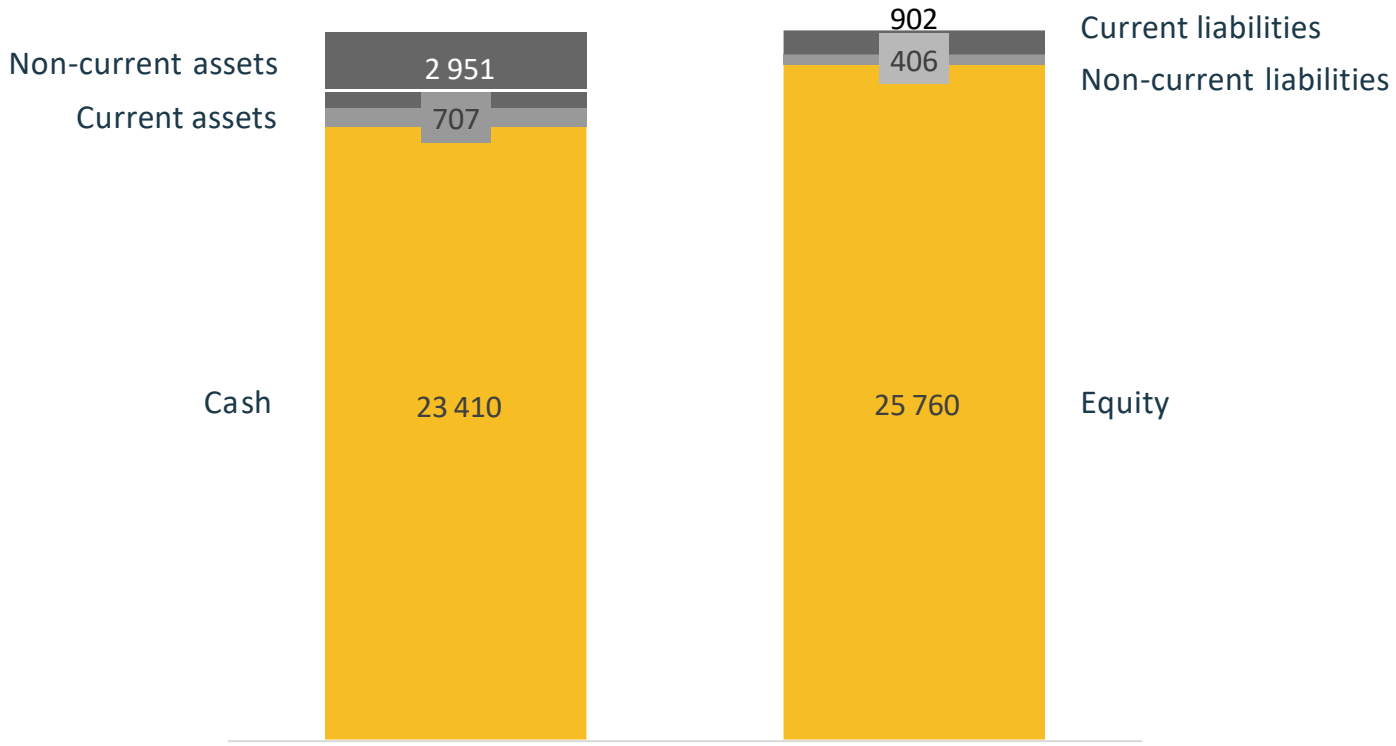
EUR '000	Q4 2020	Q4 2019	FY2020	FY 2019
Cash flows from operating activities	-851	-975	-399	-260
Cash flows from investing activities	-1 717	-20	-2 814	-20
Cash flows from financing activities	25 377	1 027	25 809	1 027
Change in cash and cash equivalents	**22 809**	**32**	**22 596**	**747**
Cash and cash equivalents at the end	**23 410**	**814**	**23 410**	**814**

Everfuel

Strong balance sheet supporting growth ambitions

Balance sheet at 31 December

EUR ‘000



Outlook

- Scale-up of organization (~30% increased headcount in Q1-2021) andincreased focus on App development, Helios and PtX engineering
- Build up of inhouse operation teamwithfocus on high H2Stationavailability. Prepare for increased salesfrom stationsin the accelerated green restartpost COVID-19
- Work systematically with vehicle OEM's and large fleet operatorsto establishlarge scale projects and contracts
- Increased attentionto the maritime sector and potential increased H2 revenue from sales to PtX offtakers

Everfuel

Summary and Q&A

1. Everfuel is a **leading European green hydrogen fuel** company
2. Positioned to **capitalize on EUR multi-billion** hydrogen heavy-duty fuel market **now opening up** in Europe
3. Firm **growth plan backed by proven execution capability** to unlock hydrogen at scale
4. Unique business model to secure **rapid growth, recurring revenues and solid profitability**

Everfuel

Appendix

Top tier team with proven execution capability

- Seasoned management team with combined 60 years of experience of developing and operating hydrogen and renewables projects and assets
- BoD with extensive green energy background provides strong support for growth strategy execution

Management team

CEO | Jacob Krogsgaard
Former co-founder and CEO of H2 Logic
H2 Logic acquired by NEL in 2015
Large shareholder and SVP of NEL 2015-19

CTO | Uffe Borup
Former VP Technology in NEL from 2016 – 2019
14 years solar start-up experience
Ph.D Engineering from Aalborg University

Sales director | Lars Jakobsen
Former Project Development Manager at NEL
Project Department Manager at EUE in 2014-17
M.Sc. Int. Business from CBS

CFO | Anders Møller Bertelsen
Former CFO and acting CEO at Afry
Experience from Siemens Wind Power, SAP Nobia and as an auditor with BDO
HD, Accounting & Financial management from Aarhus University

COO | Jeppe Hjuler Mikkelsen Former Managing Director and COO of Connected Wind Services Danmark / Refurbishment
M.Sc. Eng. Manufacturing from Aalborg University

Business dev. Director | Nicolaj Rasmussen
Former Project Manager in NEL
M.Sc. Tech. Based Business Development from Aarhus University and Harvard University

Board of directors

Chairman | Mogens Filtenborg
Holds several board seats and is CoB of DEIF, Niebuhr Gears and HETA A/S
Former board member of NEL ASA
Former COO and CTO of Vestas and CEO of SKOV AS

BoD member | Jørn Rosenlund
Senior Vice President – Fueling of NEL
Former COO H2 Logic A/S
MBA from Henley Management College

BoD member | Martin Skov Hansen
CEO of Society of Lifestyle and Up & Up Capital
Former partner at PwC
M.Sc. in Auditing from Syddansk University

Everfuel

Income statement

EUR '000 (Unaudited)	Q4 2020	Q4 2019	FY 2020	FY 2019
Revenue from hydrogen sales	29	0	69	0
Other operating income	242	97	979	170
Total revenue	**271**	**97**	**1 048**	**170**
Cost of goods sold	-27	0	-97	0
Other operating expenses	-30	-97	-138	-97
Other direct cost	-31	0	-99	0
Salary and personnel cost	-426	-132	-1 011	-220
Other operating expenses	-556	-38	-812	-103
Depreciations and amortisations	-23	-1	-51	-1
Operating Profit	**-822**	**-171**	**-1 160**	**-252**
Financial income	591	0	591	0
Financial expenses	-11	-2	-17	-2
Net financial items	**580**	**-2**	**574**	**-2**
Profit before tax	**-242**	**-173**	**-587**	**-253**
Income tax expenses	0	38	76	56
Profit for the period	**-242**	**-135**	**-511**	**-198**

Everfuel

Balance sheet

EUR '000 (Unaudited)	31 Dec. 2020	31 Dec. 2019
Assets		
Patents, trademarks and other rights	187	0
Total intangible assets	**187**	**0**
Land and buildings	10	0
Plant and machinery	900	0
Other fixt. and fit., tools and eqp.	104	19
Assets under construction	1 210	0
Right-of-use assets	469	0
Total property, plant and equipment	**2 693**	**19**
Other non-current assets	**72**	**0**
Total non-current assets	**2 951**	**19**
Trade receivables	172	0
Other receivables	278	120
Corporation tax(asset)	0	70
Prepayments	12	136
Accrued grants	244	0
Total receivables	**707**	**325**
Cash at bank and in hand	**23 410**	**814**
Currents assets	**24 117**	**1 139**
Assets	**27 068**	**1 158**

EUR '000 (Unaudited)	31 Dec. 2020	31 Dec. 2019
Equity		
Share capital	98	80
Other paid-in capital	26 350	1 013
Retained earnings fromincome statement	-688	-213
Total equity	**25 760**	**880**
Provision for deferred tax	0	14
Lease obligations	406	0
Total non-current liabilities	**406**	**14**
Lease obligations, short-term	49	0
Trade payables	680	187
Payables to group enterprises	0	17
Other payables	45	60
H2Bus Consortium	40	0
Prepayments/accrued grants	89	0
Total current liabilities	**902**	**264**
Liabilities	**1 308**	**278**
Liabilities and equity	**27 068**	**1 158**

Everfuel

Cash flow

EUR '000 (Unaudited)	Q4 2020	Q4 2019	FY 2020	FY 2019
Profit/loss before tax	-242	-172	-587	-253
Depreciation and amortization	23	1	51	1
Non-cash employee expense – warrant programme	35	0	35	0
Net exchange differences	-1	0	0	0
Cash flows from operating activities before change in workingcapital and tax	**-185**	**-171**	**-500**	**-252**
Change in inventories	0	0	0	0
Change in receivables	-339	0	-475	-252
Change in other provisions	0	0	0	0
Change in trade payables, etc	-397	-803	506	245
Corporation tax paid	70	0	70	0
Cash flows from operating activities	**-851**	**-975**	**-399**	**-260**
Purchase of intangible assets	-130	0	-189	0
Purchase of property, plant and equipment	-1 587	-20	-2 615	-20
Purchase of fixed assets	0	0	-10	0
Cash flows from investing activities	**-1 717**	**-20**	**-2 814**	**-20**
Reduction of lease obligations	-12	0	-28	0
Raising of lease obligations	35	0	483	0
Cash capital increase	25 354	1 027	25 354	1 027
Dividend paid	0	0	0	0
Cash flows from financing activities	**25 377**	**1 027**	**25 809**	**1 027**
Change in cash and cash equivalents	**22 809**	**32**	**22 596**	**747**
Cash and cash equivalents at the beginning	601	783	814	68
Cash and cash equivalents at the end	**23 410**	**814**	**23 410**	**814**

Everfuel

Everfuel

Hydrogen in buildings

Waterstofwijk Hoogeveen
BatHyBuild

Heating with Hydrogen

a real case in Hoogeveen

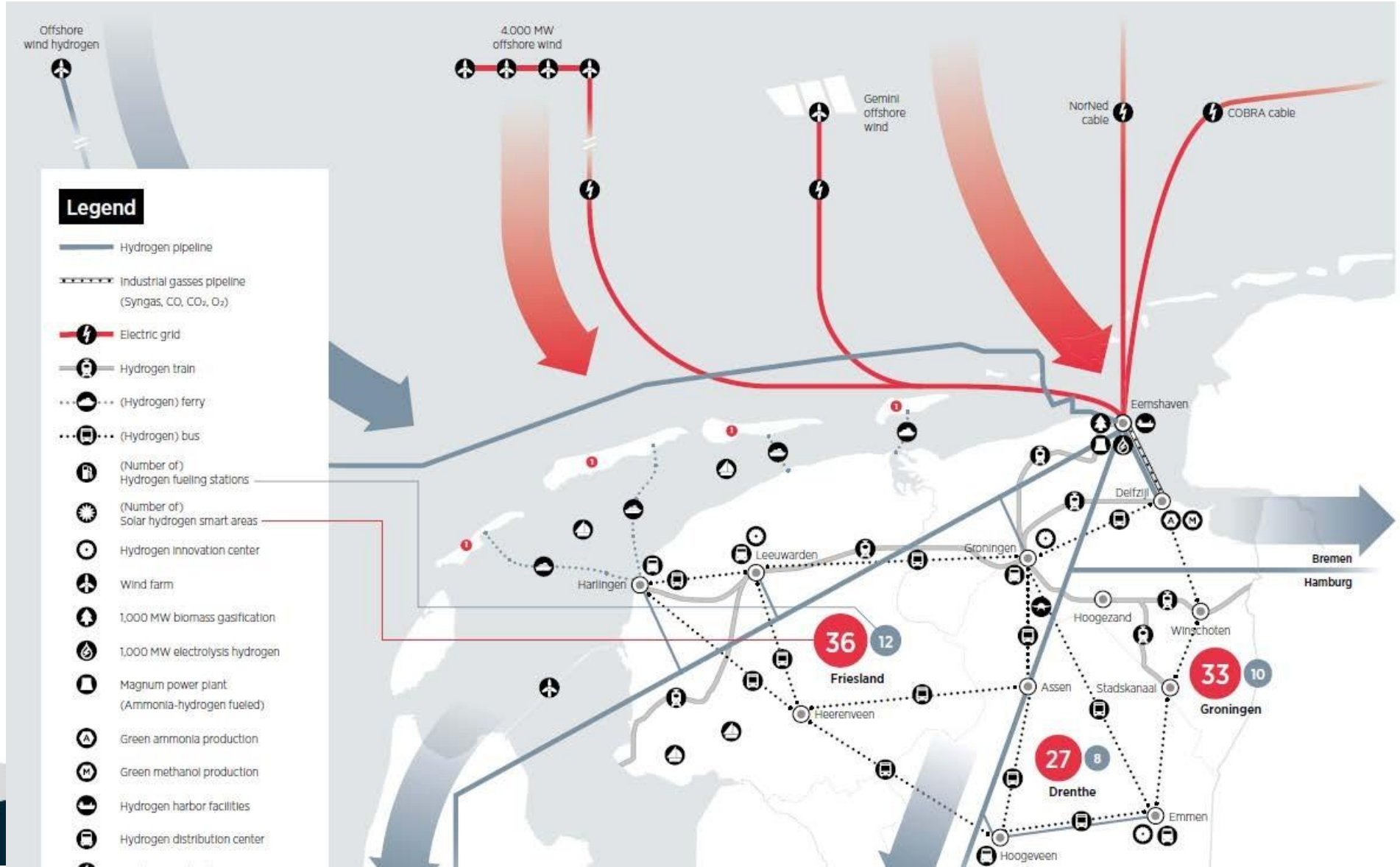
Dr. Ir. Jan-jaap Aué
Professor Hydrogen Applications
Hanze University of Applied Sciences
j.aue@pl.hanze.nl

WATERSTOFWIJK HOOGEVEEN

HYDROGEN VALLEY

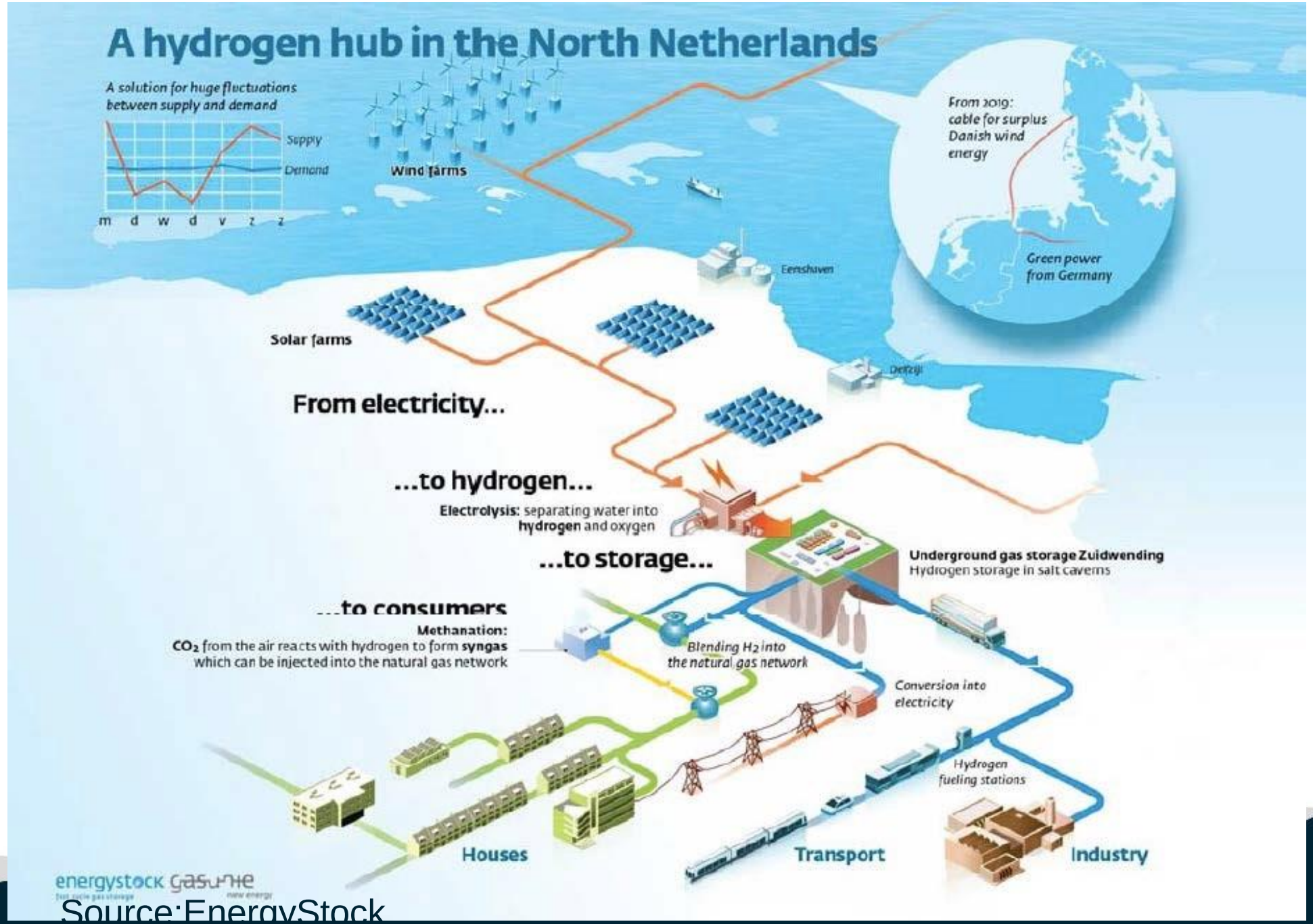
WATER STOF WIJK

The overall regional Hydrogen vision up to 2030



HYDROGEN VALLEY

WATER STOF WIJK



Source:EnergyStock

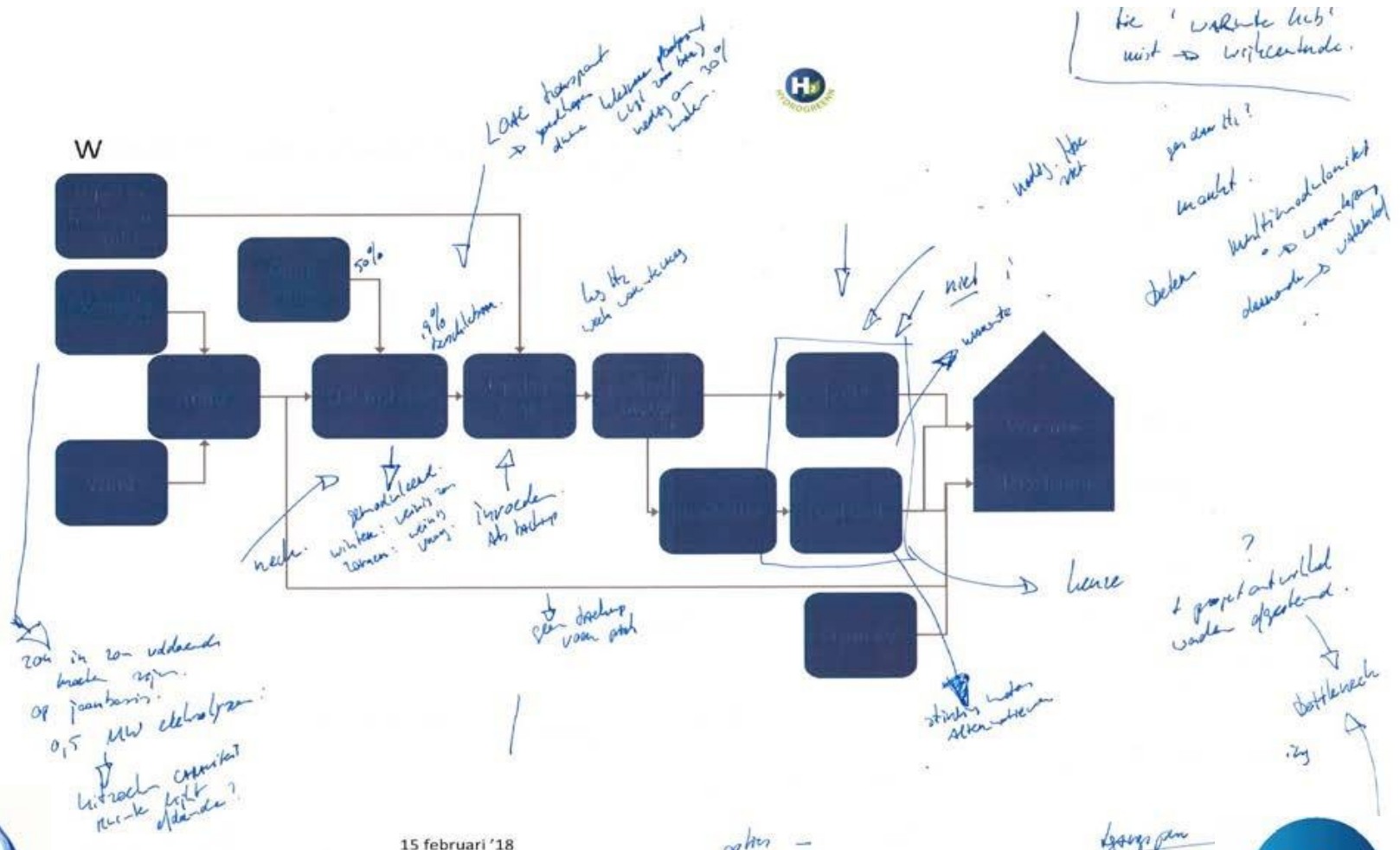

Ministerie van Infrastructuur en Milieu
Rijksdienst voor Ondernemend Nederland
NAM
SBE
gasunie
GasTerra
energy valley
provincie groningen
HOLTHAUSEN GROUP
TNO innovation for life
SIEMENS
AkzoNobel
DNV·GL
NAM
CHEMPORT EUROPE
NUON
Resato
Coalition of Hydrogen ambassadors Kick-off
12 September 2017
WWW.LOODSKOTTER.NL
STORK
A Fluor Company
EnTranCe
ENERGY TRANSITION CENTRE
WATER STOF WIJK

Hydrogreenn network

H2 HYDROGREENN

WATER STOF WIJK

Brainstorm Design sessions



Consortium Waterstofwijk Hoogeveen

Waterstofwijk Hoogeveen

Een blauwdruk voor waterstoftoepassing

Hoogspanning

Schutlanden West

Schutlanden Oost

Kattouw

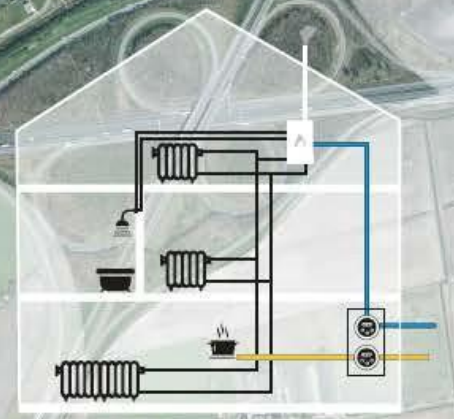
Nijstad Oost

RWZI

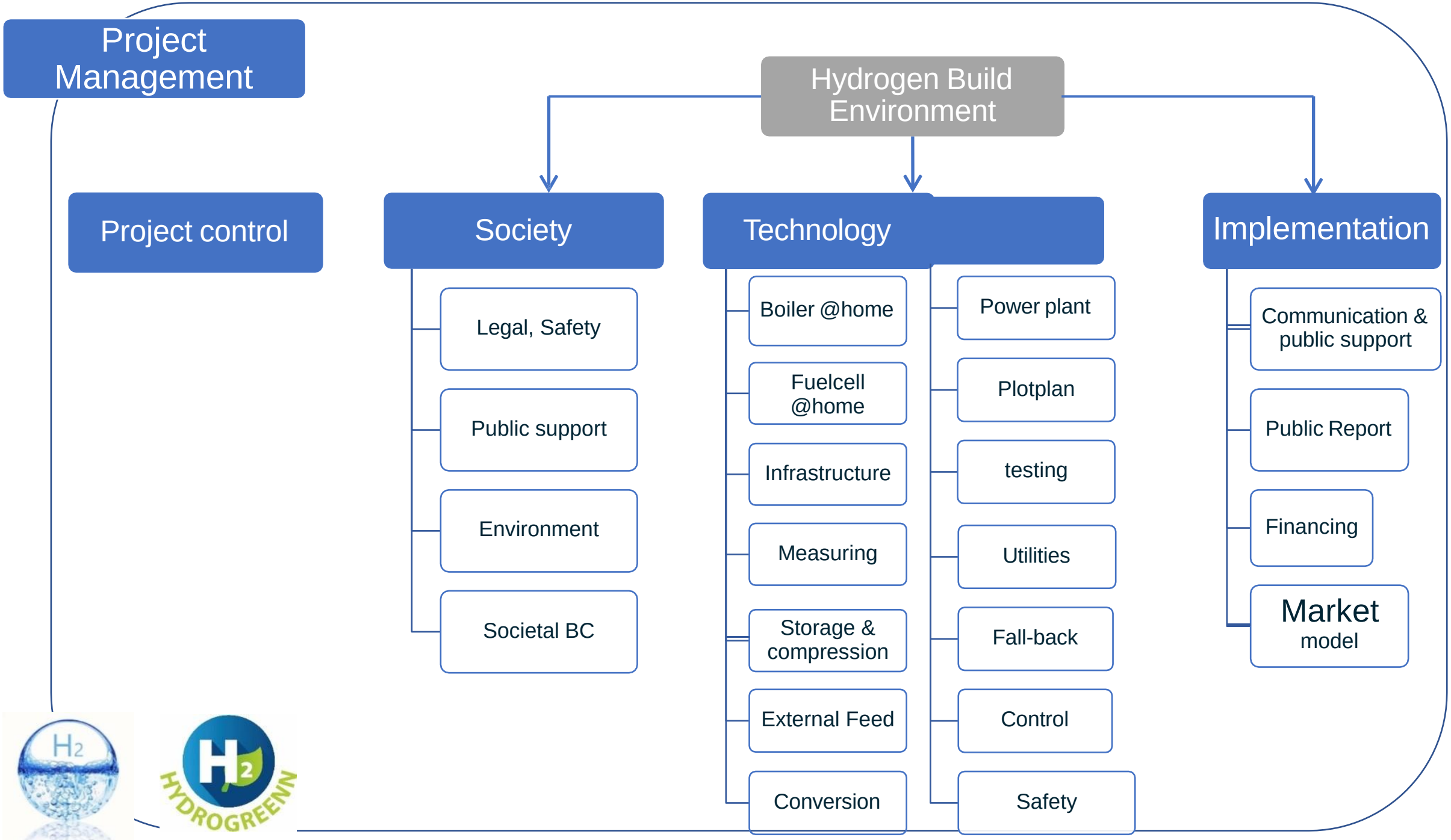
Recreatieplas

NAM locatie Ten Arlo

Erflanden



Bouw mee aan de waterstofketen van Hoogeveen


Project Management
Hydrogen Build Environment
Project control
Society
Technology
Implementation
Legal, Safety
Public support
Environment
Societal BC
Boiler @home
Fuelcell @home
Infrastructure
Measuring
Storage & compression
External Feed
Conversion
Power plant
Plotplan
testing
Utilities
Fall-back
Control
Safety
Communication & public support
Public Report
Financing
Market model

timeline

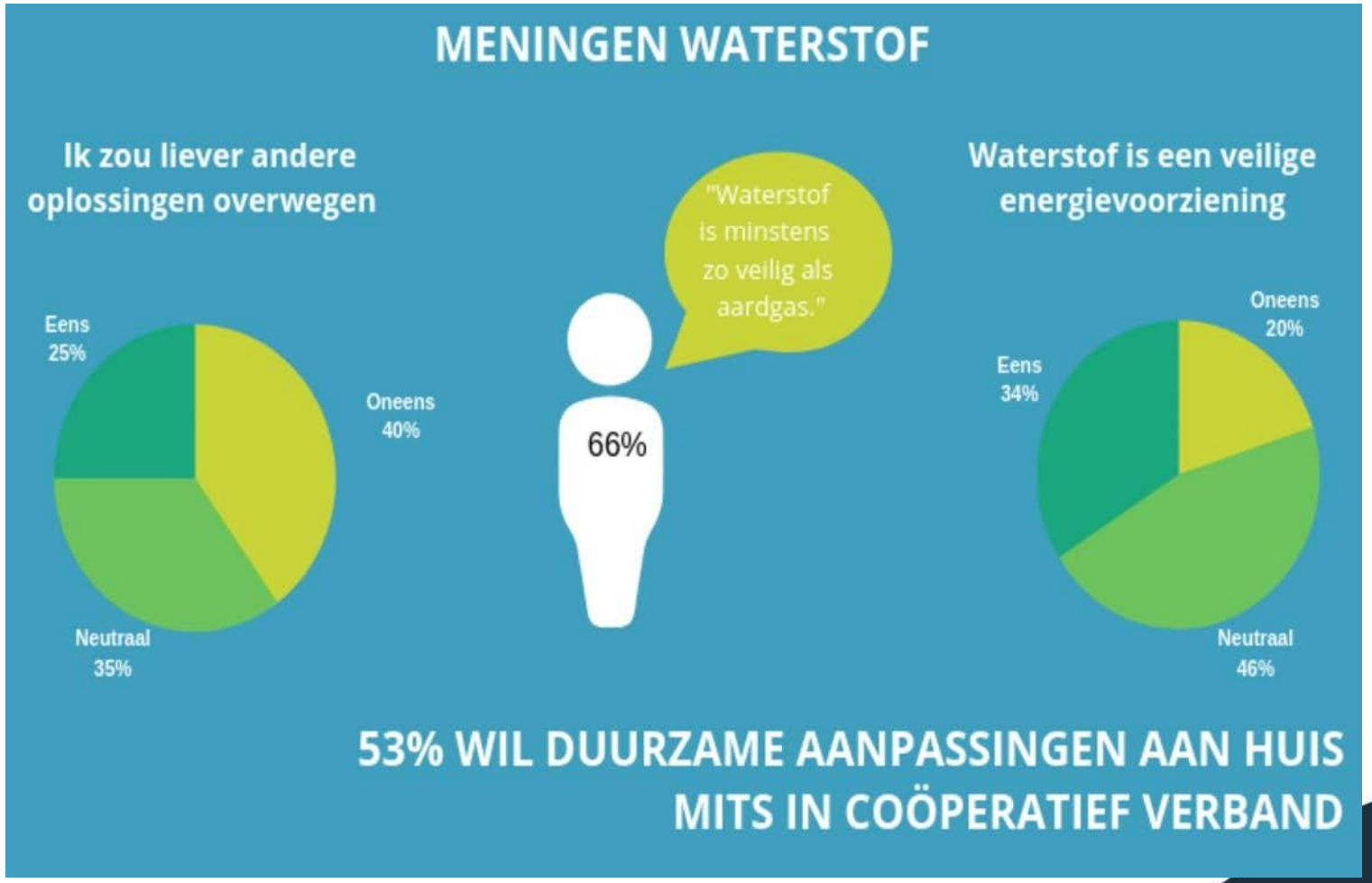

Waterstofwijk Hoogeveen
Implementatie Fase 1: Nijstad-Oost, nieuwbouw, 100% waterstof, 2021
Implementatie Fase 2: Erflanden, start ombouw 427 woningen, 2022
Systeemfase 1: Externe aanvoer/opslag H2, middelste rij, 2021
Systeemfase 2: Locale productie H2, bovenste rij, 2023
Systeemfase 3: Aanvoer H2, onderste rij, via backbone, 2027
7
Groene stroom productie
8
Elektrolyse van water naar waterstof
9
Compressie
1
Externe aanvoer
2
Losstation
3
Opslag/buffer
4
Gasontvangststation
5
Waterstofdistributienet
6
Huisaansluiting woning
Backbone
10

Main (generic) conclusions

- Hydrogen is in specific cases an interesting addition to possible solutions for heat in the build environment against acceptable societal costs
- Safety issues are not significant different from natural gas;
- Experiments needed : learning by doing on all levels;
- Integral problems need integral approach;
- Existing legislation can also offer solutions!
- Key for upscaling is production and industrialisation

Public acceptance

Public Acceptance



- Work on trust
- Access to (neutral) information
- Support cooperative movements

14 mei 2019
meeting for potential buyers

170 registered
400+ visitors

Citizens involvement

- independent resident's council
- With support of Natuur en Milieu Federatie Drenthe
- Cooperation with 'Stad aan het Haringvliet'
- Involved in application for 'proeftuin aardgasvrije wijken'


GEEN
H1
GEEN
WATERSTOF

Societal Business Case (MKBA)

Real Costs split into 3

Projection of Production prices

Transport & storage

Investments @Home

Costs before taxes, subsidies etc compared to alternatives and split into ‘who is paying what’

Condensing Boiler : rationale

Installed base

- gasinfra
- Natural gas condensing boiler
- Installer networks
- Heating systems in place

Costs

- little CAPEX
- Biggest change: other product on the bill

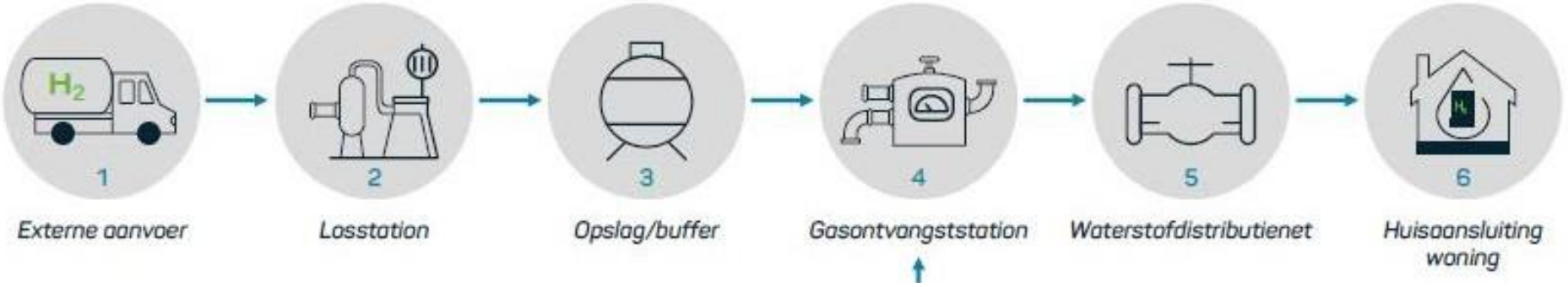
technology

- low NOx
- No CO
- Scalable
- Combinations with hybrid heatpumps

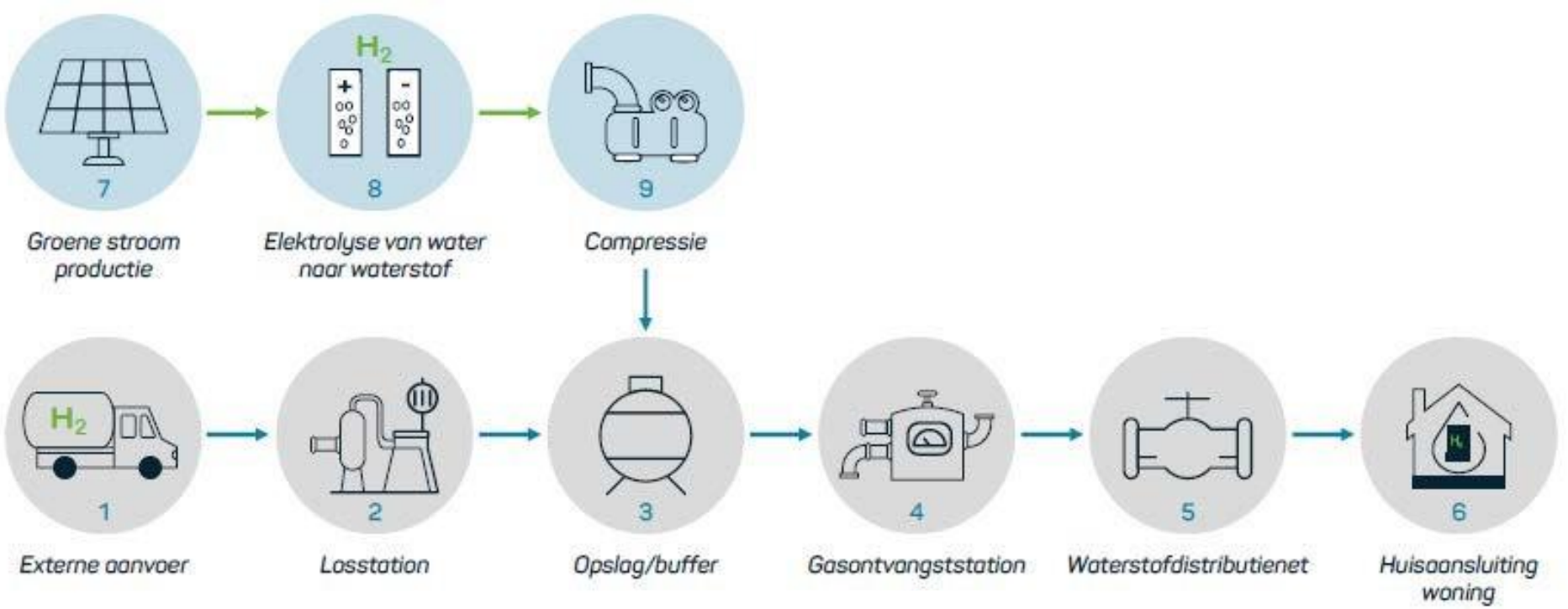
results

- Expanded knowledge on
  - Burning H2
  - H2 appliance
- Endurance tests @ Entrance
  - Succesfully completed
  - Lots of interest (and solutions) from 3rd parties
  - Installation guides, best practices etc
- OEM burner being developed by Bekaert
- Surprises:
  - low NOx (reduction: 60-80%)
  - white paper with DNV-GL

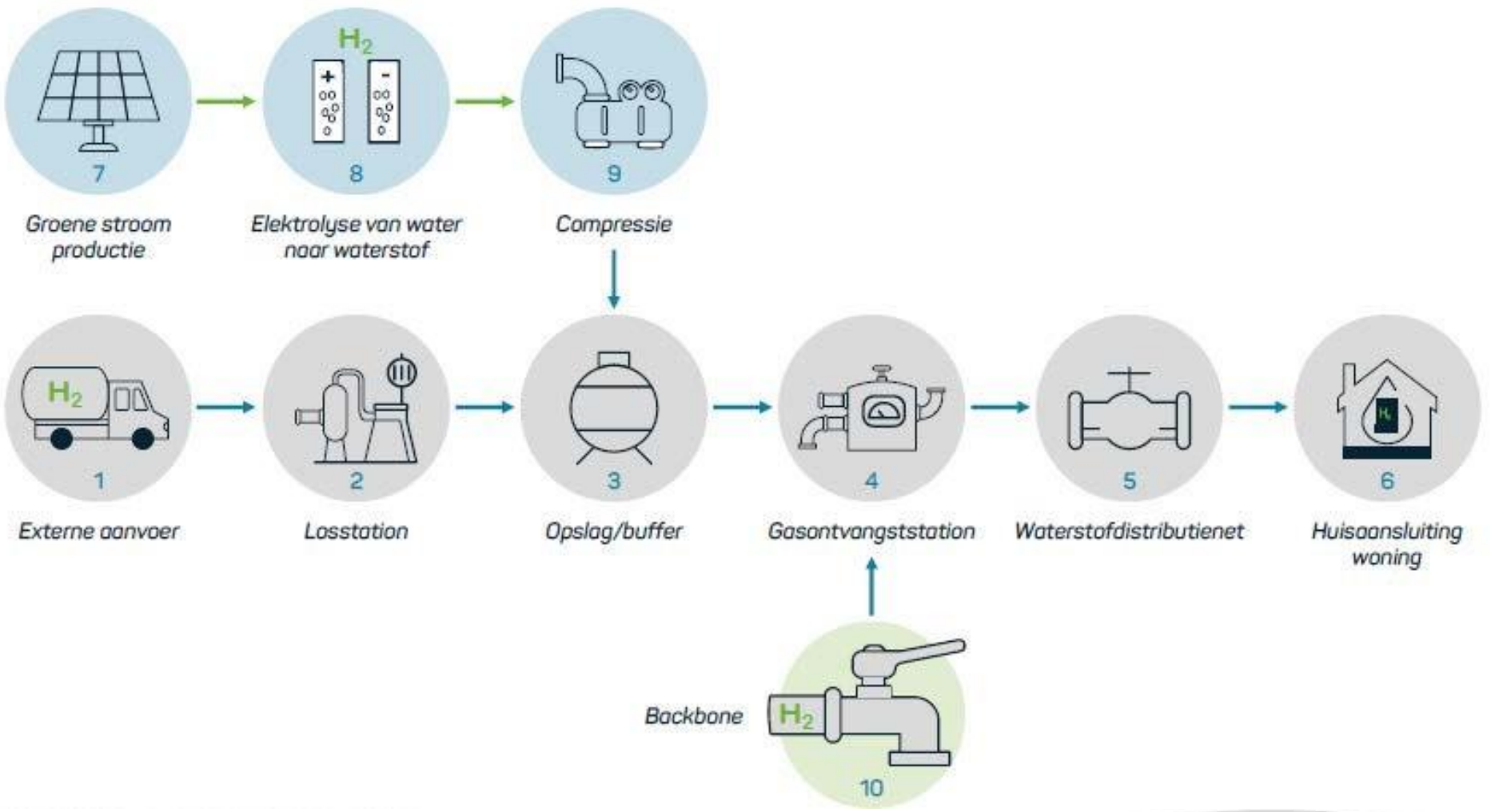
Project system-phases (I) 2021



Project system-phases (II) 2023



Project system-phases (III) 2027



Project implementation-phases

Fase 1: Nijstad-oost
Nieuwbouw
80 woningen
2021/2022

Fase 2: Erflanden
Bestaand bouw
6 woningen
2023

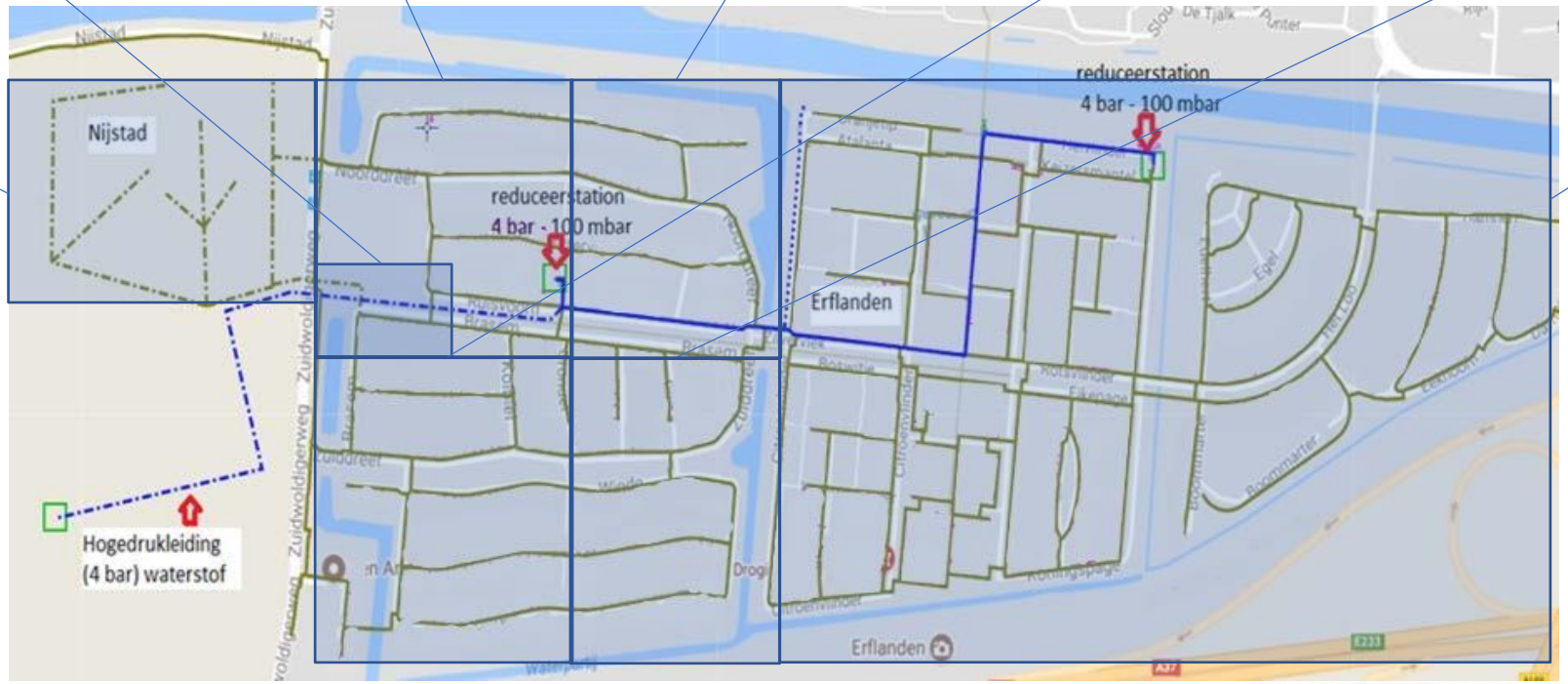
Fase 3: Erflanden
Bestaand bouw
95 woningen
2024

Fase 4: Erflanden
Bestaand bouw
193 woningen
2025

Fase 5: Erflanden
Bestaande bouw
303 woningen
2026

Fase 6: Erflanden
Bestaande bouw
418 woningen
2027

Fase 7: Erflanden
Bestaande bouw
> 420 woningen
> 2028



Public Report (Dutch)

https://research.hanze.nl/en/publications/waterstofwijk-plan-voor-waterstof-in-hoogeveen

https://research.hanze.nl/en/publications/waterstof-in-de-gebouwde-omgeving-synthese-thematiek-waterstoflab

BatHyBuild

Bottom-up analysis of technologies for hydrogen in buildings

Jan Rongé (KU Leuven)

03/03/2021

Aim of the study

Question:

“Can hydrogen be useful in the built environment? If so, how?”

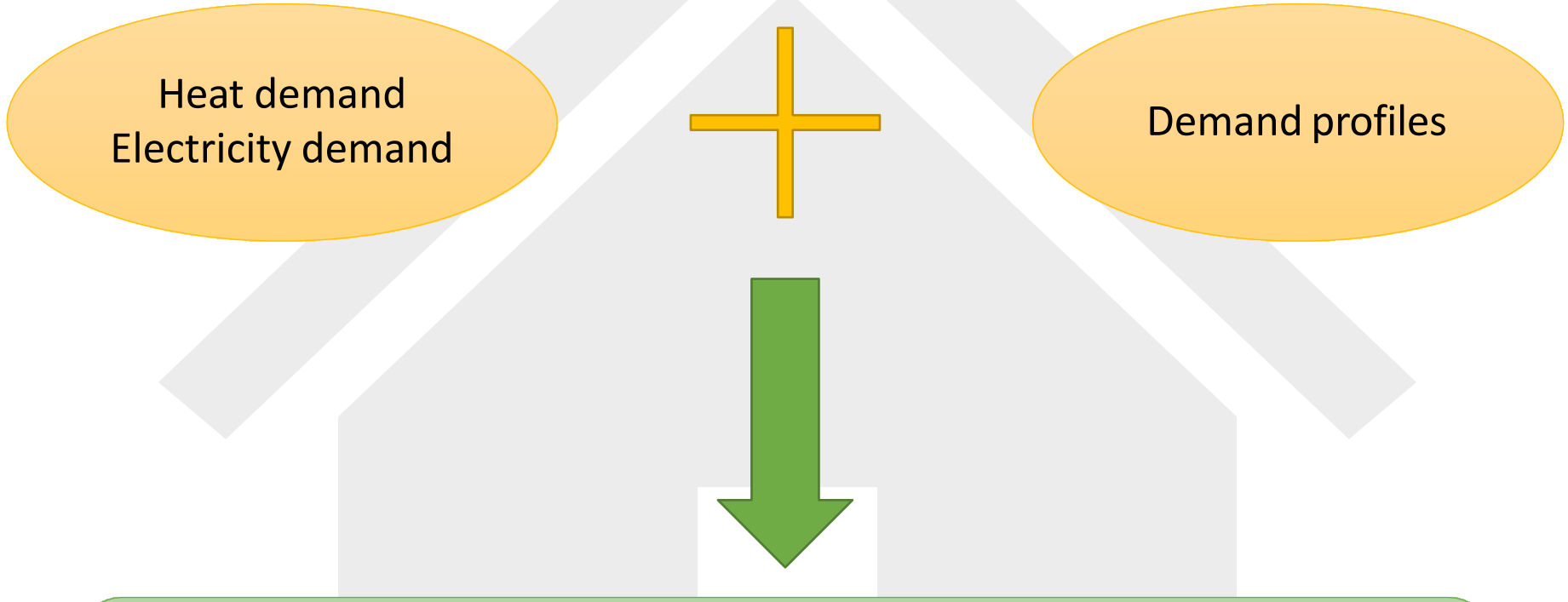
Input for

➔ pilot projects

➔ policy recommendations

➔ further studies

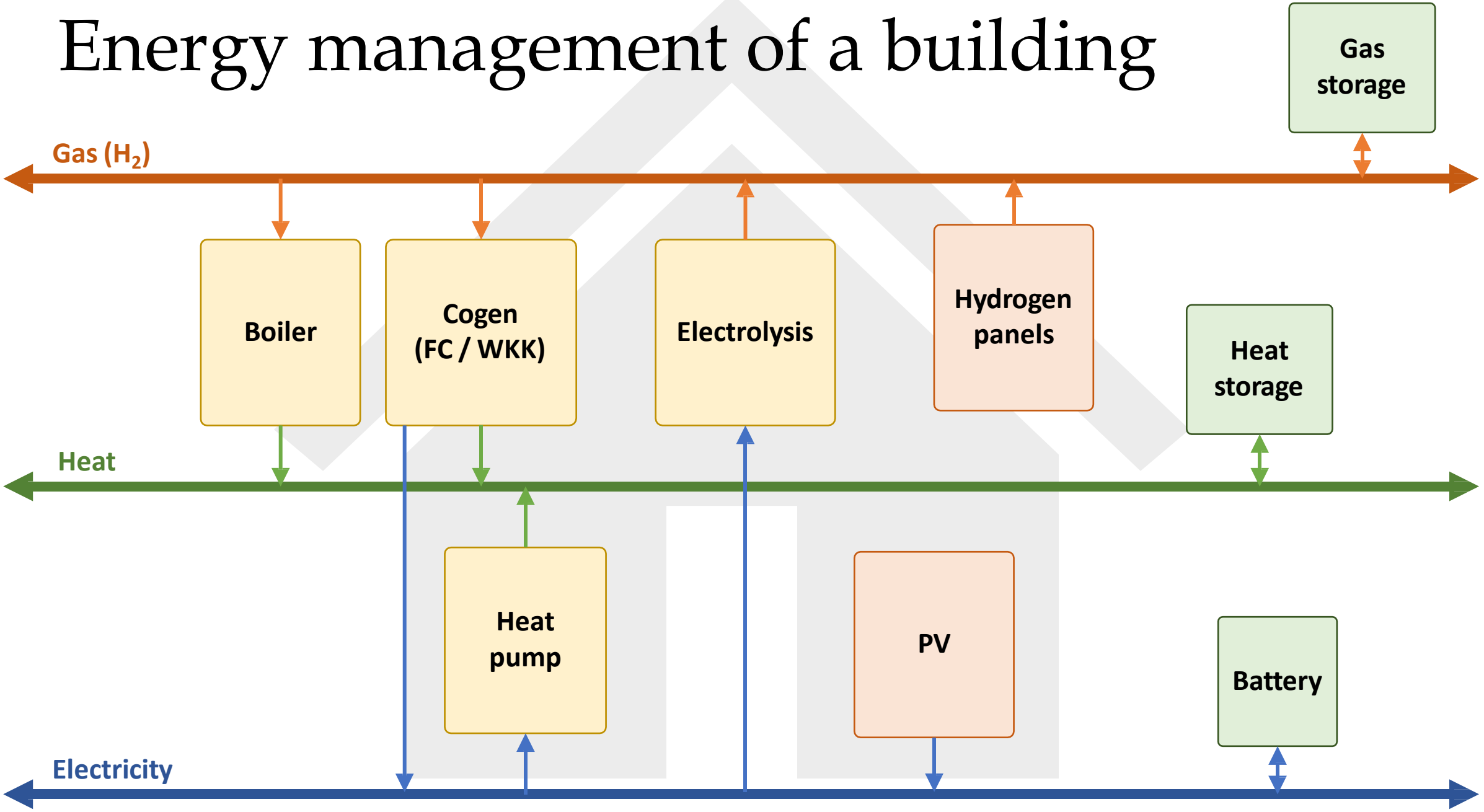
Energy management of a building



How to fulfil the energy demand every hour of the year

- at the lowest cost
- with renewable energy
- with minimal stress on grid infrastructure

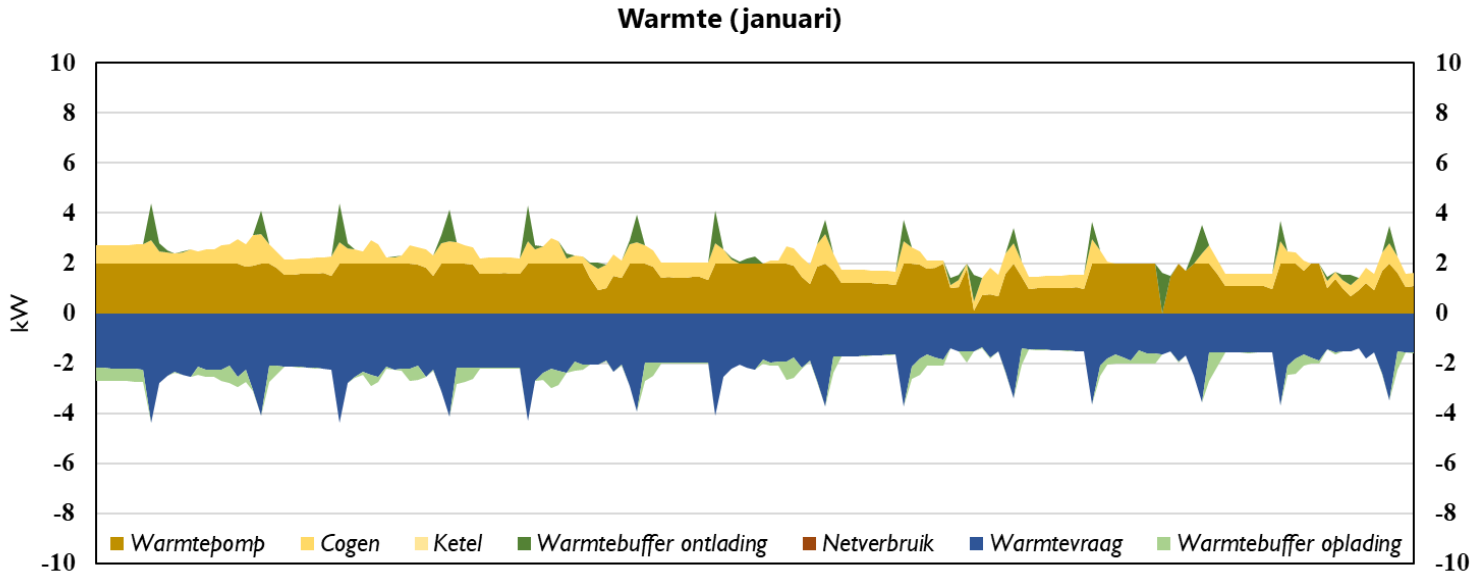
Energy management of a building

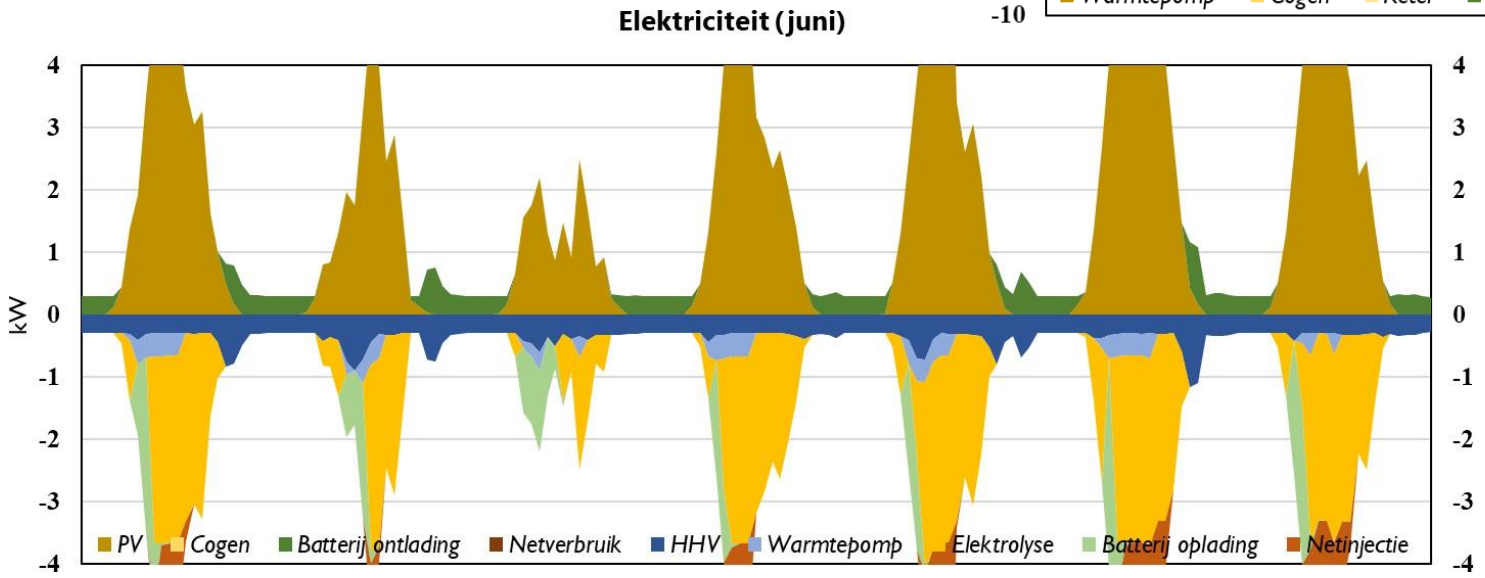


Energy management of a building

Examples of resulting profiles

(9 MWh heat demand, heat pump + fuel cell, PV, electrolysis, battery, heat storage)





Model

- The model rests on important assumptions:
  - Hydrogen and electricity are **100% renewable**
  - **“Inifinite” supply** of green hydrogen is assumed via the gas distribution grid (import!)
  - Error bars refer to **optimistic / pessimistic scenarios** (technology development (cost, efficiency), energy price)
- Dozens of **contexts** were considered. Here, we provide a summary based on a few case studies:
  - Electricity demand is always 3 500 kWh/year
  - Hot water demand is always 2 800 kWh/year
  - Electricity prices are constant throughout the year
  - Scenarios are considered for **2050**. Some cases may however be interesting from 2030 onwards.

Model

- There is (limited) consideration for e.g. influence of water temperature. However, hydraulic calculations are not fully taken into account.
- In the coming slides **“energy costs”** are shown: this is the total cost of gas, electricity, grid costs, CAPEX & OPEX of equipment, correction for remaining value
- Important assumptions (2050):

	Min	Base	Max
Electricity cost (excl. capacity tariff & VAT)	128 €/MWh	148 €/MWh	168 €/MWh
Hydrogen cost (LHV, excl. VAT)	80 €/MWh	90 €/MWh	110 €/MWh
Nominal COP heat pump (L-W)	4	5	6

A new house in a new neighbourhood

Renovation of an existing house

Renovation of an appartment complex

3 example scenarios

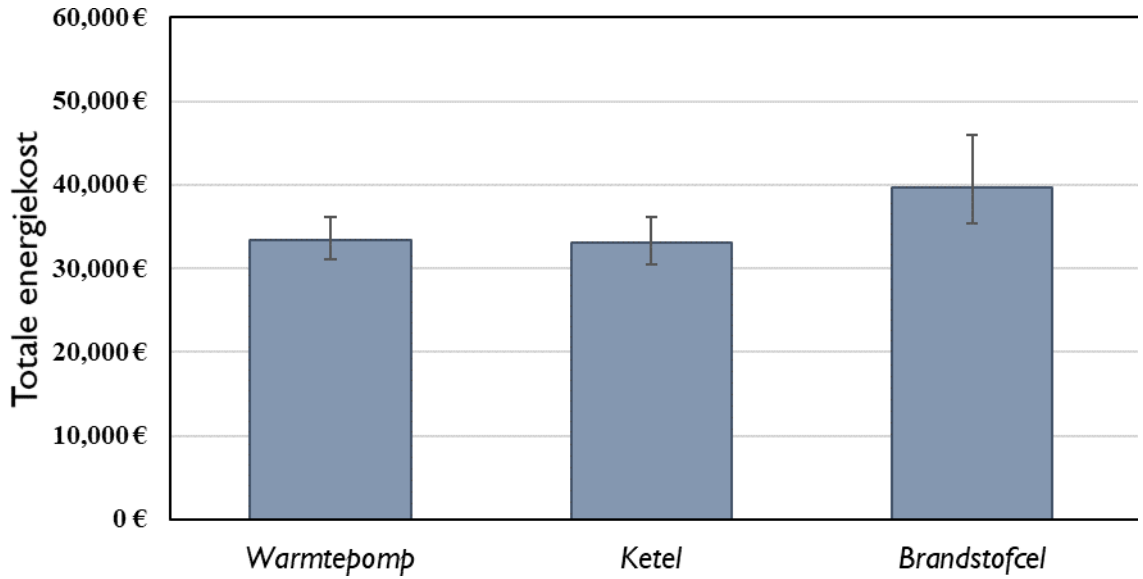
New house

All electric	Hydrogen boiler	Cogeneration
• 5 MWh heat demand • No gas grid	• 5 MWh heat demand • With gas grid	• 5 MWh heat demand • With gas grid

New house

All electric	Hydrogen boiler	Cogeneration
• 5 MWh heat demand • No gas grid	• 5 MWh heat demand • With gas grid	• 5 MWh heat demand • With gas grid

Energy costs (20 years)



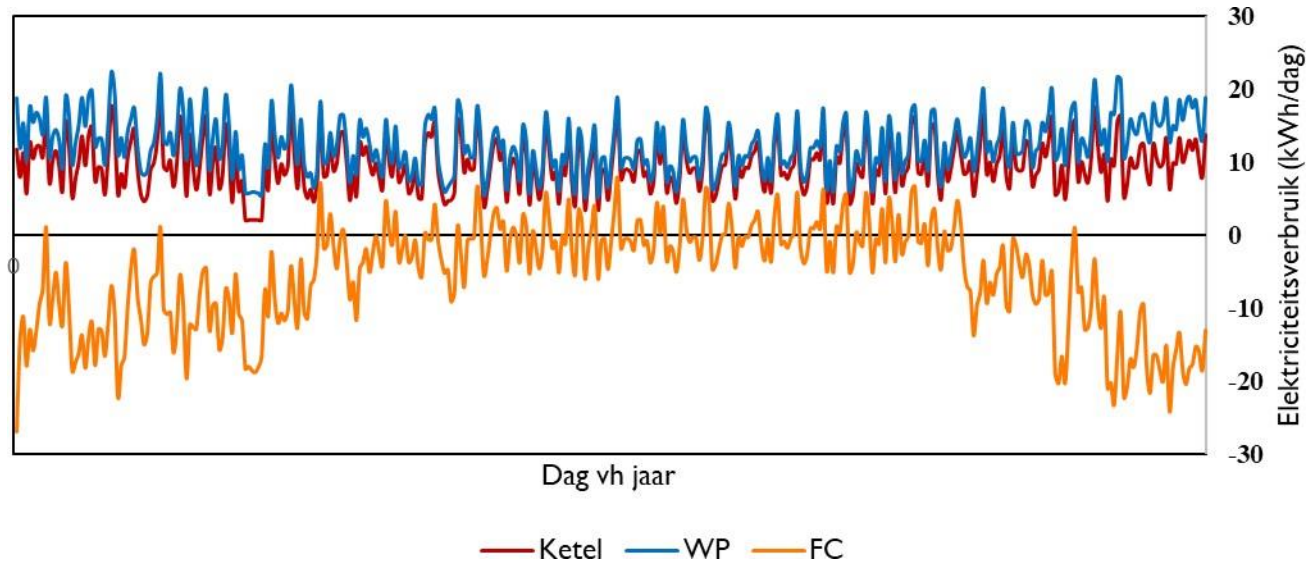
Notes on cogeneration:

- FC and CHP-burner have similar costs.
- The difference with heat pump becomes smaller with dynamic electricity prices

New house

All electric	Hydrogen boiler	Cogeneration
• 5 MWh heat demand • No gas grid	• 5 MWh heat demand • With gas grid	• 5 MWh heat demand • With gas grid

Grid electricity demand



New house

All electric	Hydrogen boiler	Cogeneration
• 5 MWh heat demand • No gas grid	• 5 MWh heat demand • With gas grid	• 5 MWh heat demand • With gas grid
• Low cost • (Peak electricity demand is acceptable) • No gas grid necessary • Higher electricity demand in winter	• Low cost • Gas grid needed: more suitable for existing neighbourhoods • Lower electricity demand in winter	• More expensive (ca. €400/year) • Gas grid needed: more suitable for existing neighbourhoods • Injection of green electricity during winter!

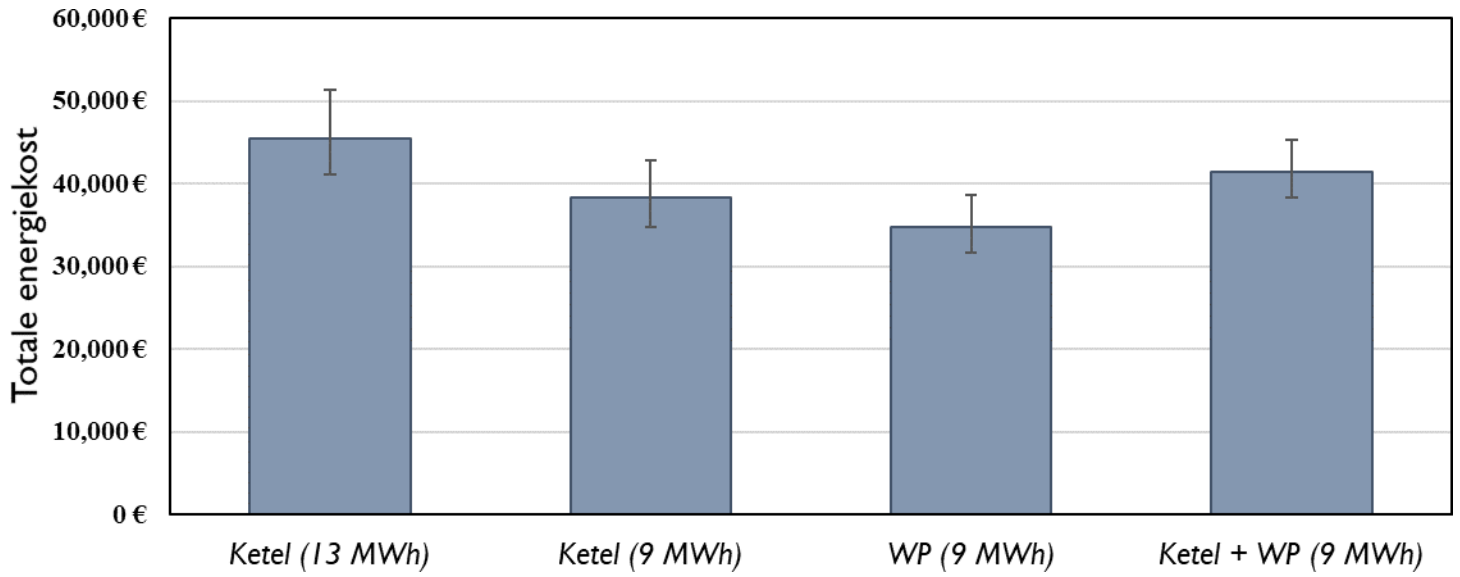
Renovation

Limited renovation	Maximum insulation	Thorough renovation
• 13 MWh heat demand • No low temp. heating • ➔ *Hydrogen boiler*	• 9 MWh heat demand • No low temp. heating • ➔ *Hydrogen boiler* • ➔ *Heat pump + hydrogen boiler*	• 9 MWh heat demand • With low temp. Heating system • ➔ *Heat pump*

Renovation

Limited renovation	Maximum insulation	Thorough renovation
• 13 MWh heat demand • No low temp. heating • ➔ *Hydrogen boiler*	• 9 MWh heat demand • No low temp. heating • ➔ *Hydrogen boiler* • ➔ *Heat pump + hydrogen boiler*	• 9 MWh heat demand • With low temp. Heating system • ➔ *Heat pump*

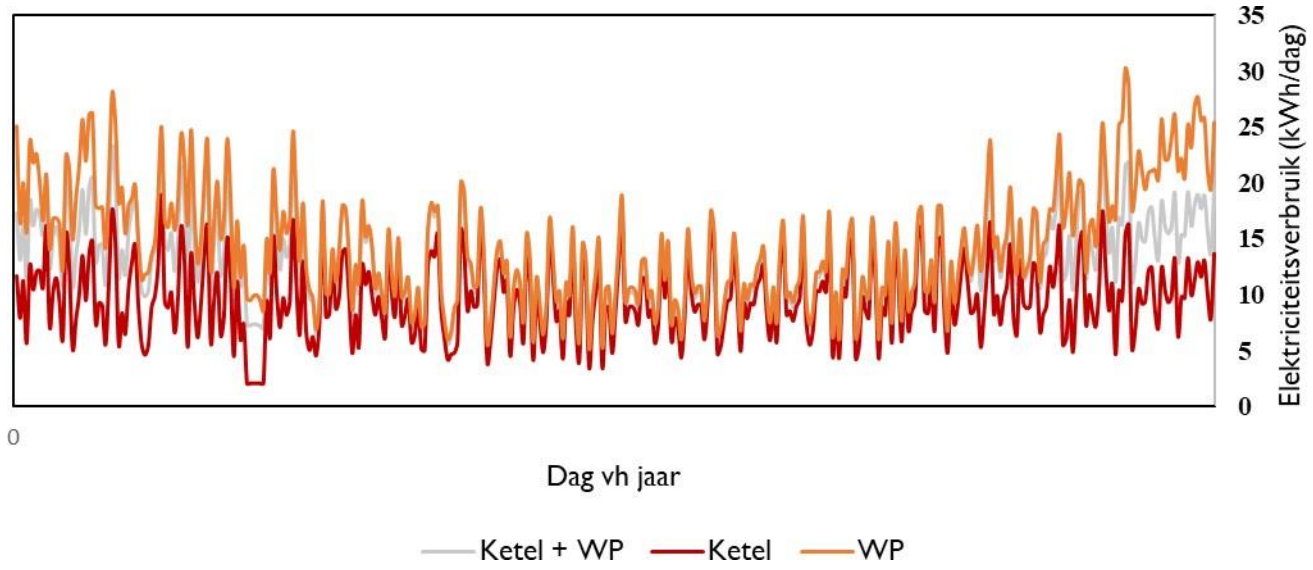
Energy costs (20 years)



Renovation

Limited renovation	Maximum insulation	Thorough renovation
• 13 MWh heat demand • No low temp. heating • ➔ *Hydrogen boiler*	• 9 MWh heat demand • No low temp. heating • ➔ *Hydrogen boiler* • ➔ *Heat pump + hydrogen boiler*	• 9 MWh heat demand • With low temp. Heating system • ➔ *Heat pump*

Grid electricity demand



Renovation

Limited renovation	Maximum insulation	Thorough renovation
• 13 MWh heat demand • No low temp. heating • ➔ *Hydrogen boiler*	• 9 MWh heat demand • No low temp. heating • ➔ *Hydrogen boiler* • ➔ *Heat pump + hydrogen boiler*	• 9 MWh heat demand • With low temp. Heating system • ➔ *Heat pump*
• Costly option (ca. €8000 higher energy costs compared to option 2) • Lower renovation costs	• Low cost option: only € 4000 higher energy costs compared to option 3 (but lower renovation costs) • Benefit of hybrid heat pump unclear	• Lowest energy costs • Low temp. heating required • Much higher electricity demand in winter

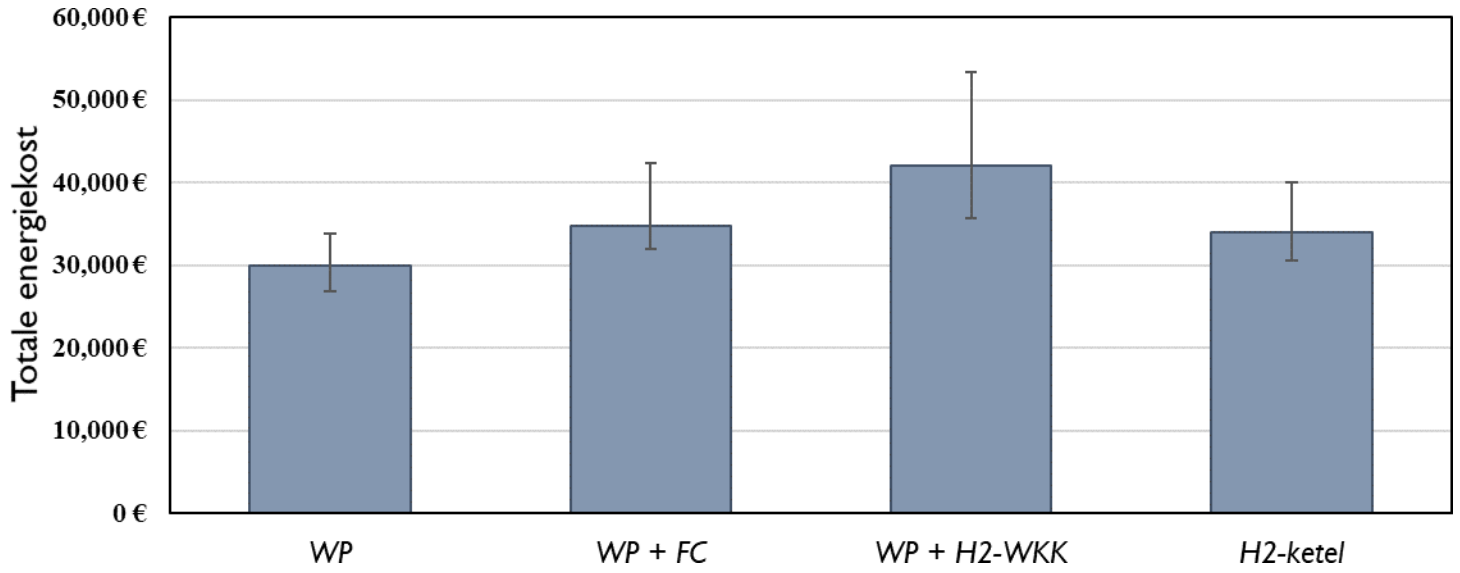
Appartment complex

All electric	Cogeneration	H2 boiler
• 5 MWh heat demand • Central heat pump	• 5 MWh heat demand • Central heat pump + cogeneration • 1 gas grid connection	• 5 MWh heat demand • Central hydrogen boiler • 1 gas grid connection

Appartment complex

All electric	Cogeneration	H2 boiler
• 5 MWh heat demand • Central heat pump	• 5 MWh heat demand • Central heat pump + cogeneration • 1 gas grid connection	• 5 MWh heat demand • Central hydrogen boiler • 1 gas grid connection

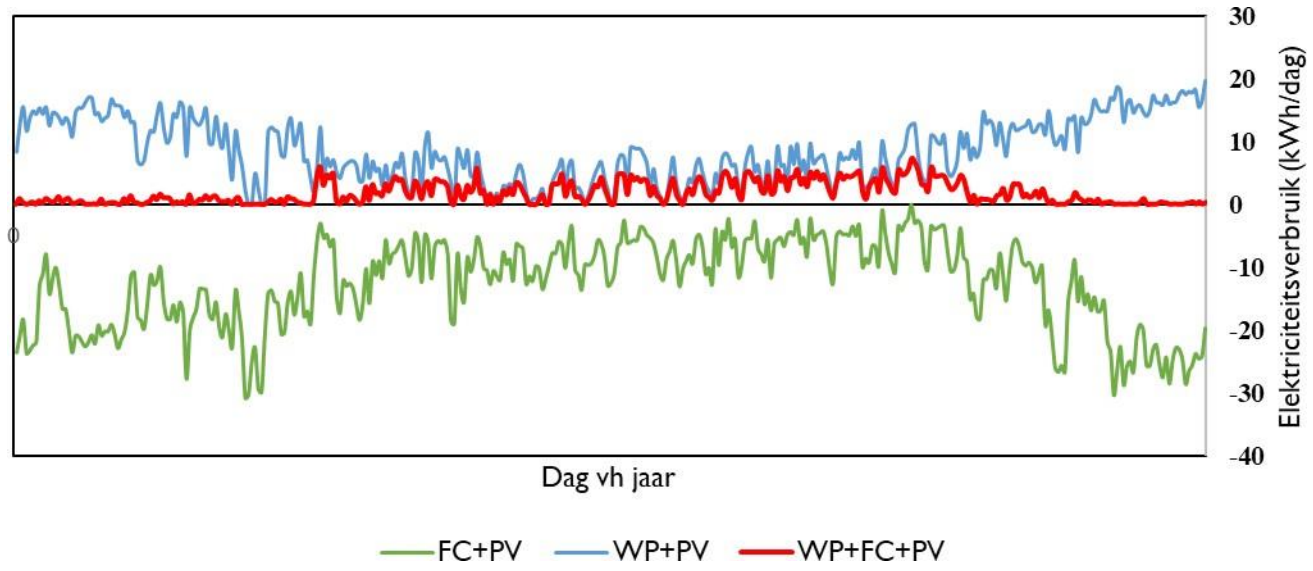
Energy costs (20 years)



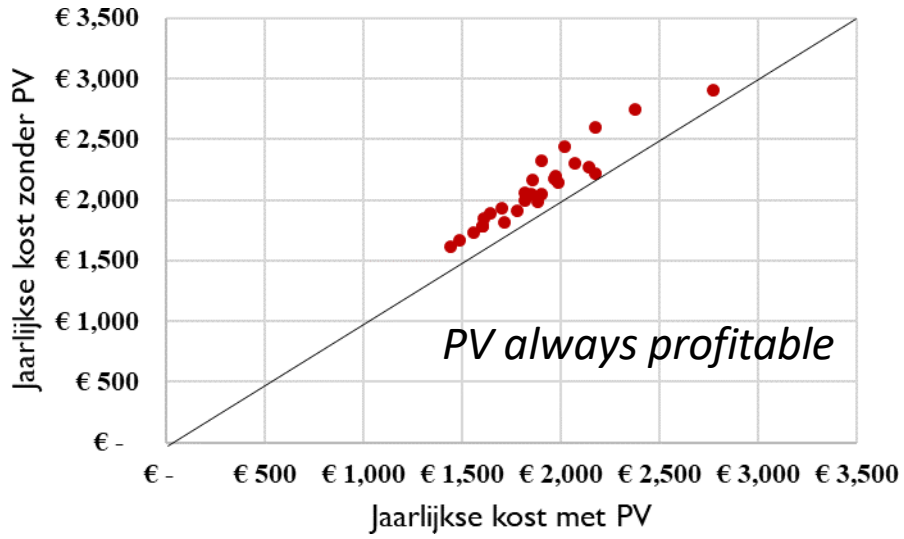
Appartment complex

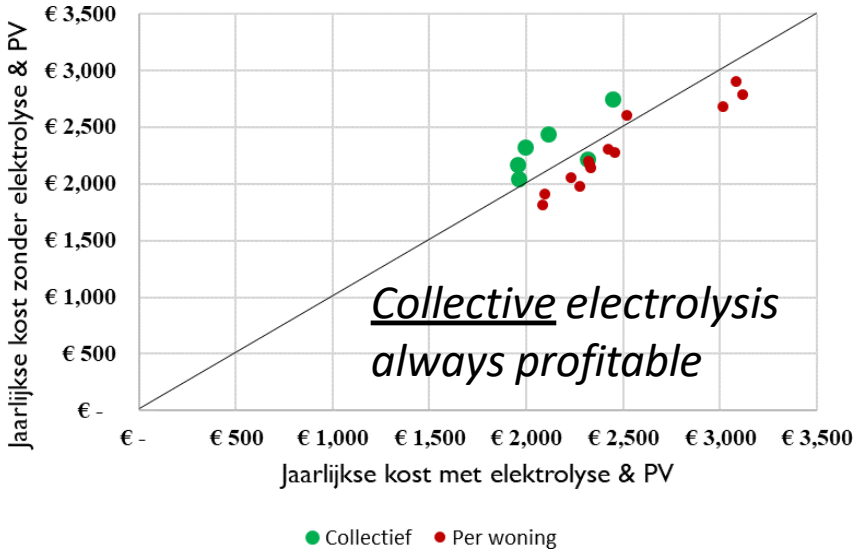
All electric	Cogeneration	H2 boiler
• 5 MWh heat demand • Central heat pump	• 5 MWh heat demand • Central heat pump + cogeneration • 1 gas grid connection	• 5 MWh heat demand • Central hydrogen boiler • 1 gas grid connection

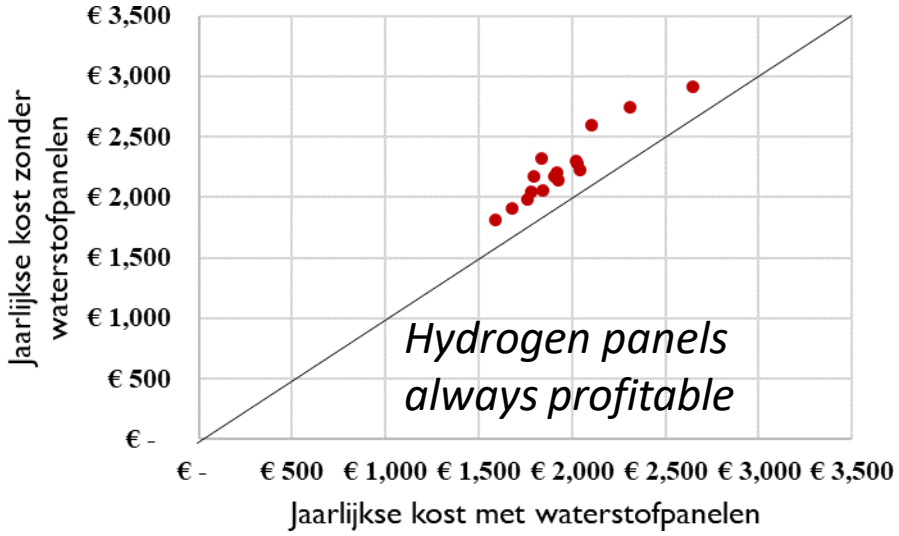
Grid electricity demand (per unit, incl. PV)



Renewable energy production



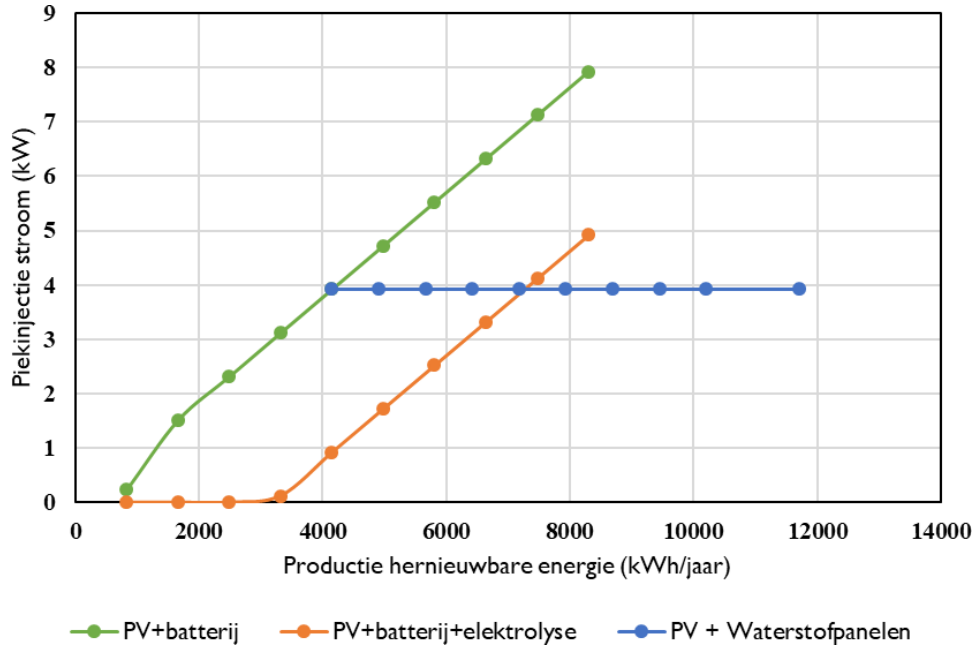




Local renewable energy production is always a smart idea.

It is typically best to <u>always</u> install PV, also when hydrogen is produced.

Renewable energy production



Hydrogen allows for much more local renewable energy production, without additional load on the electricity grid.

Households can be
Consumer Prosumer Producer

General conclusion

All-electric seems more appropriate

- ❑ New neighbourhoods without district heating (➔ no new gas grids)
- ❑ Thorough renovations with LT heating

To be further investigated

- ❑ New buildings in exisiting neighbourhoods
- ❑ District heating & appartments
- ❑ Cogeneration: higher cost for individual vs added value for the energy system

Hydrogen seems more appropriate

- ❑ Renovations where LT heating is difficult
- ❑ Fast switching of many households to renewable energy when renovation is too slow (! insulation still desirable)

Efficiency?

Grid energy demand per season,
In a building with 9 MWh heat demand

	MWh	Heat pump	Heat pump + PV	H_2-boiler	H_2-boiler + PV + H_2-panels	FC + HP + PV + H_2-panels
Summer	Elec	2,1	-0,1	1,7	-0,5	
	Gas	0	0	2,1	-3,0	
Winter	Elec	3,2	1,5	1,6	0,2	
	Gas	0	0	7,9	5,8	
	Total	**5,3**	**1,4**	**13,2**	**2,6**	

The use of hydrogen requires more primary energy input, but reduces stress on domestic renewable electricity production. This assumes the import of renewable, low cost hydrogen.

Final remarks

This study relies on many assumptions. It is a first step, and more investigations are required:

- Grid infrastructure? Capacity of electrical grid? Hydrogen backbone?
- Import green hydrogen?
- Role of gas-fired power plants?
- Domestic renewables production?
- Market prices, tariff structures?
- Boundary conditions of implementation?

Recommendations

- Insulation is always a good measure. Renovation efforts should increase.
- Renewable energy is always a good measure. Hydrogen reinforces this.
- All-electric is often a good choice.
- In many cases, hydrogen is a valid option and potentially the best one.
- More (top-down) research is needed towards the use of hydrogen in buildings.
- Pilot projects are needed to investigate the boundary conditions.
- Policymakers should develop a vision, with horizon 2050 and based on studies.

Development and production of heavy duty FC vehicles by Hyzon Motors Europe

HYZON

Accelerating the energy transition

Hydrogen Mobility

Company presentation March 2021

Stefan van der Spek

Sales Manager Europe **E** stefan.vd.spek@hyzonmotors.com **M** +31 6 27308988 **P** +31 598 760 100

HYZON

WORKING ON ZERO-EMISSION MOBILITY

Holthausen Clean Technology has been involved in hydrogen-electric and battery-electric vehicles for more than five years now.

We began as a developer, converting vehicles powered by fossil fuels to emission-free sustainable future with zero emissions. One example from our portfolio is the world's first hydrogen-powered sweeper.

FROM R&D TO A RESPECTED MANUFACTURER

We have progressed in the meantime beyond the developer stage and have grown to become a fully fledged producer of hydrogen-electric and battery-electric vehicles. We specialize in supplying zero-emission trucks and commercial vehicles that we deliver all over the world from our production facility.
The experience that we have accumulated in developing and building various types of vehicles has given us a great deal of knowledge and professionalism.

These are key ingredients that we now have in-house for developing new types of vehicles that run on the cleanest energy source in the world: hydrogen.

We are ready and waiting to develop the customized power train you need so that your vehicle fleet will also be ready for a zero-emission future.

First look at the first HYZON Motors Demo truck…

This is the HYZON Demo truck soon to be presented.

In this picture we have on the left side Carl Holthausen and on the right side Max Holthausen

HYZON HyMAX-160

The HYZON HyMax-160 chassis is perfectly suitable for applications like box truck, refrigerator trucks or Refuse collecting vehicles and is completely zero emission.

Electric driveline
Electric motor type: HYZON-160-M
Motor power: 160 kW
Voltage system: 450 V
Battery pack: 70 kWh
Onboard-charger: 22 kW
Type of connection for charging: CCS / Type 2

Hydrogen driveline
Type Fuel Cell: HYZON-60-F
Power Fuel Cell: 60 kW
Cylinder pressure: 350 Bar
Standard amount of Hydrogen: 30 kg

Basic specifications chassis
Type chassis: HyMax-160
Minimal wheelbase: 3.900 mm
Type of gearbox: 6 speed automatic Allison gearbox
PTO: Possibility to be connected to the gearbox
Structure options: Box, RCV, Refrigerator, empty chassis

Options for HyMax-160
Remove 1 or add 1 extra cylinder: 5 kg per cylinder at 350 Bar
Extra Fuel Cell power: Can be adjusted by a minimum of 20 kW

HYZON HyMAX-250

The HYZON HyMax-250 puller is perfectly suitable for national and international trailer transport…

Electric driveline
Electric motor type: HYZON-250-M
Motor power: 250 kW
Voltage system: 700 V
Battery pack: 140 kWh
Onboard-charger: 22 kW
Type of connection for charging: CCS / Type 2

Hydrogen driveline
Type Fuel Cell: HYZON-80-F
Power Fuel Cell: 80 kW
Cylinder pressure: 350 Bar
Standard amount of Hydrogen: 30 kg

Basic specifications chassis
Type chassis: HyMax-250
Minimal wheelbase: 3.800 mm
Type of gearbox: 12 speed automatic TraXon gearbox
PTO: Possibility to be connected to the gearbox

Options for HyMax-250
Remove 1 or add 1 extra cylinder: 5 kg per cylinder at 350 Bar
Extra Fuel Cell power: Can be adjusted by a minimum of 20 kW
Stronger motor: 450 kW motor

HYZON HyMAX-450

The HYZON HyMax-450 puller is perfectly suitable for national and international trailer transport

Electric driveline
Electric motor type: HYZON-450-M
Motor power: 450 kW
Voltage system: 700 V
Battery pack: 140 kWh
Onboard-charger: 22 kW
Type of connection for charging: CCS / Type 2

Hydrogen driveline
Type Fuel Cell: HYZON-80-F
Power Fuel Cell: 80 kW
Cylinder pressure: 350 Bar
Standard amount of Hydrogen: 30 kg

Basic specifications chassis
Type chassis: HyMax-450
Minimal wheelbase: 3.800 mm
Type of gearbox: 12 speed automatic TraXon gearbox
PTO: Possibility to be connected to the gearbox

Options for HyMax-450
Remove 1 or add 1 extra cylinder: 5 kg per cylinder at 350 Bar
Extra Fuel Cell power: Can be adjusted by a minimum of 20 kW

HYZON

For more information please visit our website:

www.hyzonmotors.com

End of the presentation…

Thank you for your attention !

Developments in the WIC

TOPICS

- New WN team member: Samira Farahani
- (New)member info
- Working groups
- Networking & meetings
- News from the governements FL-B-NL
- Follow-up strategic plan for Flanders
- Overview FL/BE/EU funding

NEW MEMBERS SINCE PREVIOUS MEETING NOV. 2020

WATERSTOF INDUSTRIE CLUSTER

sirris
driving industry by technology

Everfuel

HIMA SMART SAFETY.

G&V ENERGY GROUP

John Cockerill

PLUG POWER

COVESS THERMOPLASTIC TANK TECHNOLOGIES

BUREAU VERITAS 1828
BUREAU VERITAS

POM Oost-Vlaanderen

HITACHI

ABB

WORKING GROUPS

Policy

Evaluation & statements
Related to EU or national legislation

Mobility

NEW

Monitoring and facilitating H2 refuelling stations in Benelux.
Increase utilisation.

Shipping

Development of H_2 pilots
(coll. With De Blauwe Cluster)

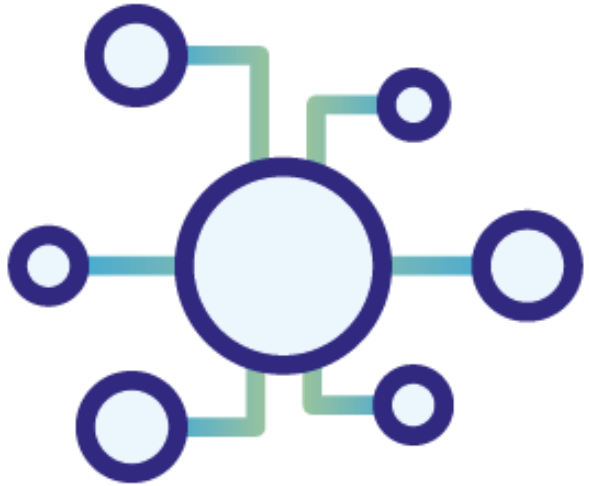
H_2 for the general public

NEW

Disclosing the world of H_2
to the broader public

MEMBER INFO & NETWORKING

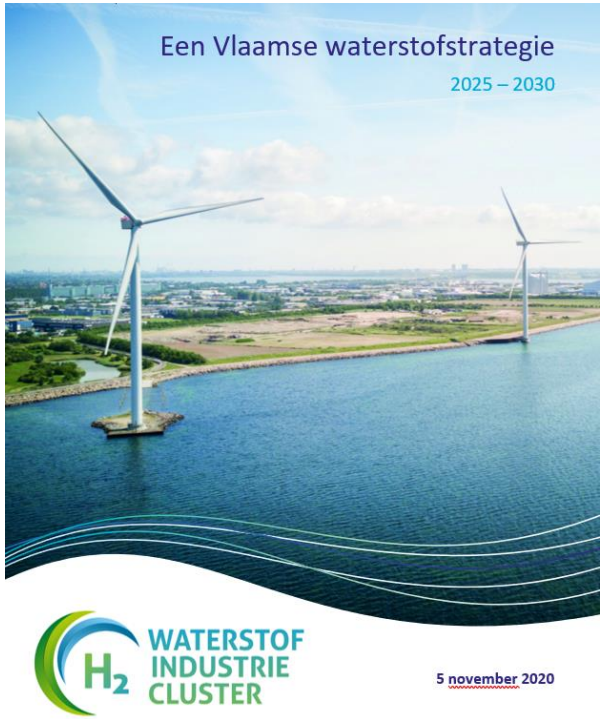
- Product & Competence form per partner
  - Soon available on cluster portal on WaterstofNet website
- WIC Webinar, next edition on 25/3, 16.00-17.30
  - Topics: EU organisations H_2, CertifHy
  - Topic from cluster member tbc
- Cluster meetings, next on June 2
- Meet & Greet, April 22 (tbc)



H2 NEWS FROM OUR GOVERNMENTS (FL/BE)

- FL/B recovery budgets
  - FL 125M€ mainly for H_2 IPCEI
  - BE 95 M€ for hydrogen backbone
- Hearing on H2 in federal parliament (02/03/2021):
  - PoA, WN, Fluxys, Essencia, Febeg, Ad Van Wijk, Energyville
  - http://www.dekamer.be/media/index.html?language=nl&sid=55U1457
- Online info session on 'Horizon Europe "working programs"
  - **March 16,** organised by EWI en NCP Flanders
  - Subscription via www.ewi-vlaanderen.be/evenementen/horizon-europa-de-werkprogrammas

FOLLOW-UP STRATEGIC PLAN H_2 FOR FLANDERS - WIC



Cabinet visits March-April 2021

Flanders

Zuhal Demir (N-VA), Environment & Energy (23/3)
Hilde Crevits (CD&V), Economy & Innovation & Employment
Lydia Peeters (Open VLD) Mobility & Public works
Matthias Diependaele (N-VA), Finances & Budget (15/3)
Jan Jambon (N-VA), Minister-president

Federal

Pierre-Yves Dermagne (PS), Economy & Employment
Zakia Khattabi (Ecolo), Climate, Environment, Sustainable development & Green Deal (10/3)
Tinne Van der Straeten (Groen), Energy
Thomas Dermine (PS), Recovery & Strategic Investments, Science policy

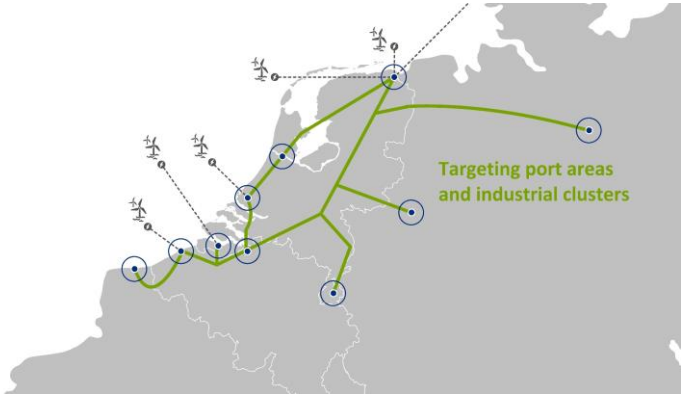
H2 NEWS FROM OUR GOVERNMENTS (NL)

- "Nationaal Waterstof Programma": to achieve the climate agreement (klimaatakkoord) goals for hydrogen in the Netherlands (Nationaal Waterstof Programma · Nationaal Waterstof Programma)
  - The cross-sectoral hydrogen working group (CSWW), started in January 2021, is a temporary working group that will draw up the work plan for the National Hydrogen Programme (NWP) for the period 2022-2025, with a look at 2030.
  - Approach and timing:
    1. Q1 2021: Inventory and gap analysis - Inventory for completed, ongoing and new initiatives and activities; Identifying gaps in gap analysis.
    2. Q2 2021: formulating a work plan for the NWP for the period 2022-2025 with a view to 2030

- RVO
  - Horizon Europe starting events: 4-30 March 2021
  - Horizon Europe Kick-off event: **Date: 4 March 2021**; **Duration**: 10:30-12:00, **Location**: online **Language**: Dutch (more info: Horizon Europe startevenementen | Topsector Energie)
  - **Registration for events via**: Walldo (andgage.io)

H2 NEWS FROM OUR GOVERNMENTS (FL/NL)

- IPCEI
  - Flanders: 11 proposals approved
  - The Netherlands: 65 proposals eligible
  - Germany: Planning: prenotification Q1-Q2 2021



OVERVIEW EU/NL/B/FL FUNDING

Funding programme	Region	Submission deadline	Description	Website
MOOI	NL	**20/4/2020**	Research and development of the creation of flexibility in wind farms and the possibilities for offshore system integration in the form of energy consumption and energy conversion close to the source. Conversion to hydrogen plays an important role here.	https://www.topsectorenergie.nl/tki-nieuw-gas/subsidies/MOOI-regeling
DKTI transport	NL	**6/4/2021**	Demonstration of climate technologies and innovations in transport or machinery, including through the use of hydrogen. Passenger cars are not eligible under the call.	https://www.topsectorenergie.nl/tki-nieuw-gas/subsidies/dkti-transport-regeling
TSE	NL	**7/9/2021**	Would you like to investigate the feasibility of an innovative pilot or demonstration project that can cost-effectively reduce CO2 emissions by 2030? Then you can make use of the Top Sector Energy Studies Industry scheme.	https://www.topsectorenergie.nl/tki-nieuw-gas/subsidies/topsector-energiestudies-industrie
MIT (different programmes)	NL	**2/7/2021 10/9/2021**	If you, as an SME entrepreneur, want to work with others on innovation projects, the MIT scheme (SME innovation stimulation Region and Top Sectors) is suitable for this.	Mkb-innovatiestimulering Regio en Topsectoren (MIT) | RVO.nl | Rijksdienst
CrossRoads2 Sustainable Energy	NL/VL	**1-30/4/2021**	CrossRoads2 Sustainable Energy is a project within the European program Interreg Flanders-Netherlands and aims to stimulate cross-border partnerships between SMEs in Flanders and the South of the Netherlands (Zeeland, North Brabant and Limburg).	Sustainable Energy | CrossRoads2
ConnectSME	NL/VL	**1/9/2020-31/12/2022**	This project is focused on the development and testing of technology in a real-life environment at six testing live-labs in the border region of the Netherlands / Flanders. The insights that arise here can lead to further refinements of the product and increased opportunities for commercialization.	ConnectSME - Grensregio
Horizon Europe	EU	**Call announcement expected in April 2021**	The first work programmes are expected to be published by April 2021. It is possible that the work programmes for the European Research Council (ERC) and European Innovation Council (EIC) will be published earlier. The first calls will open once the work programmes have been published.	Horizon Europe | European Commission (europa.eu)
LIFE	EU	**Call announcement expected in Spring 2021**	Financing climate, nature, and environmental projects	Calls for proposals | EASME (europa.eu)

SAVE THE DATES

- WIC Webinar
  - March 25, 16.00-17.30
- Cluster meetings **2021**
  - Wednesday 10.00-12.00 (virtual); 9.30-14.00 (real life)
  - June 2, Sept 8, Dec 8 ,
  - Locations to be defined (COVID!) ; hosts are welcome!

    (preferrably where H_2 related activities can be visited)
- Matchmaking Event organized by CrossRoads2 Sustainable Energy en ConnectSME
  - Thursday 18 March, 14:10 – 16:00
  - What: short presentation of both projects followed by online matchmaking via **network.flux50.com**
  - For whom? companies with innovative project ideas who would like to collaborate with other SMEs and who also want to expand their network at the same time

News from Cluster Members

Questions & Comments?