

**TOP
DUTCH**


Naturally leading
the transition

WHY START-UP

in the TopDutch region



TopDutch is the economic region of the provinces of Groningen, Friesland and Drenthe. We're located at the top of the Netherlands, and the forefront of the transition. Together, our companies, knowledge institutions and government are building smart and sustainable solutions for global challenges, and developing the talent that's key to unlocking the economy of the future.

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WELCOME TO THE TOPDUTCH REGION!



TOPDUTCH

The Netherlands

Germany

Belgium

TopDutch: Naturally leading the transition

1.7 million inhabitants. 75,000 students. 6 key industries. 3 provinces.

In TopDutch we're a diverse but tight-knit bunch. We're TopDutch because we're located, literally, at the top of the Netherlands (we're the economic region for the three Northernmost Dutch provinces of Groningen, Friesland and Drenthe). But on top of that, we're TopDutch because we're home to a number of top Dutch ambitions, solutions and businesses ecosystems.



We host many SMEs and intelligent start-ups, alongside large international companies such as Google, IBM and Shell. Regional partnerships, integrated talent development and the expanding number of strategic international alliances are key to our region's leadership position in a number of key, system-level transitions.

1.

MEET
TOPDUTCH

From large, established multinationals all the way to the hottest new start-ups, the TopDutch region draws in global businesses as a result of our purpose-driven, people-powered ecosystems, our competitive financial and fiscal environment, and our green, digital and talented business culture.

MEET TOPDUTCH

The top 10 things you should know about us:

1.

Most competitive economy in Europe

2.

Interconnected ecosystems rich in knowledge

3.

Regional economy of green & digital innovation

4.

Competitive tax system & fiscal incentives

5.

World's most connected country

6.

World-renowned research & education

7.

**International &
multilingual
society**

8.

**Fifth strongest
talent pool
globally**

9.

**Innovative
business
culture**

10.

**Best work/life
balance &
happiest kids in
the world**

OUR ECONOMY

We have the most competitive economy in Europe - and fourth most competitive worldwide - according to the World Economic Forum's 'Global Competitiveness Report'.

GDP & Prosperity

We're a small country but a big economic player. We have the 5th largest economy in the EU - in terms of gross domestic product (GDP) and the 2nd richest population in the EU - in terms of real disposable income: Despite being only 23rd in size.

Regional Economy in Transition

Our global economy is undergoing a large-scale transition. Old industries need deep restructuring and new industries are constantly arising.

In the TopDutch region, we're leading that transition, naturally.

Together, we're building smart and sustainable solutions to global challenges, and developing the applications and talent we believe are key to unlocking the economy of the future.

Here, top-rated knowledge institutions and government agencies naturally come together and are focused on co-creating system-level transitions across our region's key industries, including green energy, green chemistry, digital innovation, WaterTech, life sciences & health and AgriFood.



Fiscal Incentives

The Netherlands ranked 14th globally on the 2022 International Tax Competitiveness Index. TopDutch businesses benefit from competitive corporate income tax rates, a wide tax treaty network and a number of attractive incentive programs, including special provisions for highly skilled expatriate workers.

At 25.8% (and 19% on the first €200,000), the Netherlands has one of Europe's most competitive corporate income tax rates. Certainty in assessments relating to future tax positions also helps multinational companies to thrive here.

The Netherlands assists companies who need to bring employees in from other countries through a number of tax provisions. These include a sizeable limited-time tax break (the 30% ruling) and tax-free ability to reimburse international school fees, relocation expenses and moving allowances.

Infrastructure

The Netherlands is the world's most connected country. For the tenth time, the Netherlands came first on DHL's 2022 Global Connectedness Index. Our excellent physical infrastructure, strategic location and super-fast internet helps us stay globalized.

OUR PEOPLE

**From kindergarten to retirement,
TopDutch talents are constantly
developing.**

Education

Already in elementary school, our children foster an exploratory spirit and independent thinking with our 'learn through play' mentality. At the same time, they're learning multiple languages as a child, which is why 90% of our adults are fluent in English, and many in other major languages such as German, French or Spanish.

Once they've grown to adolescence, the 130,000+ annual TopDutch students gain access to one of the leading higher education systems in Europe. Here, they can choose between our world-renowned research universities, universities of applied sciences, and vocational education, depending on what type of skills they desire and the sort of career they'd like to develop. The curated mix of educational levels complement each other, with different expertise working together to optimize output.

Business Culture

Our world-renowned knowledge institutions produce internationalized and specialized fresh talent every year, who join the workforce to add to our talent pool ranked no.3 in the world, according to the IMD's World Talent Appeal Index 2022.

Their hard work made us the 5th most innovative country worldwide, ranking in the top 3 in terms of our business environment, financing for start-ups and online creativity.

our business environment, financing for start-ups and online creativity .

With 50% of the country's GDP being derived internationally, the presence of internationals is generally viewed as positive. This is particularly true of the TopDutch city of Groningen, where 94% of people agree we're a good place for immigrants to live, putting it in the top 5 in European cities.

Quality of life

Here in the TopDutch region, our landscape is a great mix of dynamic cities and tranquil countryside. Our residents can enjoy all the benefits of city life, whilst still being surrounded by vibrant natural environments. We're also less crowded than the western part of the Netherlands: Which means less traffic, cleaner air, lower costs of living and less pressure. We're a seriously good place to live - proven by the fact that our city of Groningen is ranked as the 5th happiest place on earth by the World Happiness Report!

The TopDutch region has always had a healthy attitude to work/life balance. We know that quality downtime is an important contributor to better productivity. We're very successful in combining work, family commitments and personal life. In the Netherlands, moms or dads often work part-time, facilitating both parents to take on a dual role, and contributing to the overall wellbeing of all household members. No wonder our citizens have some of the best work/life balances in the OECD and our kids are the happiest worldwide, according to UNICEF.



2.

**MEET OUR
START-UP
SCENE**

The tight-knit business community and collaborative culture of the Northern Netherlands makes fertile ground for innovative start-ups across a wide range of industries. Well-established firms are always willing to give the youngsters a hand, and the communities of start-up ecosystems, accelerators and shared facilities makes the sharing of knowledge and skills all that easier.

MEET OUR START-UP SCENE

What makes TopDutch a good place to be great:

1.

One of the most attractive start-up locations

2.

Second healthiest economy in EU for start-ups

3.

Third heaviest start-up density & VC investment in EU

4.

Fastest growing start-up ecosystem in the Netherlands

5.

**Tight-knit
community of
start-ups and
scale-ups**

6.

**Dedicated
innovation
institutions for
knowledge
sharing**

7.

**Catalyst for
some of the
world's most
exciting tech
scale-ups**

8.

**Unique in the
world start-up
visa program**

DUTCH START-UP ECOSYSTEM

A nation of start-ups

The Netherlands' ambitious business environment for start-ups, access to quality talent and supportive state led Startup Blink to name us the fourth strongest start-up ecosystem in the European Union on their 2022 rankings. The nation's ecosystem is supercharged by the €75 million 'Ambitious Entrepreneurship Action Plan', which provides start-ups with better access to capital, knowledge, innovation and the global market.

It's no surprise, therefore, that our top-notch business environment has indeed made fertile ground for a diverse array of high-potential start-ups. In 2021 we had the third heaviest start-up density in the European Union. Being a start-up in the Netherlands means being a part of a network of like-minded, ambitious entrepreneurs.

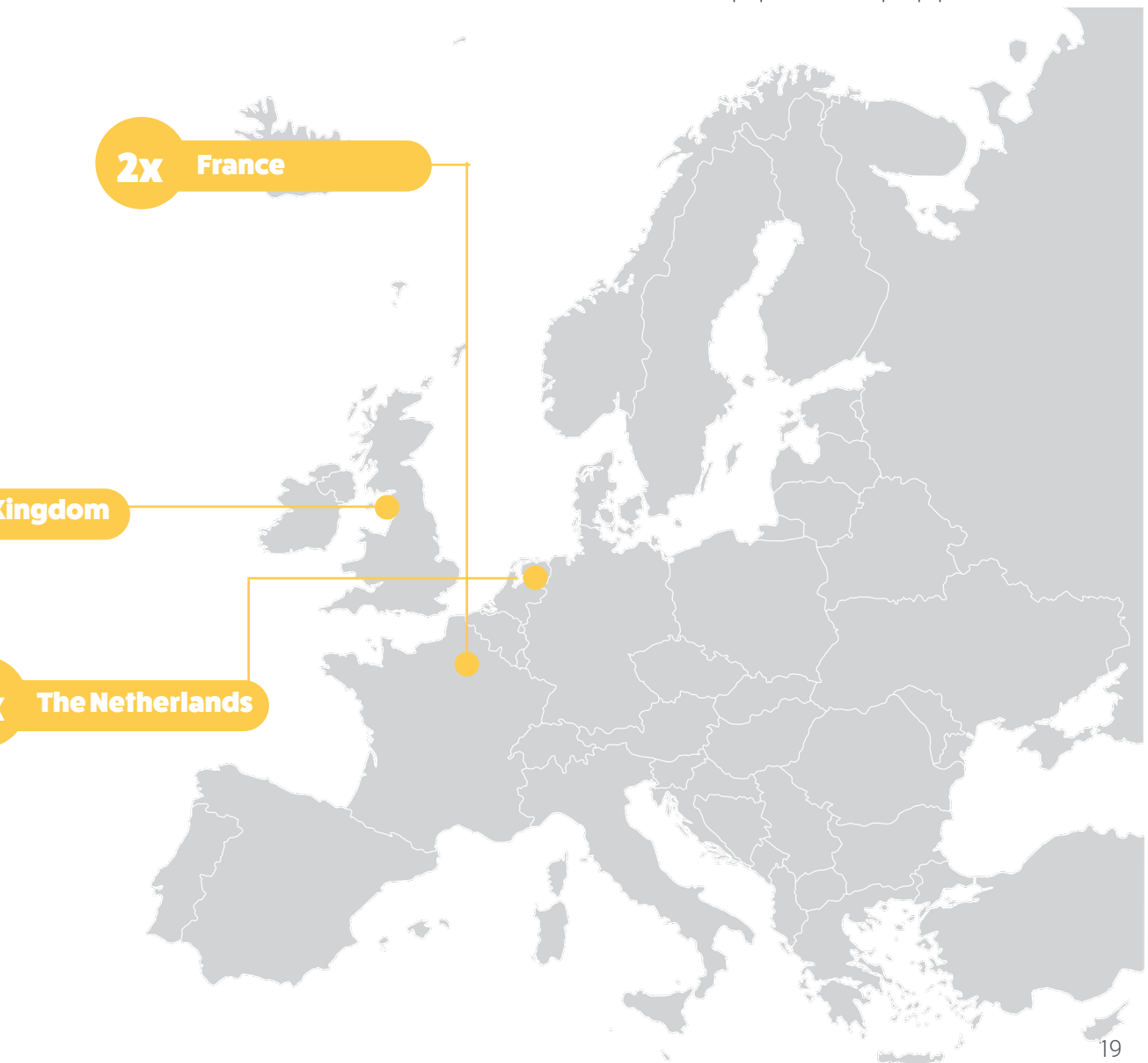
As a small country, we punch well above our weight in terms of VC funding capture. Between 2017 and 2021, we raised the third largest share of VC funds in the European region weighted for GDP and population, after the UK and France. In particular, we were the most capitalized relative to our population, seeing nearly four times the proportion of total funding compared to our proportion of Europe's population. No wonder WIPO ranked us the third strongest market globally in terms of finance for startups and scaleups on their Global Innovation Index 2022.

2

3x United Kingdom

4x The Net

VC investment as a proportion of Europe's population 2018 - 2021.

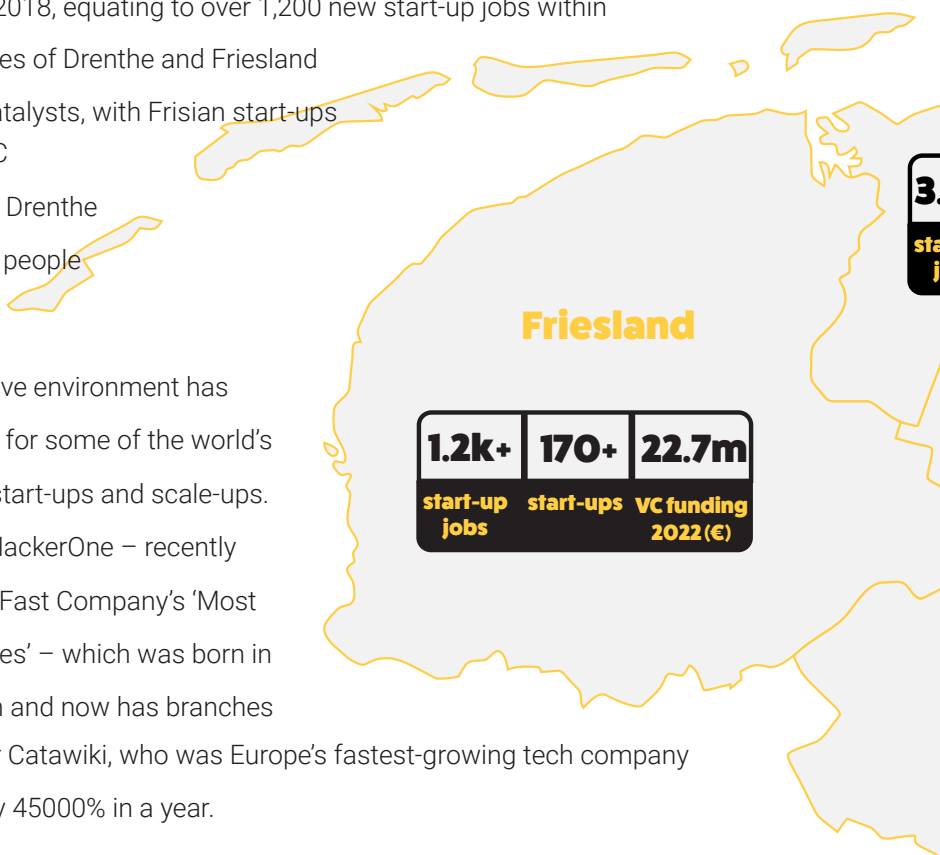


OUR START-UP ECOSYSTEM

A jewel in the Netherlands' crown

Within the Netherlands, the TopDutch region is a hotspot for impactful new start-ups. Our province of Groningen has the fastest growing start-up ecosystem in the country, growing by an average of over 12% per annum for each year since 2018, equating to over 1,200 new start-up jobs within 4 years. Our provinces of Drenthe and Friesland are also powerful catalysts, with Frisian start-ups raising €22.7M in VC funding in 2022 and Drenthe employing over 600 people across 40 start-ups.

TopDutch's supportive environment has laid the foundations for some of the world's most exciting tech start-ups and scale-ups. Take, for example, HackerOne – recently ranked number 5 in Fast Company's 'Most Innovative Companies' – which was born in the TopDutch region and now has branches across the world. Or Catawiki, who was Europe's fastest-growing tech company when it scaled-up by 45000% in a year.



This growth is supported by our tight-knit communities of start-ups, scale-ups and established firms, who can connect, collaborate, and knowledge-share via our dedicated innovation institutions; Founded in Groningen, Founded in Friesland and Ik Ben Drents Ondernemer. They are dedicated to supporting more high-quality start-ups from pre-seed to scale-up via four pillars of development:

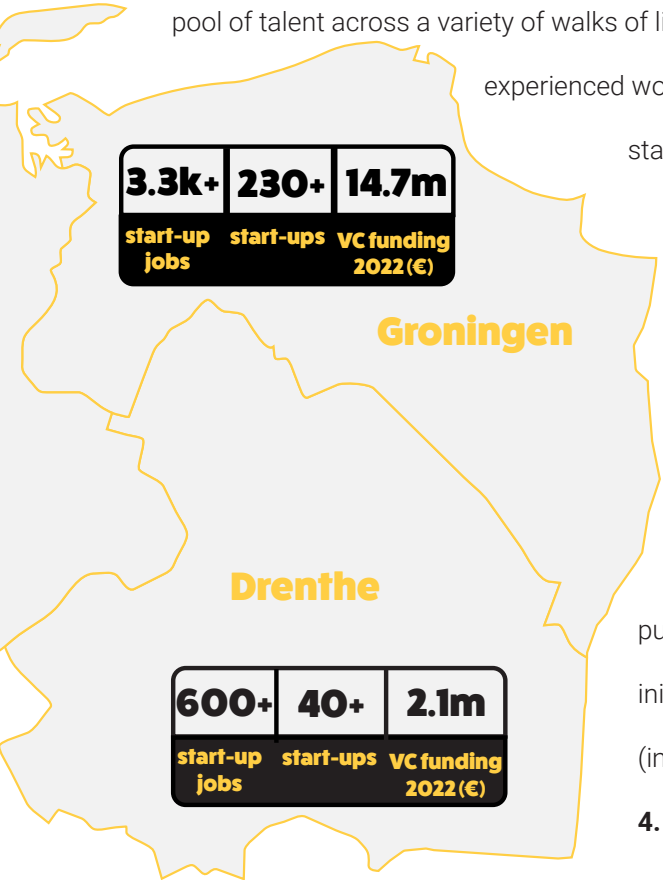
1. Access to talent – stimulating the development of a diverse and entrepreneurial pool of talent across a variety of walks of life (e.g. students, researchers, experienced workers, medics etc.) and supporting their start-up ambitions.

2. Access to technology – closing the gap between (new) technologies and new business solutions.

3. Access to market – facilitating access to the market for start-ups by organizing regional public and private launching customer initiatives, networking opportunities and (international) missions.

4. Access to capital – creating an optimal

investment climate in the TopDutch region so that start-ups and scale-ups throughout every life stage have easier access to the best financing, subsidies, schemes, financiers and investor-readiness training.



3.

**EXPLORE OUR
PROGRAMS &
SERVICES**

The TopDutch region is committed to developing a start-up ecosystem that will help us continue to lead the global transition and create smart and sustainable solutions to global challenges. We are doing that by cross-chain programmatic development. From pre-seed to scale-up, our services and programs support entrepreneurial talent to take the first step, inviting promising internationals to join us, and facilitating their development via incubators and training.

OUR PROCESS

How we support international start-ups to thrive:

1.

Get in touch

Through our TopDutch contact page, by email or direct to your dedicated project manager, get in touch to start the conversation.

2.

Alignment meeting

We'll schedule a meeting with you and our regional dedicated project team to identify your needs and align objectives.

3.

Network roundtable

Based on your start-up needs, we'll set up a roundtable with your future network. This could include a facilitator, investors or industry buddies, for example.

4.

Personalized start-up plan

Your dedicated project manager will draw up a personalized start-up package, with a checklist of arrangements and practicalities needed to successfully start-up in TopDutch, and a plan of how they'll support you.

5. **Settle into TopDutch**

The IWCN helps with the boring stuff (bureaucratic or practical matters) and the fun stuff (like meeting new friends!) Meaning you can jump right in to supercharging your start-up.

6. **Business development**

The TopDutch region offers a number of business development programs for (foreign) talent to set up business in the region. Mix and match our programs to tailor a personalized track that matches your needs.

7. **Facilitating financing**

Has your business reached the next level, and you need an injection of capital to achieve your potential? The NOM, alongside its own investment fund, provides access to their network of financiers, and will connect you with an investor who works for you.

8. **Always a helping hand**

Even after you've established yourself in the TopDutch region, we'll stay on hand to offer advice as you grow – whether that's finding a bigger site, hiring new talent, or navigating the TopDutch business environment.

OUR RELOCATION SERVICES

Make yourself at home in the TopDutch region

In the TopDutch region we believe that innovation should know no borders. That's why we facilitate talented entrepreneurs from across the globe to start-up in the TopDutch region. N.V. NOM sets up founders with innovative ideas with help to gain a visa to live and work in the Netherlands, connect with local industry leaders to mentor their business development, and help them settle into the region both professionally and personally.

1. Setting up business in a foreign country can bring about great benefits. But it also means taking on a host of new challenges. **Through N.V. NOM**, we're ready to help you with every stage of the process in (re)locating your business to the TopDutch region.
 - Our professionals in finance, location/acquisition, business development and networking are here to give businesses from around the world a helping hand.
 - We know the TopDutch region inside out, and TopDutch industries know us. We know the best business locations, which permits you need to have, who the best energy suppliers are, how to find your dream talent, which subsidiaries or grants you may be eligible for, and how to access them.
 - We can help you with capital or know who to connect you with.
How we can help your business?

2. And we believe that innovation should know no borders. The **Start-Up Visa NL program** is a unique accelerator program that allows the brightest entrepreneurial talent from non-EU/EEA countries to start-up in the TopDutch region.
 - The TopDutch region provides opportunities for some of the most promising entrepreneurial talent from across the globe to find their home in the region.
 - Non-EU/EEA entrepreneurs can arrive in the Netherlands on a one year startup visa, the duration of which is spent establishing their business and their skills.
 - Not sure where to start? The Startup Visa NL crew matches startups with our facilitators free of charge, so that both parties can focus on what's really important: building a successful company.
 - At the end of the startup visa year, entrepreneurs can apply for a long-term self-employment visa, and we'll provide support in accessing any further financing, partners, or business development programs needed to succeed in the TopDutch region.

OUR PROGRAMS & FINANCING OPTIONS

Take the next step with our business development programs

The TopDutch region is leading in developing green and digital solutions for global economic, social and ecological challenges. Doing that requires not just established companies, but also the innovating thinking of start-ups. That's why we have a number of opportunities for (foreign) talent to set up business in the region. Mix and match our programs to tailor a personalized track that matches your needs.

Friesland

1.2k+

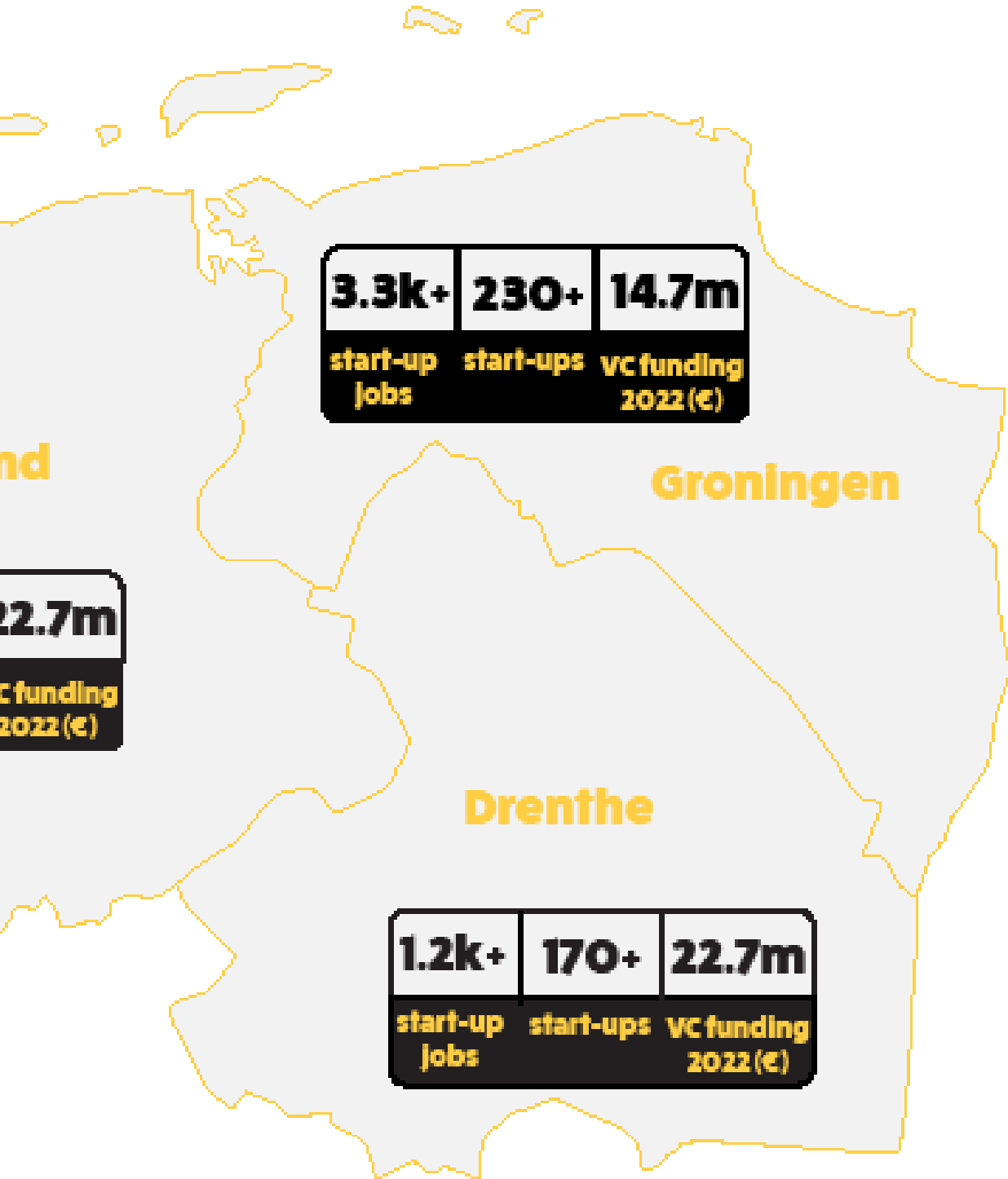
**start-up
jobs**

170+

start-ups

22.7m

**VC funding
2022 (€)**



STAGE 0

Discovery and development (TRL 1-6)

Do you have an innovative business idea that you think aligns with TopDutch's ambitions to build smart and sustainable solutions to global challenges? We offer a supportive base for you to develop your product or service from fundamental research, developing a proof of concept (PoC) to developing, validating and piloting a prototype.

Financing options

- **Grants:** Depending on your product, there are a number of different grant schemes that can help you with fundamental research (TRL 1), applied research (TRL 2) and proof of concept (TRL 3). For example, the MIT feasibility scheme provides SMEs in the TopDutch region with a idea that aligns with one of our missions with up to €20,000 to perform a feasibility study. Or researchers collaborating with other local partners on a knowledge development project or valorization project that will help us lead the transition to a smarter, healthier and more sustainable future can apply for a grant from the Just Transition Fund of up to €4,000,000.
- **Proof of Concept fund:** Entrepreneurs developing their PoC to a test prototype (TRL 4), validating (TRL 5) and demonstrating (TRL 6 and 7) their prototype can access the Proof of Concept fund launched by the University of Groningen, the University Medical Center Groningen (Triade), the Investment and Development Agency for the Northern Netherlands (NOM) and the Groningen Investment Fund (GIF). This offers pre-seed investment for high

tech start-ups working in one of our key industries (Life Sciences & Health, Digital Innovation, High Tech Systems and Materials, Green Chemistry, WaterTech, Green Energy), or on a solution for sustainability and circularity challenges.

- **RVO early stage funding:** SMEs, innovative start-ups and spin-offs discovering and developing an innovative solution to a societal challenge, and have a statement of intent from a future investor, can apply for a proof of concept loan from the Netherlands Enterprise Agency (RVO). For the technological development of a new product, process or service, or the clinical development of a new drug or medical device, entrepreneurs between TRL 3 and 9 can also apply for up to €10 million Innovation Credit from the RVO.
- **Institutional investors:** Institutional investors with an active investing mode include (but are not limited to) RUG-Ventures, Hanzepoort (Triade/UMCG) and NOM (the Investment and Development Agency of the Northern Netherlands). Together with a diverse scope of semi-public investors they are accountable for a large slice of the investment cake in the TopDutch region.

Programs

- **University of Groningen (RUG):** The University of Groningen's Faculty of Science and Engineering and Faculty of Economics and Business offers various business development support programs, both to support existing students or researchers to spin-off from the university, and by offering collaboration opportunities for fundamental research.
- **Venture Lab North:** The Business Development Program from VentureLab North offers aspiring entrepreneurs with an innovative idea and a vision for a successful business a one-year business

development program. Through three core components – 1) weekly workshops with a community of industry experts, ecosystem leaders and researchers, 2) one-to-one mentoring sessions and 3) quarterly pitch presentations to a panel of TopDutch entrepreneurs and thought leaders – the program supports its participants to develop a valid prototype. VentureLab North also offers ‘hackathon’-style weekends to help aspiring entrepreneurs sound and test their ideas, develop business models and pitch to an experienced jury, and monthly expert lectures and networking events.

- **Start-up Readiness Program:** Are you ambitious and do you have a startup idea? Do you want to bring a new, innovative product to the market as a (potential) entrepreneur? But are you not sure which market to focus on or who your customers are? A good start is half the battle! The Startup Readiness Program is a ten-week program consisting of four different modules that you can participate in as a startup and that will take you towards the next step to a successful startup. The program consists of group sessions, peer-to-peer, and individual coaching.
- **Start-up in Residence:** Start-Up in Residence Noord-Nederland is an accelerator program which offers start-ups the opportunity to collaborate with local government, universities and other public institutions from the TopDutch region on solutions for 12 different challenges facing our communities. During the six-month program, entrepreneurs receive support and guidance from professional coaches to further develop their idea and prototype into a viable product. Once the solution is market-ready, the public sector challenge owners will also act as a launching customer for the most promising products.

STAGE 1

Demonstration and deployment (TRL 7-9)

Are you an innovative start-up in looking to fine-tune your market development? The TopDutch region supports founders to discover their customer, test and demonstrate their concept until its ready for take-off.

Financing options

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- **Angel network:** SMEs counts for over 90% of business in the TopDutch region. Former entrepreneurs regularly re-invest in the region and bring their own expertise. Our region's cooperative culture created well-organized business angel networks which spread out nationally and even globally, and our open attitude means we invite and support innovative international entrepreneurs to access them.
- **Venture Capital:** We offer access to our deep contacts with a variety of Venture Capital investors by fund-in-fund relations. In TopDutch, you'll discover a broad network of expertise, (inter) national contacts, (former) entrepreneurs, specialists and key opinion leaders. Our focus is on, but not excluded to, Life Sciences and Health, Digital, High Tech Systems and Materials, Green Chemistry, WaterTech, the energy transition, sustainability and

circularity.

Programs

- **Market Readiness Program:** Innovative start-ups looking to fine-tune their market development – for example by testing their working prototype on potential clients, connecting with their first paying customer, or by expanding their existing positioning to acquire new clients – can accelerate with the MRP. During a ten week program, together with fellow TopDutch entrepreneurs, you'll test all your assumptions about your customer. In a mix of one-to-one and group sessions, you work on the questions "what problems do customers in my market have?" and "how can I offer a solution?". Throughout the course you'll learn to engage in effective conversations with your customers, so you can think from their perspective and validate solutions in cooperation with your target group. The first half of the program will look at your market, customer types, customer problems and devise a potential solution. After you've developed, tested and validated your solution, you'll get stuck into developing your product or business model with a deeper understanding the customer.
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challenge owners will also act as a launching customer for the most promising products.

- **Investor Readiness Program:** Are you an innovative start-up with growth ambitions, and need to develop a quality investment proposal in order to secure capital for further development, professionalization or scaling-up? Do you offer an innovative product or service with a working prototype and a technically, commercially and financially feasible concept?

In a customized, one-on-one program, the IRP will help you will develop a promising proposal which will help convince investors to inject capital into your company's growth. Our business developers will coach you on all aspects of your business case: From the product, to market validation, business plan, and financing strategy. Throughout the program, you will also have extra meetings where you can get feedback on your proposal from other participants, our partners and potential investors. Once the program is completed, and you've developed a concrete investment proposal, we'll help you connect with the investor that's right for you.

- **Bestart:** The BeStart accelerator programme for ClimateTech start-ups lasts one year and goes through three stages: Build, Launch and Scale. In the 'build phase' bootcamp helps participants to validate their business idea and develop it into a business model and strategy. The 'launch phase' sees you meet weekly with your business coach to develop a growth map for your business. In the 'scale phase', Bestart offers guidance on how to make the right choices in a focused way in order to keep moving forward.

STAGE 2

Customer validation

Are you a start-up whose innovative product or service has an early evangelical customer base? The TopDutch region offers financing options and business development programs that supports you to set up a scalable sales process and a solid business plan to allow you to meet your growth ambitions.

Financing options

- **Institutional investors:** Institutional investors with an active investing mode include (but are not limited to) RUG-Ventures, Hanzepoort (Triade/UMCG) and NOM (the Investment and Development Agency of the Northern Netherlands). Together with a diverse scope of semi-public investors they are accountable for a large slice of the investment cake in the TopDutch region.
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and Health, Digital, High Tech Systems and Materials, Green Chemistry, WaterTech, the energy transition, sustainability and circularity.

Programs

- **Boost-up:** Ambitious start-ups with growth potential are supported securing their next round of investment with the Boost-up program. After an initial pitch and sparring sessions, you are matched with a business partner that provides constructive criticism, works with you to finetune your business plan with strategic choices in operations, marketing and sales, and introduces you to the knowledge, capital and network you need to grow at your final partners pitch.
- **Investor Readiness Program:** Are you an innovative start-up with growth ambitions, and need to develop a quality investment proposal in order to secure capital for further development, professionalization or scaling-up? Do you offer an innovative product or service with a working prototype and a technically, commercially and financially feasible concept?
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STAGE 3 & 4

Scale-up

Are you an established start-up looking to scale-up or expand in the TopDutch region? If you're ready to take the next step in your business journey, TopDutch will help you take advantage of the opportunities the region's supportive start-up ecosystem and strong economy have to offer you.

Financing options

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- **Strategic investors and Private Equity:** Our extensive (inter) national network of SME's and multinationals ensures TopDutch scale-ups eyes and ears around the world. This is only strengthened through our direct connection with the Netherlands

Foreign Investment Agency. On a daily basis, we are in search of valuable contacts worldwide to find suitable strategic partners for businesses in the Northern Netherlands.

Personalized business development and location services

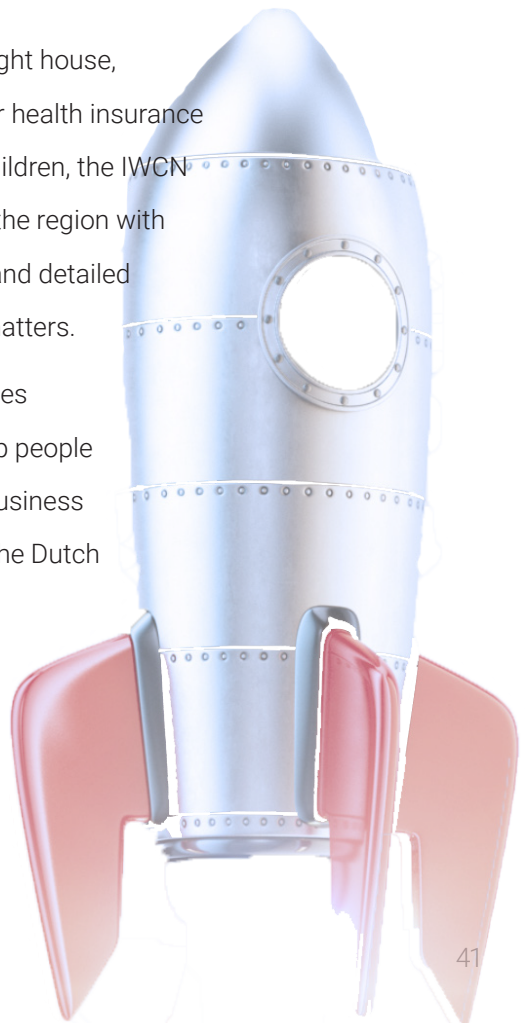
Besides the nine start-up programs, we provide more established start-up and scale-ups with a personalized business development assessment, access to our network of investors and financing options, and location services – of course in terms of finding the perfect spot for you – but also sharing our knowledge on factors like regulation, taxation, subsidies and finding talent.

SETTLE INTO THE TOPDUTCH REGION

With the International Welcome Center North

The International Welcome Center North (IWCN) is a one-stop shop for international people living or coming to live in the provinces of Groningen, Friesland and Drenthe and offers service and information in three areas:

- 1. Official matters:** The IWCN efficiently arranges government formalities for international arrivals, such as residence permits (for non EU/EEA Citizens) and municipal registration (required for all residents)
- 2. Practical matters:** From finding the right house, opening bank accounts, signing up for health insurance to selecting the right school for the children, the IWCN is happy to provide everyone living in the region with referrals to reliable service providers and detailed information on all kinds of practical matters.
- 3. Social and leisure:** The IWCN organizes multiple events and activities that help people with building a strong social and/or business network and becoming familiar with the Dutch language and culture.



3.

**DISCOVER OUR
KEY
INDUSTRIES**

The TopDutch region is a collection of interconnected, purpose-driven and people-powered ecosystems that are committed to finding green and digital solutions for global economic, social and ecological challenges.

We're focused on 6 key industries: Green Chemistry, WaterTech, Agrifood, Digital Innovation, Life Sciences and Health and Energy. Read about our key industries in detail, and find out more about the innovative projects we're working on.

AGRIFOOD

our offer:

1.

**Dairy Capital
of Europe**

2.

**Healthy Ageing
Capital of
Europe**

3.

**Feeding a
healthy and
sustainable
economy**

4.

**World-class
knowledge
& innovation
communities**

5.

**Gateway
to EU market
& access to
talent**

How our AgriFood industry is growing a healthy future

1. Dairy Capital of Europe

We're building the most innovative, sustainable, remunerative and animal-friendly dairy chain in the world.

- Dairy Campus, part of AgriFood university Wageningen (WUR), spurs innovation with education and R&D.
- The Dutch physical environment has led to the optimal density of healthy cows.
- Our healthy cows produce exceptional nutrient-rich milk and have a high lifetime yield of optimized pregnancies and lactations.

2. Healthy Ageing Capital of Europe

We're performing groundbreaking research to increase human lifespan with healthy years through a healthy diet and lifestyle.

- Lifelines research cohort and biobank provides insight into the effects of lifestyle on health.
- Our R&D and innovation communities extract dietary building blocks for advanced nutrition.
- Our dedication to sustainable farming; protecting biodiversity; land, seed and crop quality and circularity keeps our environment, and us, healthy.

3. Feeding a healthy and sustainable economy

We're dedicated to feed-linking industries with sustainable building blocks for a healthy economy, and providing nutrients for the protein transition.

- AgriFood crosses over with: **Green Chemistry** by growing crops used as bio-based building blocks; **Energy** by using agricultural waste as feedstock for green fuels; **Digital Innovation** by developing smart tech to optimize performance; **WaterTech** by working together to develop agricultural water solutions; **Life Sciences & Health** by researching protein structures and healthy nutrition.
- As demand for plant-based protein is increasing, we're leading the **protein transition** by extracting valuable proteins from crops.

4. World-class knowledge and R&D communities

We have the best knowledge institutes and communities for cutting edge AgriFood innovation R&D.

- Our AgriFood ecosystem is home to major research campuses, innovation communities and pilot facilities. 12 of the 40 largest AgriFood companies have Dutch R&D facilities, and the Netherlands has the 3rd highest private AgriFood R&D investments in Europe.

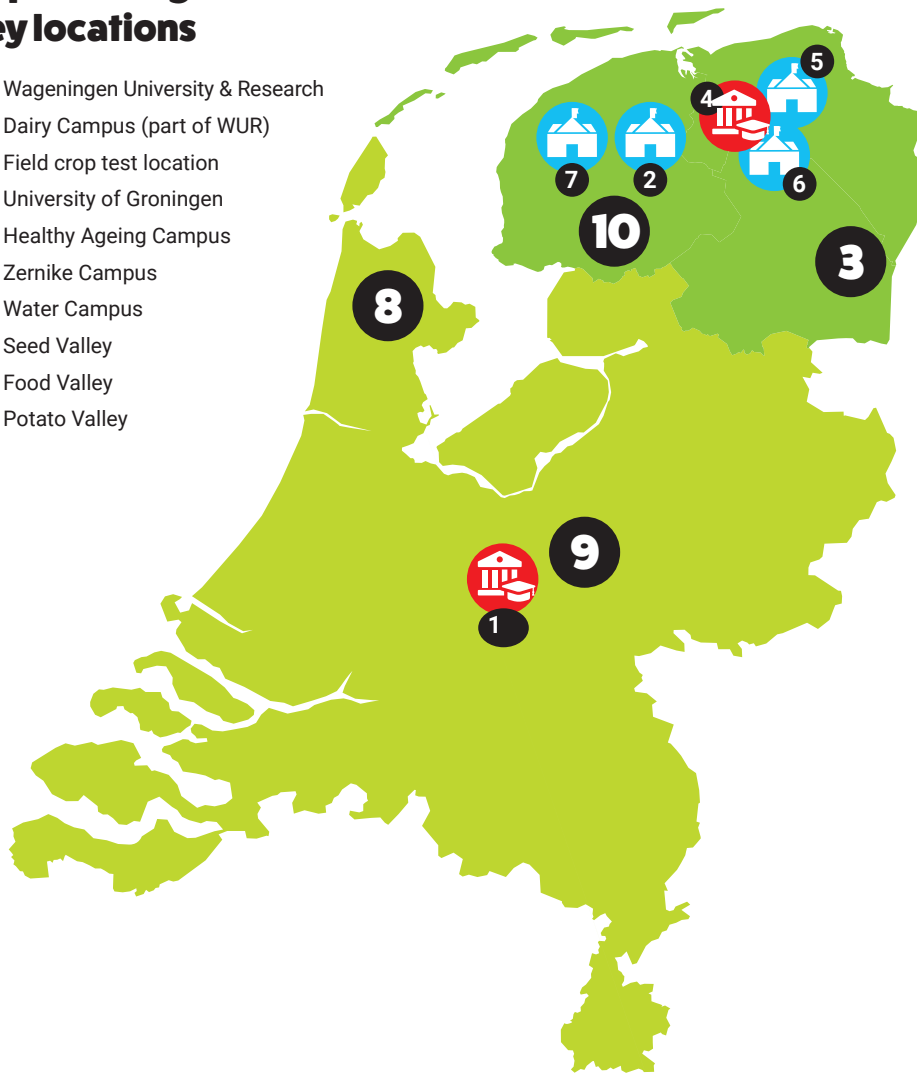
5. Gateway to European market and access to talent

The Netherlands is the ideal gateway to the EU market and provides access to AgriFood talent at all levels.

- Our strong location provides direct access to 244M consumers within 1,000 km via our dense transport network.
- The Netherlands is the 2nd biggest agricultural exporter globally, aided by our excellent trade facilitation and fiscal environment.
- The TopDutch region provides access to AgriFood talent by providing world-class education at all levels, and attracting international talent with our innovation communities.

TopDutch AgriFood key locations

1. Wageningen University & Research
2. Dairy Campus (part of WUR)
3. Field crop test location
4. University of Groningen
5. Healthy Ageing Campus
6. Zernike Campus
7. Water Campus
8. Seed Valley
9. Food Valley
10. Potato Valley



Find your facilitator:



Inqubator Leeuwarden is for all ambitious entrepreneurs (of the future) who match the ambitions of the TopDutch start-up ecosystem. Located in Friesland, there is a strong presence of firms in the WaterTech and AgriFood industries.



Campus Groningen stimulates and supports entrepreneurship, and facilitates innovative initiatives. Besides offering laboratory facilities, business support is offered in the fields of business development, business strategy, intellectual property and patenting, legal aspects, budgeting, finance and risk analysis.

GREEN CHEMISTRY

our offer:

1.

**Cohesive
ecosystem for
Green Chemistry**

2.

**Access to
green feedstock
& energy**

3.

**First
CO₂ negative,
fossil-free &
circular cluster**

4.

**Hydrogen
capital
of Europe**

5.

**World-class
knowledge &
access to talent**

How we're changing the nature of Green Chemistry

1. Complete and cohesive ecosystem for Green Chemistry

We offer the most complete and cohesive Green Chemistry ecosystem in Europe.

- Entrepreneurs, government and knowledge institutions collaborate in Chemport Europe, consisting of Chemport Emmen and Heerenveen for polymer/ polymer applications and Chemport Delfzijl for intermediate chemicals, to make chemistry green.
- Companies in Chemport Europe integrate chains and collaborate to close the loop, accelerating the circular economy.

2. Direct access to green feedstock and green energy

We're rich in our own green resources, and also well-connected to Germany and Scandinavia.

- We offer access to green feedstock and building blocks via our regional natural gas reserve; regional reserve of sodium chloride, regional reserve of magnesium chloride, biomass and biorefined chemical building blocks, or easy imports via our seaports.
- We offer access to green energy including our own supply of solar, wind and biomass energy, and imported green energy via the NorNed and COBRA cable.

3. Most ambitious ecosystem

We will be the first fossil-free, CO₂ negative and circular chemical cluster in the world.

- Chemport Delfzijl will be the first fossil-free and CO₂ negative chemical cluster by using only green chemical building blocks; optimizing all processes; reusing CO₂ and collaborating and investing together.
- Chemport Europe is leading the New Plastics Economy by focusing on 100% circularity; making 100% green products; designing plastic products for easy recycling and developing systems to collect, recapture, filter and recycle all plastics.

4. Hydrogen Capital of Europe

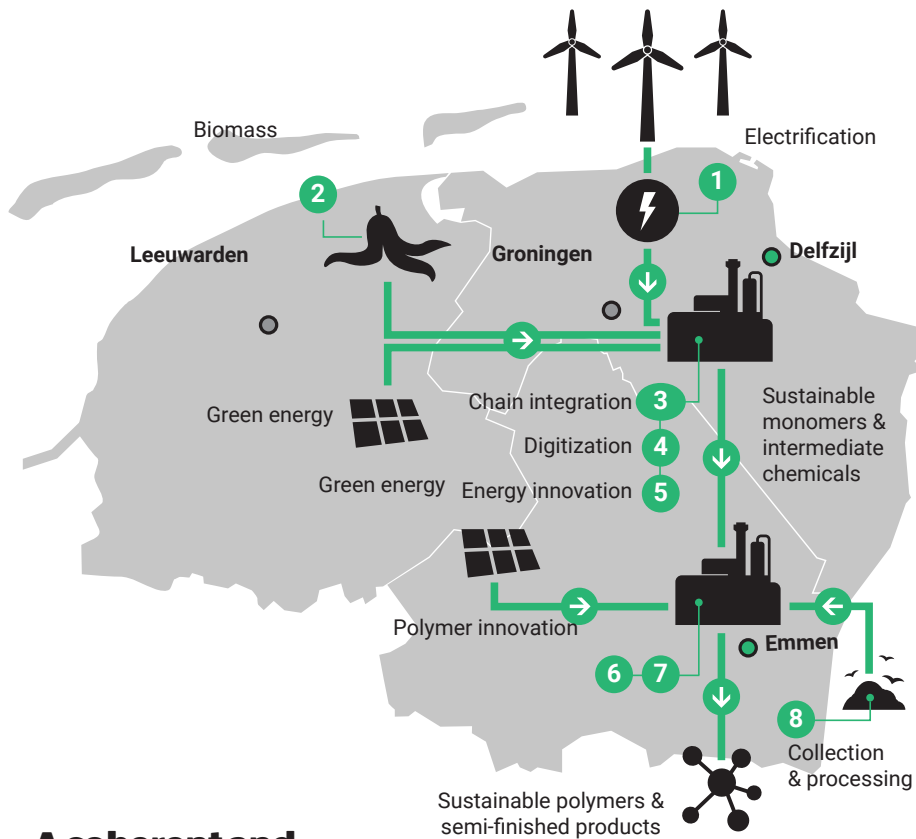
We are dedicated to producing 100% green hydrogen, one of the most used and basic chemicals in the chemistry industry.

- We decided to close our large natural gas reserve in 2022, spurring us to transition from gray hydrogen to green hydrogen production (via blue hydrogen).
- We'll first transition our no.1 in Europe gas infrastructure to an integrated hydrogen transmission network. By 2025, the TopDutch region will be home to 169km of hydrogen pipelines.
- After switching to a hydrogen transmission pipeline network, we will transition the hydrogen mix from blue to green, with a green hydrogen production capacity of 100PJ p.a. by 2030.

5. World-class knowledge development and access to talent

We have a highly skilled workforce that knows green chemistry and offer leading R&D facilities.

- The University of Groningen has the largest chemistry facility in the Netherlands, and is home to Nobel Laureate Ben Feringa.



A coherent and innovative R&D and production ecosystem

1. 1 MW Test Centre
2. Zernike Advanced Processing (ZAP)
3. Chemport Industry Campus (CIC)
4. Smart Industry Hub
5. EnTranCe
6. Sustainable Polymer Innovation Cluster (SPIC)
7. Green PAC Polymer Application Centre
8. Knowledge Centre Recycling

Find your facilitator:

CAMPUS GRONINGEN

Campus Groningen stimulates and supports entrepreneurship, and facilitates innovative initiatives. Besides of offering laboratory facilities, business support is offered in the fields of business development, business strategy, intellectual property and patenting, legal aspects, budgeting, finance and risk analysis. The facilities are suitable for product development in the (bio)chemical field.



Groningen Seaports offer all the ingredients needed to help startups and scale-ups in the energy, circular technology and materials sectors to get off to a good start and undergo long-term and successful development. They offer flexible working spaces from single desks to complete offices, with a close-knit community of young professionals and established multinationals.

WATERTECH

our offer:

1.

**WaterTech
Capital of
Europe**

2.

**Complete
chain of
innovation**

3.

**Access to EU &
international
markets**

4.

**Breeding
ground for
technological
partnerships**

5.

**Access to
talent & highly
skilled labor**

How we test the waters in WaterTech

1. WaterTech Capital of Europe

Our city of Leeuwarden is globally recognized as the WaterTech Capital of Europe.

- It is home to the WaterCampus, which drives innovation in WaterTech both internally and externally.
- WaterCampus is home to five education/training institutes and 25 companies.
- WaterCampus has direct connections to 23 European universities and research institutes and over 200 companies.

2. Complete chain of innovation

WaterCampus facilitates, supports and connects every single step in the innovation chain.

- Science partner Wetsus supports ideation and fundamental research through world-class educational institutes, securing pre-seed funding and patent applications.
- Applied Research partner Center of Expertise Water Technology (CEW) supports from applied science to market-ready product development with the Water Application Center, 4 demo sites and acts as launching customer.
- Business partner Water Alliance accelerates worldwide business development through cooperation, offering matchmaking services and identifying export opportunities.

3. Access to European and international markets

We have the best international networks to provide access to global markets.

- Water Alliance is part of Enterprise Europe Network (EEN), which connects tens of thousands of European SMEs for partnerships.
- Water Alliance is part of Global WaterTech Hub Alliance, which provides direct access to industry networks in the USA, Singapore, China, Israel and Korea.
- Water Alliance organizes, supports or highlights international conferences and matchmaking events.

4. A breeding ground for new technological partnerships

Our partners facilitate technological partnerships across a range of projects.

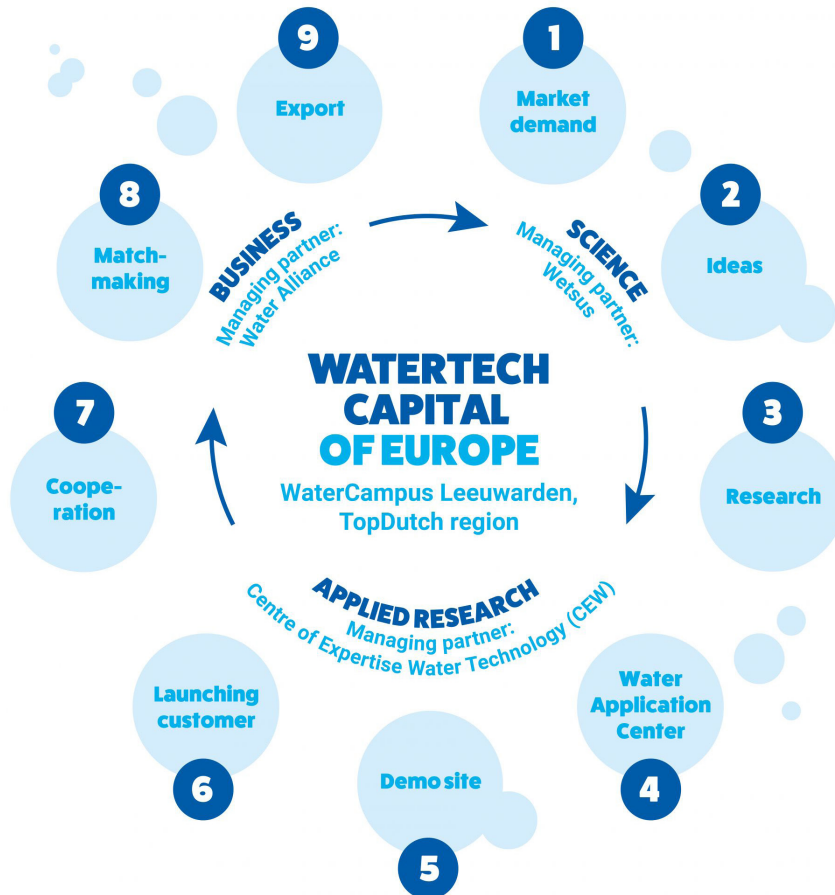
- Partner with Wetsus for groundbreaking scientific research with leading researchers from multiple universities.
- Partner with CEW to develop your first prototype, set up a pilot, accelerate the innovation cycle or shorten your time to market.
- Partner with international or local technology partners for turn-key water management solutions through Water Alliance's business network.

5. Access to talent and highly skilled labor

The TopDutch region offers a highly skilled, specialized and internationalized workforce.

- Lifelong WaterTech learning program from primary school to PHD and MBA level.
- Wetsus graduates on average 40 highly and uniquely skilled WaterTech specialists a year.
- Water Alliance supports growth ambitions by connecting industry to talent.

Chain of innovation



Find your facilitator:



Inqubator Leeuwarden is for all ambitious entrepreneurs (of the future) who match the ambitions of the TopDutch start-up ecosystem. Located in Friesland, there is a strong presence of firms in the WaterTech and AgriFood industries.



WaterCampus stimulates cooperation between (inter) national businesses, knowledge institutes and governments within the water technology sector, in order to create synergy for world class innovation, education and entrepreneurship.

DIGITAL INNOVATION

our offer:

1.

Strong in data science, deep learning & AI

2.

Test ground for autonomous systems

3.

Digitalizing key system transitionst

4.

Digital society & ideal test-market

5.

Access to pioneering talent & skilled labor

6.

Natural choice for smart- and data-intensive business

How we're accelerating the transition with Digital Innovation

1. Foundational research in big data, machine learning & AI and facilitating environment for deeptech

We host a number of leading research institutes, and support science spin-off with business development programs, networks and financing.

- Companies such as IBM and our research institutions are leading in High Performance Computing and solving large problems in science, engineering and business.
- Our University of Groningen collaborates with business and public sector, including global tech firms like Google and Facebook, to perform groundbreaking research and find new solutions in multi-disciplinary centers.
- AI Hub Northern Netherlands is developing AI applications via high impact public-private partnerships.

2. Europe's leading test ground for autonomous systems

With a technologically-ready workforce and ambitious businesses, our key industries are digitalizing at warp speed.

- European Digital Innovation Hub Northern Netherlands is accelerating digitalization in our key industries, and establishing the TopDutch region as Europe's leading testing ground for autonomous systems.

3. Digitalizing key system transitions

We're accelerating key societal transitions by making systems smarter.

- Our green chemistry and energy ecosystems are leading the sustainable

transitions with CleanTech. Our expertise in big data optimize biotechnical, chemical and energy-intensive processes.

- Our life sciences & health ecosystem is applying HealthTech to lead the transition to healthy ageing with big data labs and e-health applications.
- Our WaterTech and AgriFood ecosystems apply expertise in sensor technology works to make food and water systems smarter and more sustainable.

4. Digital society and ideal test market

The TopDutch culture encourages innovation and technological adoption, making the our population an ideal test market.

- Our Noorden Digitaal Coalition shares knowledge, facilitates and educates our citizens to realize a 'spiral of innovation'.
- Several cyber cooperatives are jointly developing cyber resilience in all the region's companies and civil society. We were the birthplace of ethical hacker 'unicorn' HackerOne.

5. Access to pioneering talent and skilled labor

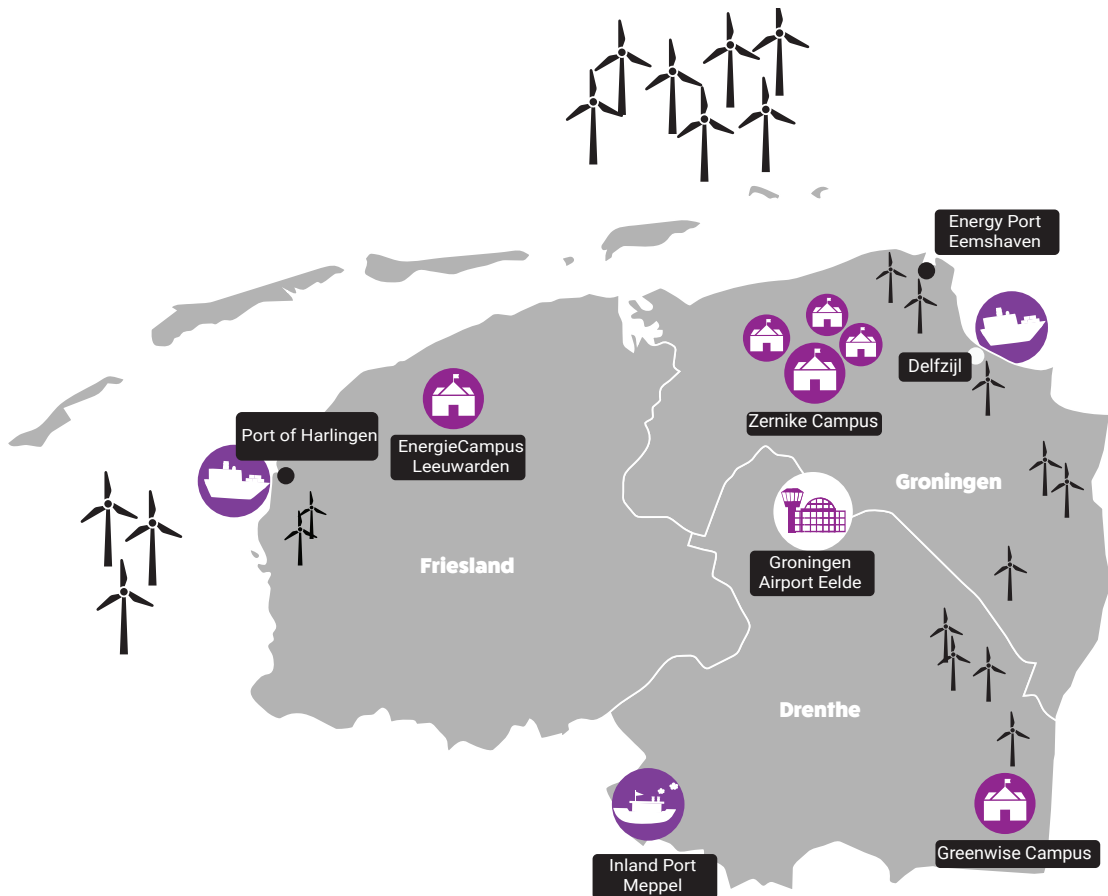
We're home to an ever-increasing number of scientific and entrepreneurial talent.

- Our institutions offer education to more than 75,000 students including in some 60 IT-related education courses, from research university level to vocational level. Our workforce includes large numbers of technologically and digitally skilled people.

6. The natural choice for smart- and data-intensive business

With a reliable and flexible green grid, the best digital infrastructure and the fastest set-up, we're the natural choice for smart- and data-intensive

TopDutch's battery testing ground



Find your facilitator:

NOM

The NOM is the Investment and Development Agency for the TopDutch region. They act as a facilitator for start-ups in the Digital Innovation sector, as well as offering business development programs across sectors, and providing investment up to 1 million euros.


Innovatiecluster
high tech systems Drachten

Innovation Cluster Drachten emphasizes on Technostarters in digital & high tech systems domain. It's the perfect facilitator for tech startups that need facilities to test their robotics innovation. This hub for smart factories works on the future of metal 3D printing, remote sensing and big data, robotics, visual intelligence and renewable propulsion



At the Game Bakery, game developers and other creative pioneers work just like a baker bakes his bread: expertly, patiently and passionately.

LIFE SCIENCES & HEALTH

our offer:

1.

**Europe's
reference region
for healthy
ageing**

2.

**BioAnalysis
Capital of
Europe**

3.

**Hub of
knowledge and
R&D**

4.

**Smart and
sustainable
ecosystem for
MedTech**

5.

**Networks and
opportunities
for partnerships**

6.

**World-class
education &
highly skilled
labor**

Why Life Science & Health is in our blood

1. Europe's reference region for healthy ageing

TopDutch is an EC four-star reference region for Active and Healthy Ageing. We are leading Europe's transition to sustainable healthcare.

- We host more fundamental and applied healthy ageing research than any other region.
- Our e-health cluster is leveraging our region's expertise in Big Data, AI, and sensor technology to create new applications.

2. BioAnalysis Capital of Europe

We have the largest BioAnalytical capacity and diversity in Europe.

- Over 100 LC-MS/MS machines are operational in the region.
- Largest biobank available from Lifelines longitudinal research cohort, making biodata available not only during, but also in the build-up to the emergence of diseases.
- Biomarker Bay, a consortium dedicated to the research, development and application of biomarkers, is supercharging development of tailored diagnostic methods and drugs.

3. Hub of knowledge and R&D

We support knowledge to market-ready products with a supportive mix of research programs, shared innovation infrastructure and access to capital.

- We offer access to a complete R&D chain; from fundamental research to product validation.
- Our unique research programs, including Biomarker Bay, ERIBA and

Lifelines, feed developments in pharma and medical technology.

- Our innovation programs - including in the Open Diagnostics Ecosystem and PharmaNL - and the €500 million Campus Community Fund support innovative products to market and offer opportunities for expansion.

4. Smart and sustainable ecosystem for MedTech

Innovation and product development are supported via our cross-linked green and digital ecosystem.

- Together with our green chemistry industry, TopDutch leads in the development of medical devices, medical and polymer solutions.
- Cross-linking with our digital innovation ecosystem, we offer advanced data capabilities, supporting the development of ground-breaking MedTech with sensor tech and AI.
- Cross-linked with our High Tech and Smart Materials cluster, we are particularly strong in revolutionary lens and catheter technologies.

5. Networks and opportunities for partnerships

Our open business culture supports knowledge-sharing, welcomes newcomers, and supports innovative start-ups to reach their potential.

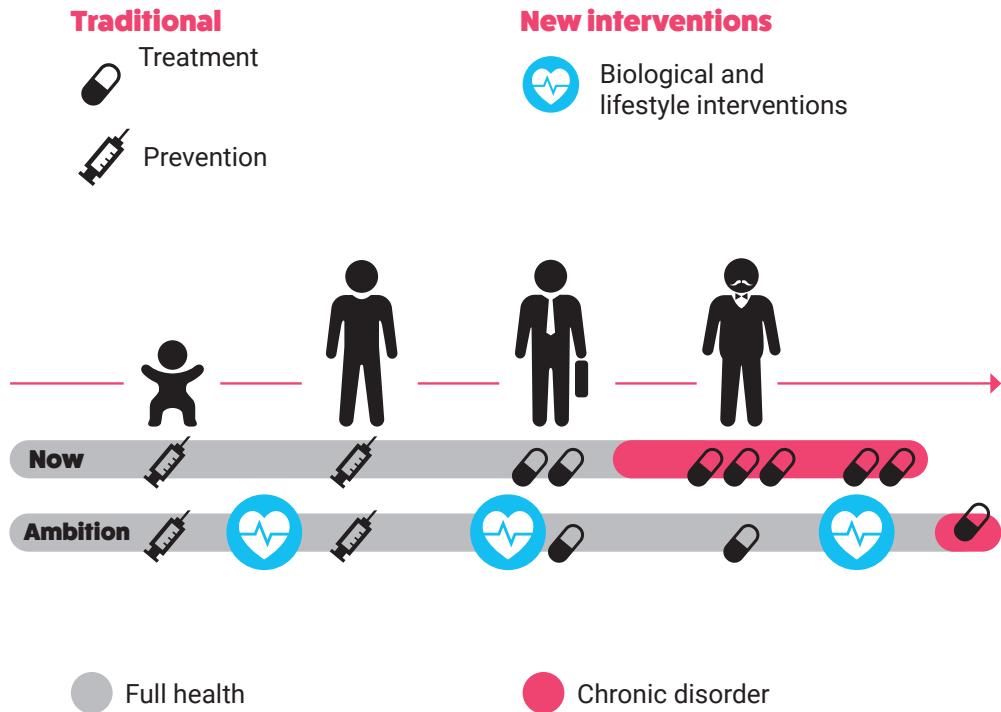
- From pre-seed to scale-up, our services and programs support entrepreneurial talent to take the first step.

6. World-class education and highly skilled labor

Our world-class knowledge institutes educate the health and medical professionals of the future.

- Home to 75,000 students, including 4,000 medical students in our top 100 University Medical Center Groningen. Healthy Ageing Campus offers research and business facilities to spin-offs and start-ups.

Biological and lifestyle interventions



Find your facilitator:

**CAMPUS
GRONINGEN**

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ENERGY

our offer:

1.

**Natural gas
legacy & switch
to green gases**

2.

**The heart of the
North Sea green
power plant**

3.

**Hydrogen
Capital of
Europe**

4.

**Smart students,
researchers &
talent**

5.

**System-level
sustainable
transition**

How our Energy industry is powering a sustainable future

1. Natural gas legacy & switch to green gases

Built on Europe's largest natural gas reserve, we're now investing in infrastructure, education and innovation for green energy.

- We're transitioning our extensive natural gas transmission network and upskilling our 15,000 experienced workers from the natural gas industry.

2. The heart of Europe's largest futureproof energy sourcing area

Located on the North Sea coast, we will power Europe's energy transition.

- The North Sea will be Europe's biggest green power plant, with 120GW capacity by 2030.
- The TopDutch region will be a leading powerhouse, scaling our on- and off-shore wind energy production to 12.2 TWh by 2030, including plans for three offshore sites totaling 4,700 MW.
- With TopDutch as the key energy port, the Dutch high voltage grid transports electricity across borders and seas through 24,500km of pipeline.

3. Leading the transition to a hydrogen economy

TopDutch is Europe's first and only fully-integrated hydrogen valley. We will continue to lead Europe's hydrogen economy by fulfilling a \$10 billion joint investment agenda by 2030.

- Our inherent natural resources - including salt caverns for storage - and

existing energy infrastructure make us the natural business location for a green hydrogen economy. By 2025, we will host 169km of hydrogen pipelines, which will connect to a further 6,800km of pipelines across Europe by 2030.

- HEAVENN is a large-scale demo program creating a fully-integrated and functioning 'H2 valley'. It now acts as a blueprint for replication.
- Our \$10 billion hydrogen investment agenda will allow us to power Europe's future economy with 100PJ of hydrogen p.a. by 2030.

4. Smart researchers, students and talent

TopDutch offers an energizing environment for innovation in CleanTech.

- TopDutch has a culture of open innovation, with a network of knowledge-sharing initiatives, living labs, shared testing facilities and innovation centers.
- We're creating a generation of new energy-skilled talent via our world-leading higher education system.

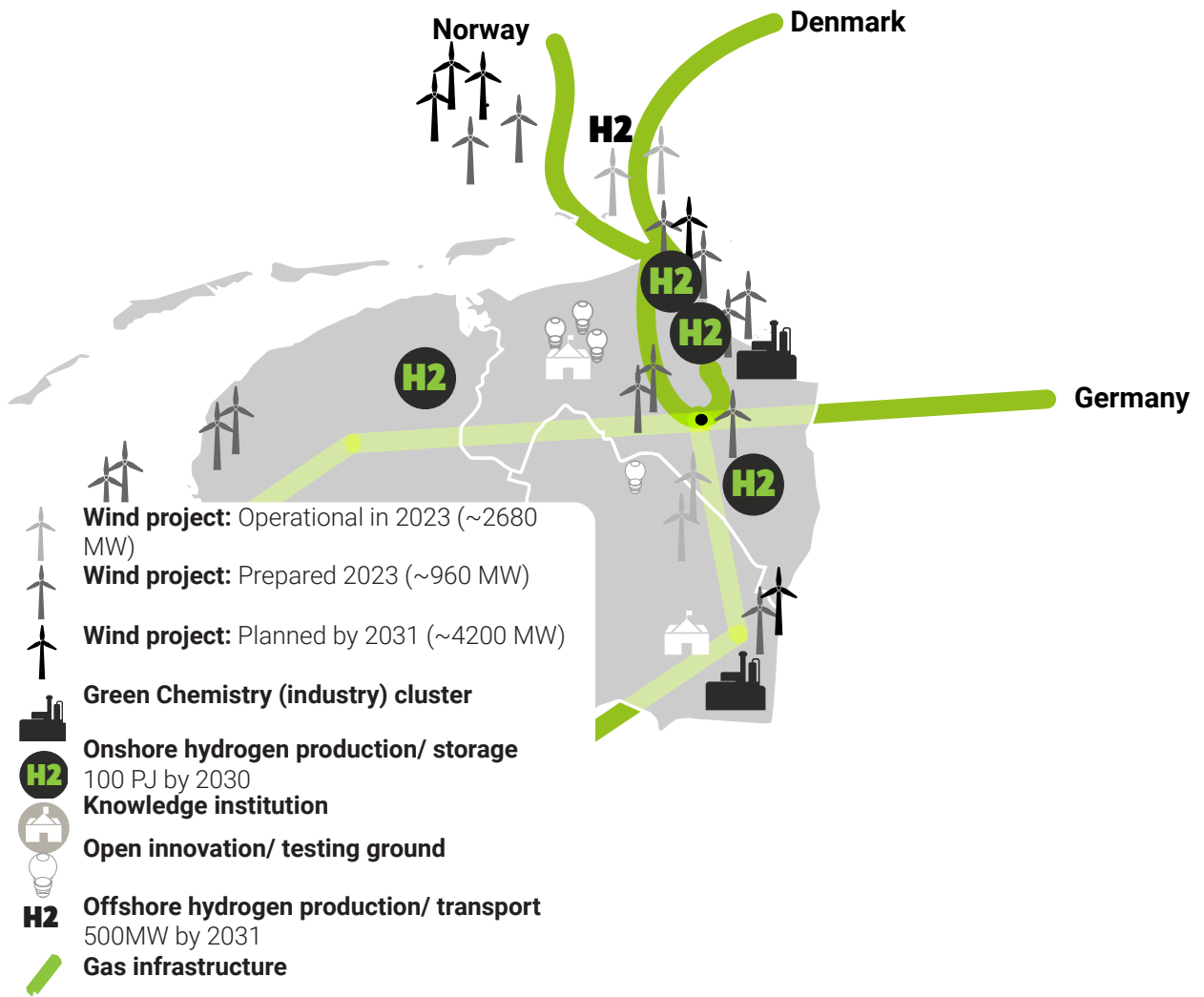
5. Ambitious complimentary industries fueling a system-level energy transition

We're not only generating the energy needed to fuel the sustainable transition, but also the technologies and applications.

- Our Green Chemistry ecosystem, Chemport Europe, will be the first fossil-free and carbon dioxide-negative chemical cluster.
- Our Digital Innovation Cluster is making the New Energy System smarter with AI.
- We have one of the most developed green mobility markets, and are super-charging innovation in 6 key competencies of battery technology.



TopDutch's hydrogen projects:



Find your facilitator:



Groningen Seaports offer all the ingredients needed to help startups and scale-ups in the energy, circular technology and materials sectors to get off to a good start and undergo long-term and successful development. They offer flexible working spaces from single desks to complete offices, with a close-knit community of young professionals and established multinationals.



**Are you interested in exploring
what your business possibilities
could be?**

**Connect with [Fleur Mulder](#), our
start-up ecosystem expert.**

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TopDutch region is naturally leading the
transition, or view the digital edition?**

Head over to our website:

www.topdutch.com

The TopDutch collective: Economic region



Executive partners



Ministerie van Economische Zaken
en Klimaat



Netherlands Foreign
Investment Agency

Regional partners



Knowledge partners



university of
 groningen



Hanzehogeschool
 Groningen
 University of Applied Sciences



university of
 applied sciences



van hall
 larenstein
 university of applied sciences



international
 welcome center
 north

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Naturally leading the transition