

Science & Innovation Parks and Campuses in East Netherlands



INVEST IN
Holland



East Netherlands
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Preface

Welcome to the East Netherlands

Among the top countries for research and development, the Netherlands provides a unique mix of businesses working alongside renowned knowledge institutes that are addressing major themes in society such as digitalisation, energy transition, e-health and sustainable food production. The country's highly skilled workforce and attractive R&D incentives offered by the Dutch government further support businesses looking to make the Netherlands their base of operations in Europe.

East Netherlands offers world-class Science & Innovation Parks and Campuses for innovative companies in agri-food, life sciences & health, high-tech and smart energy. At East Netherlands Development Agency (Oost NL), we will be happy to introduce you to the technology partners and R&D facilities that are relevant for your organisation. Being a public entity, we provide our services free of charge.

Fons de Zeeuw

Director International



Our Science & Innovation Parks and Campuses

Science & Innovation Parks and Campuses in East Netherlands

Health

- Kennispark Twente, Enschede (1)
- Mercator Science Park, Nijmegen (5)
- Novio Tech Campus, Nijmegen (6)
- Health innovation Park, Zwolle (7)
- Knowledge Campus Zonneoord, Ede (8)
- Kien Knowledge Campus, Deventer (10)

Food

- Wageningen Campus, Wageningen (11)
- World Food Center, Ede (9)

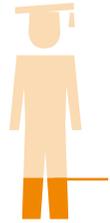
Tech

- Kennispark Twente, Enschede (1)
- Mercator Science Park, Nijmegen (5)
- Novio Tech Campus, Nijmegen (6)
- High Tech Systems Park, Hengelo (12)
- Connect-U, Enschede (2)
- Technology Base, Enschede (3)
- CeeCee, Enschede (4)

Energy

- Connectr & IPKW, Arnhem (13)
- Arnhems Buiten, Arnhem (14)
- Innofase, Duiven (15)
- H2 Hub Twente, Almelo (16)

Facts & Figures



3.26 million inhabitants

19% of the Dutch population
(CBS, 2021)

3 Research Universities

11 Universities of Applied Sciences

25 Vocational schools

Enrolling > 200,000 students (CBS, 2021)



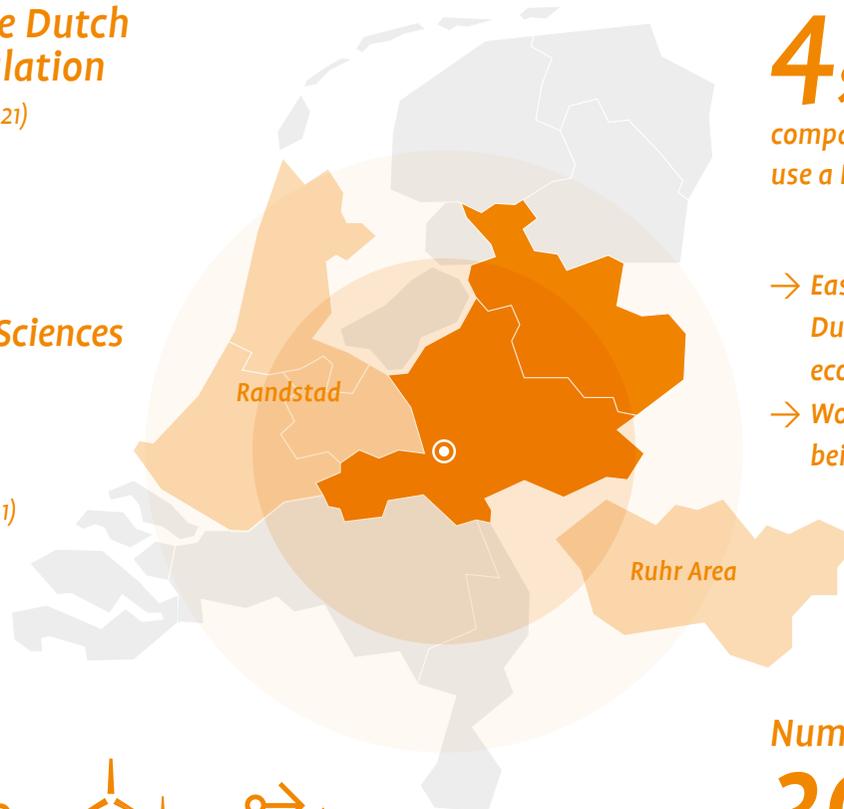
East Netherlands companies make up for nearly 50% of electrical engineering innovation investments in the Netherlands.

4,600 

companies from East Netherlands use a Dutch financial R&D incentive called WBSO

→ East Netherlands is right in between Dutch Randstad and German Ruhr Area economic powerhouses

→ World leading Agrifood University of Wageningen being the core of Food Valley region



Key industries:



Food



Health



Tech



Energy



Logistics

Number of Companies

300,000

Number of top knowledge institutes

>30

Kennispark Twente



Visual of the new Kennispark Twente innovation campus. Work in progress!

Profile

The innovation campus Kennispark Twente in Enschede is one of the top 3 of most important science parks of The Netherlands.

It is a dynamic location, where over 400 companies work on developments and innovations that make a difference. It is a location with a hospitable and established climate for entrepreneurs, which provides development and growth opportunities for companies active in the high-tech sector with a strong focus on Medical Technology, Advanced Manufacturing, Smart materials and Secure systems. The campus is the second largest in the Netherlands in terms of commercial jobs, with 6,300 people working at Kennispark Twente in Enschede, excluding the 3,000 academic staff members at the University of Twente and the 3,000 employees of Saxion, university of applied sciences.





Area
1,800,000 m²

Building capacity
350,000 m²

Development space
100,000 m²

Companies
400

Jobs
12,300

Students
37,000

Infrastructure

Railway stations

- > Enschede Central
3 km - 15 min by bus
- > Enschede Kennispark
On campus

Airport

- > Münster-Osnabrück
87 km - 1 hr 30 min by car
- > Schiphol Amsterdam
170 km - 1 hr 35 by car / 2 hr 15 min by train

Motorway

- > A35
5 km - 5 min by car

Digital infrastructure

- > Fiber and Wi-Fi
- > Park fully broadband and Wi-Fi serviced

Enschede City Centre

- > 5 min by train / 10 min by bus
10 min by car / 14 min by bicycle

Kennispark Twente

Long-term vision

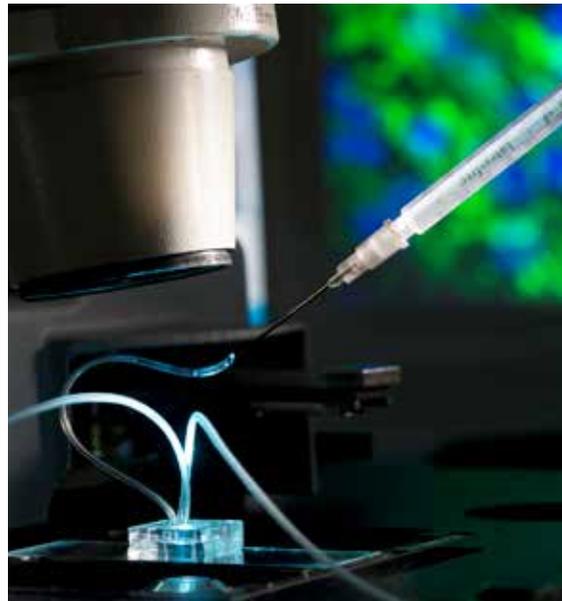
Kennispark Twente is a knowledge-based campus with a unique mix of knowledge-intensive economic functions and academic networks, focusing on personal development, challenge and growth. Knowledge is a mainstay of the University of Twente, which is currently further strengthening its profile as an entrepreneurial university. The region of Twente continues to be an attractive location for innovative businesses. Kennispark Twente aims to be a meeting point for top-class European knowledge, technology and innovative businesses.

Open Innovation Strategy

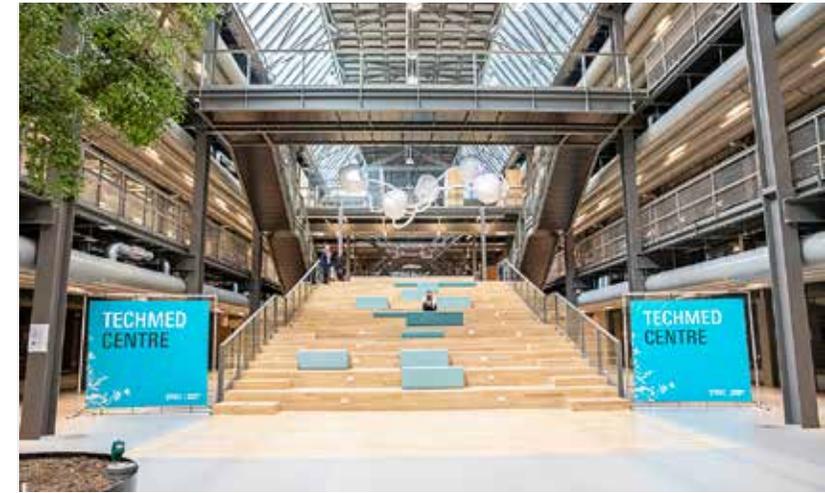
In Twente, sharing expertise and cooperative innovation speaks for itself. It springs from the conviction that this will lead to new possibilities, concepts and products. It helps companies to find their competitive advantage and to stay ahead of the competition. Innovating together means arriving at an intended result more quickly, and being able to focus on the demands and desires of the end-user and/or customer. At the end of the day, the metrics that really matter are shortening the time to market introduction and increasing profit on a particular product. Both companies and knowledge institutes in Twente play a strong role in this regard. Together with industrial partners, Kennispark Twente is working on roadmaps: in the coming years, what should Twente invest in, in terms of technology and knowledge development?

World-class Research Institutes

- > MESA+: One of the largest nanotechnology institutes in the world.
- > Technical Medical Center: leading Innovation Hub impacting healthcare.
- > CTIT: Institute for ICT research in context.
- > TPRC: Research Center for Advancing Thermoplastic Composites Technologies.
- > Fraunhofer Project Center: One of the largest non-profit organisations of applied research in Europe.
- > Max Planck: Center for Complex Fluid Dynamics.
- > European Membrane Institute: Performs confidential contract research directly with industry.



Fraunhofer Project Center opens soon their new Advanced Manufacturing Center.



TechMed Center is leading Innovation Hub impacting healthcare.

R&D Focus

The focus is on technological developments with a high social relevance: High Tech – Human Touch.

- > **Smart Materials**
Thermoplastic composites, membranes, smart & functional materials, (bio)polymers, surface treatment.
- > **Software & Security**
Sensors, embedded systems, architectures, ICT.
- > **Medical technology**
Lab-on-a-chip (micro fluids), photonics, nano electronics.
- > **Advanced manufacturing**
Additive manufacturing, mechatronics & robotics, semiconductors.

These technological developments hold relevance in a number of domains where they may be applied, such as energy, safety, health, water management and infrastructure.

Shared R&D facilities

Kennispark Twente has several open innovation centres and platforms to develop and share knowledge related to high-tech systems and materials, such as OICAM (Open Innovation Center Advanced Materials), TPRC (ThermoPlastic Composites Research Centre), Texperium (recycling textiles), Laser Application Centre, Pioneering (construction technology), Technical Medical Center, BioNanoLab, Virtual Reality Lab, DataLab, SmartXp. In addition, several R&D facilities are available that are open to both companies and universities, for example High Tech Factory, Design Lab, Fablab, Nanolab, T-XChange and Twente Safety Campus.

- > **High Tech Factory**
Production facility for companies in micro- and nanotechnology.
- > **Thermoplastic Composites Research Centre**
Open innovation around thermoplastic composites.
- > **Fablab Enschede**
Special equipment such as a 3D printer for prototyping.
- > **OICAM**
Applied sustainable innovations in advanced materials.
- > **Pioneering**
Platform for innovation in the construction industry.
- > **Design lab**
Creative and cross-disciplinary lab connecting science and society.
- > **Robotics**
Robot technology for various service applications.

Start-up facilities and programmes

The business climate in Twente has traditionally been based on daring, a pioneering spirit and vision. The organisation Novel-T is building an environment in which entrepreneurs can seize new opportunities to stay or become a frontrunner in their league. By connecting and activating talent, knowledge, capital, network and infrastructure, opportunities will lead to new, innovative businesses. Several facilities and programmes are available to encourage those starting their own business:

- > The TOP programme offers coaching and financing for start-ups.
- > The Legal Advice Center offers advice on the legal aspects of starting a new business.
- > There are options for a number of financing possibilities, such as the Innovation Fund Overijssel, Cottonwood, and a network of informal investors.
- > There is workspace available close to innovative companies.
- > Many events for sharing knowledge and skills on entrepreneurship are organised, such as the Start-up Fest, Create Tomorrow, InnovateGO and Campus Café.



State Secretary for Economic Affairs and Climate Policy Mona Keijzer visits TechMed Center at Kennispark Twente and University of Twente.

Kennispark Twente

Sustainability

Our policy

In addition to innovation, sustainability is one of the core criteria for every development on campus. Sustainability must lead to environmental and economic benefits. With its high-tech and research-related companies and institutions, Kennispark Twente is suitable for the application of innovative, sustainable solutions. It comprises a realistic laboratory where new techniques can be tested and implemented, including energy minimisation, climate and ventilation, day lighting, green roofs, sustainable materials, etc. Sustainable real estate, common areas and events are used as a statement to make knowledge and solutions visible to the public.



Kennispark Twente invests in a vibrant and dynamic community.

Kennispark Twente is one of the three main science parks in The Netherlands and set to grow further into a knowledge-based campus with a unique mix of knowledge-intensive economic functions and academic networks, focusing on personal development, challenge and growth.

Our main objectives

Environmental benefits

- > reduced energy use: energy positive reduced material inputs.
- > increased recycling and re-use of materials, components and products.
- > reduced environmental waste and emissions.

Economic benefits

- > generation of additional revenue for economic players, cost benefits (energy, materials, waste management, compliance with environmental legislation).
- > reduced market dependence on non-renewable and imported resources.
- > businesses gain a competitive edge on the growing green market.
- > improved public image of each company and of the park as a whole.



Remarkable sustainability objects/achievements

- > The Living Lab Smart Grid provides rich information about devices and building energy use as input for development and optimisation of new concepts, services and products for smart-grid solutions.
- > A heat exchange system (located in the pond) is in use.
- > Solar panels have been widely installed.
- > There is an energy-neutral road.

Community services & facilities

Kennispark Twente offers:

- > a full package of facilities, like Broodbode, The Gallery, Waaier, various restaurants, shops, meeting places, etc.;
- > a full programme for all inhabitants (cultural, sports, business) and 250+ events annually for innovation & entrepreneurship, partner of Start-up Fest.

Leisure (sports, congress)

Soccerstadion FC Twente, movie theatre, sports facilities, cultural performances, ice skating area, concerts and exhibitions, conference facilities, hotel.

Parking

4,500 free parking spaces

Park management

- > Site-related services
 - There is a joint security contract and joint general maintenance, with further services being developed.
 - Such services are provided by the municipality of Enschede, in cooperation with the Kennispark Employers' Association.

> Building-related services

There are eight serviced incubators, all with facility management, reception, cleaning/waste services, copy & print facilities, etc. These are operated by various partners.

Governance

- > Campus ownership
 - Municipality of Enschede, University of Twente, private parties.
- > Decision makers & decision-making process
 - These include the municipality of Enschede, University of Twente, private parties and NFIA/Oost NL for initial contact with interested companies and contracts.
 - Kennispark Twente conducts a profile assessment of any interested companies.
- > Management
 - Stichting Kennispark Twente

Commitment

University of Twente, the municipality of Enschede, the Twente Regional Authority, the Province of Overijssel, Twente Board and Saxion University of Applied Sciences.

Buildings

<i>Education and Research</i>	200,000 m ²
<i>Company buildings</i>	
> Incubator/Accelerator	25,000 m ²
> Single-tenant	80,000 m ²
> Multi-tenant	25,000 m ²
<i>Housing (students)</i>	2,095 units
> On campus (incl. BSPW)	2,100 units
> Off campus (excl. private market)	6,000 units



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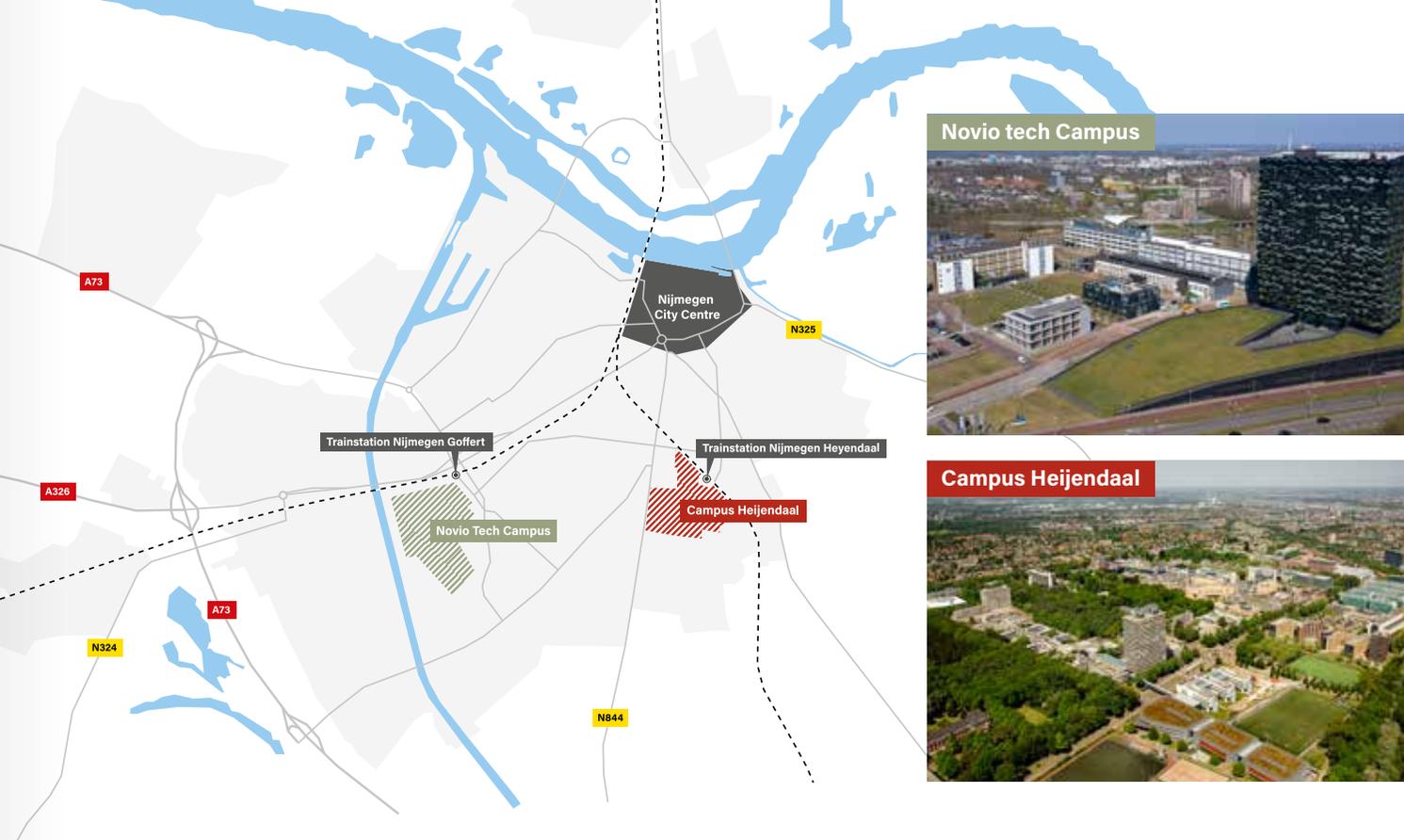
Nijmegen Campus

Radboud Campus (@ Dick van Aalst)

Profile

Nijmegen Campus is the Health and High Tech hotspot of the Netherlands. A modern and vibrant environment that facilitates leading researchers and scientists of the seventeen research institutes of Radboud University and Radboud university medical center (Radboudumc). The perfect ecosystem for entrepreneurs in Health and High Tech to develop their groundbreaking innovations. The excellent high-end research facilities on campus provide great opportunities for future entrepreneurs and researchers in fields ranging from life sciences and neurology to semiconductors, data sciences, psycholinguistics, and sustainability sciences. From the next generation of chip technology to the latest innovations in drug development, it's happening on Nijmegen Campus.





Infrastructure

Railway stations

- > Nijmegen Heyendaal
On campus
- > Nijmegen Goffert
On campus

Airport

- > Weeze
52 km – 45 min by car
- > Dusseldorf Airport
120 km - 1 hr 15 min by car
- > Schiphol Amsterdam
120 km - 1 hr 30 min

Motorway

- > A73
7 km – 10 min by car

Digital infrastructure

- > Fiber and Wi-Fi
- > Park fully broadband and Wi-Fi serviced

Nijmegen City Centre

- > 15 min by bus / 15 min by train /
10 min by car / 10 min by bicycle

Area
1,370,000 m²

Building capacity
270,000 m²

Development Space
100,000 m²

Companies
290

Jobs
25,000

Students
60,000



Nijmegen Campus

Unique companies

- > Ampleon
- > Byondis
- > Nexperia
- > NXP
- > Symeres
- > Vaxxinova

Long-term vision

A number of long-term objectives have been set to further develop Nijmegen campus:

- > To provide accessible, stable and user-friendly facilities to create a strong research ecosystem that allows high-quality science and research to have impact and maintain its international status.
- > To remain an inspiring and hospitable environment in which (local) start-ups and SMEs can turn innovative ideas into products, suitable for the market.
- > To be an attractive meeting place for entrepreneurs, researchers, scientists and business angels to discuss the latest scientific developments and to stimulate co-creation through excellent facilities and our academic and business networks.
- > To offer the best housing and living environment for companies and its employees in all stages of growth.
- > To facilitate the personal growth of students, researchers, and scientists.

Open Innovation Strategy

On Nijmegen campus, innovation is an important stimulus for our activities. The main purpose of innovation is to convert the results of scientific research into social, cultural, and economic value of research, and to anticipate consumer needs. The excellent research facilities and the inspiring environment enable researchers to collaborate with industry and governmental bodies that can generate benefits for society in impactful domains, such as personal healthcare, sustainability, and human-centred AI technology. Furthermore, we are committed to aiding nascent entrepreneurs in reducing the time-to-market through our innovative start-up facilities and programmes in which we assist entrepreneurs in setting up viable businesses. Nijmegen campus is an excellent place to make a significant impact on society and to develop innovative products that matter.



*Spectroscopy of Solids and Interfaces
(@Dick van Aalst)*



High Field Magnet Laboratory and Free Electron Laser for Infrared Experiments (@ Dick van Aalst)

World-class Research Institutes

- > Radboud University Medical Centre: research into current scientific health challenges: Radboud Institute for Molecular Life Sciences; Radboud Institute for Health Sciences; Donders Institute for Brain, Cognition and Behaviour, Radboud Center for Language and Speech Technology.
- > Max Planck Institute for Psycholinguistics: the only institute in the world entirely devoted to psycholinguistics.
- > Radboud Center of Artificial Intelligence: a global forerunner on research into human-centred AI technology.
- > OnePlanet Research Center: research for a healthy and sustainable society using latest chip and digital technologies.
- > Chip Integration Technology Center: innovation center for chip technologies.

R&D Focus

Research with societal impact in the fields of:

- > Healthy Brain
- > Drug Discovery & Development
- > Digital Health
- > Radio Frequency Technology
- > Chip Integrations and Packaging

Radboud Research Facilities

On Nijmegen campus, companies, research institutions, researchers and start-ups can take advantage of the facilities and knowledge of Radboud University, Radboudumc and the Donders Institute. Radboud Research Facilities (RRF) offers a wide range of services and expertise within eight research areas: medical research, decision making, space, language and speech, neurology and motion, data science, plant and animal models, and molecules and materials. Furthermore, RRF helps to enhance the existing facilities and always aims to purchase the latest equipment with a view to creating an optimal research environment.

Tailor-made R&D Facilities at Novio Tech Campus

Novio Tech Campus offers tailor-made housing solutions for your R&D operations. Together with Kadans Science Partner, we can develop, build and manage laboratory and cleanroom spaces for knowledge-intensive businesses and institutes. We are familiar with chemical, medical and microbiological laboratories, on various safety levels. When setting up your R&D operations at Novio Tech Campus, you become part of a community of entrepreneurs with a growth mind-set, enabling collaboration with ambitious Health and High Tech companies like yourself. This way you can take the next step – both as a business, and as a person.



Benelux Radio Frequency Conference at Novio Tech Campus

The perfect ecosystem for entrepreneurs in Health and High Tech to develop their groundbreaking innovations. From the next generation of chip technology to the latest drug development, it's happening on Nijmegen Campus.

Nijmegen Campus

Start-up facilities and programmes

Mercator Launch stimulates entrepreneurship and innovation in the early phase. The start-up facilities and programme help entrepreneurs showcase and further develop their business ideas, and they support the start-ups that emerge from these ideas. Based on their in-house expertise, the staff of Mercator Launch helps entrepreneurs to develop business cases. Moreover, with their extensive academic and business networks that transcend the region, Mercator Launch can put you in contact with national and international businesses, partners, and potential clients. Hundreds of innovative scientists and students have been successfully supported by Mercator Launch.

- > Briskr supports and stimulates entrepreneurship in Health and High Tech. Through various acceleration programs and other activities – like Briskr Validate!, NextOEM and the Business Angels Network – they stimulate and support entrepreneurs in taking the next step with their innovation.
- > Startup Nijmegen is a network of starting entrepreneurs, located right across the Central Station of Nijmegen. Next to top notch work facilities – with coffee, internet and a place to relax – they offer professional support by various partners of the entrepreneurial network in Nijmegen.
- > Entrepreneurs, organizations, investors and knowledge institutes work together in Rijk van Nijmegen (RvN@). By crossing the borders of city and sector, they boost connection and development in new and existing initiatives.

Starters4communities offers training programs and a community in social entrepreneurship. They are the place to be for starting entrepreneurs and professionals who are choosing for a career with impact.

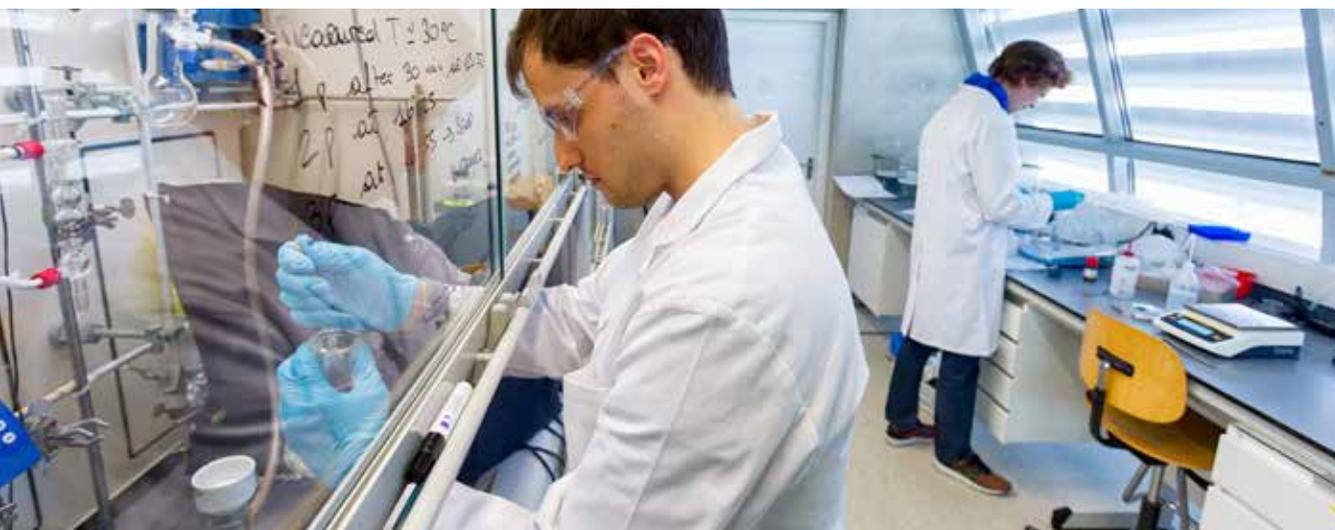
A Significant Impact

Our policy

Nijmegen campus is committed to making a significant societal impact and contributing to a healthy, sustainable, and free world with equal opportunities for all. We aspire towards a green and healthy campus with a positive impact in terms of climate and creating a circular economy. Making the best possible use of existing facilities, Nijmegen campus is a leader in this field. Modern tools make our smart campus a 'living lab': a place where we experiment and encourage innovation on themes such as sustainability and social safety. The campus is an inviting place to study, meet and collaborate and all activities on campus are supported by state-of-the-art technical and infrastructure facilities to provide optimum support for researchers, students, and entrepreneurs.

Our main objectives

- > To create a green, healthy and inclusive campus with a positive impact on climate and circularity;
- > To contribute to the promotion of sustainable development in education, research and in the operational management of Radboud University, Radboudumc, and the research institutes;
- > To develop a sustainable work and research environment in which the environmental impact is increasingly reduced and social coherence is promoted.



Solid State Chemistry department (@ Dick van Aalst)

Remarkable sustainability achievements

- > The new 'Grotius Building' a nearly energy neutral Bream excellent new faculty building.
- > Tiny forests for biodiversity.
- > Redevelopment of old industrial real estate into first class multi-tenant lab facilities.
- > Fast track bike path to and from the campuses.

Community services & facilities

Nijmegen campus consists of:

- > University campus including Donders Institute and Max Planck institute.
- > Radboudumc including the hospital and IMLS.
- > HAN University of Applied Sciences.
- > Mercator Science Park including various start-ups, SMEs and other companies working closely with the university and Radboudumc.
- > Novio Tech Campus including various companies operating in state-of-the-art, high-tech fields.

Other facilities include:

- > Radboud Sports Centre providing over 80 different sport options for students, alumni, employees and citizens of Nijmegen and surroundings.
- > Facilities & Services including several restaurants and cafés/pubs on campus.
- > Student housing organisation SSH& which also manages several housing facilities on campus. including dedicated accommodation for international students and permanent and temporary employees.



Novio Tech Campus

Leisure

There are several indoor & outdoor facilities, cultural activities like Zevenheuvelenloop and the Nijmeegse Vierdaagse.

Governance

The campus is governed by the individual organisations mentioned above which have multiple interactive collaborations and hold joint board meetings. Furthermore, the campus and Radboud University have a particularly close relationship with the Municipality of Nijmegen, the Province of Gelderland and several non-profit organisations in the Rhine-Waal Euroregion, both nationally and internationally. An example is the collaboration between Radboud University and the University of Duisburg-Essen (UDE), which cofounded the Erwin L. Hahn Institute for Magnetic Resonance Imaging (ELH) in 2005.



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Wageningen Campus

@Rob Grooskens

Profile

Wageningen Campus is designed to be a vibrant meeting place for scientists and researchers from 12 research institutes, Wageningen University, start-ups, SMEs, R&D centers of national and international companies, and more than 15,000 students. All working in the fields of nutrition, agro- and food production, life sciences, biobased products, and a healthy living environment.



Infrastructure

Railway stations

- > Ede-Wageningen
5.5 km - 10 min by bus
- > Arnhem (ICE train)
30 min by public transport

Airport

- > Amsterdam Airport Schiphol
90 km - 1 hr by car, 1 hr 30 min by bus/train
- > Eindhoven Airport
83 km - 1 hr by car
- > Düsseldorf Weeze
81 km - 1 hr by car
- > Düsseldorf Int. Airport
141 km - 1 hr 30 min by car

Motorway

- > A12
3.2 km - 5 min by car

Digital infrastructure

- > World-class, located in one of the best fiber optic networks in the world, SURFnet, with SURFnet POP. Prepared for 5G, with high capacity redundant electricity infrastructure up to 10 MVA

Wageningen City Centre

- > 1.5 km - 5 min by bicycle



wageningen
campus

Area
1,050,000 m²

Building capacity
710,000 m²

Development space
100,000 m²

Companies
200

Jobs
7,900

Students
15,200

Wageningen

Wageningen Campus

Long-term vision

The following strategic goals have been defined in order to take the next step in campus development and to remain the world-leading campus in our domain:

- > maintain the number one position in Europe and a top-three position worldwide in the food and agro domains;
- > provide an optimal and inspiring infrastructure for excellent science and research;
- > create a balanced mix of research institutes, NGOs, start-ups, SMEs, and national and international corporations;
- > attract leading industry players in the food, agro, biobased and environmental sectors, encouraging them to conduct their R&D activities and to collaborate at Wageningen Campus;
- > To stimulate and facilitate the dialogue and collaboration among the stakeholders regarding the global challenges in our domain.



Wageningen University with 12,000 students from over 100 nationalities. Worldwide, the number 1 university in agro & food (National Taiwan Ranking 2020).



Wageningen Unifarm, with advanced NPEC phenotyping- and greenhouse facilities and experimental fields for crop research.

Open Innovation Strategy

On Wageningen Campus, we know that sharing knowledge is as important as developing knowledge, convinced as we are that this is the key to truly innovative solutions to the global challenges of our time. This is why Wageningen Campus is designed to be a meeting place for researchers, students, entrepreneurs, SMEs, and research centers of corporates in the fields of nutrition, health, food production and the living environment. On Wageningen Campus, the academic world, the business sector and the government collaborate to address today's major social issues: the world food need, the growing pressure on blue and green spaces, the demand for sustainable production, the desperate need for alternatives to fossil fuels and the impact of climate change.

These issues are interrelated and must be addressed in conjunction with each other. As a result, these issues are ideally suited to be studied on Wageningen Campus.

Wageningen Campus is designed to be a vibrant meeting place for scientists and researchers from 12 research institutes, Wageningen University, start-ups, SMEs, R&D centers of national and international companies, and more than 15,000 students.

World-class Research Institutes

- > Wageningen University
- > Wageningen Research
 - Wageningen Bioveterinary Research
 - Wageningen Livestock Research
 - Wageningen Marine Research
 - Wageningen Centre for Development Innovation
 - Wageningen Economic Research
 - Wageningen Environmental Research
 - Wageningen Food & Biobased Research
 - Wageningen Food Safety Research
 - Wageningen Plant Research
- > NIOO-KNAW
- > MARIN
- > OnePlanet Research Center

R&D Focus

Healthy and Sustainable Food

Food, feed & biobased production (incl. food processing, food safety, circular economy, green materials), Nutrition (incl. healthy life style, life sciences, society & well-being).

Healthy Living Environment

Natural resources & healthy living environment (incl. Green Climate Solutions & Green Cities).

Shared R&D facilities

Shared Research Facilities allow researchers to use advanced research equipment from WUR and other R&D organisations on Wageningen Campus. All researchers, whether from universities, research institutes or companies, can use the available equipment. Facilities range from advanced research facilities at laboratory scale to state-of-the-art facilities for pilot-scale biorefinery, food conversion, climate rooms, greenhouses, aquatic research facilities and experimental fields for crop research at, for example, Unifarm, Phenomea, AlgaePARC, and the Wageningen Data Competence Center.

Start-up facilities and programmes

Wageningen Campus has a flourishing entrepreneur community where new ideas and initiatives in the field of food & agrotechnology originate. The campus facilitates entrepreneurs with flexible housing opportunities, support, coaching, and pre-seed capital. Forms of support vary from educational activities for university students in the StartHub, a complete range of network contacts and experts for Ag-Tech entrepreneurs or seed capital via Startlife, to location options in an incubator at, for instance, Plus Ultra or in one of the private incubators, such as BOX (Blue Ocean Xerator).



© Joris Schaap

Wageningen Campus

Sustainability

Our policy

Mission: 'To explore the potential of nature to improve the quality of life' and remain a leader in terms of sustainable operational management. Policies are aimed at creating a circular economy and climate neutrality. Our campus features numerous examples of sustainable construction, energy efficiency and innovations in a green environment.

Our main objectives

- > Construct and furnish buildings as sustainably and circular as possible;
- > Use green electricity and refrain from using natural gas;
- > Generate renewable energy: augment the heat exchange system and increase use of solar energy on campus.

Remarkable sustainability achievements

- > The Netherlands Institute of Ecology - Royal Dutch Academy of Sciences (NIOO-KNAW) building is based on the cradle to cradle philosophy and has won many awards. It includes an award-winning green roof 2.0, plants providing power, and water treatment technology;
- > Plus Ultra building I: won the architectural ARC16 Detail Award in 2016;
- > Unilever Global Foods Innovation Centre: Building Research Establishment Environmental Assessment Method (BREEAM) Global Design Award and the Global Public Award in 2019;
- > In december 2020, Wageningen University & Research ranked first in the worldwide GreenMetric ranking for the fourth consecutive year.



Aquatic research

Community services & facilities

Wageningen Campus has several facility buildings incorporated in Campus Plaza (1,000 m²) including restaurant and catering facilities, a bookshop, coffee bar and bakery, as well as four restaurants and some kiosks in Wageningen University & Research buildings that are accessible to the public. The restaurant of Aeres University of Applied Sciences is open for everyone too.

Wageningen Campus organises a number of programmes for local residents (cultural programmes with lunch concerts, theatre, dance, sports activities, business & science cafés, Wageningen Campus Connect café as well as the Wageningen Dialogues) and facilitates events such as F&A Next. For meetings, Wageningen Campus can provide formal and informal meeting and/or debating locations, such as the Amphitheatre, Impulse and – in the near future – the Dialogue Centre.

Leisure

Indoor & outdoor sports facilities, ca. 10,000 m². Weekly cultural programme, exhibitions, pop-up activities.

Parking

Main parking route, 3 green parking garages.

Park management

Site- and building-related services.

Campus catering, high quality green maintenance, waste management.

Governance

Campus ownership

- > Wageningen University & Research /multiple private owners.

Decision makers/decision-making process & management

- > University site: Wageningen University & Research (both initial point of contact for interested companies, contracts and management).
- > Business & Science Park Wageningen: multiple private owners, BSPW organisation.

Commitment & support

Wageningen University & Research, Municipality of Wageningen, Province of Gelderland, Oost NL, NIOO-KNAW, Aeres University of Applied Sciences, Business & Science Park Wageningen (BSPW), Kadans Science Partner, Foodvalley 2030.

Buildings

Education and Research	ca. 320,000 m ²
Company buildings	ca. 210,000 m ²
Housing (students)	ca. 80,000 m ²
> On campus (incl. BSPW)	2,100 units
> Off campus (excl. private market)	6,000 units



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Connectr - Energy innovation

Impression of the Connectr Innovation Lab

Profile

2030 is tomorrow. The energy transition needs to take leaps in scale, calling for accelerated application and scale-up of innovations. Connectr serves this need by focusing on the electrical grid, storage and mobility. Innovations are tested and put into practice directly at Connectr, and grow from there. We are creating sustainable solutions by making an impact on both the energy transition and the (regional) economy, and by linking human capital to technology. Whether it is human capital, technical support, finding the right partners, financing, communication, legal knowledge, lab and office spaces or demo and test facilities: Connectr helps to fill in the missing link. In that way, we are prepared for tomorrow.





Infrastructure

Railway stations

- > Arnhem Centraal
4.2 km - 22 min by bus
- > Westervoort
3.2 km - 31 min by bus

Airport

- > Weeze
65 km - 1 hr by car
- > Eindhoven Airport
87 km - 55 min by car
- > Schiphol
116 km - 1 hr 15 min by car

Motorway

- > A12
3.5 km - 13 min by car
- > A50
10.5 km - 18 min by car
- > A15
14.5 km - 22 min by car

Digital infrastructure

- > Fiber, Wi-Fi and fully broadband

City Centre

- > Arnhem
21 min by bus - 8 min by car -
14 min by bicycle
- > Nijmegen
1 hr 19 min by bus - 25 min by car -
1 hr by bicycle
- > Wageningen
1 hr 12 min by bus - 33 min by car -
1 hr 10 min by bicycle



Area
900,000 m²

Building capacity
18,000 m²

Development space
9,000 m²

Companies
building up to 90

Jobs
450

Students
**200 per day
on average**

Connectr

Long-term vision

Connectr is the concentrating, connecting, and accelerating factor in energy innovation. The ambition is to do it so well that the research, education, and business innovation will turn the region into a European hotspot. And to attract European co-investment in the solutions developed in the region.

Connectr consists of an Innovation Program, an Innovation Lab and Shared Facilities. It focuses on three key technologies, that are already developing strongly in the region and that will add value at an international level. These are:

1. Power systems engineering: generating, transmitting, and distributing electrical energy.
2. Electrochemical energy storage: storing electrical energy in chemical energy.
3. Sustainable propulsion systems: developing stationary and mobile drives with zero or very low emissions.



Students in the HAN H2 Lab.



Cleantech community on Industry Park Kleefse Waard, where Connectr is housed.

Open Innovation Strategy

Everything developed within the Connectr location (the Innovation Lab) is open access. Involving education makes open access essential – educational institutions must be able to play a role in every program initiated within Connectr. To make the leap in scale required for the energy transition, open access is desirable – we get further by sharing knowledge and experiences.

The Shared Facilities are available for everyone that has a need for acceleration and scale-up.

Parties aligned with Connectr (but not established in the Innovation Lab) can develop their own commercial activities in private if they wish, according to their own intellectual property guidelines.

Connectr is the concentrating, connecting and accelerating factor in energy innovation. The ambition is to do it so well that the research, education, and business innovation will turn the region into a European hotspot.

World-class Research Institutes

- > HAN University of Applied Sciences
- > Radboud University
- > Intensive cooperation with the technical universities in the Netherlands; principally with the TU Delft.
- > Also, world-class commercial research institutes such as KEMA Laboratories, and the European test facilities of Elaad NL are located at Connectr. Collaboration with these kinds of institutes will increase in the near future.

R&D Focus

Connectr focuses on 3 program areas:

1. **The electrical grid as connector.** Ensures that the electrical grid can fulfil its key role in sustainability (integrating sustainable sources and new uses, sector coupling) now and in the future.
2. **Energy storage as a flexible buffer.** Developing and implementing efficient systems for electrochemical energy storage and applications of this within a sustainable energy system.
3. **Smart and green drive technology.** Ensures that innovative drive technology based on sustainable fuels, possibly combined with electric drive components, offer solutions in the energy transition.

Shared R&D facilities

- > Elaad Testlab: a European e-mobility test and charging center.
- > HAN H2 Lab: designing and testing a hydrogen energy storage system.
- > HAN Hydrogen Mobility Lab: smart ways to use hydrogen in mobility.
- > H2 Fieldlab: a location for hydrogen demo applications.
- > H2 backbone: allows companies to use the exact amount of hydrogen as needed.
- > KEMA Powerlab: a unique state-of-the-art testing facility for validating and testing of power electronics.

Start-up facilities and programmes

The region has decided to locate all facilities for energy start-ups within Connectr. Housing, shared facilities, guidance, finance and investments programs and port programs will all be located in and around the Connectr Innovation Lab.



The Allego Charging Plaza at IPKW is also a meeting place.

Connectr

Sustainability

The park where Connectr is established – Industry Park Kleefse Waard (IPKW) – is one large testbed for sustainability. Here, we are working hard to make energy flows more sustainable. We research circular energy solutions and the use of local raw materials and fuels. ‘Waste’ at the park is separated as much as possible for collection and recycling into new products and raw materials. Also, the park has already been used for many years as a location for developing electric cars and hydrogen solutions for mobility. Finally, the park and buildings are (re)designed in a sustainable manner. The ambition is to become and remain the most sustainable business park of the Netherlands.

Remarkable sustainability achievements

Connectr aligns with the IPKW goals to use only locally-generated sustainable energy on campus by 2050. We will achieve this by:

- > generating renewable energy locally on a large scale through a wind turbine (8,500 MWh per year), 27,000 solar panels (6,700 MWh per year) and a small biomass boiler (14.9 MWth).
- > providing efficient and large-scale storage of sustainably generated electricity (to resolve fluctuation in supply and demand) using hydrogen, batteries and car batteries.
- > generating and utilizing heat and steam in a variety of ways (or exploring opportunities to do so), such as through wastewater treatment, cooling water, waste heat, PVT panels, hydrogen and geothermal energy.
- > continuously working on new ideas and innovations in the sustainable energy sector.



Part of the Connectr Innovation Lab

Community services & facilities

With a wide range of facilities, the IPKW campus encourages and facilitates a vibrant cleantech community. Meeting and sharing knowledge are key themes as exemplified by De Waard restaurant, in-house Technical Services, free boot camps and a shared electric car. Events, meetings and product launches are also organized at the park regularly. This all contributes to a special place, bursting with history, where we work on the energy campus of the future.

Leisure

- > Restaurant and catering
- > Free boot camp twice weekly
- > 100+ events per year
- > Walking routes
- > Open Days

Parking

- > 1,374 free parking spaces for cars, including plenty of charging points for EV and hydrogen vehicles
- > 432 parking spaces for bicycles

Park management

- > Site related services:
 - > Shared electric cars
 - > Shared electric bikes
 - > H2 backbone
 - > 150 charging points for EV, including multiple fast charging points
 - > Hydrogen fueling station
 - > Test facilities for EV
 - > Test facilities for hydrogen
 - > Various utilities, including steam at various pressure levels up to 100 tons p/h, natural gas, network management, various grades of water, compressed air and wastewater treatment.
 - > 24/7 security
 - > Central reception
 - > Park management
 - > Waste management
 - > Technical services
 - > Weighing bridge
 - > Landscape maintenance



Building related services:

You can be a part of the Connectr Innovation Lab (and all of the facilities and networking opportunities) with as little as 1 desk space - as long as you're active within one of the key technologies and have ambition to accelerate the energy transition.

- > Shared office
- > Meeting rooms
- > Demo rooms
- > Offices
- > Lab space

Governance

Connectr is a non-profit organization.

Commitment & support

Connectr is supported by: Gemeente Arnhem, Provincie Gelderland, HAN University of Applied Sciences, Industriepark Kleefse Waard, Kiemt and Oost NL.

Buildings

The entire campus comprises 92 different companies (excluding the parties located within the Innovation lab). Many of these companies work on clean technologies and contribute to synergy with the parties within Connectr. There is still space for a few businesses to set up within the existing buildings and there is still space for development in some areas of the campus.

Student housing is a future plan. Because there is sufficient student housing in the area, this will be not included in the plans for the coming 5 years.



HAN hydrogen vehicle

CONNECTR

energy innovation

Contact

Connectr - Energy innovation
 Jeroen Herremans
 Director

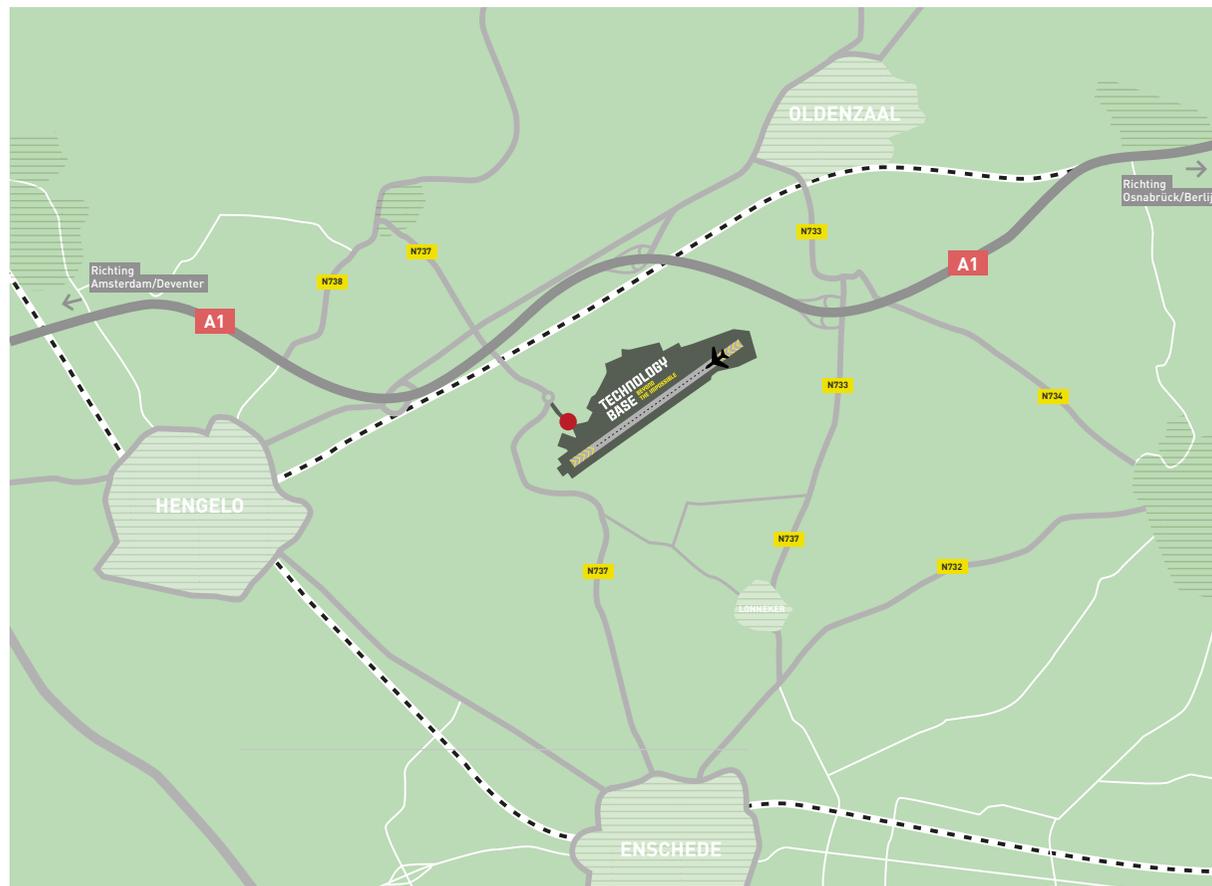
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Technology Base

Profile

Technology Base is situated on the former military airbase in green surroundings in the centre of the triangle Enschede, Hengelo and Oldenzaal – and close to the German border. Technology Base is one of Twente's innovation hotspots. Together, we are helping to position Twente as a region with 'smart impact'. Technology Base is an experimentation hub for innovative companies who want to develop, test and simulate new concepts and ideas. The civil airport Twente Airport is situated on Technology Base. The organisations at Technology Base form part of an ecosystem of high-tech companies, academic institutions and public-sector organisations. It is an expansive site offering unlimited opportunities for testing manned and unmanned aircraft, autonomous systems and concepts related to advanced materials & manufacturing and safety & security.





Infrastructure

Railway stations

- > Enschede Central Station
8.7 km - 15 min by car - 26 min by bicycle
- > Hengelo Central Station
9 km - 15 min by car - 22 min by bicycle

Airport

- > Twente Airport
0 km - 0 min by car
- > Münster-Osnabrück
88 km - 1 hr by car
- > Schiphol
166 km - 1 hr 50 min by car - 2 hrs by train

Motorway

- > A1
2 km - 3 min by car

Digital infrastructure

- > Fiber, Wi-Fi and Park fully broadband

City Centre

- > Enschede
13 min by car - 26 min by bicycle
- > Hengelo
12 min by car - 22 min by bicycle



Area
2,200,000 m²

Building capacity
124,000 m²

Development space
250,000 m²

Companies
11

Jobs
in development

Technology Base

Open Innovation Strategy

The site has various facilities for testing and training related to manned and unmanned aerial systems or concepts and scenarios related to safety & security. It also offers plenty of scope for prototyping, production trials and industrial research. The companies at Technology Base collaborate on the development of Technology Base in Twente in conjunction with the following strategic partners: University of Twente (UT), TPRC, Fraunhofer, Saxion University of Applied Sciences and ROC of Twente.

Technology base is the ideal location for businesses that are looking for a hub for development, testing, training and experimentation.

R&D Focus

Technology Base offers you the opportunity to develop and test your products or systems in the privacy of a secluded environment. The site comprises various indoor and outdoor areas for exercises and drills, training and scenario simulations.

Technology Base is a unique location for performing high-risk activities. It gives you all the space you need for large-scale tests, training and simulations.

Safety and security are guaranteed in the privacy of the secluded surroundings. The various types of outdoor spaces are used to test technology under extreme weather conditions, to test unmanned systems or to train large groups of people, for example.



Watertest PH-LAB NLR Twente Airport - Copyright Remco de Wit

Shared R&D facilities

Technology Base is a secluded area with various indoor and outdoor testing facilities where privacy, safety and security are guaranteed. It is the ideal location for business that are looking for a development, testing, training and pre-production site.

- > Various outdoor test areas
- > 10,000m² of indoor test facilities available right next door
- > Secluded environment
- > 3 km-long runway

Battery Safety Lab (Safety Centre)

- > Living labs where smart ideas can be tried out in real life
- > Opportunities to test experimental drones

Artist Impression of new construction development



Sustainability

The former F16 shelters include sustainable solutions for climate control and waste water. The heating system is based on an air-to-water heat pump. An on-site sewage facility (OSSF) has been installed to treat the waste water. The OSSF purifies the waste water and then allows it to dissipate into the soil.

Twente Airport

Twente Airport is part of Technology Base. This ensures excellent air links between the eastern part of the Netherlands and the rest of Europe for aviation-related companies and business travellers alike. Accessibility is an important consideration, especially for internationally oriented businesses based in Twente. Twente Airport connects the East Netherlands with the rest of the world.

Technology Base is an experimentation hub for innovative companies who want to develop, test and simulate new concepts and ideas.

Twente Safety Campus



TECHNOLOGY BASE BEYOND THE IMPOSSIBLE

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World Food Center

Profile

Everything revolves around food at the World Food Center: the ultimate food meeting place in the Netherlands. On the edge of the Veluwe, a dynamic new urban district is emerging at the former barracks site in Ede, where people live, work and experience. It is where we are creating an optimal and high-potential business climate for innovative (agri)food businesses, organizations and knowledge institutions who strive to work together on a healthy future for people, planet and profit: We Work Food.





LEGENDA

- | | |
|-------------------------|--|
| 1. FRISOKAZERNE | 9. SMOOK EN SMAAK |
| 2. MAURITSKAZERNE | 10. MIDDENTERREIN |
| 3. FRISOPARK | 11. VOETGANGERSTOEGANG NS STATION EDE-WAGENINGEN |
| 4. KETELHUIS | 12. FIETSINGANG KLINKERBERGERWEG |
| 5. APPËLPLAATS | 13. AUTO-INGANG NIEUWE KAZERNELAAN/EIKENLAAN |
| 6. STINGERBOL | 14. SMAAKPARK |
| 7. ROOTS INNOVATION HUB | 15. BANANENKAS NEDERBANAAN |
| 8. STORMBAANBOS | 16. WONINGBOUWVELD VELUWSE PROEFTUIN |

Area
280,000 m²

Building capacity
15,400 m²

Development space
50,000 m²

Companies
50

Jobs
500

Infrastructure

Railway stations

- > Ede-Wageningen
0 km

Airport

- > Schiphol
90 km - 60 min by car
- > Rotterdam The Hague
100 km - 1 hr 15 min by car
- > Eindhoven
86 km - 1 hr 5 min by car
- > Weeze
85 km - 1 hr 10 min by car

Motorway

- > A12
5 km - 10 min by car
- > A30
7,5 km - 13 min by car

Digital infrastructure

- > Glass fiber, Wi-Fi and Park fully broadband

City Centre

- > Ede: 2 min by car - 7 min by bus - 5 min by car
- 15 min by bicycle
- > Wageningen: 20 min by bus - 20 min by car -
30 min by bicycle
- > Arnhem: 35 min by bus - 25 min by car
- > Utrecht: 30 min by train - 50 min by bus -
41 min by car
- > Amsterdam: 58 min by train - 75 min by bus -
41 min by car
- > The Hague: 75 min by train - 90 min by bus -
72 min by car



World Food Center

Long-term vision

The former Maurits Zuid barracks in Ede are transformed into the ultimate food meeting place in the Netherlands – the heart of the Foodvalley region, with Wageningen University & Research just a stone's throw away. This area will be a hotbed of interaction between businesses and consumers, with the crowd-pulling World Food Experience. The World Food Center is where new products, concepts and services are developed, tested and marketed. As a result, the efforts related to solving our food problems also bring plenty of economic opportunities.

Open Innovation Strategy

We strive for profit on all fronts. We work together to achieve financially healthy businesses as well as a sustainable future for food. Anyone who (in)directly contributes to a healthier and more sustainable food system is welcome to establish themselves here. The World Food Center is the perfect microclimate for businesses and organizations from any segment of the food industry. From start- this inspiring environment connects businesses, business service providers, trade associations, knowledge institutions and educational institutes.

There are short lines to various renowned educational and research institutes, so that businesses at the World Food Center can count on a hive of young talent and experienced professionals. The World Food Center offers talents an amazing environment to grow. Who wouldn't want to work in a place as inspiring as this? The Veluwe's expansive nature as a backdrop and the former barracks as a reminder of a rich past.

Start-up facilities

ROOTS Innovation Hub offers affordable business premises and flexible terms. Already 30 start-ups and scales-ups have settled in the former barracks of ROOTS. With the presence of various renowned educational and research institutes, and the connection with the World Food Center community network, ROOTS offers a great environment for start-ups to grow their dreams and businesses.

Sustainability

World Food Center has a durability vision policy. The location encourage new-mobility solutions; shared cars, public transportation, electrical vehicles and charging-points.

The new developed buildings are made mostly in wood (co² storage) and are powered with renewable energy (solar panels and heat pumps). The new buildings have a high sustainability label (BREEAM).

The area is developed with great care for nature. The location is adjacent to the biggest national park of The Netherlands called the Veluwe.

Community services & facilities

The World Food Center offers a unique surrounding with the Veluwe's expansive nature as a backdrop and the former barracks as a reminder of a rich past. All this serves to create an appealing, vibrant work environment that attracts new generations like Millennials & Gen Z. the green surroundings are embraced in the architecture and interwoven with public spaces.

Artist Impression of the Hub at the WFC Experience



Leisure

Several indoor and outdoor event locations for congresses, meetings or festivals.

Parking

Wide range of free parking spaces.

Park management

In the near future there is the following planned:
Park restaurant, Hotel/congress, Gym, Child daycare, Convenience store, outdoor activities.

Building related services

- > Cleaning
- > Maintenance

Governance

The World Food Center area is being developed by the Ede municipality and WFC Development B.V., a collaboration between BPD (Bouwfonds Property Development), Green Real Estate B.V. and Van Wijnen Groep N.V.

Company buildings

- | | |
|---------------------------------------|----------------------|
| > The Friso building | 6,000 m ² |
| > The Maurits building | 6,000 m ² |
| > The new office development on lot C | 7,000 m ² |
| > ROOTS Innovation Hub | 3,400 m ² |



World Food Center

WORLD
FOOD
CENTER

*We feed
each other*

Creating an optimal and high-potential business climate for innovative (agri)food businesses, organizations and knowledge institutions who strive to work together on a healthy future for people, planet and profit: We Work Food.



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East Netherlands
Development Agency

