



Brainport Eindhoven Europe's top technology region

Expertise, networks and talent clustered
on five campuses



**BRAINPORT
EINDHOVEN**

Brainport Eindhoven,

#1 top technology region

Brainport Eindhoven, situated in the south of the Netherlands, is Europe's most innovative technology region. In Brainport the smartest minds and most skilled workers collaborate on developing innovations that make our future better, safer and cleaner. The region is known for its innovative strength and multi-disciplinary way of working. Companies and organizations excel at inventing, developing and integrating world's most complex high-tech machines, systems, components and products at utmost precision and with unprecedented accuracy. Brainport Eindhoven has the world's highest patent density per capita and above average private R&D expenditure.

When working together, there are no boundaries. Companies in all sorts and sizes, knowledge- and educational institutes and governmental organizations are connected when it comes to realizing ambitions through technological innovation. They help each other discover, grow and move forward while achieving the seemingly impossible.

By choosing for Brainport Eindhoven for your business you join a complete and unique technology ecosystem that consists of OEM's, SME's, suppliers, contract manufacturers and knowledge institutes that cooperate closely and have access to physical and fiscal facilities for cost-efficient development. Because of this joint innovation companies in Brainport market their products, parts or systems within a considerably shorter period of time at competitive costs.

Key-technologies and markets

Brainport's unique high-tech competences and strong cooperation between industry, educational and knowledge institutes and governments, have turned the region into what it is today. A prosperous region where breakthrough technologies are developed that shape tomorrow's society. Collaboration continues to be the main recipe for the future. Together, companies and organizations ambitiously work on enriching and strengthening the region. Targeted investments in and development of key-technologies and markets are essential in maintaining Brainport's leading global technological position.

On the next page you'll find an overview of the key-technologies and markets of Brainport Eindhoven.



World-class Systems Engineering and Design

Thinking as a starting base Companies in Brainport Eindhoven are able to develop unique solutions for the most complex challenges in high-tech markets due to strong competences in Systems Engineering and Design Thinking. Because of the heritage of Philips - developing complex machines in open environments - companies and people in Brainport Eindhoven nowadays excel in collaboration and multidisciplinary thinking. Global OEMs like ASML, NXP, Thermo Fisher Scientific, VDL, Philips and Additive Industries, value-added suppliers and world-renowned institutes like the Eindhoven University of Technology (TU/e) and the Holst Centre are taking a multidisciplinary approach to design solutions for global challenges. The open innovation environment that is facilitated on campuses enhances these solutions through the proximity of different types of people, teams and companies. By bringing together different disciplines, combined with a systematic way of working in developing a product, system or process, Brainport Eindhoven offers an ecosystem where new technologies and solutions for complex challenges are successfully brought to market.

Open innovation and co-creation on and between campuses

In Brainport Eindhoven technologies and networks are clustered on five campuses in order to create economic value and facilitate business development. Each of these campuses houses an ideal mix of companies, talents and educational and knowledge institutes each with a specific expertise. They collaborate on inventing, developing and producing tomorrow's technologies. At the campuses knowledge, experience, world-class research facilities and technical infrastructure are shared in an open innovation setting. Collaboration and spontaneous and orchestrated meetings are stimulated by events, social activities and more.

Collaboration and crosspollination on and between campuses

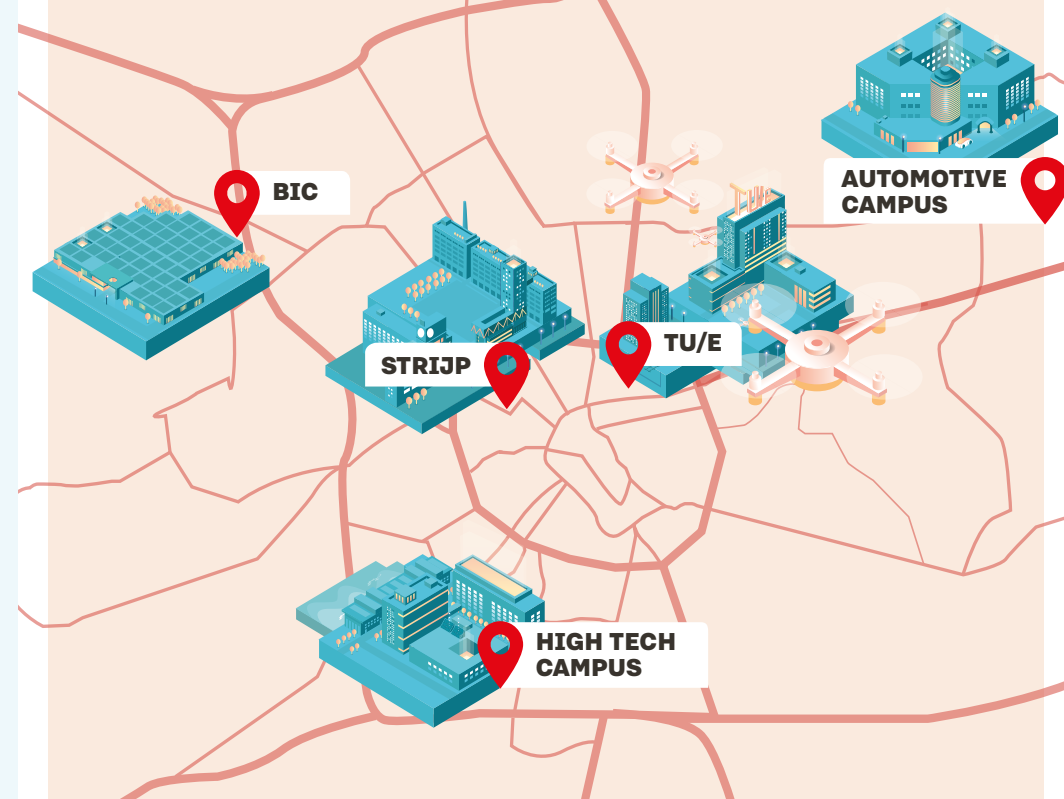
All campuses are located in a relatively compact geographical area and together they form a value chain that covers all technology readiness levels. The campuses work together to actively enhance Brainport Eindhoven's business climate. By creating an excelling physical infrastructure and offering efficient public transport between the campuses and main transportation hubs crosspollination, collaboration and co-creation happen in a spontaneous way. Sharing knowledge leads to multiplying knowledge.

Campuses accelerate the development process and speed up time to market

Through the different technology readiness levels, the campuses form a value chain which supports companies in their growth. As each of the campuses has its own focus areas and expertise, the value chain enables companies to go through the process from idea at the drawing table to marketing and manufacturing their products within an unparalleled amount of time. The region offers companies and organizations all ingredients needed for turning bright ideas into value for business and society. Moreover, the campuses support the various phases of growth that a technology company goes through. Start-ups find an ideal environment on the TU/e Campus where there is lots of support for companies that want to turn science into technology, because of the synergy between research, knowledge and business development. Companies that are in the scaling-up phase can find excellent housing on either the High Tech Campus Eindhoven, Strijp District or Automotive Campus. Each of these campuses offers access to valuable networks, shared facilities and best-in class talent. When it comes to expanding production and looking for access to top manufacturing technologies, Brainport Industries Campus is the place to be.

CAMPUS ECOSYSTEM

INNOVATION, RESEARCH, DESIGN, TALENT, MAKE AND CREATE



Access to an exceptional (future) talent pool

Building a winning business is all about having access to exceptional talent. At the campuses a (future) talent pool is always within reach. At High Tech Campus Eindhoven alone, one finds over 12,000 highly qualified people who are best-in-class in their field. Another 50,000 high-tech professionals work on the other campuses or in the near vicinity. Moreover, most of the campuses cooperate with or house educational institutes at all levels varying from vocational education to university level. Take the Automotive Campus in Helmond for example, where over 600 automotive students learn and put their knowledge into practice.

The presence of educational institutes on the campuses leads to continuous high-tech educational curricula and cross-pollination between education and industry. The industry helps defining the curricula, in order to educate the talent that is needed in the industry. The educational institutes provide an ongoing flow of interns and highly skilled professionals for the companies on the campuses and the region. These professionals have the mindset of Brainport: working multidisciplinary with open innovation in mind. Established companies and young talent challenge each other to come up with boundless ideas by out of the box thinking.

Five unique campuses

TU/e Campus education and innovation

The beating heart of TU/e Campus is Eindhoven University of Technology (TU/e), a world class university known for its research collaborations with the top 500 innovative companies globally and its high number of co-publications with industry (Times Higher Education World University Ranking, 2017 and CWTS Leiden Ranking, 2019). TU/e campus offers a unique mix of young talents, innovative knowledge and research institutes and high-tech companies. It is where science meets business.



High Tech Campus Eindhoven turning technology into business

High Tech Campus Eindhoven is the smartest km² in the Netherlands with more than 230 companies, startups and institutes. Some 12,000 researchers, developers and entrepreneurs work on developing future technologies and products. Focus areas of HTCE are Health & Vitality, Sustainable Energy & Storage, Software & Platforms, Applied Intelligence, Smart Environments & Connectivity. The ecosystem of open innovation helps campus-based companies to accelerate innovation, by offering easy access to high tech facilities and international networks.



Brainport Industries Campus sustainable, advanced manufacturing

Brainport Industries Campus is where the innovative and competitive force of high-tech manufacturing is accelerated. Brainport Industries Campus is the first location in the world where high-tech suppliers not only produce but also innovate together while sharing knowledge and valuable facilities such as flexible production areas, warehouses but also offices. The campus is ideal for technical suppliers in the high-tech manufacturing industry who want to do business and innovate and produce together.



Strijp District smart city, creativity

Strijp District is the creative, design and innovation district of the city of Eindhoven. It is where design meets technology and its users. In the area cultural and social innovation, design, creative entrepreneurship, and education come together. Strijp District offers room for living labs and all sorts of (social) experiments that lead to innovation.



Automotive Campus new mobility

The Automotive Campus is the Dutch center of gravity in the field of automotive technology and smart and green mobility. It offers an attractive learning and working environment, state-of-the-art technological (test) facilities and flexible accommodation concepts. Automotive Campus is where automotive technology and smart and green mobility solutions come to live.



Eindhoven University of Technology TU/e Campus Education and innovation

Eindhoven University of Technology (TU/e) is a leading university in science and technology. With an open eye for global developments, TU/e is an internationally defining academic institute at the forefront of science and technology. It educates the engineers of the future who combine in-depth knowledge about technology with the skills to address global societal challenges. TU/e-campus is both a physical and a virtual place: a living lab that connects people with each other and the world. The campus is home to over 150 businesses and welcomes more than 15,000 people every day.

Where science meets business

The lively campus community facilitates connections between brilliant minds, in an open, friendly and vibrant environment that welcomes, inspires, motivates and supports. With its central position in the hearth of Brainport Eindhoven, TU/e stands out when it comes to collaborating with advanced industries. Students, staff and companies on TU/e Campus form a thriving ecosystem with one common goal: to improve quality of life through sustainable innovations.

Vision and strategy

TU/e-campus is a place of national significance and international allure, with state-of-the-art research facilities that offers plenty of scope for R&D-driven (start-up) companies. The campus stimulates open, multidisciplinary innovation processes. It collaborates closely with other universities, scientific institutes, social organizations, government, and industry.

The ambition of TU/e campus is to develop an ecosystem around TU/e that is geared to sustainable collaboration with small and medium-sized companies (SMEs) and global enterprises. If research results are adopted by business and industry and converted into actual products, knowledge adds value.

For successful collaboration, TU/e campus is the place to be. TU/e continues to hold its position at the world top when it comes to research collaboration with industry. According to the CWTS Leiden Ranking 2019, TU/e publishes almost 16% of its publications together with one or more industrial partners, making it the first 'broad' technical university in the world in terms of combined research with industry.

Focus areas - R&D and Innovation

Innovation accelerator Eindhoven Engine was founded in 2019 to speed up the innovation process in Brainport Eindhoven through challenge-based research in its public-private research facility at TU/e Campus. Brainport's most talented researchers from industry and knowledge institutes and students cooperate to deliver breakthrough technological solutions that are relevant and valuable to society. Both government and industry co-invest in these joint projects.

Some of TU/e Campus' focus areas are:

- Artificial Intelligence
- Smart Mobility
- Energy
- Engineering Health
- Integrated Photonics
- High Tech Systems
- Data Science
- Humans and Technology
- Smart Cities

Sustainability – goals & results

At TU/e Campus, sustainability is actively integrated and combined in education, research and business management. In the next ten years, the focus will be on five themes that tie in with the qualities and culture of TU/e Campus:

- Smart and Green Mobility;
- Abundant, Clean Renewable Energy;
- Circular and Restorative Resources;
- TU/e Campus as a Green Oasis; and
- Creating a Vibrant, Vital Community.

Main objectives

- Only use and facilitate means of transport that are fossil fuel-free, efficient and from renewable sources;
- Fifty percent energy neutral in 2030;
- All products used by the TU/e fit into a circular process and are free from substances that harm people or the environment;
- The campus is a green oasis designed to connect with abundant native flora and fauna and contributes to a healthy environment with clean air and fertile soil where people like to hang out;
- Our vibrant campus cultivates a culture of compassion, well-being and equity, and we facilitate a healthy and active lifestyle.

Remarkable sustainability achievements

- The development of the most sustainable educational building in the world, Atlas, with a BREEAM Outstanding score of 96.01%;
- Winning the SustainaBul for being the most sustainable higher education institution in the Netherlands in 2018 and 2019;
- Having one of the biggest heat exchange systems in Europe.

EINDHOVEN UNIVERSITY OF TECHNOLOGY (TU/E CAMPUS)

FACTS & FIGURES

Area in m2:
750,000

Development
space in m2:
200,000

Total number
of companies: **157**



High-profile companies:


DIFFER, GE Healthcare, Ioniqa, Preceyes, Xeltis, TUSTI, STENTiT, Angiogenesis Analytics, Hybrid Catalysis, Level Acoustics & Vibration, Cellcius BV, Helia Biomonitoring BV, Taylor Technologies BV.

 **90**
STARTUP
COMPANIES

 **JOBS**
ON CAMPUS
8,300

 **SME 50**
COMPANIES

 **LARGE 17**
ENTERPRISES

 **13,000**
TU/E
Students

 **7,280**
FONTYS & SUMMA
College students



Knowledge institutes:

DIFFER, Institute for Complex Molecular Systems (ICMS), Institute for Photonic Integration, High Tech Systems Center, Data Science Center, GE Healthcare, Eindhoven Engine, Eindhoven Artificial Intelligence Systems Institute (EAISI), Eindhoven Institute for Renewable Energy Systems (EIRES)

Startup facilities and programs:

Entrepreneurship and valorization are very important to TU/e Campus. At the campus theories and promising technological concepts are turned into projects and products with direct impact.

Within The Gate, the entrepreneurial student community at the campus, students are advised to start their own company. It offers an incubator program for talented students and researchers.

Another initiative to stimulate entrepreneurship is TU/e innovation Space. It is a community and facility that supports hands-on, interdisciplinary education, engineering design and entrepreneurship. Students learn to deal with complex societal and industrial challenges, create prototypes and develop innovations in collaboration with researchers, businesses and each other.

Students with promising valorization opportunities can compete in the annual TU/e Contest. Every year since the first edition back in 2015, the TU/e Contest has offered students the opportunity to further develop their own

ingenious ideas, prototypes and research projects into Minimal Viable Products and business plans.

Student teams have a special place within stimulating entrepreneurship for students. TU/e regards these teams as an excellent opportunity for entrepreneurial students to further develop themselves, as the work within the team provides both subject content and organizational challenges. These teams perform research that creates impact for companies. This collaborative mindset makes these student teams unique in the world.

Community services and facilities:

Eindhoven University of Technology offers a vast library for students, several F&B accommodations, car rental, hair salon, daycare center, employment agency and a multiple supermarket. Community services are mainly based around students. There are many student associations, disputes and three students' corps. Additionally, the campus offers room for cultural associations with focus on sports, dance, drama, music, photo/film and debating.



Student teams
Automotive



Sports and leisure facilities

44,000 m2

The Student Sports Centre offers 70 sports including fitness, indoor pool, outdoor tennis courts, football and hockey fields. Cultural facilities include dance, theater, music, expositions, movies and readings.



Parking facilities

2,000 Car parking spaces, paid
9,500 Bicycle parking places



Digital infrastructure

Park broadband and Wi-fi, Service available



Housing facilities **700**

(student)apartments located on Campus.
Another 700 will be developed the coming 3 years.



Distance to Eindhoven Airport: **10km**

Bus 400 or 401 in 20 min to Eindhoven Central Station + 8 min walking

Description of the services of park management:

Site-related services

Providing full-service amenities like utilities, ATEs (Aquifer Thermal Energy Storage), maintenance of roads and landscaping, campus security and a private fire brigade.

Building-related services

Most of the buildings are connected to a private energy network and a building monitoring system. Additional services are cleaning, garbage disposal, emergency response training, postal service and consultancy for ICT, security, environmental management, etc.

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High Tech Campus Eindhoven

Turning Technology into Business

High Tech Campus Eindhoven is the smartest km² in Europe and houses over 230 companies and institutes and 12,000 researchers, developers and entrepreneurs who work on developing future technologies and products. High Tech Campus Eindhoven helps you accelerate your innovation by offering easy access to high tech facilities and international networks. Campus companies (like Philips, NXP, TomTom, Shimano, Signify, IBM, Intel) strategically decide what knowledge, skills and R&D facilities they share in order to achieve faster, better and more customer-oriented innovation. Located at the heart of Brainport Eindhoven, campus companies are responsible for nearly 40% of all Dutch patent applications.

Vision and strategy

High Tech Campus Eindhoven envisions to be an international, vital & accessible innovation ecosystem. It accelerates the latest technologies, drives partnerships, provides a breeding ground for talent and is a frontrunner in sustainability. Five strategic themes are leading in the campus' updated vision statements and will be executed in its journey towards the 2030 Campus.

Focus areas - R&D and innovation

Strong fundament on high tech and hardware with a new additional focus on software including AI. Examples: Health & Vitality, Sustainable Energy & Storage, Smart Environments & Connectivity, Applied Intelligence, Software & Platforms.



Sustainability – goals & results

The green, park-like character of the site makes High Tech Campus Eindhoven a pleasant working environment and reflects the focus of the Campus on sustainable and environmentally friendly business practices.

Since its establishment, High Tech Campus Eindhoven has been cooperating with environmental organizations, national authorities and other dedicated organizations to encourage sustainable and responsible behavior.

Main objectives

- To conduct the Landscape management with ecological means.
- To design the Campus around sustainability from the ground up. Energy is key (energy consumption is a major concern).

- To increase the percentage of 'green travelers'.
- To engage the Campus Community. To develop sustainable technological solutions for the future.

Remarkable sustainability achievements

- The usage of a large-scale heat exchange system.
- LED lighting is used in all car parks.
- Sustainable real estate (BREAAAM level: very good/excellent).
- The highest density of e-charging points in the Netherlands.
- The introduction of 125 Campus bikes.
- Campus Community Garden.
- Use of cows and sheep at the Campus.

HIGH TECH CAMPUS EINDHOVEN

FACTS & FIGURES

Area in m2:

1,010,000

Development space in m2:

87,500



Total number of companies:

235



High-profile companies:

Philips, ASML, NXP, TomTom, IBM, Signify, Shimano, TNO

80
STARTUP
COMPANIES

JOBS
ON CAMPUS
12,500

SME 50
COMPANIES

LARGE 55
ENTERPRISES

Shared R&D facilities:

- Eurofins Material Science Netherlands: Material Analysis lab
- Eurofins Material Science Netherlands: Reliability Lab
- Philips Engineering Solutions
- Signify Electromagnetic Compatibility & Wireless Connectivity Lab

Knowledge institutes:

- TNO
- Holst Centre
- Imec
- PhotonDelta
- Solliance
- Industrial Technology Research Institute (ITRI)
- Biotech Systems Platform
- 5G Hub
- AI Innovation Center

Amount of students

Fontys University of Applied Sciences, Fontys Consultancy and Fontys InnovationHub Digital Transformation have a location on High Tech Campus and multiple students work on different projects with several companies. High Tech Campus Eindhoven has strategic partnerships with TU/e. In general: a lot of students conduct projects for companies and organizations located at the campus.

Startup facilities and programs the campus offers:

High Tech Plaza

High Tech Campus Eindhoven has always been the ideal location to scale a high-tech startup. The campus is constantly looking for opportunities to grow and develop its ecosystem. Recently early-stage companies asked the campus for facilities that better match their needs. The answer the campus formulated is High Tech Plaza - the ultimate location for scale-ups to build a successful future. Office & Lab space against friendly conditions including power utilities, free parking, free Wifi and superfast web access. Standing on the shoulders of giants in our ecosystem you focus your funds on scaling your start-up.

HighTechXL

HighTechXL launched in 2015 as a high-tech startup accelerator. After six years, more than 60 percent of HighTechXL alumni companies have survived. In 2018, HighTechXL announced the transition from high-tech startup accelerator to a deep-tech venture building effort, more relevant to Eindhoven's ecosystem. We launched three startups based on technologies developed at CERN, the particle research center in Switzerland. All three of those startups - Aircision, Dynaxion and Incooling - have been, by startup standards, home runs, raking in investments, making deals with international corporations and getting global media attention.

Lumolabs

LUMO Labs is a two-year venture builder program that, besides providing preseed and seed funding, actively supports entrepreneurs with a "hands on" approach. LUMO labs' mission is to facilitate a vibrant ecosystem and stimulate cross-pollination between its emerging technology start-ups, with a clear goal to help sustainable business to impact the world. Main focus markets are big data/deep learning, AI, VR/AR/MR, Blockchain and Robotics/IoT (incl. smart mobility). LUMO labs unique program shortens the time-to-market as well as the time-to-(follow up) funding. Good examples of startups they supported are Alphabeats and Fruitpunch AI.

5G Hub Eindhoven

Brainport Development, High Tech Campus, Ericsson and VodafoneZiggo formed a consortium with the 5G HUB located at the campus as its beating heart. At this location possibilities new technologies offer can be researched and tested. The innovative application of these technologies is stimulated. It does not only concern 5G, but also, for example, Artificial Intelligence, Virtual Reality, Augmented Reality, blockchain and photonics. Focus areas are: Business, Entertainment and Health.

Workplace Vitality Hub

Over the last few years, vitality has seen rapidly increasing interest and growing opportunities for businesses. Making people more vital at work has a wide range of beneficial secondary effects, like a feeling of wellbeing, higher productivity, prevention of diseases, better stress management, reduced absence from work, and improved quality of sleep. Fontys University of Applied Sciences, Imec, Eindhoven University of Technology, and TNO have initiated the Workplace Vitality Hub to bring innovation in the field of vitality to the next level.

Community services and facilities:

All social facilities are brought together in The Strip: 8 different restaurant concepts, a conference center with auditorium, a range of shops and services and the Campus Wellness Center. Residents and visitors to the Campus meet at The Strip every day, for lunch, an intensive workout or during one of the many network meetings, concerts or technical conferences. The Strip is the center for meetings, inspiration, and creativity.

Sports and leisure facilities:

Tennis, basketball, football, cricket and more. The Frits Philips Sport Forest facilitates it all. And the best thing is: as a Campus resident you can use these facilities for free. The Campus Wellness Center powered by High Five Health Promotion is an onsite fitness location that is open to all High Tech Campus residents and their partners. The High Five Health Promotion trainers and instructors will support you with a personal fitness profile, individual training advice and coaching during group courses. You can also get nutrition advice, physiotherapy treatments and personal training next to your workouts from one of our professional coaches.

Parking facilities:

Parking is only permitted in the parking garages. Limited parking spaces for loading and unloading of goods and passengers are located at the buildings. There are 84 charging points / charging poles at the Campus.

Digital infrastructure:

Campus ICT is the one-stop point to arrange communication networks (wired and wireless), VOIP technology, managed secure rack space and ultra-fast connections to the rest of the world. Campus ICT understands and manages a wide range of connectivity solutions across the Campus. Experienced teams ensure the highest reliability and security standards are constantly maintained.

Distance to Eindhoven Airport:

In km: 10 km

In minutes: 10 min

Description of the services of park management:

In addition to the general facilities, High Tech Campus Eindhoven also offers building-bound services.

Obligatory collective services

The obligatory collective services comprise an obligatory package of standard services that are supplied to every tenant on the campus. These services are primarily related to the maintenance of the site, energy, safety and security of the buildings and have a collective function.

Optional collective services

The optional collective services are those that are obligatory to receive if the tenant wishes to have that kind of service for its operations in the leased space. These may be services relating to security, safety, hazardous waste, etc.

Optional services

The optional services are the remaining services that are offered by HTCE Site Management B.V. and/or Yask Facilitair Management but are not obligatory for the tenant to receive.

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Automotive Campus new mobility

The Automotive Campus is the national and international hotspot, meeting place and business location for automotive and smart mobility business. The Automotive Campus offers an attractive environment for learning and working, state-of-the-art technology and related (test-) facilities as well as flexible residential concepts. The campus is one of the international hotspots regarding new mobility concepts. Over 750 researchers, developers and entrepreneurs work at over 75 companies and (educational) institutes, developing future technologies and products in an area where mobility, digitalization and decarbonization changes rapidly. They are part of a unique and vibrant ecosystem of established global brands, leading research institutes, fast-growing enterprises, high-tech automotive start-ups and service companies. Also unique is the fact that part of the highway from Helmond to Eindhoven serves as a testing ground for smart mobility developments.

Vision and strategy

With the presence of multinational automotive companies such as Siemens-Tass, VDL, Altran, part of Capgemini Engineering, KPN, FEV, Durapower and world-class research institute TNO, the Automotive Campus forms a vibrant network of open, innovation-minded organizations. Besides, Fontys University of Applied Sciences Automotive uses her location at the campus to let students follow internship and final thesis assignments, next to project work for 3rd and 4th year students. Add to that the fast-growing start-up population, a high level of facilities plus lots of free and paid events and you have the ultimate ecosystem for high-tech automotive companies.

Mission

The Automotive Campus is working on a campus where top technology, top facilities and top talent -students and professionals- concentrate in one place in order to create an open innovation ecosystem where companies, education and PPP initiatives work together on groundbreaking automotive and mobility innovations. Out of the box thinking is second nature. The Campus strengthens and stimulates the growth of the existing SMEs and start-ups. Smart & Connected Mobility, Green mobility Energy & Storage, Data and Smart Environments & Connectivity, are the main R&D focus areas.

Vision

The Automotive Campus is the place where automotive innovation and automotive related engineering in the Netherlands are brought together. Dutch and foreign companies consider the Automotive Campus as a logical and often the only choice for their location. They are drawn to the business climate that consists of an open innovation eco-system with companies and knowledge institutes that have strong relationships, both among themselves and with other companies and organizations in the Dutch automotive ecosystem. Each company within the Automotive Campus shares a common goal: developing new technologies and applications that help solve societal problems and challenges, and successfully bringing these to the market.

At the campus, fast innovation and business development are supported by R&D facilities, collaborative efforts for developing new technologies, IT and HRM support, patent agencies and close connections with investor networks. The presence of educational institutes is seen as a key to success with young, out of the box thinking talented students. Researchers, developers, and entrepreneurs can join existing international networks and innovation projects, led by

leading R&D institutes. This support accelerates the time-to-market for new technologies and helps high-tech entrepreneurs to achieve their goals.

Focus areas - R&D and innovation

As one of world's most important Automotive high-tech hubs, the Automotive Campus is an incubator for economic activity and innovation in the fields of:

- Smart & Connected Mobility (Digitalization)
- Green Mobility (Decarbonization)
- Energy & Storage
- Data and Smart Environments & Connectivity

Nowhere else one finds so many high-quality mobility test facilities and research laboratories in one place. Campus residents and organizations such as TNO, Siemens-Tass International, VDL and Altran, part of Capgemini Engineering, have modern test and research facilities focused on the development of future smart and green mobility technologies. Not only the businesses and knowledge institutes at the campus, but companies and organizations from across the globe come to Helmond to use these test facilities of which some are unique on a global scale.



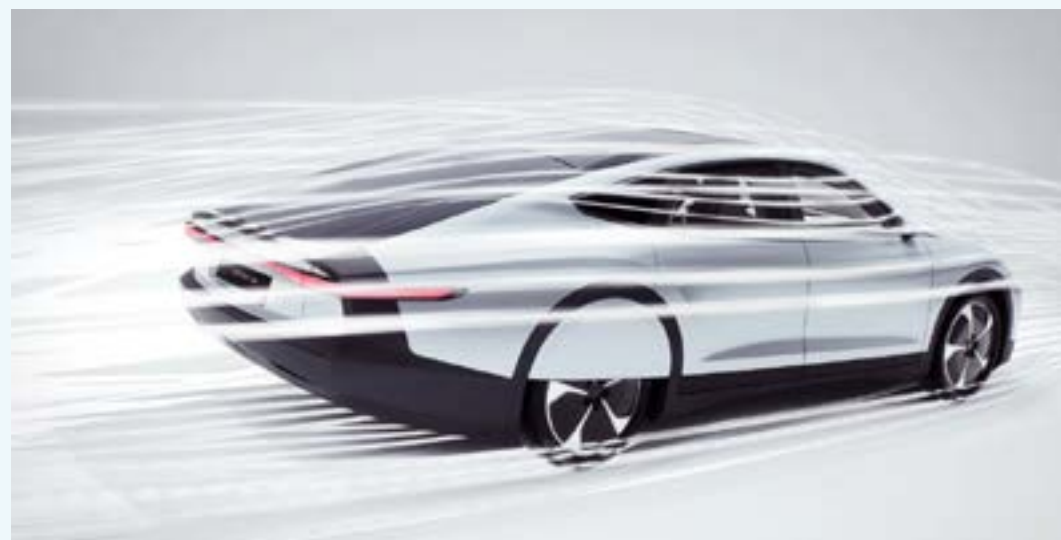
Lightyear

Sustainability – goals & results

The open office, park-like character of the site makes the Automotive Campus a pleasant working and learning environment and reflects the focus of the Campus on sustainable and environmentally friendly business practices. Since its establishment, the Automotive Campus has been cooperating with environmental organizations, national authorities and other dedicated organizations to encourage sustainable and responsible behavior.

Main objectives

- Decarbonization and digitalization / Green and Smart Mobility must be brought to market
- To conduct the landscape management with ecological means.
- To design the Campus with a focus on sustainability.
- To increase the percentage of 'green travelers'.
- To engage the Campus Community.
- To develop sustainable technological solutions for the future.
- High density of e-charging points
- The introduction of E-bikes and green motion, various car sharing mobility concepts.
- Campus Community Central Park.
- Integrate learning and working environments



Green & Smart innovations that change the world of mobility

Green

Alternative fuels. Lightweight materials. Electric motors, fast charging systems. Green mobility is the perfect way for the automotive sector to cut down on CO2 emissions and to reach the climate goals. Especially in Europe, where there are strict CO2-emission regulations, the development of sustainable solutions has the highest priority. The businesses at the Automotive Campus are in the lead, both nationally and internationally. The campus is the starting point for innovations that will change the world of mobility.

Smart

Smart mobility is the solution to make society safer, more accessible, and habitable. Online platforms for shared car usage. Examples are integrated Wifi-points that allow vehicles to communicate with each other and the roads infrastructure. Or tools and algorithms that collect traffic information from social media real time. These are some of the groundbreaking technologies being developed and tested at the Automotive Campus in Helmond. The community offers everything needed to do so: a high level of knowledge, effective partnerships and all the facilities needed for virtual and real-life testing.

AUTOMOTIVE CAMPUS

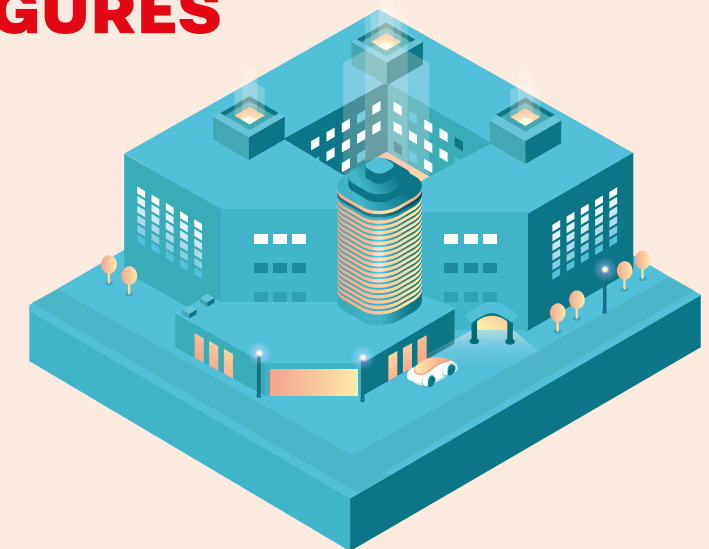
FACTS & FIGURES

Area available in m2:

300,000

Developed so far in m2:

150,000



Total number of companies:

75



High-profile companies:

TNO, Siemens-Tass International, VDL, Altran, part of Capgemini Engineering, Rijkswaterstaat, Delta electronics FEV, Durapower and Lightyear

9
STARTUP
COMPANIES

JOBS
ON CAMPUS
750

SME 55
COMPANIES

LARGE 10
ENTERPRISES

25
TU/E
Students

500
FONTYS & SUMMA
College students

Shared R&D facilities:

The Automotive Campus houses various high-quality technical facilities for a variety of purposes. A number of research laboratories and test facilities form part of the Automotive Campus shared facilities. Some examples are: Power train test center, Climate Altitude chamber, Safety Center (Full scale crash testing, inverse crash sled, road furniture, vehicle dynamics) ADAS testing, Automated driving validation, International mobility center, Rolling road test benches, Hydrogen fueling station, Traffic innovation center and the A270 test track in front of the campus.

Knowledge institutes:

- Open Innovation: TNO in the field of Smart Connected and autonomous driving technologies
- ICADI: Integrated and connected automated driving institute. An independent research organization that was founded in 2017 on the initiative of Tom-Tom, NXP, Eindhoven University of Technology, VDL
- Battery Competence Center
- European Institute of Technology and Innovation KIC Urban mobility: A European initiative that acts to accelerate positive change on mobility to make urban spaces more liveable.
- Eindhoven University of Technology (TU/e) automotive related student teams
- TNO test center
- Solar Energy Competences, IM Efficiency and Lightyear
- DITSS
- Fontys University of Applied Sciences

Amount of students:

The automotive campus approach is distinctive when it comes to collaboration with students. Besides individual students, various student teams are present at the campus and graduated students choose to establish their start-up at the campus. This results in a dynamic, attractive future talent pool.

- Master / Bachelor (University) various student teams: 25 students
- Fontys bachelor (HBO) around 150 students
- Summa vocational (MBO) 350 students

Startup facilities and programs the campus offers:

A close cooperation between the Automotive Campus (AC) and Shift2Start (S2S) offers ambitious startups and scale ups facilities, means and management support covering all phases of development to become a successful company, from idea to prototype to market.

S2S supports startups and scale ups with an individual customized (!) management program consisting of a quick scan analysis, strategy and business planning, financial engineering and finally the company setup.

During this process the AC offers soft landing accommodations and facilities to start-ups and scale -ups from incubator offices up to work-shops and lab facilities.

Campus Partner Flex Program (soft-landing)

Kick-start your automotive ambitions and contact the campus for a special partnership offer. In a trial period of just two months, the Campus Partner Program will arrange a unique, full-service, intensive introduction program for international companies by providing a free workplace and connecting you to all relevant parties in the successful Open Innovation network.

Community services and facilities:

Seminars, workshops, network events, multi-day test fests, meetings, and other events that promote the sharing of knowledge and working together. The Automotive Campus hosts around 600 activities a year. Businesses, knowledge institutes, educational institutes, governments, and parties from all kinds of sectors come together and get inspired by one another and by the innovations that are created, developed, and tested at the campus. It's a place where many special partnerships between global leading players are formed.

The campus has a variety of halls, exposition spaces, an auditorium, and conference rooms, outfitted with audio-visual equipment and on request supporting businesses such as event planners, caterers, sound technicians, and stage and tent builders.

Description of facilities:

The campus has a shared park outside which is a green central meeting point. You can have lunch, receive your guests or drink a cup of coffee in the excellent restaurant at the Automotive Campus. There is also a Meet & Greet section, a separate room with a bar.

Parking facilities:

over 500 free parking places

Description of the digital infrastructure:

World-class, located in one of the best fiber optic networks in the world. Prepared for 5G, with high capacity redundant electricity.

Distance to Eindhoven Airport:

In km: 20 km

In minutes: 30 min

Services of park management:

Park management, facility management, reception, copy/print, cleaning/waste and vending services

Contact details

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www.automotivecampus.com

Contact person:

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Address of the campus:

Automotive Campus 30,
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Strijp S, T and R: the creative heart of Brainport Eindhoven

The Strijp District is situated on the former Philips site right at the center of Eindhoven. It is a unique and innovative district, which offers a combination of working, living, learning and leisure opportunities. It is a perfect place for creative and entrepreneurial people to cooperate and meet at startups, scale ups and in their free time. The Strijp District is divided into three sub areas: Strijp-S, Strijp-T and Strijp-R.

Vision and strategy

With its own train station, a direct bus route to Eindhoven airport and easy access to several highways, Strijp District is truly the heart of Brainport Eindhoven. The creative heart, that is. The people of the Strijp District are creative entrepreneurs who are working in the art, media, design and/or manufacturing industry. Innovative ideas come to live in the historic and industrial setting of the for example Klokgebouw, Microlab and the SX building. In addition to the fresh, young startups that are located on Strijp-S and the more established, larger (manufacturing) companies situated on Strijp-T, the area offers numerous living and leisure opportunities.

Strijp-S

Strijp-S is being transformed into a unique place where history, an international vibe

and the distinct character of Eindhoven merge together. The campus wants to provide startups that focus on art, design and technology with a social and sustainable place to work. Here, entrepreneurs are stimulated to grow and flourish, of course completely at their own discretion.

Sustainability – goals & results

The identity of the campus is constantly evolving together with its users, residents and visitors. Currently, Strijp-S is being transformed into a circular campus. With a multidisciplinary network and extensive knowledge of innovative entrepreneurship, Strijp-S offers smart and full services turning the creative hotspot into a valuable, interactive and adaptive living environment.

To test the functionality and viability of the various innovative services and solutions, several leading pilot projects have been rolled out in recent years. Such as, sensors that contribute to a healthy living environment, innovative mobility and energy concepts, smart signage and smart living and working environments.

Strijp-S impacts sustainability:

- Biomass and Sanergy provided 100% renewable energy for heating. In 2019, 14% of all energy was generated by Sanergy.
- 14 EV charging stations have been implemented, which saved 6 tCO₂eq/a in 2019.
- The fibre-optic network created 350 home and 7,050 office connections.
- 40 sensors have been installed in Strijp-S
- EU Horizon 2020 funding for sustainable development with Strijp S as living lab.

Shared facilities:

Strijp-S is characterized by a number of typical buildings, which have been turned into shared research & development facilities over the years:

- Microlab: the largest co-working space of Eindhoven, where more than 190 companies and 700 employees share their knowledge and experience. Moreover, Microlab provides an area equipped with machines and tools, which carpenters, game developers, designers, architects and welders can use to carry out their craft.
- SX building: one of the eye-catchers of Strijp-S. Once one of the Philips plants, SX is now a Dutch hotspot where sports, marketing and media meet. Currently, the SX building accommodates more than 50 entrepreneurs, who are all passionate about sports.
- FastForward: a work spot of offices where starting entrepreneurs can start up their business in an inspiring environment.
- The latest addition to Strijp-S is the Donna building, which is currently being built next to the Klokgebouw and which offers both living and working opportunities: www.donna-eindhoven.nl



Strijp-S
Videolab
balkon

Strijp-T

Strijp-T, also a former Philips industrial site, has various impressive office buildings spread out over an area of more than 20 acres. The buildings have been renovated while maintaining their industrial appearance and with respect for their architectural character. As opposed to Strijp-S, Strijp-R mainly accommodates scale ups and mature companies focused on the make-create-innovate chain.

Within the make-create-innovate chain, dozens of companies are working to transform the innovative ideas into market-ready, physical and digital products.

The companies located at Strijp-T focus on one or more of the following four subject areas:

- High Tech
- Smart society
- Sustainability
- Experience

Experimenting and learning

At Strijp-T hands-on, innovative educational programs and businesses reinforce one another. Students get the chance to gain some practical experience at the businesses located at Strijp-T. While at the same time the ideas and technologies that are being developed within the various study programs can be adopted and further developed by those same businesses.

Strijp-R

Strijp-S and Strijp-T focus on working, whereas Strijp-R is centered around living, design and culture. This historical location combines newly built houses with old and industrial premises that have been given a new purpose. Piet Hein Eek was the first to establish his business at Strijp-R. Both the studio, factory and restaurant of this successful designer are located here.

Some 500 new houses have been built on Strijp-R. The residents are living in close proximity to the vibrant areas of Strijp-S and Strijp-T. And they can spend their leisure time at country estate the Wielewaal, next to the Philips de Jong Park.

STRIP-S

FACTS & FIGURES

Area in m2:

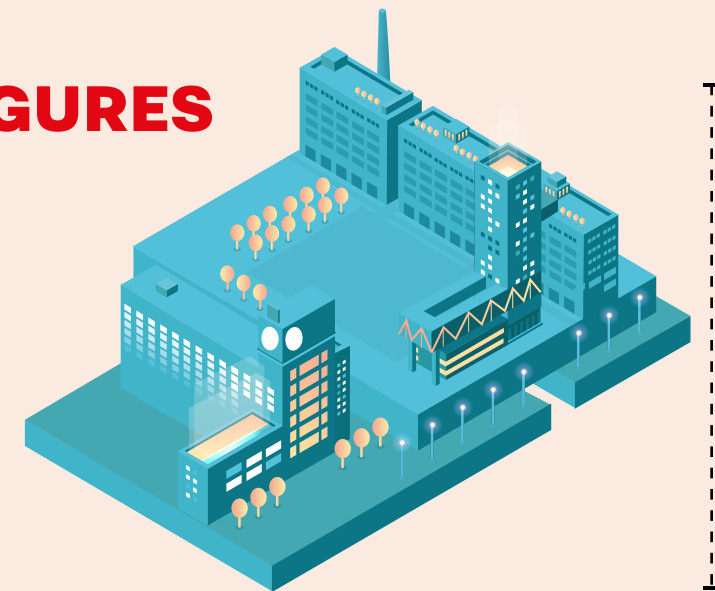
270,000

Development space in m2:

295,000

Total number of companies:

1,000+



High-profile companies:

Bosch Security Systems, Effect Photonics, Philips Innovation Service, Studyportals, Founded by all, Triple Double, ABB, Accenture (VanBerlo), Additive Industries, KMWE, Draka Comteq Fibre (Prysmian Group), CTOUCH, Brainport Development, Fontys ICT, Settels Savenije Group



250+
STARTUP
COMPANIES



JOBS
ON CAMPUS
10,000



SME 1,000+
COMPANIES



LARGE 10
ENTERPRISES



Living
2,500+



Knowledge institutes:

Fontys University of Applied Sciences, Fontys ICT, Sint Lucas and Summa College. Partnerships with TNO and Eindhoven University of Technology.

Community services and facilities:

To help startups as much as possible, Office-S offers flexible work spots and workspaces, including services such as fast internet, a cleaning service, hospitality desk and post and parcel service, and coffee corners and meeting rooms. All Office-S services are coordinated from the hospitality desk in the building and a community manager has been appointed in order to develop entrepreneurship. In addition to having a nice work spot or workspace, community members can participate in a knowledge program, consisting of monthly events such as knowledge sessions, workshops or network meetings. The aim of the program is to help members with personal and organizational development.

The Melt building, located at Strijp-T, offers ready-to-use office spaces which have the most beautiful view of Eindhoven. A workplace comes with joint facilities, such as meeting rooms, kitchen, game room, printers and much more.



Sports and leisure facilities

The Strijp District also offers various cultural and sports activities and events. From festivals, FeelGood Market and Natlab to the Area 51 Skatepark. The ground floor of the historic buildings doesn't only accommodate shops, restaurant facilities and exhibition areas, but also houses presentation rooms and sports and leisure facilities. The combination of living, working and leisure turn the Strijp District into a creative hotspot attracting people from around the world.



Parking facilities

The Strijp area has five car parks/parking garages, offering a total of more than 1,400 parking spaces. Furthermore, the area also provides a large number of parking spaces on the street.



Digital infrastructure

4G is provided by Vodafone Ziggo through small cells connected to the backbone of iCity.



Distance to Eindhoven Airport: 7,3KM 11 min

From Strijp-S you can travel easily by train. Strijp-S has its own stop and is also very accessible by bus. Furthermore, you can rent a bike, scooter or car and quickly travel to and from Eindhoven airport.



Park management services

Urban development, facility management per building, car and bike sharing facilities, charging infrastructure and parking management.

Contact details STRJP-S

Website:
www.Strijp-S.nl

Address of the campus:
Torenallee 20, Eindhoven

Contact person:
Jill Wullems

Email address:
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Contact details STRJP-T

Website:
www.Strijp-T.nl

Address of the campus:
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Contact person:
Boudie Hoogedeure

Phone number:
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Email address:
boudie@strijp-t.nl



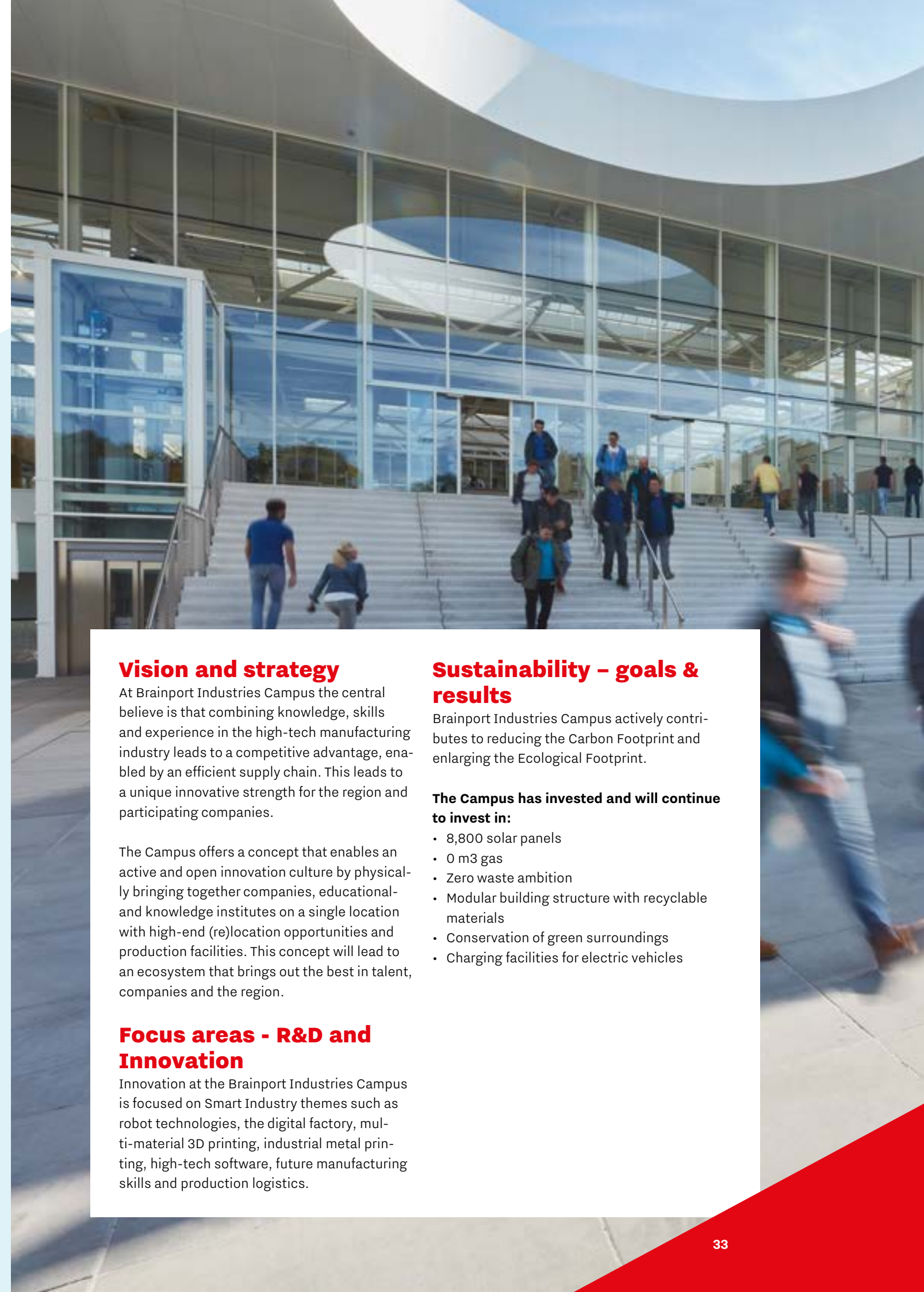
Brainport Industries Campus

The future of high-tech manufacturing

Brainport Industries Campus is an innovative work landscape in the green heart of Brainport Eindhoven. It is the first location where high-tech suppliers not only produce but also innovate together while using shared knowledge and shared valuable facilities such as flexible production areas, warehouses and offices. Together, all parties define the image the campus has among national and international customers. The campus is the ideal place of business for technical suppliers in the high-tech manufacturing industry who want to do business, innovate and produce together.

A magnet for customers talents and innovation

At the campus you find an open culture and a high-tech manufacturing industry that appeals to talented people and professionals. It is a magnet for customers, talents and innovation. The campus' atrium serves as a showcase for high-tech production. Every cluster of buildings shares a sun-lit entrance at the atrium, which connects the various businesses and accommodates shared services and facilities. It is also home to innovation programs and educational institutes. It is the ideal location for professionals, visitors, students and interested persons to meet, have lunch or hold meetings. The heart of the atrium is home to the BIC theatre and conference room where weekly events and inspiring lectures take place. One floor below, you find a logistical zone for transport, storage and transhipment of goods and products. These logistical facilities are also shared to increase flexibility and efficiency.



Vision and strategy

At Brainport Industries Campus the central believe is that combining knowledge, skills and experience in the high-tech manufacturing industry leads to a competitive advantage, enabled by an efficient supply chain. This leads to a unique innovative strength for the region and participating companies.

The Campus offers a concept that enables an active and open innovation culture by physically bringing together companies, educational- and knowledge institutes on a single location with high-end (re)location opportunities and production facilities. This concept will lead to an ecosystem that brings out the best in talent, companies and the region.

Focus areas - R&D and Innovation

Innovation at the Brainport Industries Campus is focused on Smart Industry themes such as robot technologies, the digital factory, multi-material 3D printing, industrial metal printing, high-tech software, future manufacturing skills and production logistics.

Sustainability – goals & results

Brainport Industries Campus actively contributes to reducing the Carbon Footprint and enlarging the Ecological Footprint.

The Campus has invested and will continue to invest in:

- 8,800 solar panels
- 0 m3 gas
- Zero waste ambition
- Modular building structure with recyclable materials
- Conservation of green surroundings
- Charging facilities for electric vehicles

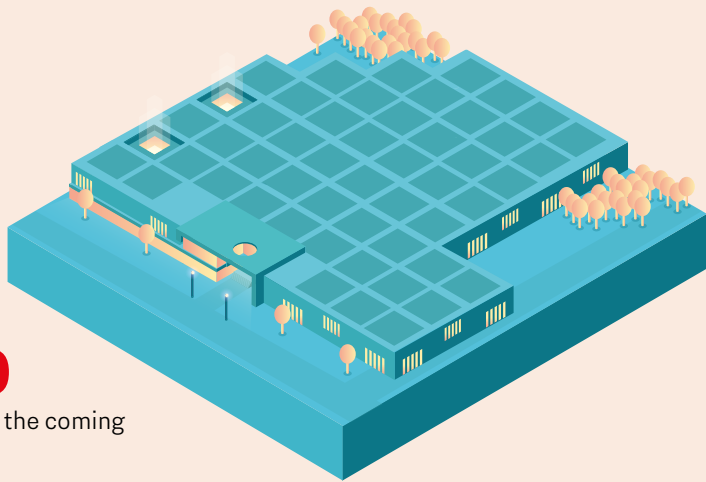
BRAINPORT INDUSTRIES CAMPUS

FACTS & FIGURES

Area in m2:
100,000

Development space in m2:
2,000,000

to be developed in 4 phases in the coming two decades



Total number of companies: **45**



High profile companies:

KMWE, Fluke, Anteryon, Yaskawa, Fujitsu Glovia ,Siemens, K3D

3
STARTUP
COMPANIES

JOBS
ON CAMPUS
1,750

LARGE 5
ENTERPRISES

Shared R&D facilities:

Brainport Industries Campus is an active partner in and host of the Innovation Program ‘Factory of the Future’. This program was drafted by and in collaboration with 75 companies, knowledge institutes, educators, and sector associations in close cooperation with the Province of Noord-Brabant, Brainport Industries and the Brabant Development Agency (BOM). The aim of the program is to jointly develop faster and smarter production processes and sharing (innovation) facilities, leading to lower cost, higher quality and above all a faster time to market of innovative products. The different topics of the innovation program are divided in multiple fieldlabs, each of them focusses on a different smart industry theme, e.g.:

- Flexible Manufacturing
- Digital Factory
- Smart Connected Supplier Network
- Multi-material 3D printing
- 3D metal printing
- High Tech Software Cluster
- Future Manufacturing Skills
- Cyber Security
- Artificial Intelligence Hub
- Advanced Manufacturing Logistics

Knowledge institutes:

- Tenants: Summa College, Fontys University of Applied Sciences, Avans University of Applied Sciences
- Active partners: TNO, TU/e,
- Users: Fraunhofer

Startup facilities and programs the campus offers:

At Brainport Industries Campus, GroWing offers smart work units from 350 m2, which can be combined with office units from 200 m2. Parts of the rooms have a clear height of 4.3m and even 13m. As such, GroWing offers various possibilities to facilitate businesses that are looking for high-tech production units, cleanrooms, lab space, storage, showrooms or a combination of the above.

Here, scale-ups and knowledge institutes fully benefit from all the facilities offered by tomorrow’s factory, without having to make major investments immediately. Yu get access to smart business practices and growth in the vicinity of renowned businesses, schools and high-end (production) facilities. At GroWing, businesses collectively benefit from a prestigious appearance and inspiring working environment. A magnet for customers, investors and talented individuals. Also, the wide range of collaboration options enables every business to innovate fast.

GroWing is directly connected to the Brainport Industries Campus’ imposing atrium. Large glass façades create maximum visibility from the atrium. This means parts of the production process in GroWing are visible to the public, while these areas serve as a shop window for businesses in the high-tech manufacturing industry. An excellent opportunity to make maximum use of this visibility for commercial purposes. And, of course, there is an option to screen off areas if necessary.

Community services and facilities:

From presentation rooms to machine park and anything in between. To facilitate innovation the campus offers all facilities needed to create a pleasant production and business climate under a single roof. Workers and customers have everything they need for successful innovation. From consulting each other and socialising to testing and production: everything can be done within the walls of the campus.

- Large and small groups can use one of many glass conference rooms with fast Wifi and presentation screens.
- A film, panel discussion or a presentation for a large audience? Brainport Industries Campus has a theatre that seats 200.
- Eat & Meet – A sun-drenched central area with a large indoor terrace where you can enjoy a cup of tea or coffee and breakfast and lunch.
- BIC Café – For networking and having a drink, head for BIC Café, which has a terrace that borders on the green environment of Brainport Park.
- Facilities such as machinery, cleanrooms and robotics are available for projects in the prototyping phase. These facilities are for shared and temporary use.



Sports and leisure facilities



Various sports and social activities are organised on a weekly, monthly, and annual basis, to encourage social interaction and collaboration at the campus and to contribute to a healthy lifestyle of our campus residents. Think of bootcamp training, walking, running and mountain bike trails, but also Friday afternoon drinks, Sinterklaas and New Year's celebrations, but also technology-related meetings about specific innovations that are relevant to the high-tech manufacturing industry.



Parking facilities

The car park of Brainport Industries Campus offers 1,000 parking spaces for cars and bikes, including parking spaces for the disabled. The park also facilitates charging points for electric cars and car/scooter sharing solutions.



Digital infrastructure

- Free Wifi available for visitors,
- Mobile indoor coverage,
- Fiber optic internet connection available for campus tenants



Distance to Eindhoven Airport: 1KM

In minutes: 10 min walking distance.
Direct highway access and connected to high quality public transportation.

Services of park management

Brainport Industries Campus management facilitates and encourages open innovation and collaboration within the high-tech manufacturing industry by creating the right setting. It assumes an explicit role in shaping and promoting the ecosystem for Brainport Industries Campus by facilitating the necessary social interaction and coming up with ideas for the core business of its tenants and customers.

As such, it is more than just a management and retained organization of the campus. All forms of services provided by campus management and its partners focus on the users and continuous attention is paid to the environment, sustainability and (information) security. The service provision process is structured in such a way that it facilitates the customer process to the greatest possible extent and causes minimum disruption. Contact with users is characterized by mutual transparency and openness.

Campus management and its partners work closely together to offer the best comprehensive service. Together, they are responsible for developing the ecosystem, building management and the infrastructure, all facility services, the supply of water and energy, the supply of logistical services, as well as consumptive services for the tenants.

Contact details

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