

[Life Sciences Location RWK O-H-V]

Innovation and expertise in the capital region



[Preface]



Albrecht Gerber
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The Oberhavel district ranks among the most economically strong regions in the east of Germany. It is shaped by a powerful industry and an efficient mid-sized sector. With its numerous businesses in future-industries such as biotechnology or medical technology the district is one of the most important life sciences locations in the capital region of Berlin-Brandenburg. The state of Brandenburg has supported this development considerably with its funding policy – which focuses on growth sectors and regional growth centres. The regional growth centres are driving forces which have clearly improved the economy in Brandenburg in recent years and will continue to do so. The regional growth centre O-H-V with its three towns Oranienburg, Hennigsdorf and Velten has been a model for others right from the beginning. It is a good example of innovation and the development of new and internationally competitive products.

The life sciences have developed since the turn of the century into a promising and increasingly important building block in the diverse economic structure of the regional growth centre Oranienburg-Hennigsdorf-Velten. Besides established and internationally-active large-scale businesses, such as Takeda Pharma or Thermo Fisher Scientific B·R·A·H·M·S GmbH, the numerous small and medium-sized, highly-innovative startups and businesses are a true strength of the location – a strength, which makes the growth centre O-H-V attractive for additional businesses from the life sciences industry.

This location exposé represents the expertise that can be found at the location. Discover for yourself that the regional growth centre is an ideal place for the life sciences.

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As of June 2016



Railway
Technology



Plastics &
Chemistry



Metal



Biotechnology/
Life Sciences



Logistics

The regional growth centre O-H-V is characterised by five strong industry focuses and clusters, which in the context of Brandenburg's economical politics are given special funding and support opportunities. The focuses are railway technology, plastics & chemistry, metal, life sciences and logistics. This brochure places the life sciences location RWK O-H-V at the centre, exposés on other industry focuses and clusters are in planning.

More information on the regional growth centre Oranienburg-Hennigsdorf-Velten can be found at www.rww-ohv.de

[RWK O-H-V – a strong location]

The regional growth centre Oranienburg-Hennigsdorf-Velten (RWK O-H-V) is centrally located in the capital region Berlin-Brandenburg and boasts excellent transport connections. The federal motorways A 111 and A 10 (Berlin ring) which traverse the RWK O-H-V mean that the location is perfectly connected to Berlin city centre and the surrounding area of Brandenburg. The international airport Berlin-Tegel, which offers direct connections to numerous European and important non-European destinations, can be reached in around 20 minutes. Moreover, the RWK O-H-V with several S-Bahn (rapid transit railway system) and regional express lines, has a first-class connection to the public transport in the capital region (approx. 30 minutes to Berlin city centre), which due to the accessibility of the ICE (Intercity Express) train stations Berlin-Hauptbahnhof (Berlin Central Station) and Berlin-Spandau guarantees an attractive connection to the national and international Deutsche Bahn express lines and thereby to all important conurbations.

[The regional growth centre Oranienburg-Hennigsdorf-Velten within the capital region]



Innovation with tradition

The towns Oranienburg, Hennigsdorf and Velten join forces as the regional growth centre and promote the development of one of the most economically strong areas in the newly formed German states. Besides large-scale world-class companies like Takeda Pharma GmbH or Thermo Fisher Scientific B-R-A-H-M-S GmbH, also small and medium-sized businesses with innovation-potential in close proximity to Berlin value the excellent technical infrastructure, attractive trade areas and the synergies of a location with a long industrial tradition. At the beginning of the 19th century, the first important factories were established in the area of today's regional growth centre. This development has steadily continued up to today.

Perfect funding conditions in selected industries

In 2005, the state of Brandenburg fundamentally realigned its economic development policy with the development of regional growth centres. With this, efficient locations were identified whose industries have particular potential for development. For investments in these selected industries the highest funding rates apply. The RWK O-H-V is involved. Besides the life sciences, further industry focuses determined by the RWK O-H-V are supported such as railway technology, metalworking, plastics- and chemical industry and logistics.



[Modern laboratory spaces at InVivo BioTech Services GmbH]

Life Sciences Location RWK O-H-V

In the life sciences industry, the RWK O-H-V has developed over the past decades as one of the leading locations in Berlin-Brandenburg. Besides the companies located in Oranienburg, Takeda Pharma GmbH and some mid-sized companies, a majority of the businesses from the life sciences industry concentrate in the Innovationsforum Hennigsdorf, in the south of the regional growth centre, directly at Berlin's border. The fields of activity of the businesses based in the regional growth centre range from diagnostics to medical technology and pharmaceutical/active ingredient development through to diverse sector-related services. Furthermore, with DiagnostikNet | BB e. V. and the Biotechnologieverbund Berlin-Brandenburg e. V. two important regional industry networks are established at the location, which through the pooling of existing resources and diverse networking activities make an important contribution to the degree of innovation in the RWK O-H-V.

Number of inhabitants

- Oranienburg: 43,600 inhabitants (As of December 2014)
- Hennigsdorf: 26,120 inhabitants (As of February 2015)
- Velten: 12,060 inhabitants (As of August 2015)



[Manufacturing facilities at Takeda Pharma GmbH in Oranienburg]

Moreover, the local foundation co:bios is engaged in a successful development of the biotechnology location. Since its foundation in 2000 it has contributed considerably to the further development of the framework conditions at the location through the clustering of industry-specific economic infrastructures and expertise.

Life Sciences in RWK O-H-V

- Over 50 life sciences companies
- 1,800 employees in the industry companies
- Diagnostics, medical technology and pharmaceutical / active ingredient development



Dr. Jim Kallarackal and Dr. Martina Schadt, Managing Directors Oak Labs

>> The short distance to the airport and the close proximity to Berlin are of great importance for nationally-active businesses. In particular, the short distance to Berlin facilitates the search for workers. <<

Industry focuses in the RWK O-H-V

Railway Technology:

- Bombardier Transportation GmbH
- FWM-Fahrzeugwerke Miraustraße GmbH
- Stadler Pankow GmbH

Biotechnology/Life Sciences:

- hospital Laborverbund Brandenburg-Berlin GmbH
- Takeda Pharma GmbH
- Thermo Fisher Scientific B-R-A-H-M-S GmbH

Metal:

- H.E.S. Hennigsdorfer Elektrostahlwerke GmbH
- Hennigsdorfer Stahl Engineering GmbH
- Wall AG

Plastics & Chemistry:

- E. Mierau Spray-Chemie e. K.
- Laurent Reifen GmbH
- ORAFOL Europe GmbH

Logistics:

- Hermes Europe GmbH
- REWE Group
- Rhenus AG & Co. KG

[Innovationsforum Hennigsdorf]



The complex of today's Innovationsforum Hennigsdorf was established in the middle of the 1990s as one of the most modern trade parks in the capital region. In 2000, the location was expanded through the new biotechnology centre built by B.R.A.H.M.S AG (today Thermo Fisher Scientific B.R.A.H.M.S GmbH). Additional expansion areas along the Havel complete the area of the Innovationsforum. Currently, the approximately 100 established businesses are mostly active in, besides automation-, electrical- and communication technology, the life

sciences sectors diagnostics, medical technology and pharmaceutical/active ingredient development. At present, the major employer in the Innovationsforum is the American diagnostics company Thermo Fisher Scientific B.R.A.H.M.S GmbH with close to 400 employees. Altogether the Innovationsforum Hennigsdorf offers attractive jobs for more than 1,000 people.



[Production of medical instruments at Fiagon AG Medical Technologies]

Excellent connections to Berlin and the surrounding area of Brandenburg

The Innovationsforum has an outstanding connection to the interregional road system and local public transport. Berlin city centre can be reached in a short time via the junction at Hennigsdorf. Within walking distance of the Innovationsforum, the regional and S-Bahn station Hennigsdorf can be found. The S25 runs every 20 minutes and guarantees a regular and speedy connection to Berlin-Mitte (S-Bahn station Friedrichstraße). A further advantage of the location which is valued by the many internationally-active businesses that are established in Hennigsdorf is the quick access to the international airport Berlin-Tegel ensuring a good connection to the Innovationsforum from many European cities.

Framework conditions

- Office spaces ready for occupancy: from 6 euros/m² basic rent
- fully-equipped laboratories: price according to amount of equipment
- Trade tax rate: 380 %
- Fully-developed plots of various sizes



[View from the yard of the Innovationsforum]

Space for innovations

The Innovationsforum offers potential tenants modern architecture, contemporary technical infrastructures and a variety of services such as the provision of conference and discussion areas. Various synergistic benefits can be generated by active network activities at the location. co:bios Technologiezentrum GmbH is focused on the requirements of biotechnology companies and a supplier of fully-equipped laboratory spaces and services that meet the demands of its clients. The allocation of the rental units can be adapted completely and individually to the needs of young and growing businesses. For each section of the Innovationsforum Hennigsdorf there are contact persons to answer all your questions about unit availability, conditions and services.

In the Innovationsforum Hennigsdorf, in addition to a multitude of customised rental units in existing buildings with expansion areas on the river Havel ready for development, there is the possibility for the growing location to realise new buildings. A current expansion in the planning phase will offer, besides the standards of CO₂-free production,



[Complex of the Innovationsforum Hennigsdorf and bird's eye view of the adjacent expansion area]

services that require ample floor space ranging from the development to the production through to pharma logistics. Furthermore, located in the immediate vicinity of the Innovationsforum in Hennigsdorf are the industrial parks 'north' and 'south', which offer investors fully-developed, attractive commercial spaces with exceptional transport connections.



Dr. Annegret Feuerhelm Heidl,
Managing Director predemtec GmbH

» The affordable rents, the S-Bahn connections and the close proximity to the airport allow young businesses to choose to establish at the Innovationsforum. «

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[Businesses in the Innovationsforum]



Siegmund Karasch, Managing Director
InVivo BioTech Services GmbH

» The degree of innovation is notably high and expertise very diversified. This can be attributed to the fact that many companies have a long tradition or were newly founded by people who have already been active in this industry for many years. «

Around 40 established businesses from the life sciences industry currently use the optimal conditions in the Innovationsforum Hennigsdorf. They are active to a large extent in the fields of diagnostics, medical technology and pharmaceutical/active ingredient development. In particular, the multitude of diagnostics companies and their expertise and degree of networking have made Hennigsdorf one of the leading locations in this industry in recent years. Furthermore, the Innovationsforum in Hennigsdorf has an excellent infrastructure for sector-specific services, which cover an extensive range, from laboratory requirements, consulting companies, specialist training through to IT services for companies in the life sciences industry.

A mixture of established businesses and young startups offers outstanding conditions for the development of numerous synergies. The know-how and the variety of the diversity of the expertise found at the location become apparent in the overview of selected companies in the different life sciences sectors.

Diagnostics

- biotechrabbit GmbH → in.vent Diagnostica GmbH
- InVivo Biotech Services GmbH
- Oak Labs GmbH → predemtec GmbH
- Thermo Fisher Scientific B-R-A-H-M-S GmbH

Medical Technology

- Fiagon AG Medical Technologies
- Membrapure Gesellschaft für Membrantechnik GmbH
- ME-Meßsysteme GmbH → Pentracor GmbH
- S & V Technologies GmbH
- Uniphy Elektromedizin GmbH & co. KG

Pharmaceutical/ Active ingredient development

- AdrenoMed AG
- AngioBiomed GmbH
- Oncoprevent GmbH
- Takeda Pharma GmbH (Location Oranienburg)

Industry service providers

- co-bios consult GmbH → D&D Laborservice
- hospital Laborverbund Berlin-Brandenburg GmbH
- LIMETEC Biotechnologies GmbH
- MES Medien Elektronik Software
- Nation Health Career School of Management gGmbH

Innovations and excellence through research companies

The location is characterised by an outstanding degree of innovation. Over 90 % of the annual F & E funds in the Oberhavel district, one of the most economically strong districts in the east of Germany, are used by companies in the Innovationsforum. Moreover, the High-Tech Gründerfonds (HTGF) is investing in several established companies – yet more proof of the high degree of innovation and business models based on exceptional, specialised knowledge. The established industry companies are regularly awarded for their trend-setting expertise, for example Fiagon AG Medical Technologies received the award »Top Innovator« for the second time, in 2015. Also, in the field of innovative financial models, some companies are breaking new grounds. The company Oak Labs GmbH for example was able to successfully recruit outside capital for the development of a new business field through a crowdfunding campaign.

[Part of a strong network]



[Building complex of B-R-A-H-M-S GmbH (Part of Thermo Fisher Scientific) in the Innovationsforum Hennigsdorf]



Dr. Frauke Adams, Network Manager
DiagnostikNet | BB

» Hennigsdorf is the location of the network DiagnostikNet | BB e.V. The focus of the activities is on the collective product development, which is significantly promoted through the network, also here on-site. Alone, six network companies can be found at the location Hennigsdorf. Together with the other established diagnostics companies one can certainly speak of a »Diagnostics Location Hennigsdorf« – characterised by a high degree of innovation, modern production structures, future-oriented technologies and highly-skilled jobs. «

The capital region is also internationally one of the leading life sciences locations, with a unique concentration and linking of science, clinic and economics. The numerous technology parks and networks from different industries, in particular biotechnology and medical technology, form an excellent infrastructure for the transfer of the newest scientific knowledge in innovative products in the health industry. Based on a strong industrial basis, an efficient cluster of the health industry with ultra-modern jobs has developed with a focused innovation policy. The degree of research institutes is unique throughout Germany. Annually, approximately 3,000 students of the life sciences and related specialist fields graduate from universities in Berlin and Brandenburg; these are the highly-qualified workers of tomorrow.

Industry networks in Hennigsdorf

In the field of networking, the location Hennigsdorf takes on a leading role in the capital region. Two important industry networks are located in the Innovationsforum. DiagnostikNet | BB pools the expertise of strong developing, highly-innovative companies and internationally renowned research institutes from all fields of in vitro diagnostics in Berlin-Brandenburg, so that its members represent the entire value chain of in vitro diagnostics. In the industry network Biotechnologieverbund Berlin-Brandenburg e.V., key players from science, economics and people interested in the life sciences have joined together. The objective of the group is to contribute to the advancement of biotechnology in the region.

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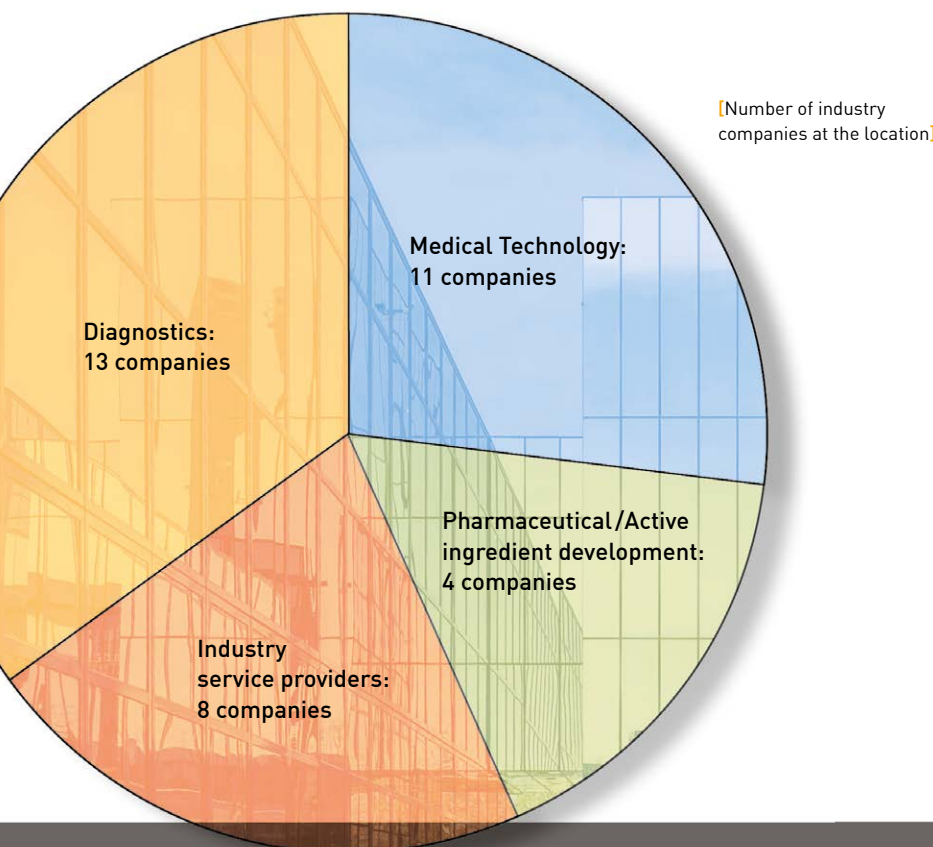
bbv
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Health region Berlin-Brandenburg in figures

- Approx. 30 pharmaceutical companies with around 10,000 employees
- 280 medical technology companies with more than 11,600 employees
- 230 biotechnology companies with approx. 4,600 employees
- in total approx. 20,700 companies in the health industry
- Over 130 hospitals with more than 35,000 beds
- More than 3,000 clinical studies per year
- 7 technology parks with focus in the life sciences
- 19 Berlin and 6 Brandenburg high schools with around 170 health-related courses of study



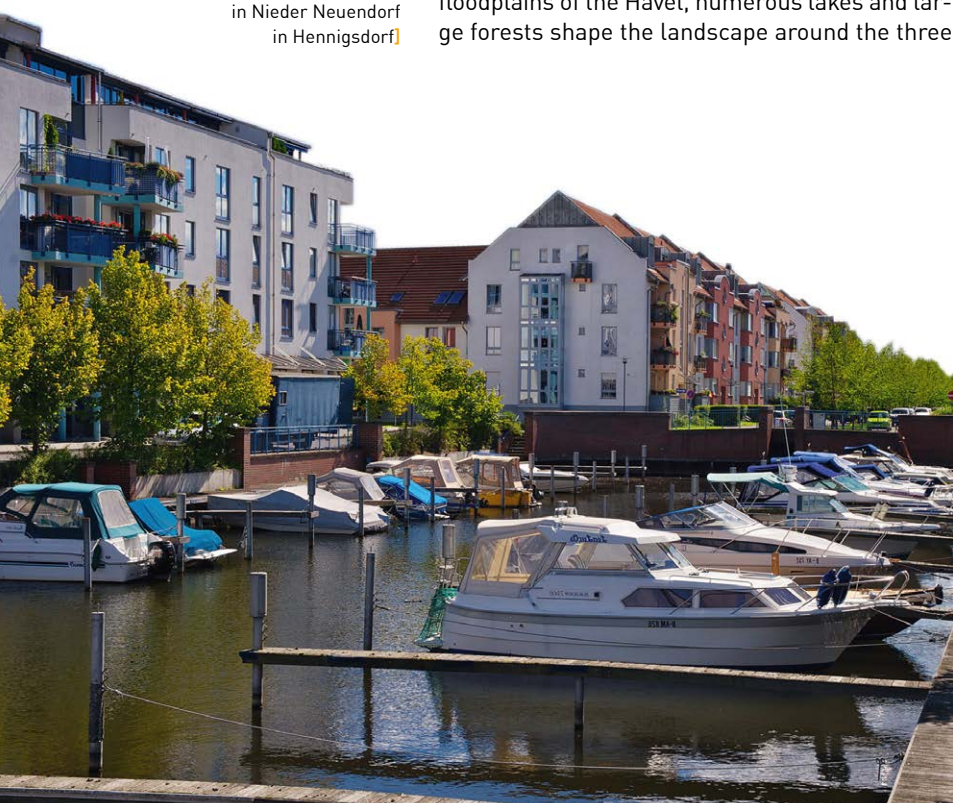
[Culture and nature on the Havel]



[The baroque castle grounds in the heart of Oranienburg]

The RWK O-H-V as part of the region of Oberhavel is not only an innovative business location, but also an important local recreation area for people living in Berlin and Brandenburg. Tourism gains significance in the region due to the various cultural, scenic and interregional attractions. The extensive floodplains of the Havel, numerous lakes and large forests shape the landscape around the three

[Living by the water in Nieder Neuendorf in Hennigsdorf]



towns of the regional growth centre. An outstanding extended network of cycle routes and an excellent infrastructure for water tourism make it possible for visitors and residents to experience this unique natural landscape, individually and close to nature.

Towns steeped in tradition with various leisure facilities

Oranienburg, the former imperial city of the electors of Brandenburg is renowned for, among other things, its expansive baroque castle and park. The town forms the cultural historical centre of the Oberhavel region and wins over young families with attractive leisure facilities such as the sports centre and water park TURM. The redevelopment of the town centre with its small specialist shops, tranquil cafés and the green Havel river invites people to stroll and stay for a while.

Also, the industrial history of the region is treasured and made tangible. The fishing village Hennigsdorf for example was able to grow with the establishment of the railway industry into an independent town, a development which can be traced in the townscape even today. Visitors can learn about the centuries-old tradition of oven- and tile production in the newly opened Ofenmuseum (oven museum) in Velten.

Besides the history however, numerous festivals and events attract guests from near and far. The Hennigsdorfer Festmeile (festival), the Veltener Hafenfest (harbour festival), the dragon boat race at the Oranienburg town festival as well as countless concerts, theatre performances and exhibitions are proof of the rich culture on offer in the Oberhavel region.



[Industrial history vividly illustrated: the Ofenmuseum in Velten]



Egmont Hamelow, Department Head of Construction, Economy and Transport of the district of Oberhavel

» The district of Oberhavel unites two aspects which make it really worth living here. Firstly, our district has a well-developed infrastructure with sufficient preschool places and the best possible choice of schools and excellent medical care by first-rate hospitals. Secondly, a variety of leisure and recreational activities on land and in water can be found right on your doorstep. «



[The promenade along the Havel in Hennigsdorf, as part of the Berlin-Copenhagen long-distance cycling route, offers space for a variety of leisure activities]

High quality of life at the edge of Berlin

Thanks to its situation at the gates of the capital, the RWK O-H-V offers an optimal quality of life between the hustle and bustle of the large city and the comfort of a peaceful rural life. With the high-quality residential environment in the countryside, the close proximity to the water and the situation directly at the Berlin border, the three towns of the growth centre are attractive living and working areas. Their many advantages attract people of all ages, including more and more young families. Affordable housing, modern infrastructures, good

schools and child daycare, as well as sustainable jobs in growth sectors such as the life sciences have allowed the number of inhabitants to continuously rise for some years now.

The Oberhavel region in figures

- Capital: Oranienburg
- Area: 1,798 km²
- of which woodland: 770 km²
- of which rivers and lakes: 70 km²
- Inhabitants: 203,284 (As of December 2014)
- Number of unemployed: 7.4 % (As of July 2015)
- Average land price: 95 euros / m² (As of July 2015)

Educational facilities in the RWK O-H-V

- **Preschool care facilities**
- Crèches: 29
- Child daycare: 40
- **Schools**
- Primary schools with after school care: 16
- Special schools: 4
- Grammar schools: 5
- Miscellaneous secondary schools: 8

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