

DESY

Innovation und Technology Transfer

2nd AMICI - Industry Forum

Sörne Möller, Industry Service Manager
Brussels, September 17th, 2019

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INNOVATION &
TECHNOLOGIE
TRANSFER —



Facts

A Research Centre of the Helmholtz Association



Founded 1959 as a public funded national research centre



more than 2300 employees incl. 650 scientists in the fields of accelerator operation, research and development



Budget. 230 Mio. € plus 100 Mio. € third-party funds per year



Two locations in Hamburg and Zeuthen (Brandenburg)

DESY's Key Research Areas



Fields of application

DESY as a partner in several areas

<p>Life Science & Diagnostics</p> 	<p>Material Science & Engineering</p> 	<p>Chemicals & Synthetics</p> 	<p>Pharma, BioTech & MedTech</p> 
<p>Automotive & Aerospace</p> 	<p>Energy Production & Storage</p> 	<p>Detector- & Sensor Technologies</p> 	<p>Electronics, ICT & Automisation</p> 
<p>Nano & Laser Technologies</p> 	<p>Accelerator Technology</p> 	<p>Data Science, IoT & AI</p> 	<p>Agriculture & Food</p> 

Focus

Innovation & Technology Transfer



Driver and Developer
of Innovation

#ideastomarket



Service Provider for
Industry

#Innovationservice



Cradle for
new business

#Startups



Testbed for
innovative Products

Innovation Services

Examples

Accelerators

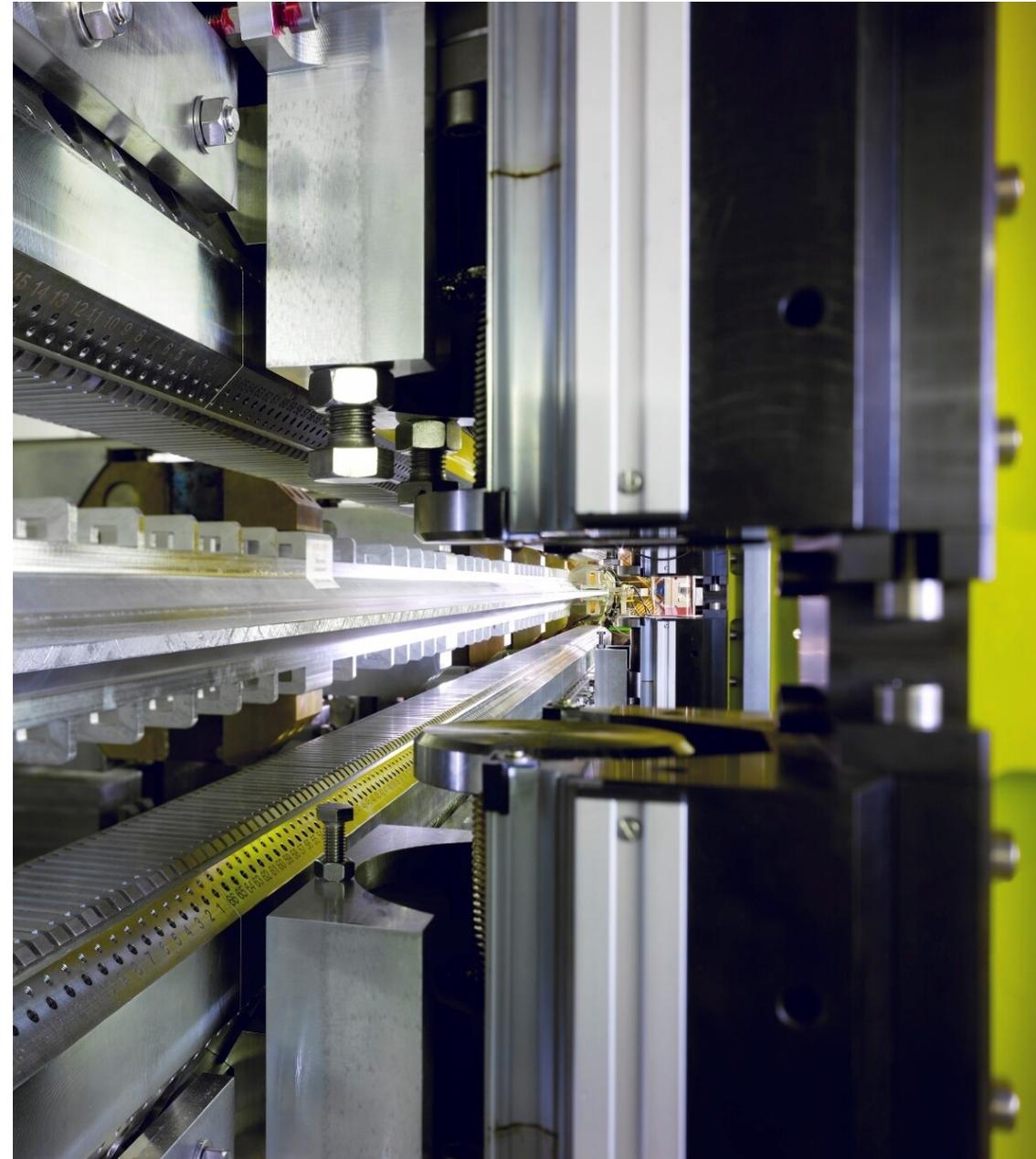
- > superconducting accelerator technology (quality tests, cavity equipment, cavity tuning, consulting)
- > Beam control systems for electrons (position monitors)
- > complex accelerator control- und electronic systems (MicroTCA)

Photon Science

- > Beamtime at PETRA and FLASH
- > Laser technologies and beam control systems for photons
- > X-Ray optics

Further services

- > access to precision mechanics and electronics workshops
- > access to DESY laboratories (NanoLab)
- > Services in mechanics design and construction
- > Consulting

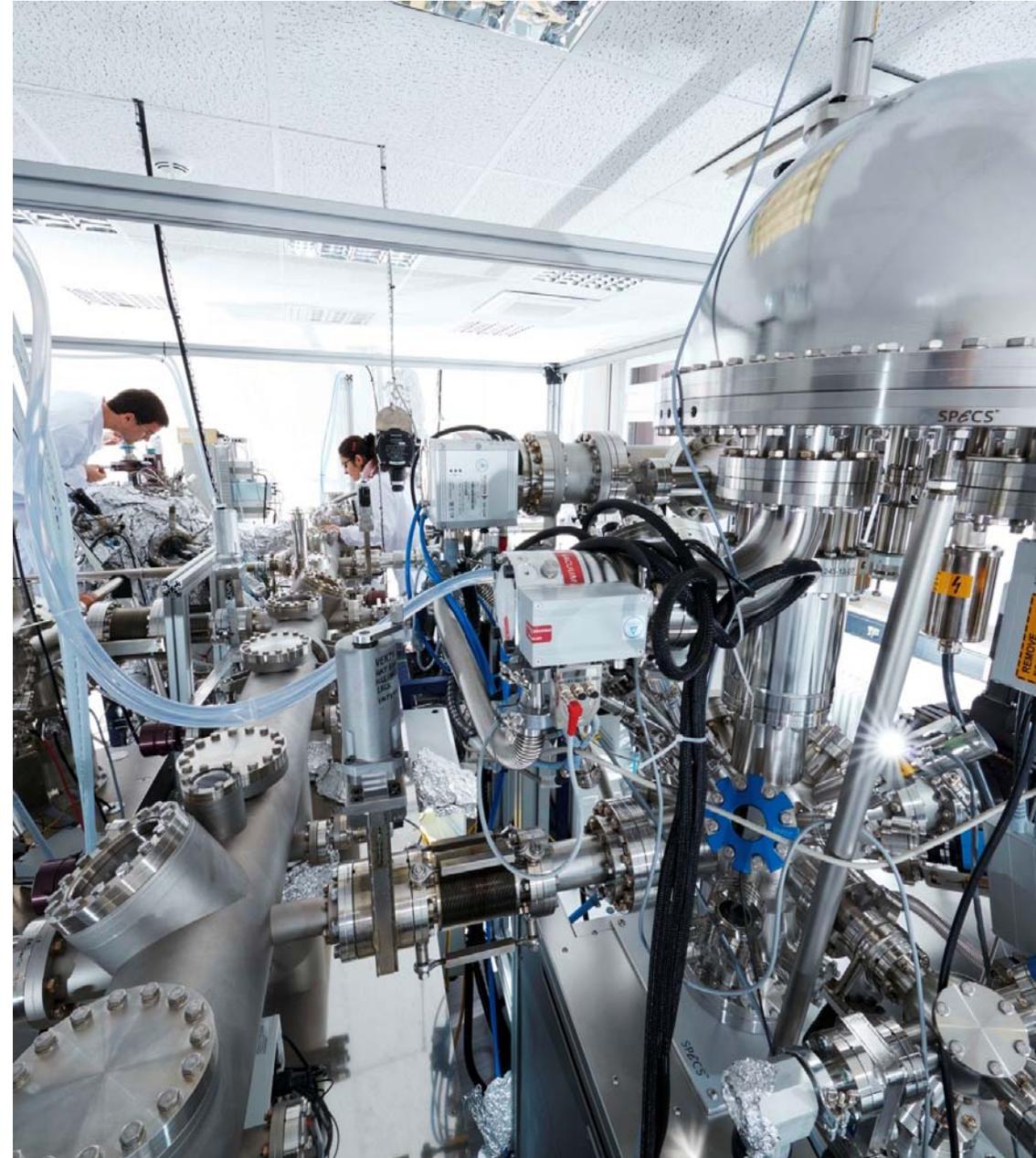


Innovation Services

Open innovation with DESY

- > DESY as **provider of innovation services** for industry, research facilities and collaborations
- > **Easy and direct access** to research facilities, laboratories and workshops
- > **One face to the customer**
- > **Custom-made offers:** DESY as a „**problem solver**“ for market based challenges

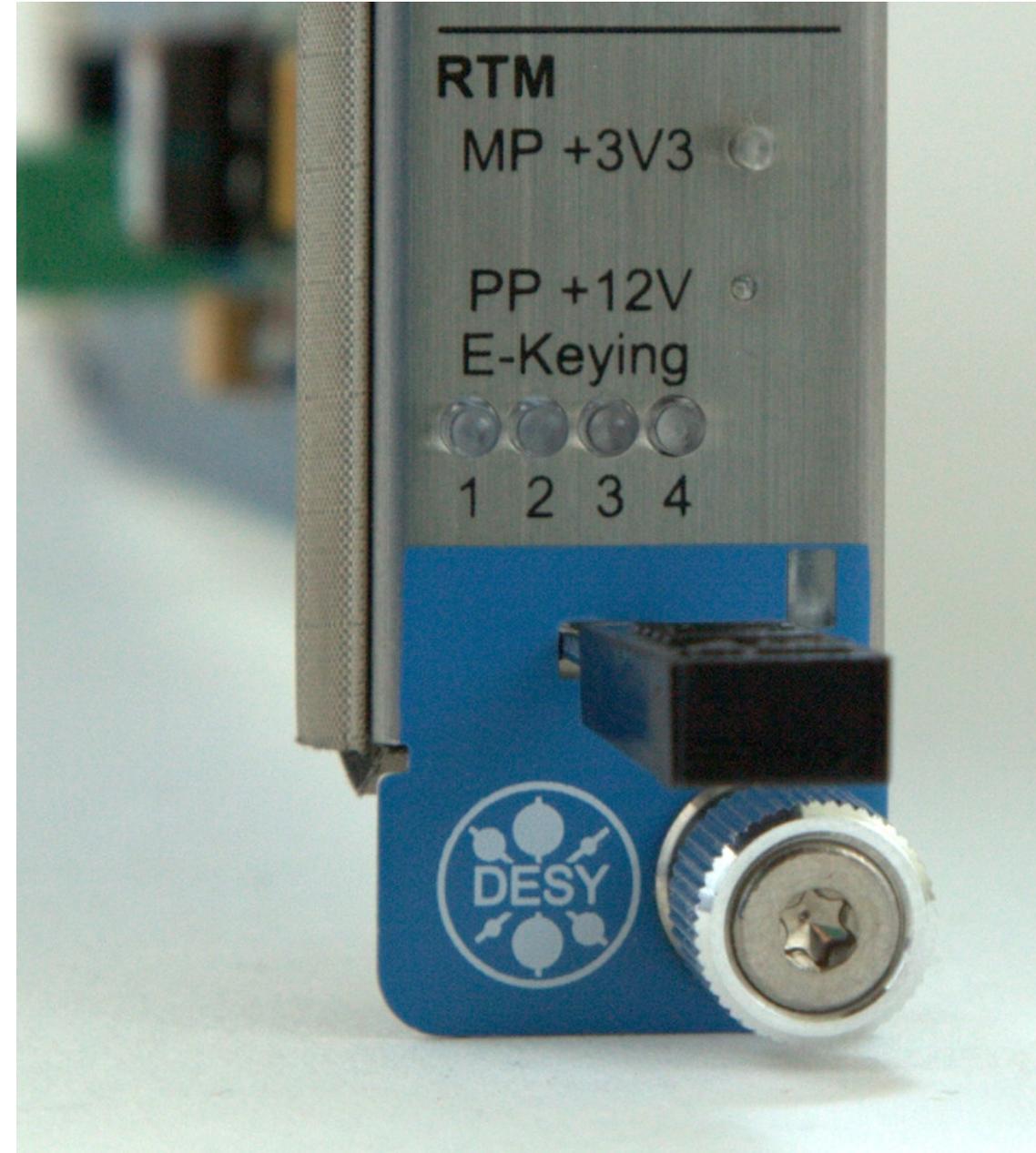
IN TIME IN BUDGET



Technology Transfer

Ideas to market – Our strategic activities

- > Consistent **IP Protection and Licensing**
- > **Transfer of know-how and ideas** from DESY for commercial use
- > **Management of Validation Projects**
(e.g. MTCA.4, Magneto sensors)
- > **DESY Generator Programme (Seed funding)**
- > **Technology Screening**
- > **Strengthening internal awareness for Innovation & Technology Transfer** (e.g. in-house training)



DESY Innovation Village

A first milestone

- > **New home for DESY Start-ups**
(transition period until innovation centre is built)
- > **Laboratory and office space**
- > In operation since February 2019
- > Next step: Building of additional floor for validation and innovation projects



Innovation centre

Incubator for knowledge-based start-ups

- > Unique combination of office and laboratory space for young companies
- > DESY, University of Hamburg und City of Hamburg

- > More than 2000 m²
- > Building: Spring 2019
- > Finalisation: End of 2020



Integrated Start-up and Technology Centre

Customized infrastructures for complex Hightech Start-ups in the fields of Life Science und new materials



Focus

- > New materials
- > Medical technology
- > Pharmacy
- > Biotechnology
- > Nanotechnology

Hightech-Strategy
of government

105,56 Mio. €

Science City Bahrenfeld

State of the art international science location

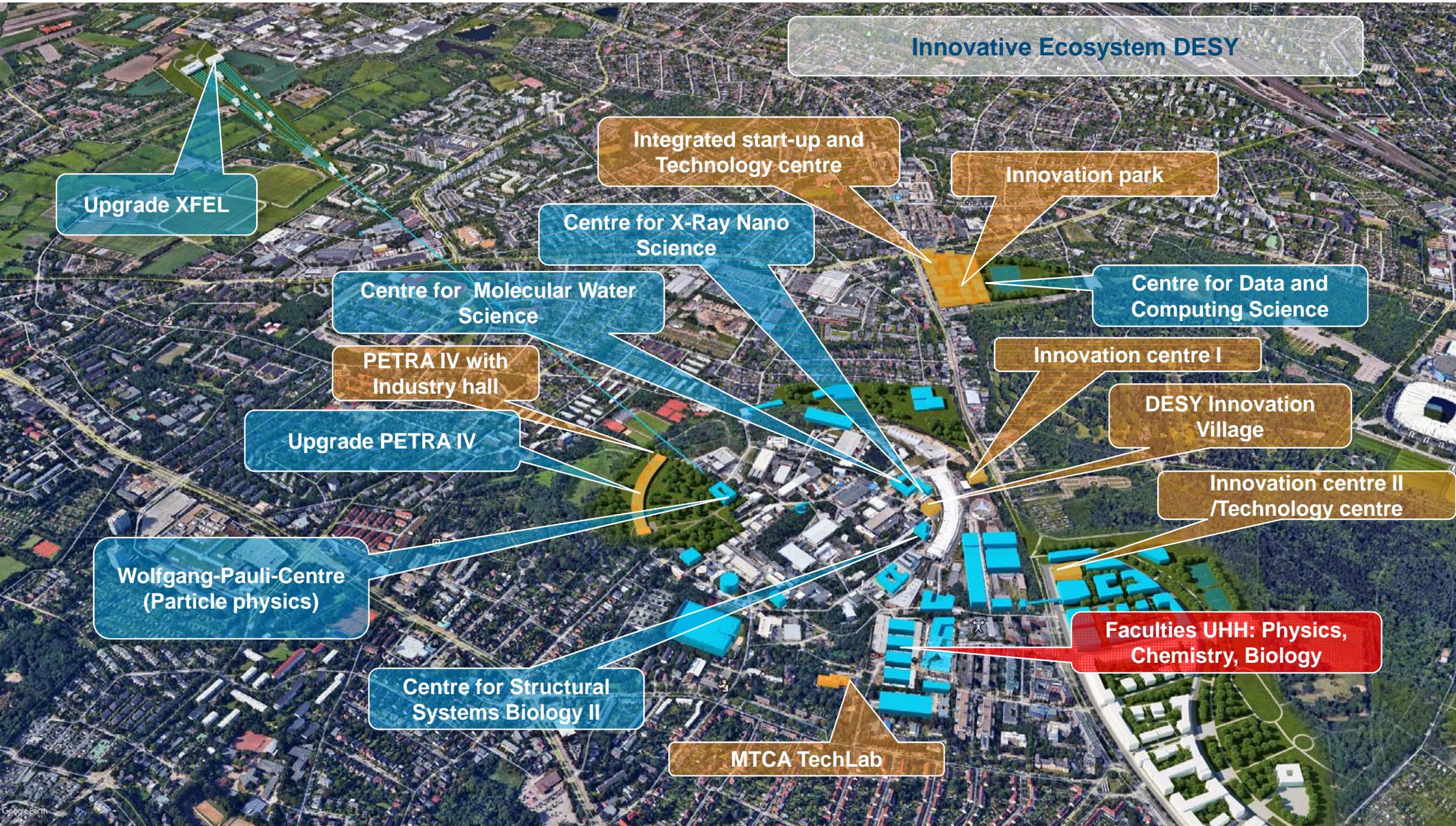


Excellent Infrastructures

- > DESY und UHH as anchors
- > Infrastructure for Start-ups
- > Innovation park
- > Interdisziplinäre Zentren

Excellent Conditions

- > Access to Know-how
- > Transfer von innov. technologies
- > Interdependence between research, academia and economy
- > Holistic approach, development of an urban district



Innovative Ecosystem DESY

Upgrade XFEL

Integrated start-up and Technology centre

Innovation park

Centre for X-Ray Nano Science

Centre for Data and Computing Science

Centre for Molecular Water Science

PETRA IV with Industry hall

Innovation centre I

Upgrade PETRA IV

DESY Innovation Village

Wolfgang-Pauli-Centre (Particle physics)

Innovation centre II /Technology centre

Centre for Structural Systems Biology II

Faculties UHH: Physics, Chemistry, Biology

MTCA TechLab

LET'S STAY IN TOUCH



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