

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

Life Science &
Diagnostics



Material
Science &
Engineering



Chemicals &
Synthetics



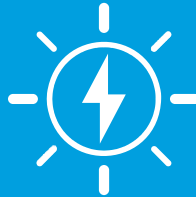
Pharma,
BioTech &
MedTech



Automotive &
Aerospace



Energy
Production &
Storage



Detector- &
Sensor
Technologies



Electronics, ICT
& Automisation



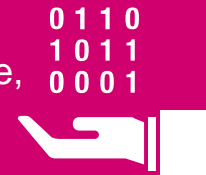
Nano & Laser
Technologies



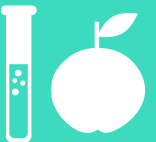
Accelerator
Technology



Data Science,
IoT & AI

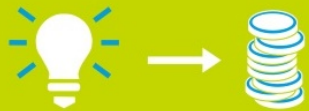


Agriculture &
Food



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

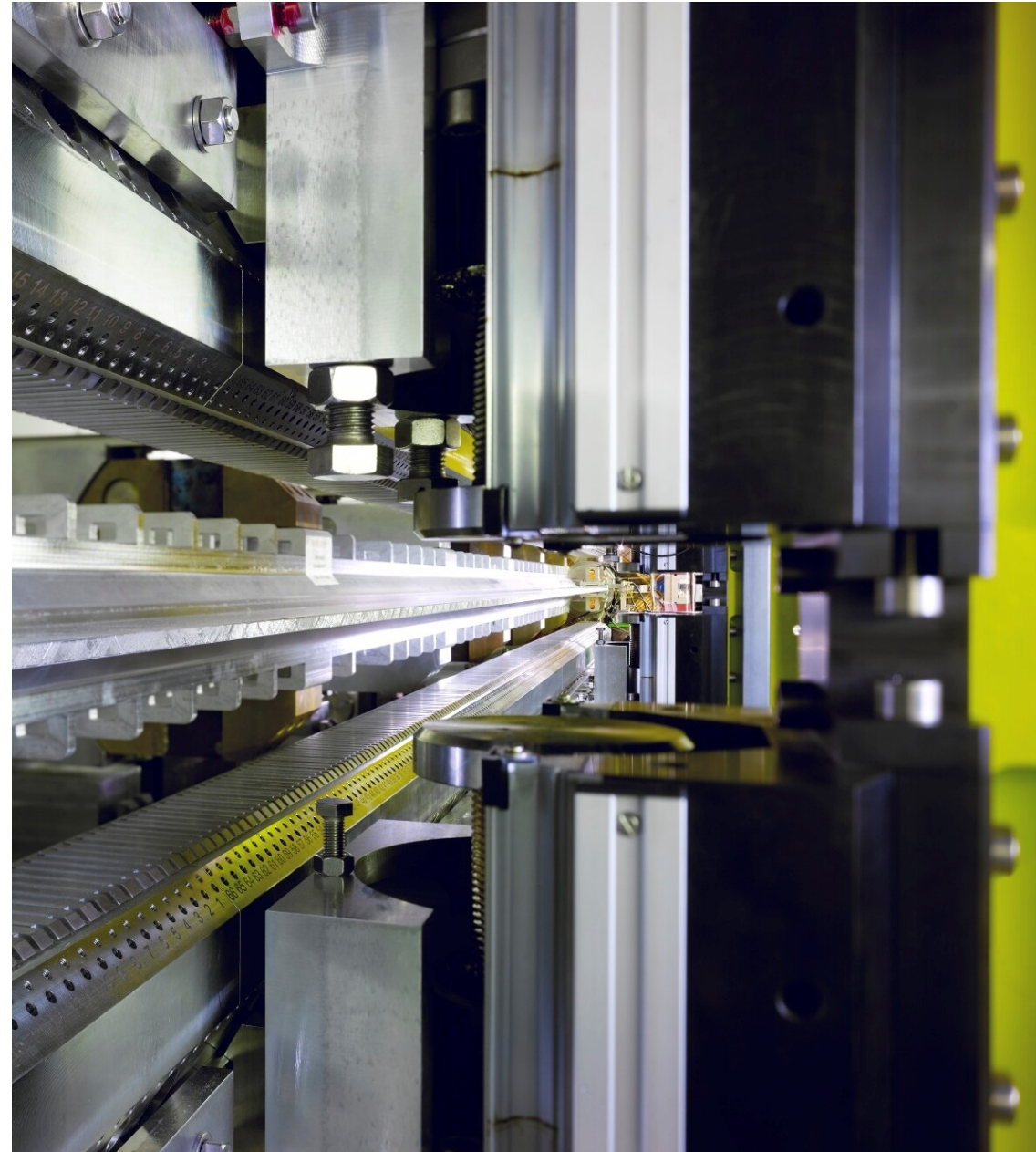
- > superconducting accelerator technology (quality tests, cavity equipment, cavity tuning, consulting)
- > Beam control systems for electrons (position monitors)
- > complex accelerator control- und electronic systems (MicroTCA)

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

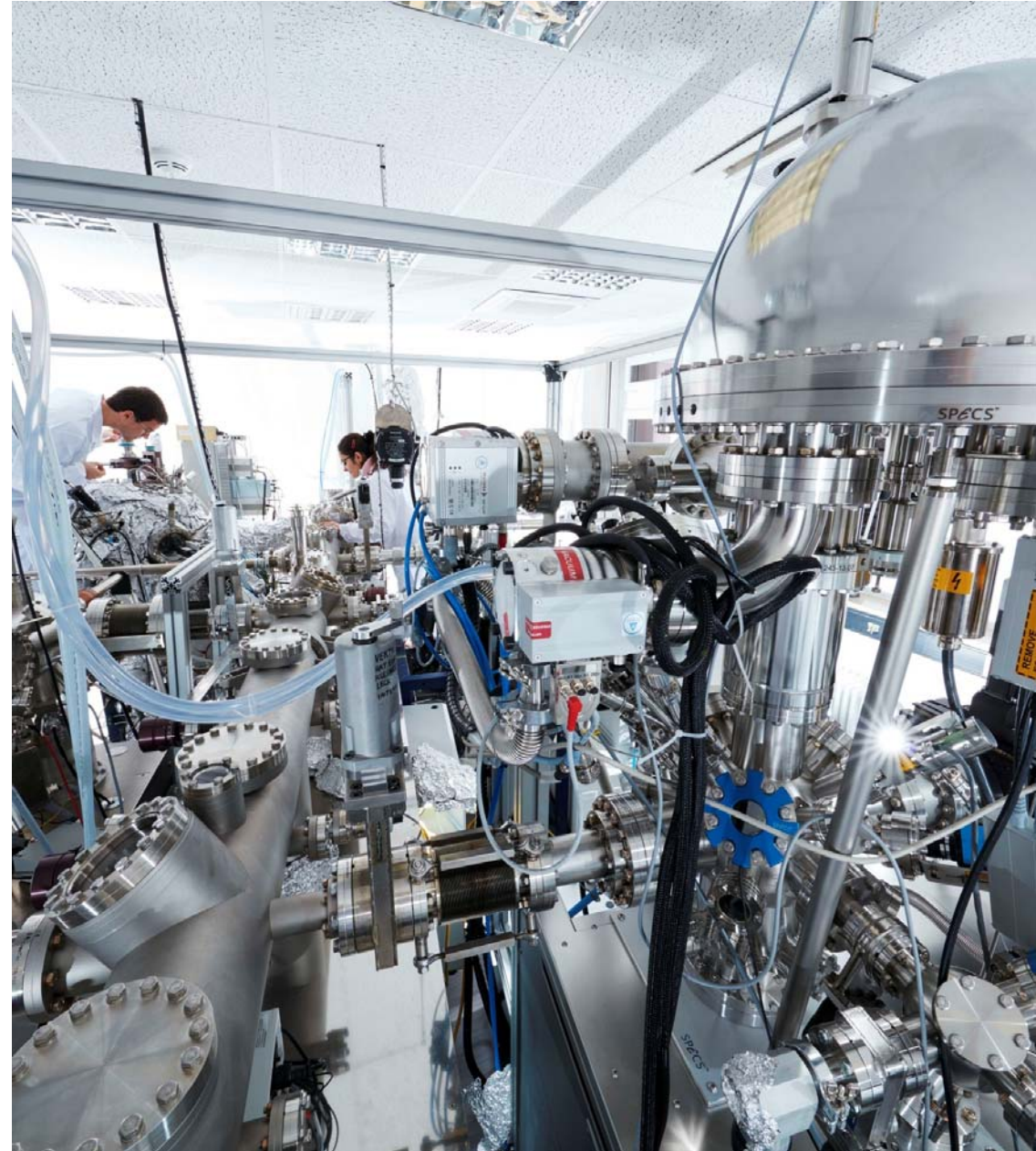


Innovation Services

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

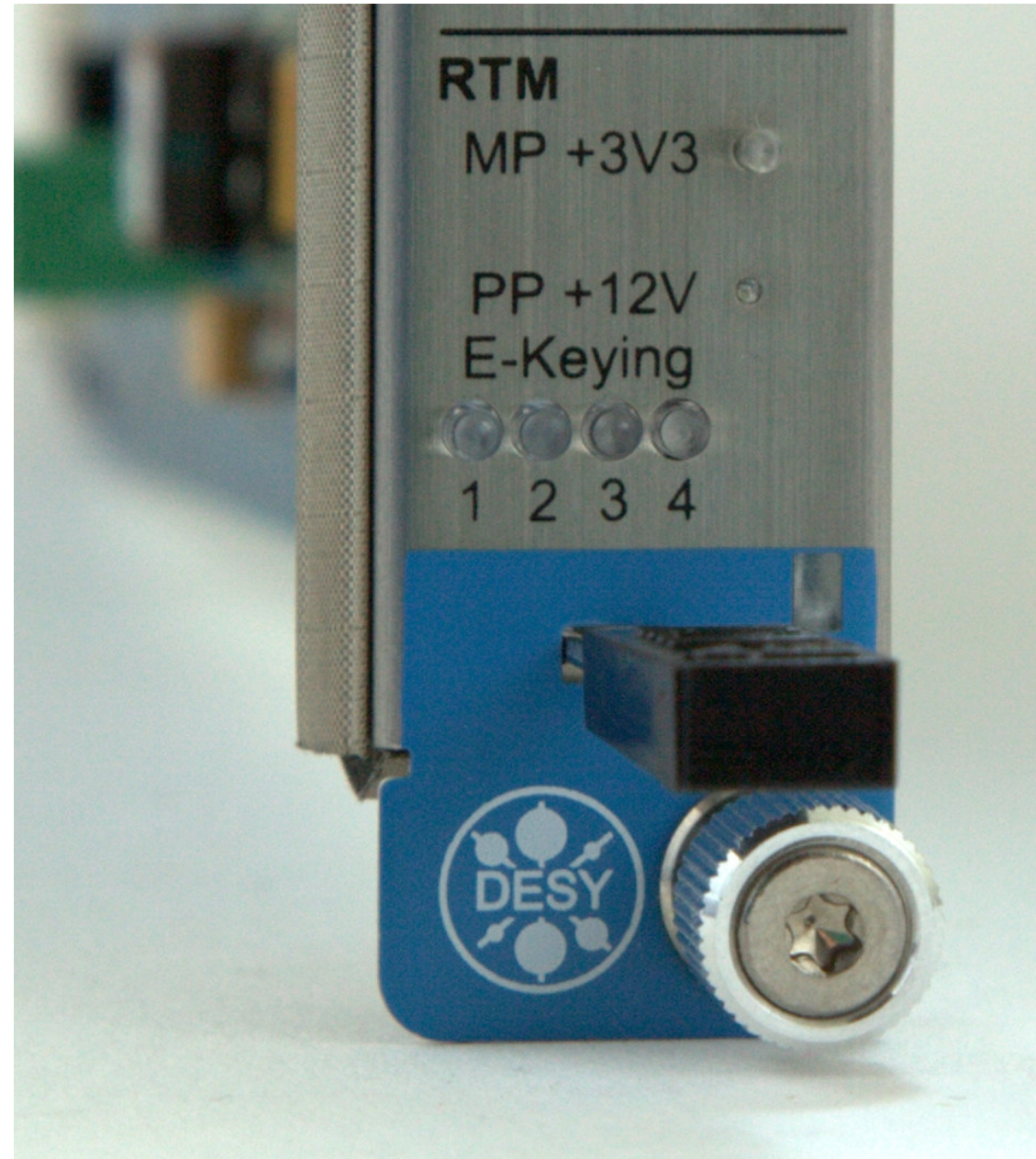
IN TIME IN BUDGET



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

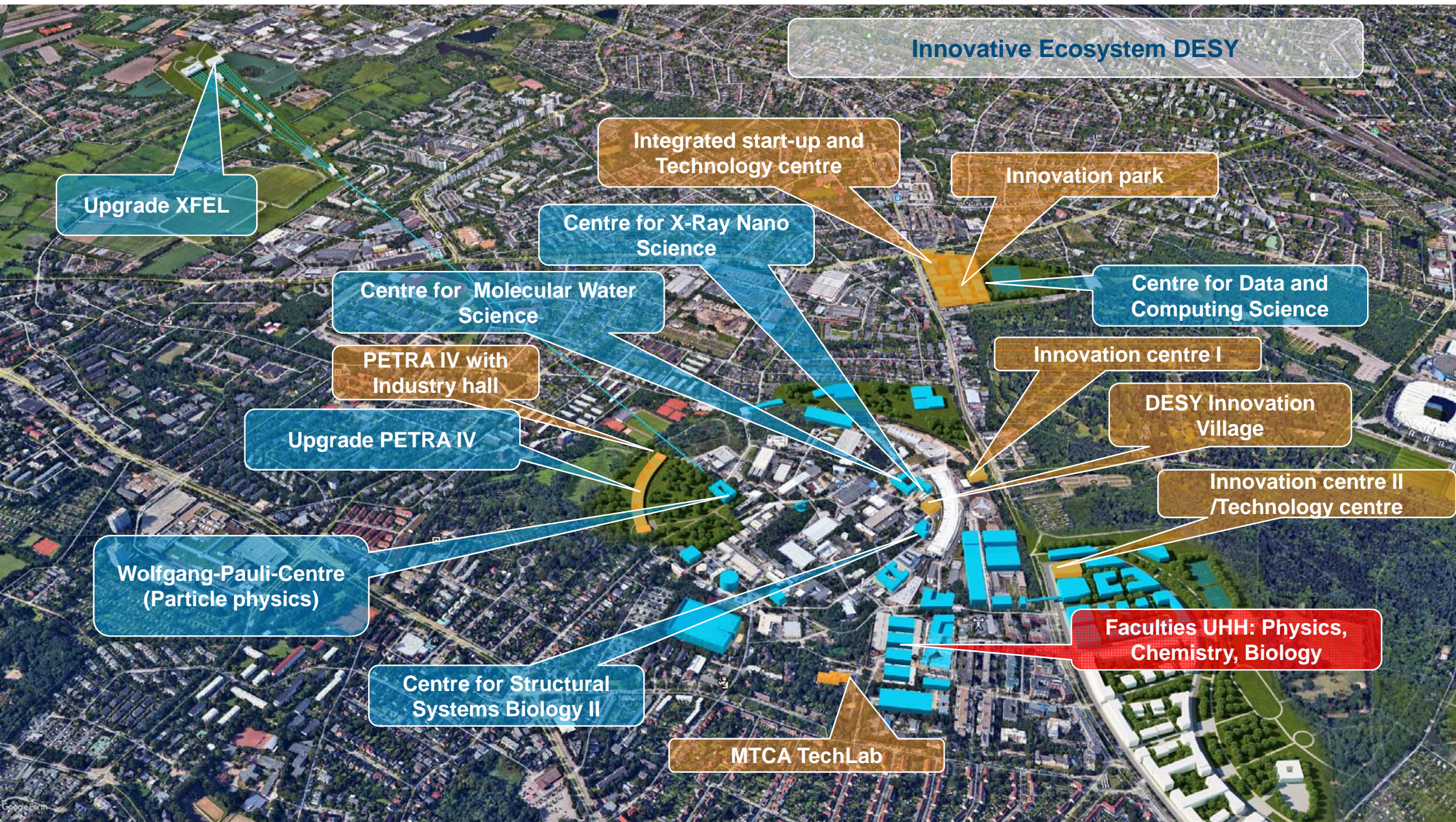


Excellent Infrastructures

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

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 Molecular Water
Science

Centre for Data and
Computing Science

PETRA IV with
Industry hall

Upgrade PETRA IV

Innovation centre I

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

An architectural rendering of a modern urban plaza. In the foreground, several large, leafy trees stand on the left. People are walking and sitting on the plaza. In the background, there are modern buildings with large glass windows. One building has a circular logo with the word 'DESY' inside. The sky is blue with some clouds.

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