

DESY. The Decoding of Matter

Welcome

Scientific Committee

Mar 23, 2020

Report DESY Directorate



- DESY in Pof IV (Strategy process)
- Zukunfts-Campus DESY Project Status
- Appointments: successor W. Wurth (FLASH)
successor J. Mnich (FH division)
- New Cooperations with DESY-Universities
- DESY Innovation
- DESY – Future strategic cooperations in health





Johannes Keller-Herder
Head of
DESY Strategic Controlling

DESY Strategy

TDR PETRA IV (top prio)

20 Mio (DESY, BWFG, BMBF)
Campus Logistics: Assembly and Storage Halls (15.000qm)
PETRA III/IV Impact Assessment

R&D in Laser-Plasma

Budget Increase 2021+

DIGITAL DESY

Key Expertise IT-IPP-DV
Feedback from DESY Working Groups
Quanten Computing → Zeuthen
Prepare for Project calls HGF and BMBF

PS: National Priorities 2021+
BMBF

Climate Change, Digital Transformation, Health (Provisions for future pandemics)
strong expectations in lab transfer-strategy and -activities (Letter St Lukas to HGF President)

Zukunftscampus DESY Project Status (HH)

Construction Projects

estimated start of construction

DESYUM

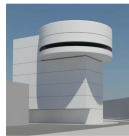


23 Mio (secured)

2023

Core exhibition „The Decoding of Matter“
Sounding board „DESY Dimensions“

CAST



15,5 Mio (secured)
new central bldg of M division
BKR (also for DESY visitors)

2023

TECHNICUM

28 Mio (secured)
core technologies and labs of M
also essential for PETRA IV

2023

WPC

18,5 Mio (10,5 DESY + 8 BWFGB secured)
cooperation agreement DESY-UHH

2024

DESY Innovation Factory



120 Mio (secured)
Twin Bldg: DESY Campus and Innovation Park
Technologies based on new materials and medical applications

2024

Zukunftscampus DESY Project Status (ZN)

Construction Projects

SDMC, cantine



11.2 Mio (secured)

estimated start of construction

Juli 2021

Main building

4.5 Mio (secured)
functional expansion (seminar room, renovation, ...)

fall 2021

Energy supply

1.5 Mio (secured)
new energy supply for the whole campus

fall 2021



Successor Wilfried Wurth (FLASH)

International Search Committee

Search Completed

Interviews of Candidates March 24-25

3 external

2 internal

Successor Joachim Mnich (FH Division)

International Search Committee

Search ongoing

Shortlisting for interviews April 12

Interviews of Candidates April/May

more by Wiebke Louis

DESY.

New Cooperations with Universities



Cooperation agreement

SFB M³ Maßgeschneiderte Multiskalige Materialien

DESY: Andreas Stierle, Thomas Keller, Patrick Huber

Cooperative appointment Prof. Patrick Huber (new materials)

New joint appointment „Additive Manufacturing“ (Leuchtturm-Berufung)



Cooperation agreement

Joint R&D projects

Joint appointments



Cooperation agreement

Materials for the circular economy

Joint Appointment: Prof. Stephan Roth (DESY)



Helmholtz Institute

Planning stage: MWK (NdS) and U Göttingen

„Biomedical Imaging“

Proposal ready end of 2021



Metin Tolan



Sachsen Beamline @PETRA III/IV

TU Freiberg

Investition durch Freistaat Sachsen

Start-up by 

Supported by 

Hosted by 

**DESY Technologie
DESY Kompetenz**

Gründungsberatung

Mieter



Femtosekunden-Lasersysteme



Femtosekunden-Laser & Module für Lasersynchronisation



Hochpräzisionsinstrumente für Forschung an Synchrotrons



Detektoren



App-Entwicklung, Digital Health



Dienstleister für Röntgenfluoreszenz-Bildgebung am Synchrotron



Bio-Nanotechnologie Produkte



Pyroelektrische Strahlungsdetektoren



Vakuum-Systeme



awk/jk
Agentur für Wissenschaftskommunikation
Dr. Jens Kube



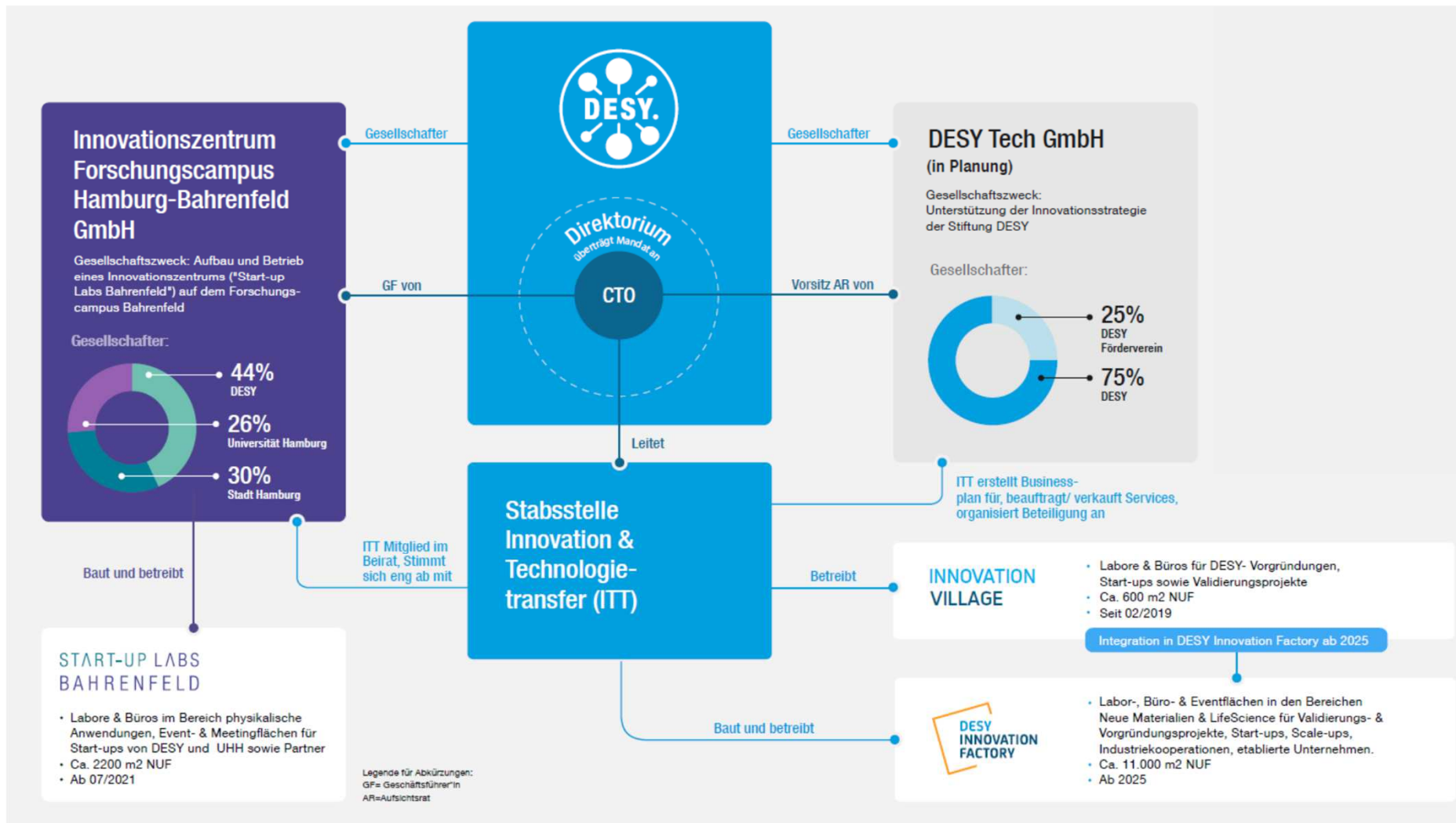
Bio-Technologien auf Basis von Biomasse



Technologien für Genexpressionsanalysen (v.a. Krebsdiagnostik)



Tumorfrüherkennung & -diagnostik



DESY Future Strategic Cooperation in Health

CSSB	Infection research	DESY: Holger Sondermann Tom Marlovits Charlotte Utrecht Maytal Landau	DESY-CAU Kiel joint appointment UKE + DESY HPI-U Siegen + DESY WIS, EMBL, DESY (in early stage of planning)
EMBL	EMBL-BMBF initiative	bld. next to CSSB	
UKE	Cancer research	Prof. S. Huber	Colon Cancer and Morbus Crohn UHH-DESY: XFI-Tracking (in vivo)
Charité	„FLASH“ Cancer radiation therapy disruptive idea in short-pulse e-beam irradiation		PITZ facility, Charité, Munich, USA

Corona-induced developments

Strongest request from all sectors and actors of health

AI Application Lab „National Analytic Platform for Infection Fight“
Various strategy meetings with strong actors (incl. BIONTECH)

DESY Steps and Decisions: in vivo experiments



Ulrike Beisiegel

DESY analytics

DESY proposal to Federal State
broadest request on
insitu, in vitro and in vivo analytic (mainly P3/4)

Ethics Committee (Prof. U Beisiegel)
overall guidelines
Grundsatzbeschluss Direktorium

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