

CHyN
Center for Hybrid
Nanostructures

DESY II

SINBAD
Short and Innovative
Bunches and Accelerators
at DESY

European XFEL

DESY Innovation Factory

DAF (1) (2)
Detector Assembly Facility

WPC
Wolfgang Pauli Centre

Technicum

HARBOR
Hamburg Advanced
Research Centre for
Bioorganic Chemistry

DESYUM

CMWS
Centre for Molecular
Water Science

CSSB
Centre for Structural
Systems Biology

MPSD
Max-Planck-Institut für
Struktur und Dynamik
der Materie

EMBL
Europäisches Laboratorium
für Molekularbiologie

SHELL
Shielded Experimental Hall

CAST
Center for Accelerator
Science and Technology

CXNS
Centre for X-ray and
Nano Science

CFEL
Center for Free-Electron
Laser Science

FLASH

Start-up Labs Bahrenfeld

PETRA III/IV

© DESY

European XFEL

- Routine user operation (“harvesting phase”)
- Occasionally studies (e.g. double pulses, XFEL oscillator, max. beam power)
- Preparing an “options study” document for a high duty cycle upgrade (up to CW)



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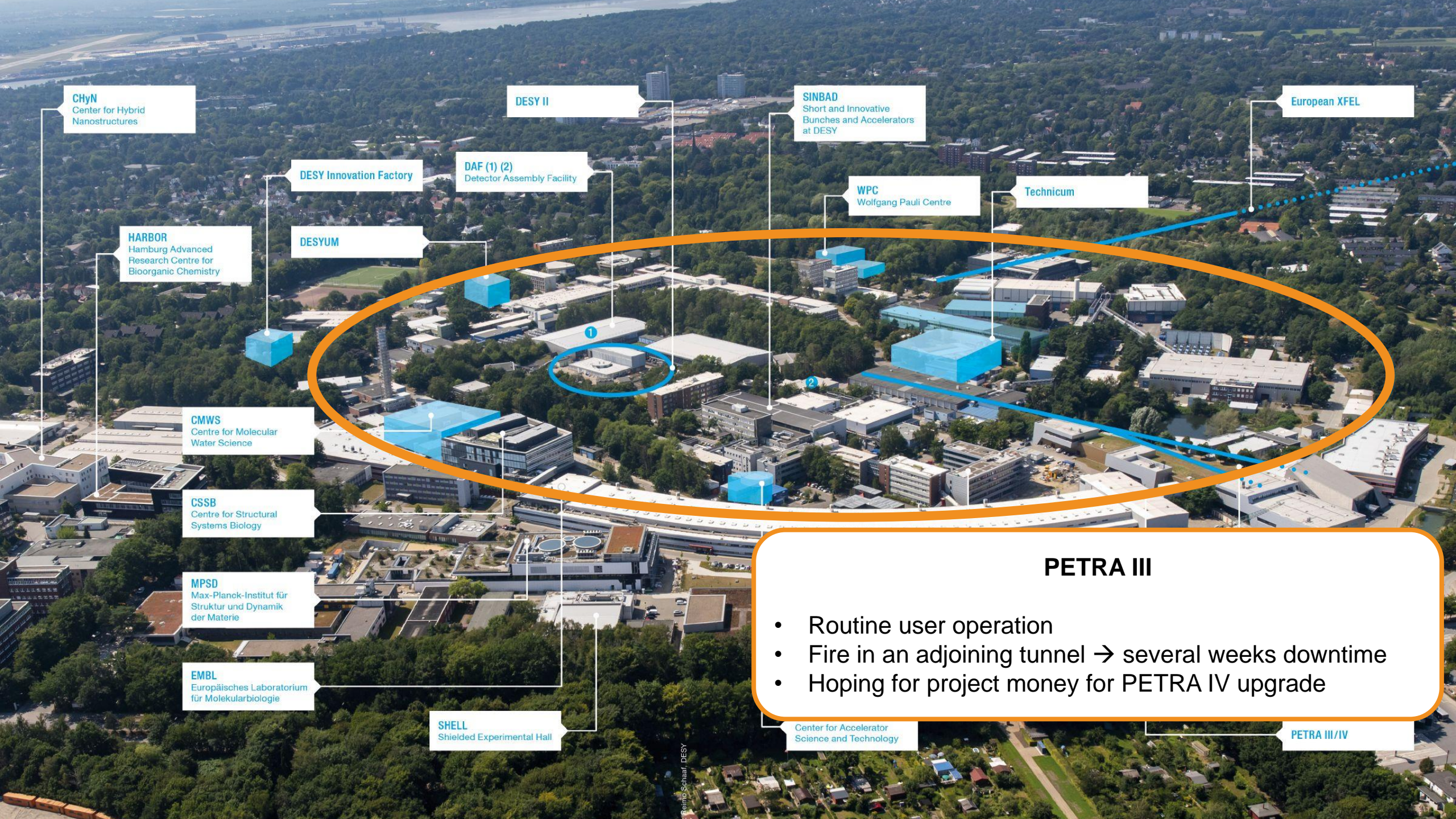
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PETRA III/IV

PETRA III

- Routine user operation
- Fire in an adjoining tunnel → several weeks downtime
- Hoping for project money for PETRA IV upgrade



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DESY II

SINBAD

European XFEL

FLASH

- Currently in long shutdown
- FLASH1 tunnel completely empty, beamline to be rebuilt with new undulators & seeding
- Restart in summer

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PETRA III/IV



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Short-pulse
Injector

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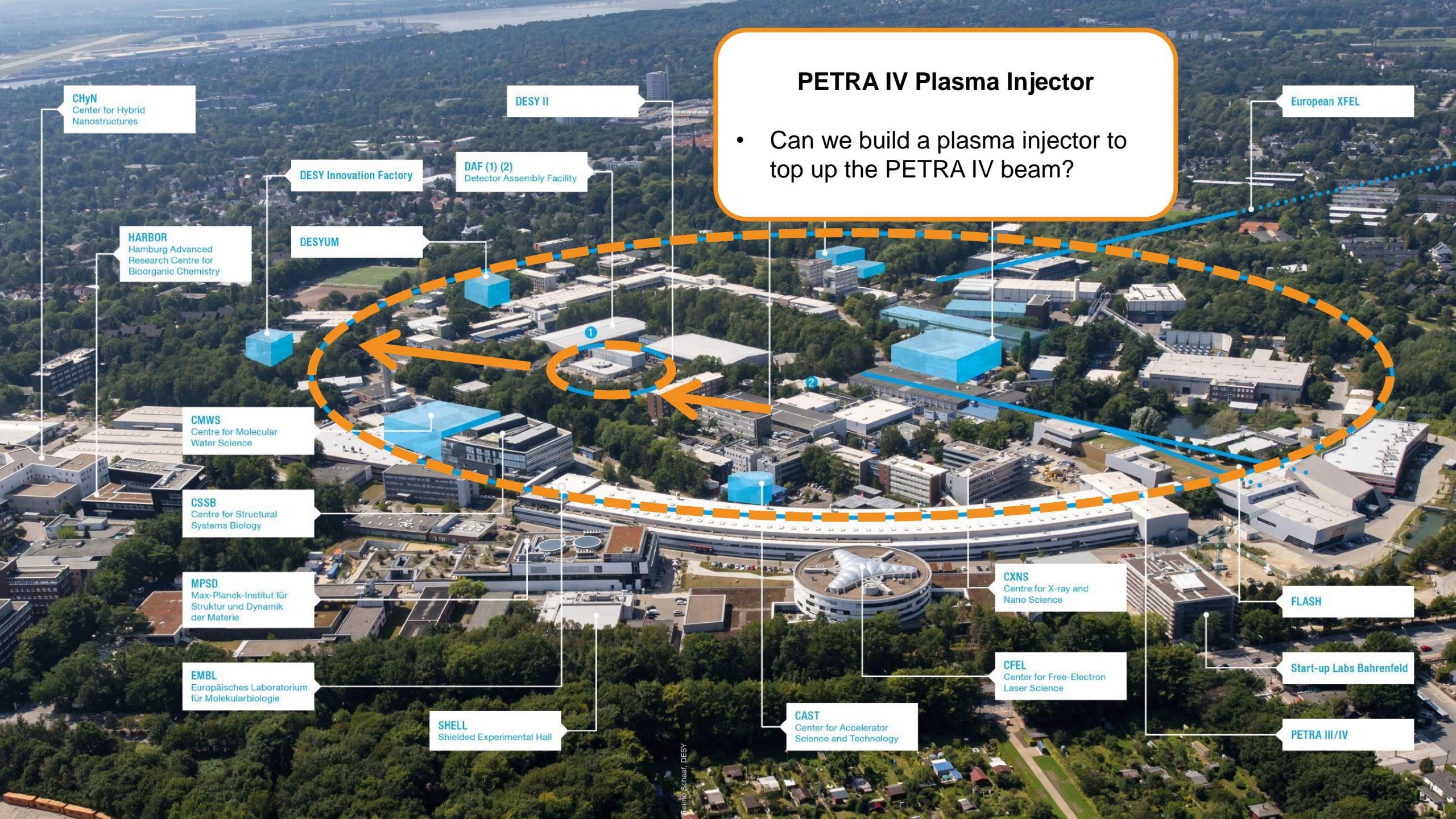
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PETRA III/IV

KALDERA

- Flagship laser project
- Goal: 100 TW peak power at ≤ 1 kHz for plasma wakefield acceleration
- First operation with controls, 100 Hz master timing



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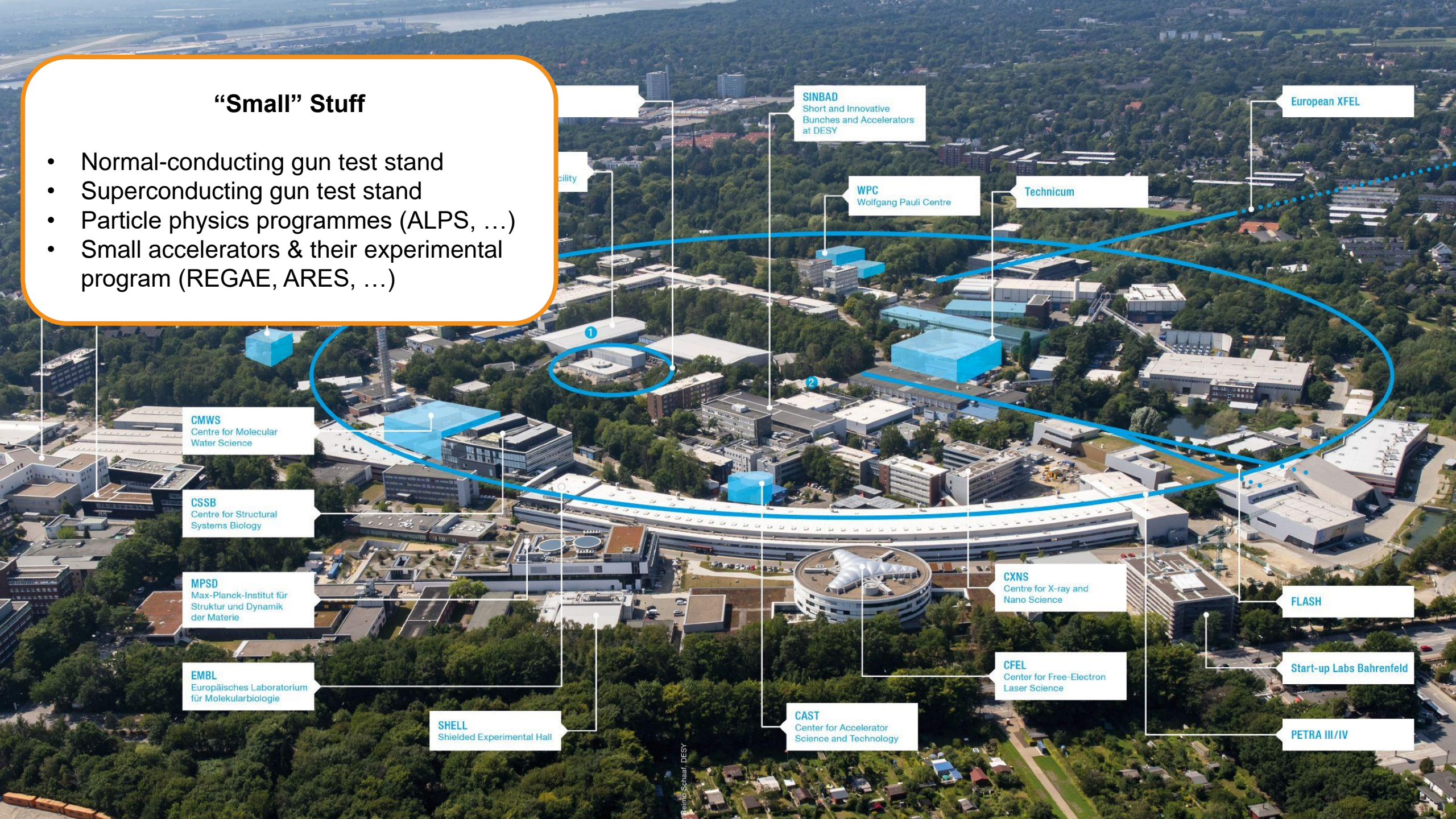
PETRA III/IV

PETRA IV Plasma Injector

- Can we build a plasma injector to top up the PETRA IV beam?

“Small” Stuff

- Normal-conducting gun test stand
- Superconducting gun test stand
- Particle physics programmes (ALPS, ...)
- Small accelerators & their experimental program (REGAE, ARES, ...)



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