# DESY facility update

**IFDEPS-2021 Virtual Thursdays** 

Heinz Graafsma; Photon Science - Detector Group (FS-DS) March-April 2021



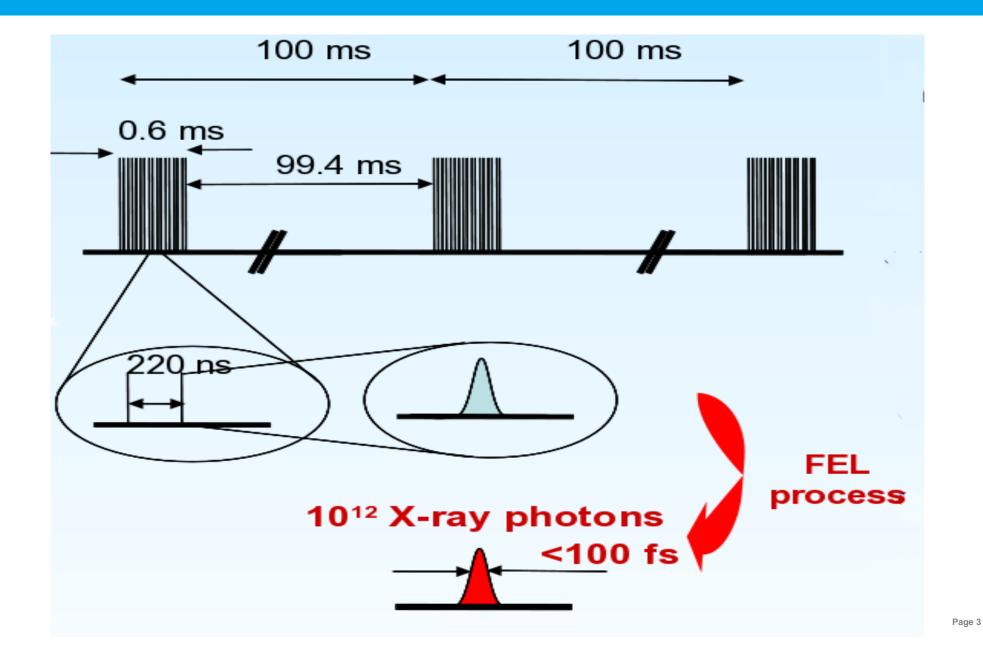






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# **FLASH & European XFEL: Burst-Mode machines**





More than 100-fold increase in coherent flux



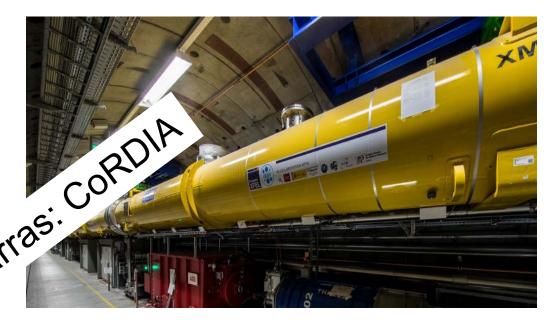
## **Requirements for future sources**

#### **PETRA-IV**

- Diffraction-Limited Storage P' soandro Martasis
  Approx continuous X-ra; Mess
  \* 100 increase in X-ray brituar
  \* asurements from a, 1005

  - scale, 10µs resolution

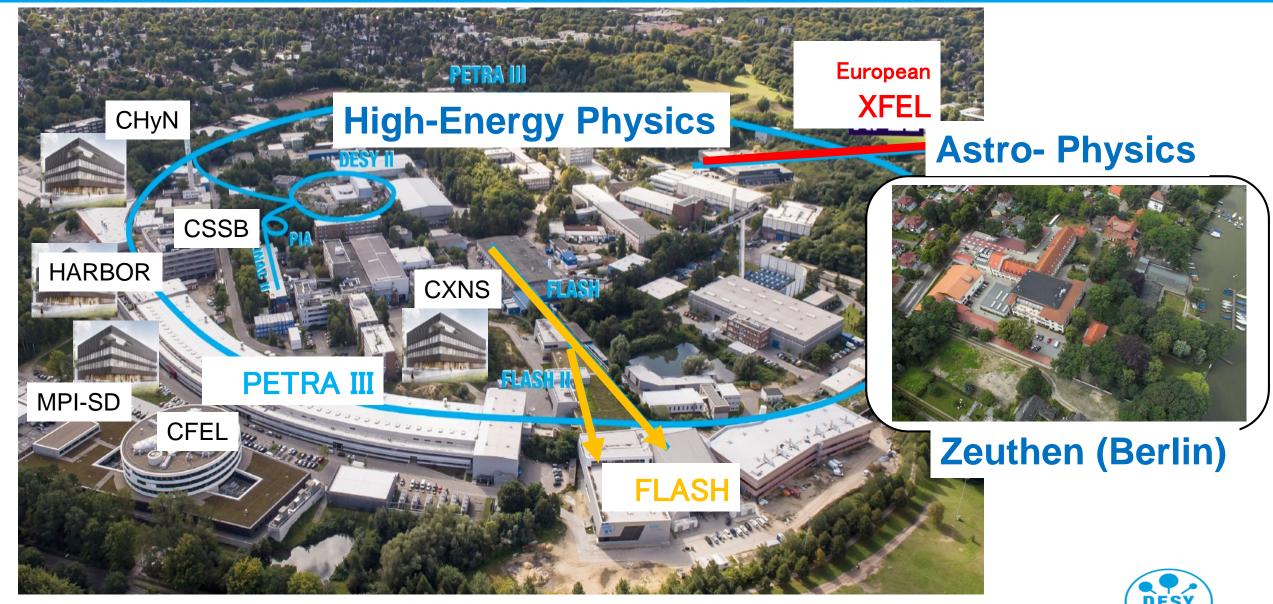
#### **CW-FLASH & CW-XFEL**



- Extremely intense X-ray pulses
- 100 kHz to 1MHz continuous bunch rate
- "Flash photography" on atomic scales



## **DESY: Research Center**



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# **DESY 2030: (Photon) Science in Science City Bahrenfeld**



# (part of the) Photon-Science Detector-Systems Group

