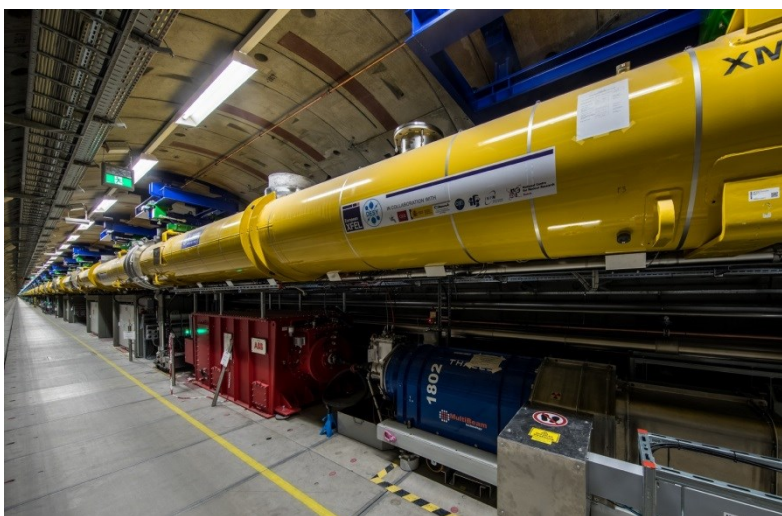




High Frame Rate X-ray Imager for Photon Science

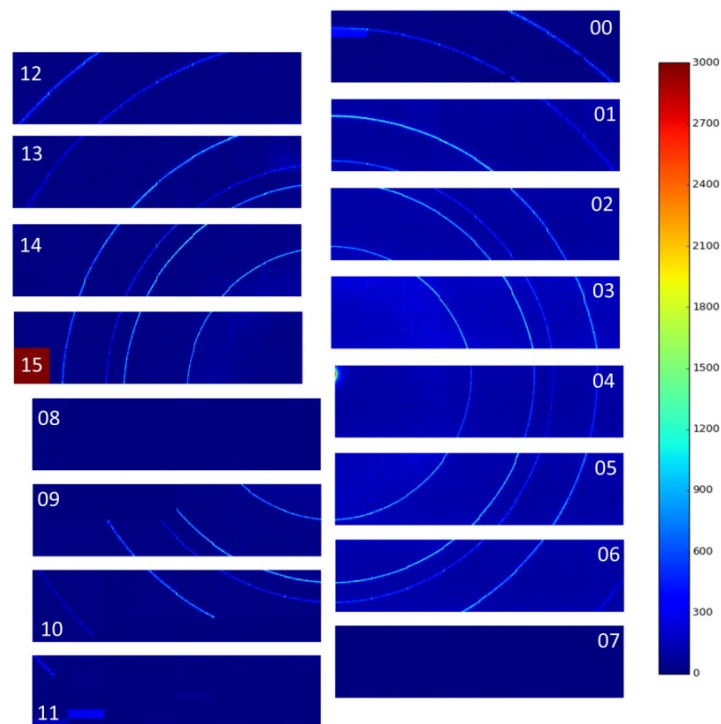
D. Pennicard, U. Trunk, C. Wunderer, S. Smoljanin and H. Graafsma – DESY

European XFEL CW upgrade

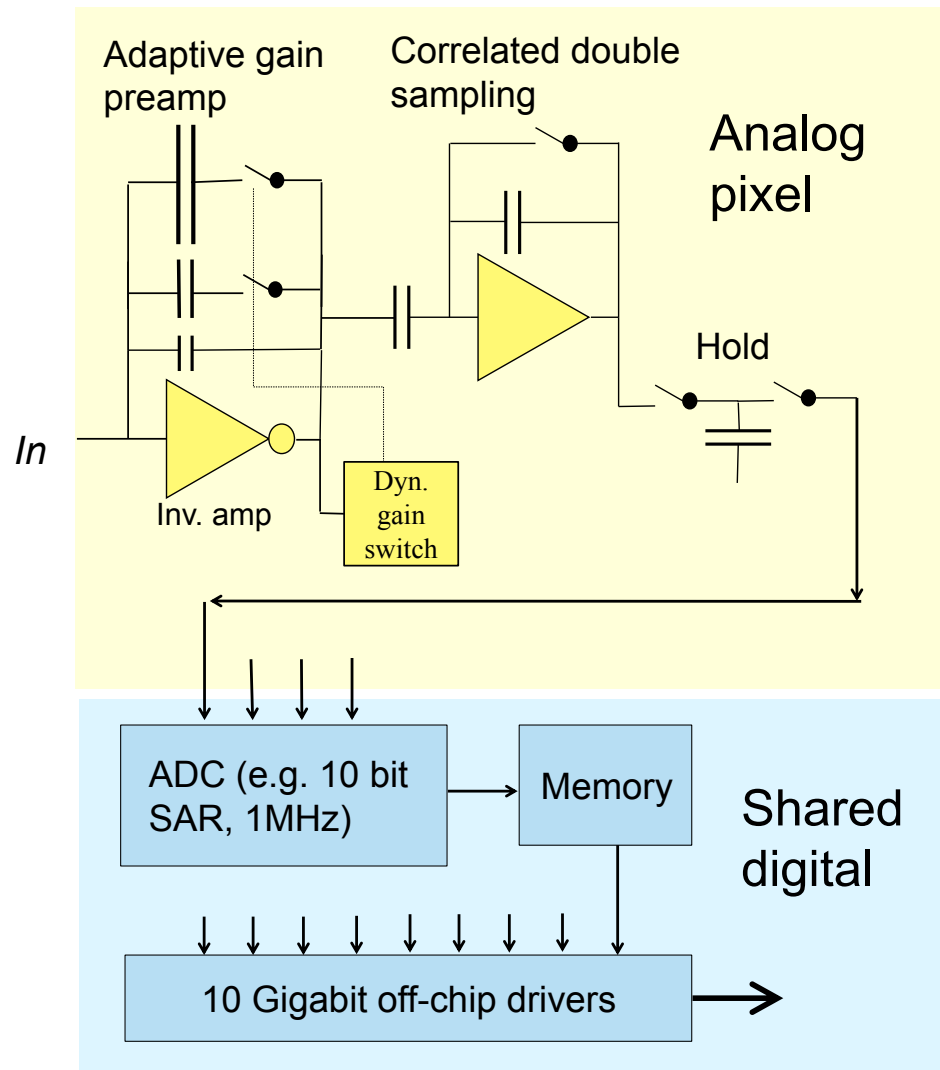
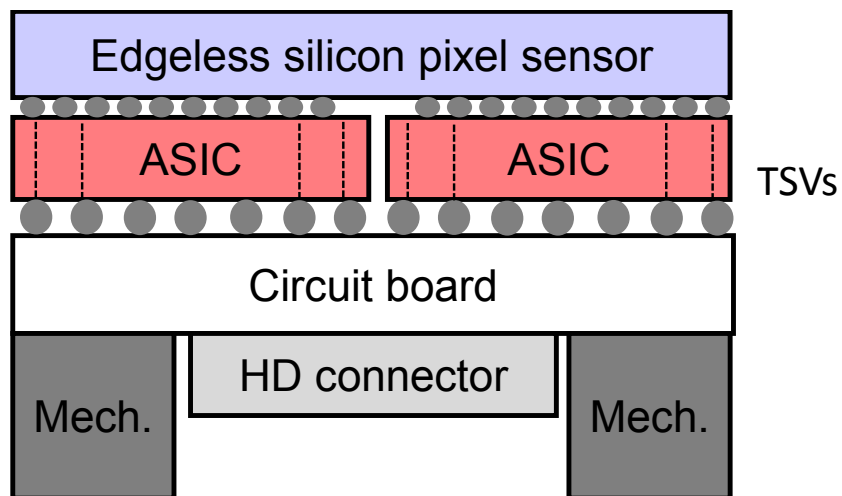


X-ray “flash photography” at atomic scales

Multi-megapixel, 100,000 fps+ X-ray camera



Detector head proposal



High-speed DAQ

- > 400 Gbit/s per module would allow:
 - 100 μm pixels and 300 kHz frame rate
 - 60 μm pixels and 100 kHz frame rate

