

From Particle Physics to Products

AIDA Hamburg - March 27, 2012



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INSTRUMENTS

Our Vision & Strategy

- Transfer high-tech innovations to turn-key solutions for the global diagnostic tools market
- Always stay at the forefront of scientific and technological developments
- Stimulate knowledge transfer by an open and collaborative relation with our strategic partners



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High-tech Spin-out @ Center

Business

Venture Capital



Supervisory Board



Strategic Partners

Business & Technology

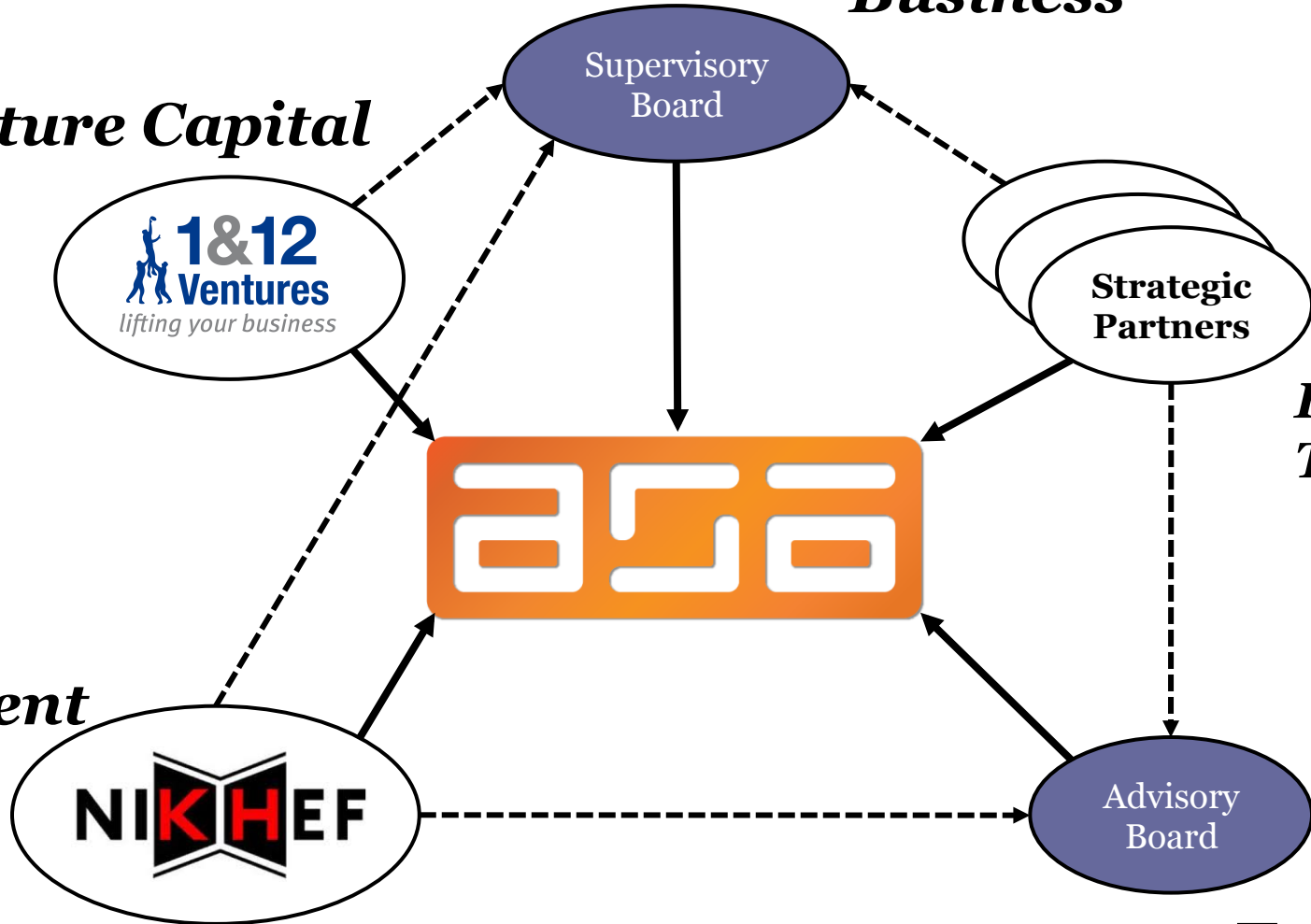


Parent

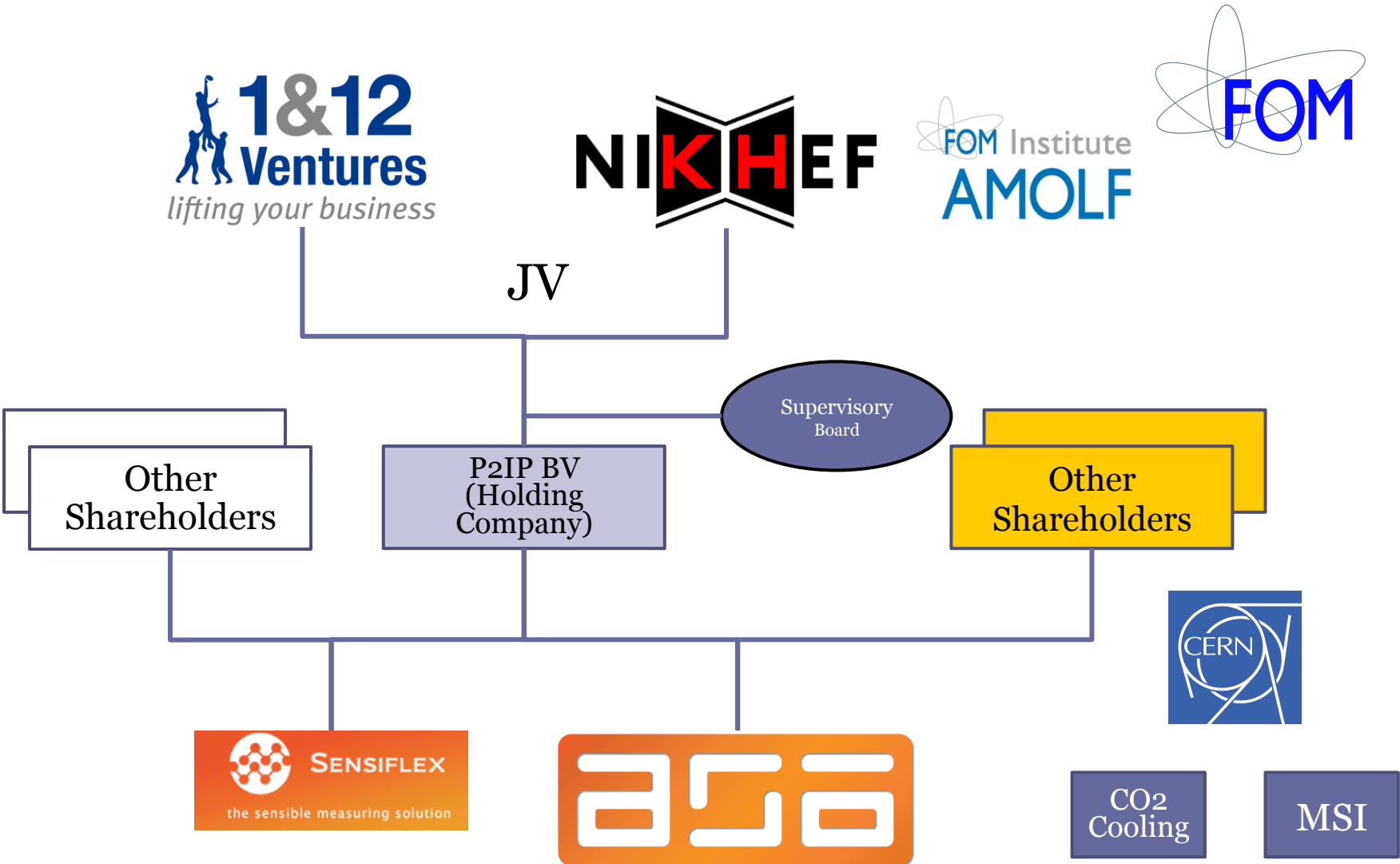


Advisory Board

Technology

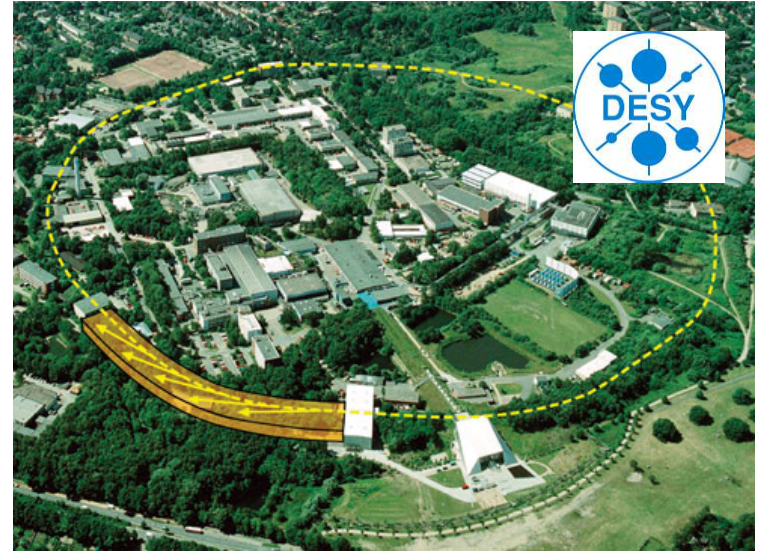


Combining Competencies



1st Test - Mar'11

- DESY - PETRA III
- Cooperation with Nikhef & PANalytical

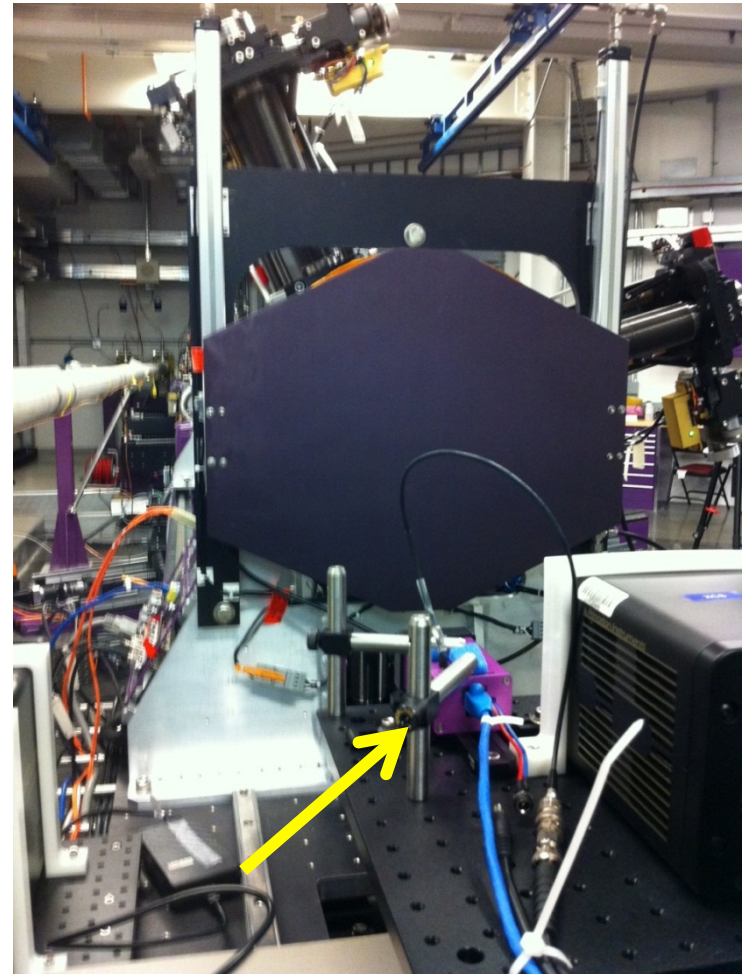




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2nd Test - Oct'11

- Synchronization with X-ray laser pulses
- Delivered QTPX-262k @ end of 2011
- Now in commissioning mode



Combined neutron and X-ray tomography

Neutron and X-ray radiography and tomography are complementary techniques.

Photo

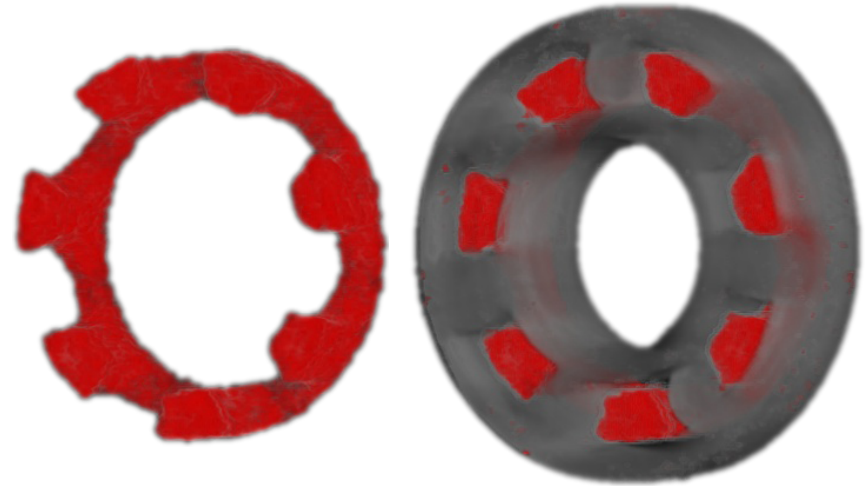


∅ 8 mm

X-ray CT



**Combined
Neutron CTneutron and X-ray CT**

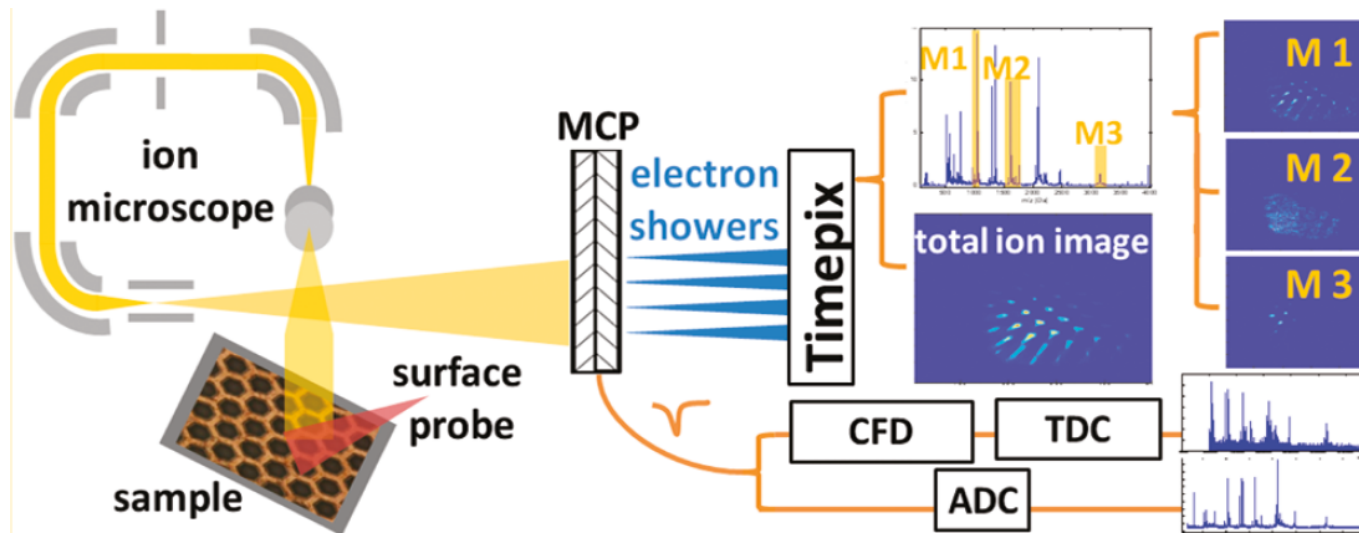


Both X-ray and neutron CT were measured with Timepix detector modified by adding 6Li based neutron converter on the surface.

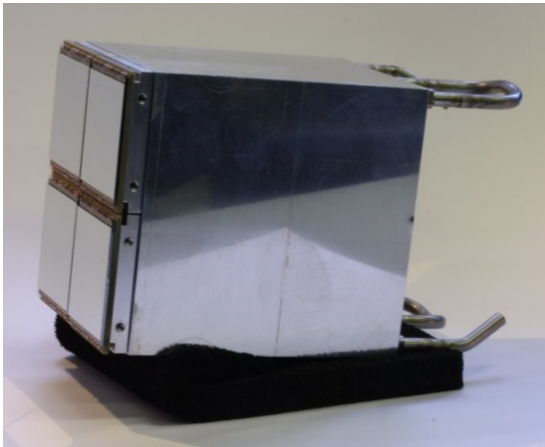
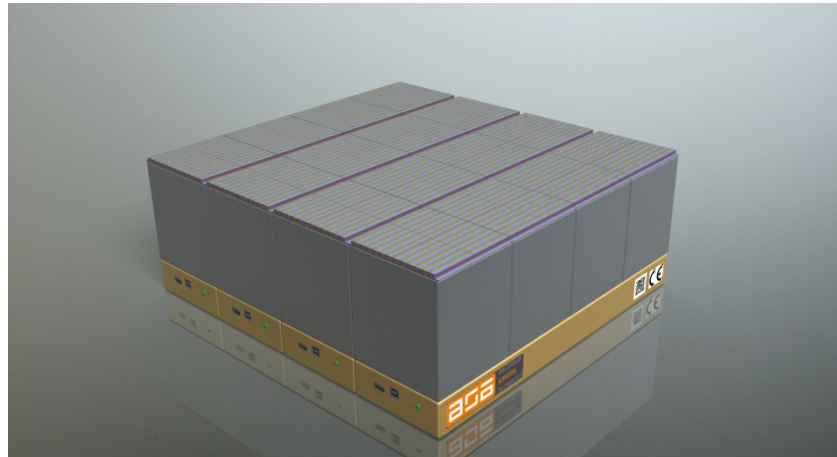
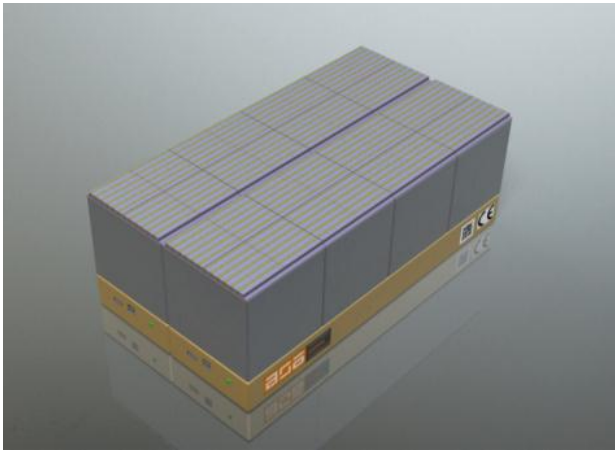
Mass Spectrometry

Scientific Collaboration between Amolf & Amolf

- New vacuum compatible detector systems for biomedical imaging: X-ray, ion and electron imaging using the Timepix chip



Future Plans - Large Area Detector



- Tiling Edgeless Detectors
- Active Cooling (CO₂)
- Faster readout



We hit the ground running and
are gaining speed