



**AIDA** 2020

Advanced European Infrastructures  
for Detectors at Accelerators

# AIDA-2020

## WP2: Innovation & Outreach

Aurelie Pezous, CERN

AIDA-2020 2<sup>nd</sup> Annual Meeting, 3-7<sup>th</sup> April 2017



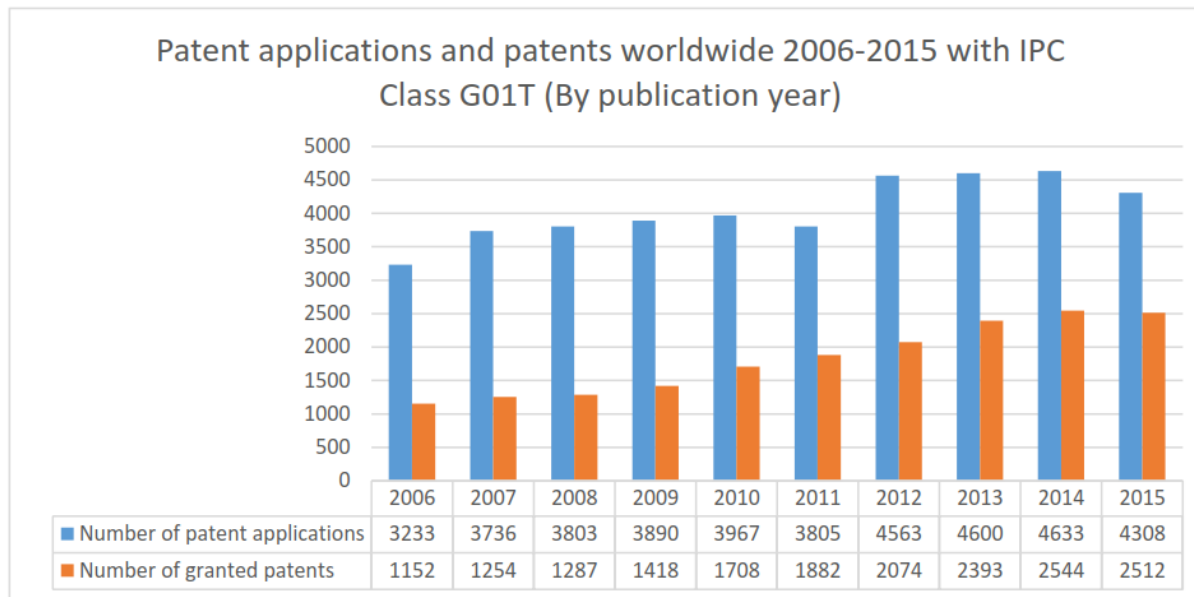
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 654168.



- Scientific Coordination
- Communication, dissemination and outreach
- Industrial relations and technology transfer
- Management of the Proof-of-Concept (PoC) fund
- Pre-industrialisation of large area silicon detectors

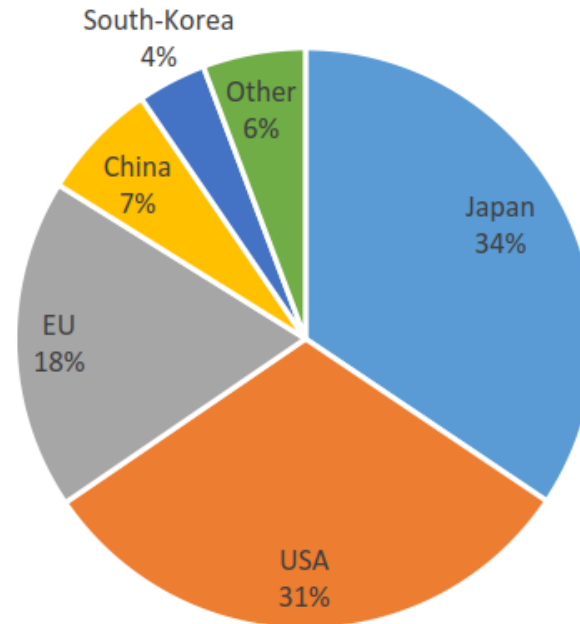


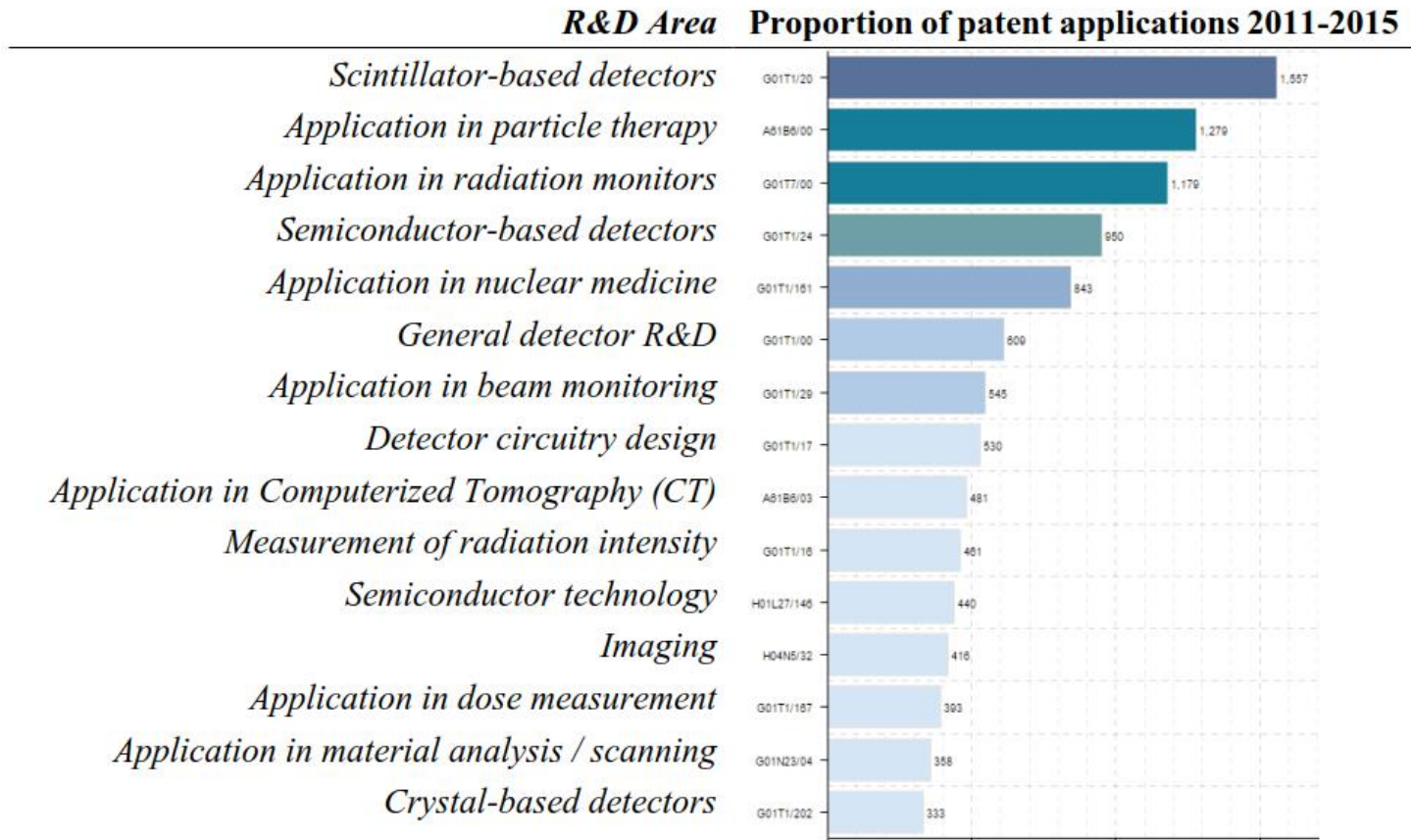
- Key technological areas (identification of technologies for potential transfer to industry)
  - Technology landscape: correlation patents-R&D
  - Data set and tools: Thomson Innovation and Intellixir
  - 57 technologies identified





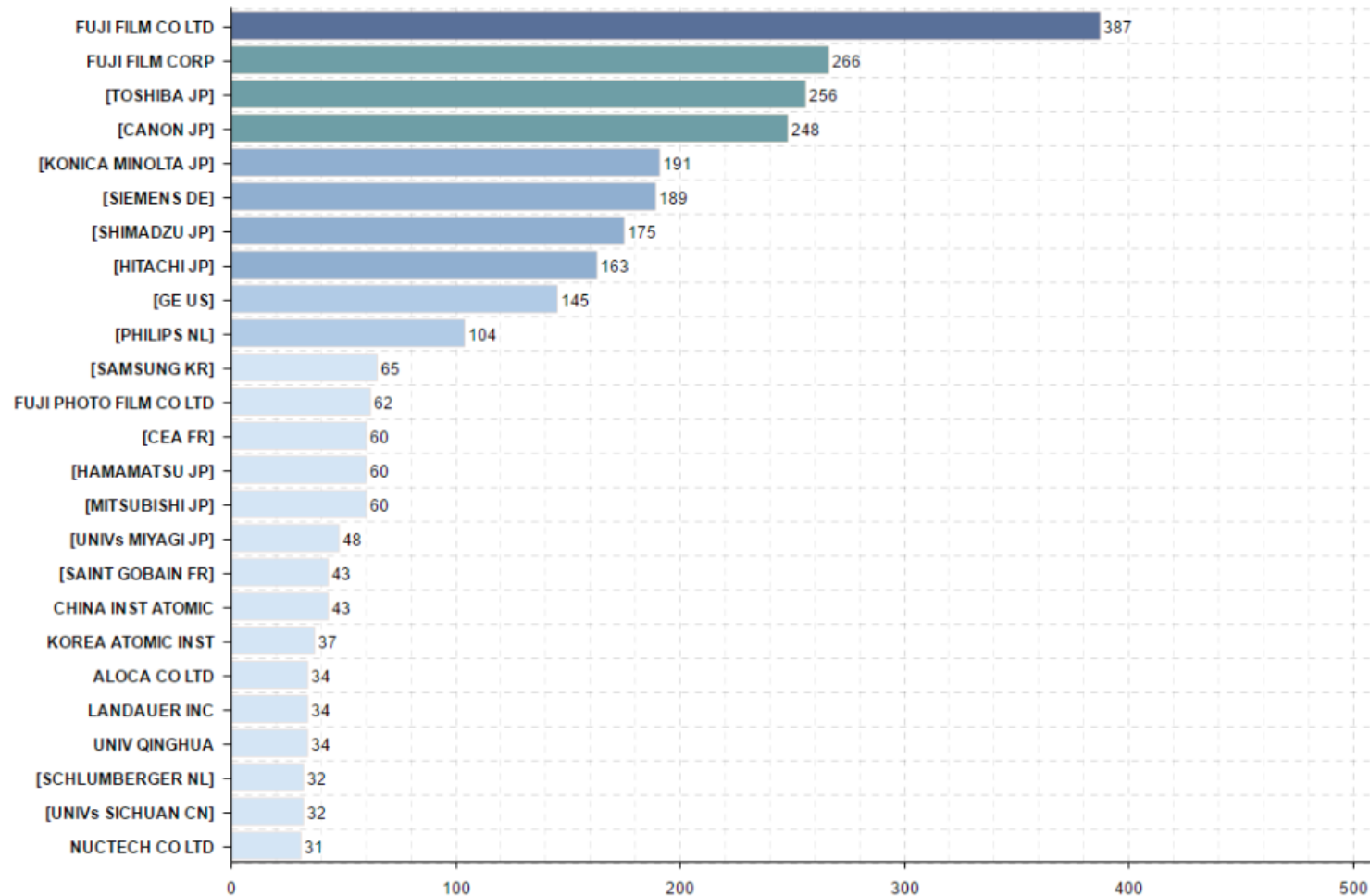
Origin of patent applications 2011-2015 with IPC Class G01T

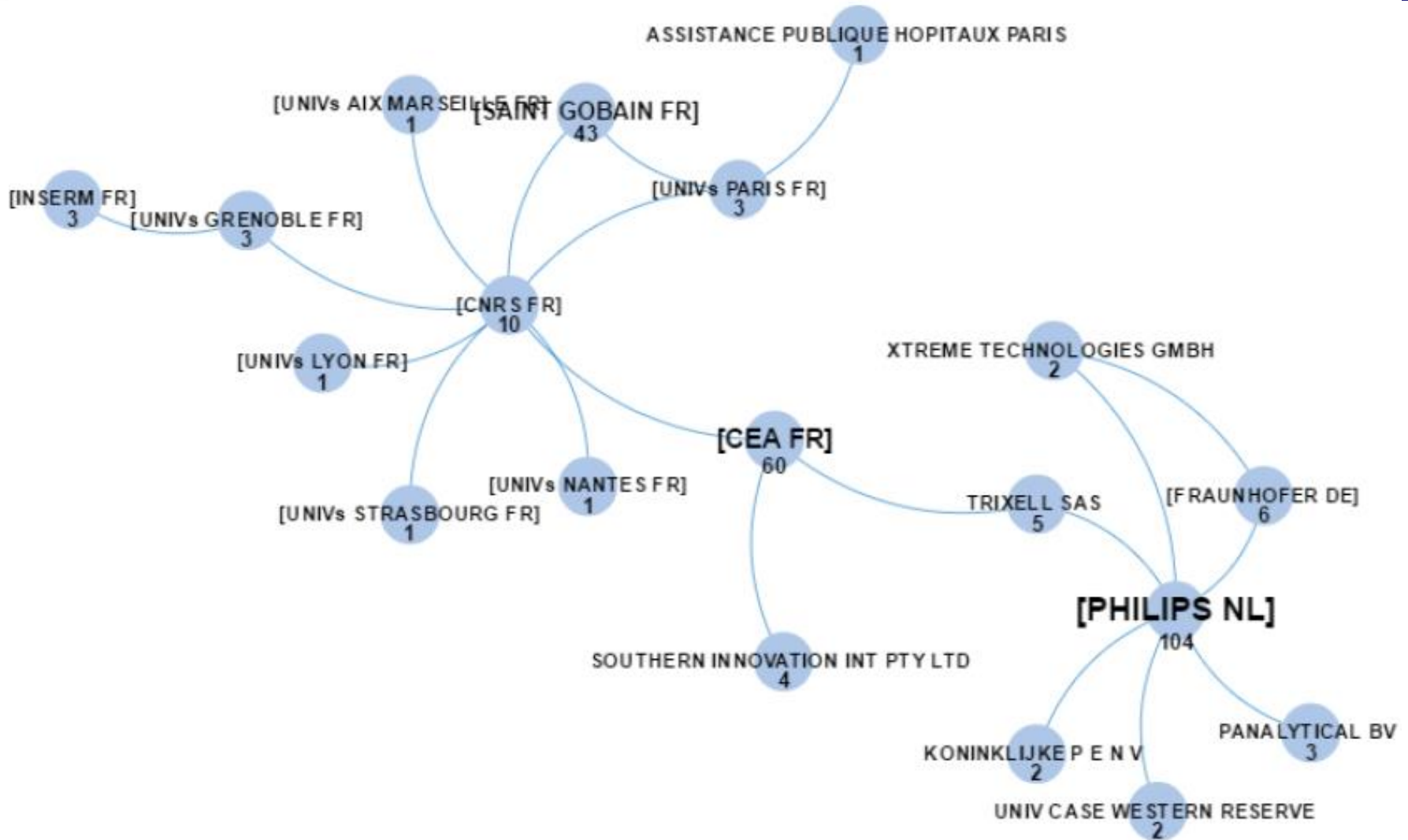






Top 25 applicants for patent applications worldwide 2011-2015

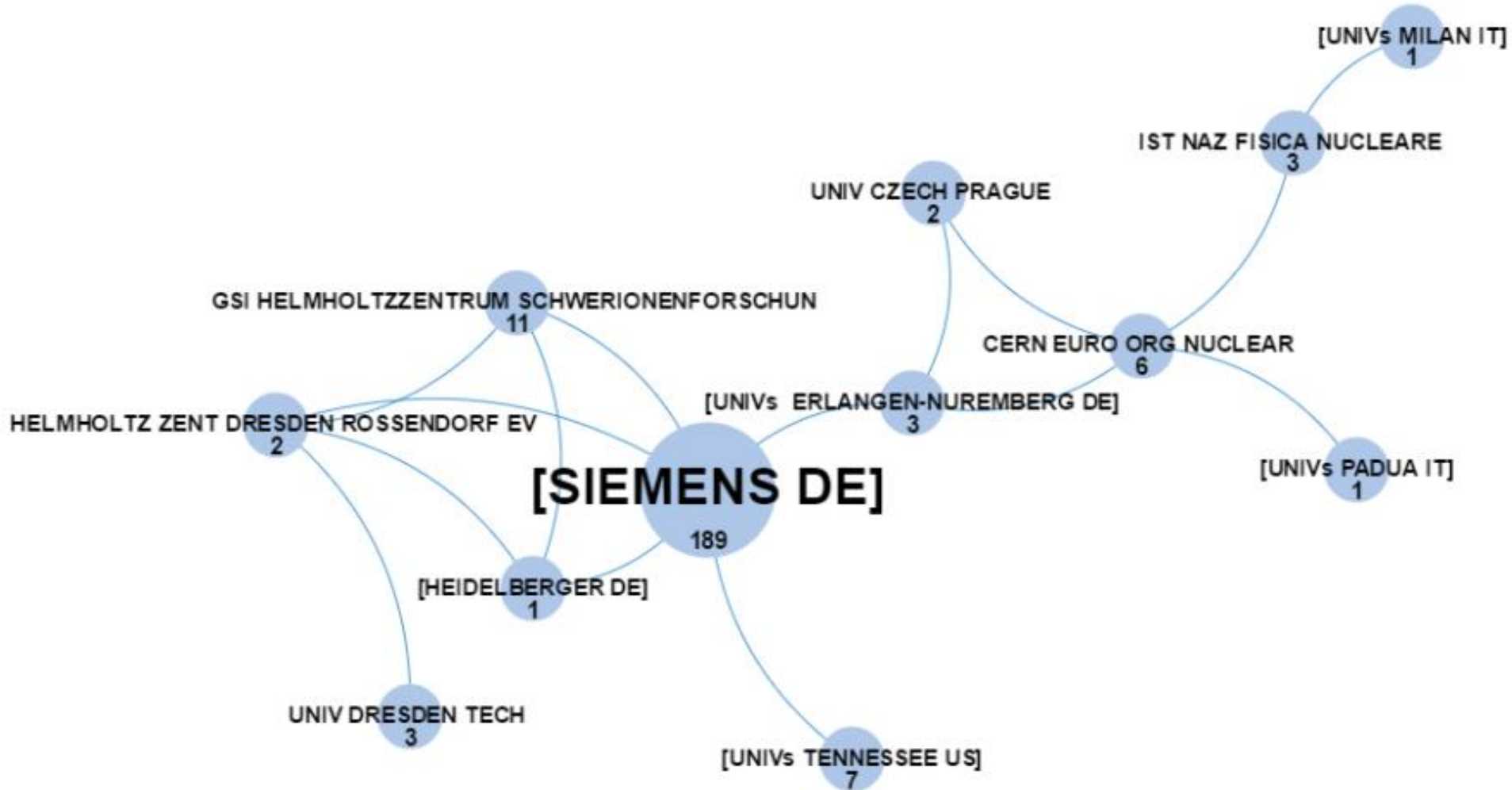




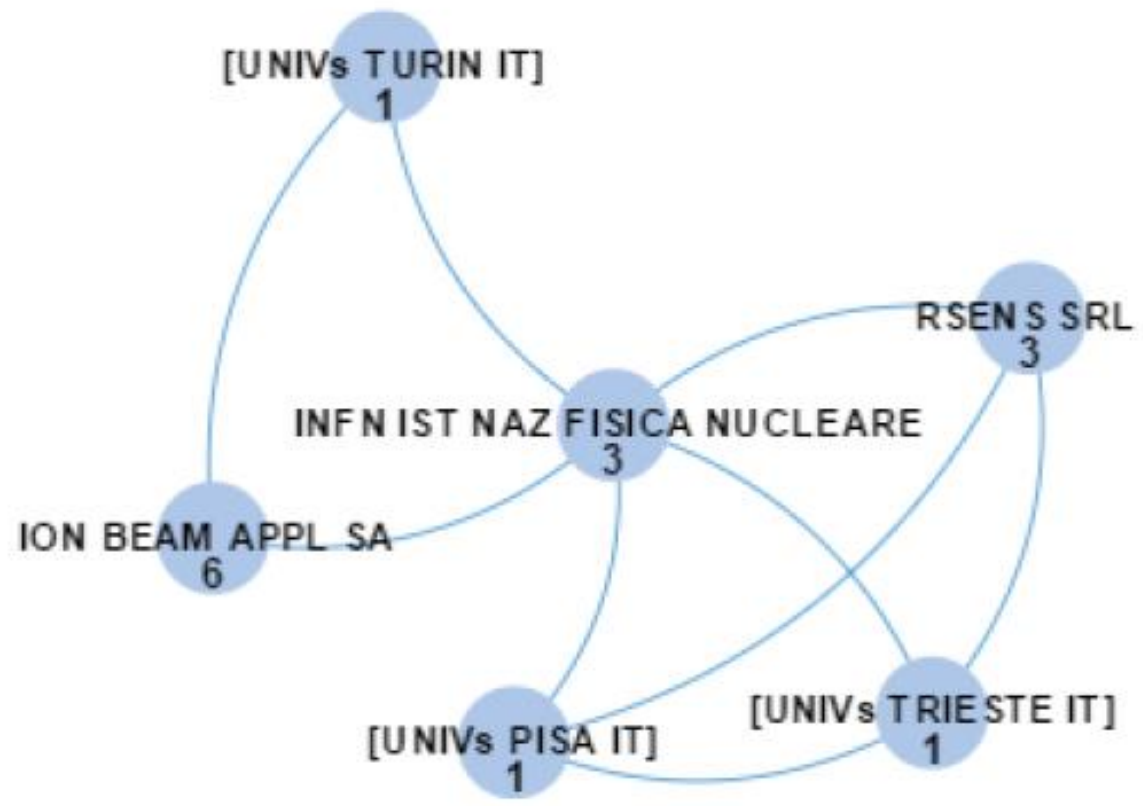


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# Task 2.3 Industrial relations and technology transfer









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## Task 2.3 Industrial relations and technology transfer

- Understand who is working with who:
  - Industrial partnership
  - Academia-industry
- List of EU companies active in detectors



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## Task 2.3 Industrial relations and technology transfer

- Academia meets Industry-Key elements:
  - 17 speakers:
    - 7 from industry
    - 10 from academia
  - 5 companies with a booth
  - 60 participants





The poster features a background image of a man in a white lab coat looking at a tablet. The text is overlaid on this image. At the top right is the AIDA 2020 logo. Below it, the text reads: 'Advanced European Infrastructures for Detectors at Accelerators', 'ACADEMIA MEETS INDUSTRY', 'Medical imaging and image processing', '3-4 April 2017', and 'CNRS-LPNHE, Jussieu Campus, Paris'. There are two main text blocks: one describing the AIDA-2020 project and another describing the 'Academia Meets Industry' event. At the bottom, there is an 'Organising committee' list with names and affiliations. Logos for CERN, CNRS, and the European Union are at the bottom left. The URL 'http://cern.ch/aida2020' and a QR code are at the bottom right.

**AIDA<sup>2020</sup>**  
Advanced European Infrastructures  
for Detectors at Accelerators  
**ACADEMIA MEETS INDUSTRY**  
*Medical imaging and image processing*  
3-4 April 2017  
CNRS-LPNHE, Jussieu Campus, Paris

The **AIDA-2020** project brings together the leading European research infrastructures in the field of detector development and testing and a number of institutes, universities and technological centers, thus assembling the necessary expertise for the ambitious programme of work.

The first Academia meets Industry hosted by **CNRS-LPNHE** at Université Pierre et Marie Curie in Paris will focus on **Medical Imaging and Image Processing**. This event aims at fostering synergies between detector R&D programmes of AIDA-2020 members and the industry, by creating awareness of strategic R&D topics in academia and of strategic industry needs for which industry-academia collaborations could be envisaged.

**Organising committee:**  
Etienne Auffray-Hillemanns (CERN)  
David Brasse (CNRS)  
Aurelie Pezous (CERN)  
Giovanni Porcellana (CERN)

   | <http://cern.ch/aida2020> 



- Major topics:
  - Scintillators
  - PET/MRI/CT
  - Machine learning
  - Data treatment



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## Task 2.4 Management of the Proof-of-Concept (PoC) fund

- Objectives of PoC:
    - General field of detector development
    - Collaborative project industry oriented
    - Bringing technologies closer to the market
- Impact beyond high energy physics



- 11 valid proposals received
- Evaluation Panel meeting 25/11/2016
- Interview of the 5 highest ranking projects 14/12/2016
- 3 projects funded:

Budget €	Title	Lead Institute	Partners
<b>45,600 €</b>	Silicon-based Microdosimetry System for Advanced Radiation Therapies	Instituto de Microelectronica de Barcelona	
<b>74,825 €</b>	Advanced Through Silicon Vias for Pixel Detectors	University of Bonn	Fraunhofer IZM
<b>66,641 €</b>	RaDoM	CERN	Politecnico di Milano, Mi.am



- Deliverables since last annual meeting
  - D2.1: Key technological areas (identification of technologies for potential transfer to industry)
  - D2.2: PoC selection (selection and definition of grants for the projects)
- Milestones since last annual meeting
  - MS10: Criteria to define, identify, and select key technologies for the PoC Fund
  - MS30: Identification of European company(s) interested in large area sensor production
  - MS38: Review and selection of the project(s) to support through the PoC Fund



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# Milestones and Deliverables

- Expected milestones:
  - MS45: 1<sup>st</sup> AIDA-2020 “Academia meets Industry” event (M24)
  - MS71: Progress review of the selected projects(s) for the PoC Fund (M34)
  - MS79: 2<sup>nd</sup> AIDA-2020 “Academia meets Industry” event (M36)



- Follow-up PoC projects
- Strengthen the links with TTO
- Organize AMI-2 : any idea on a topic are welcome



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**Thank you for listening**