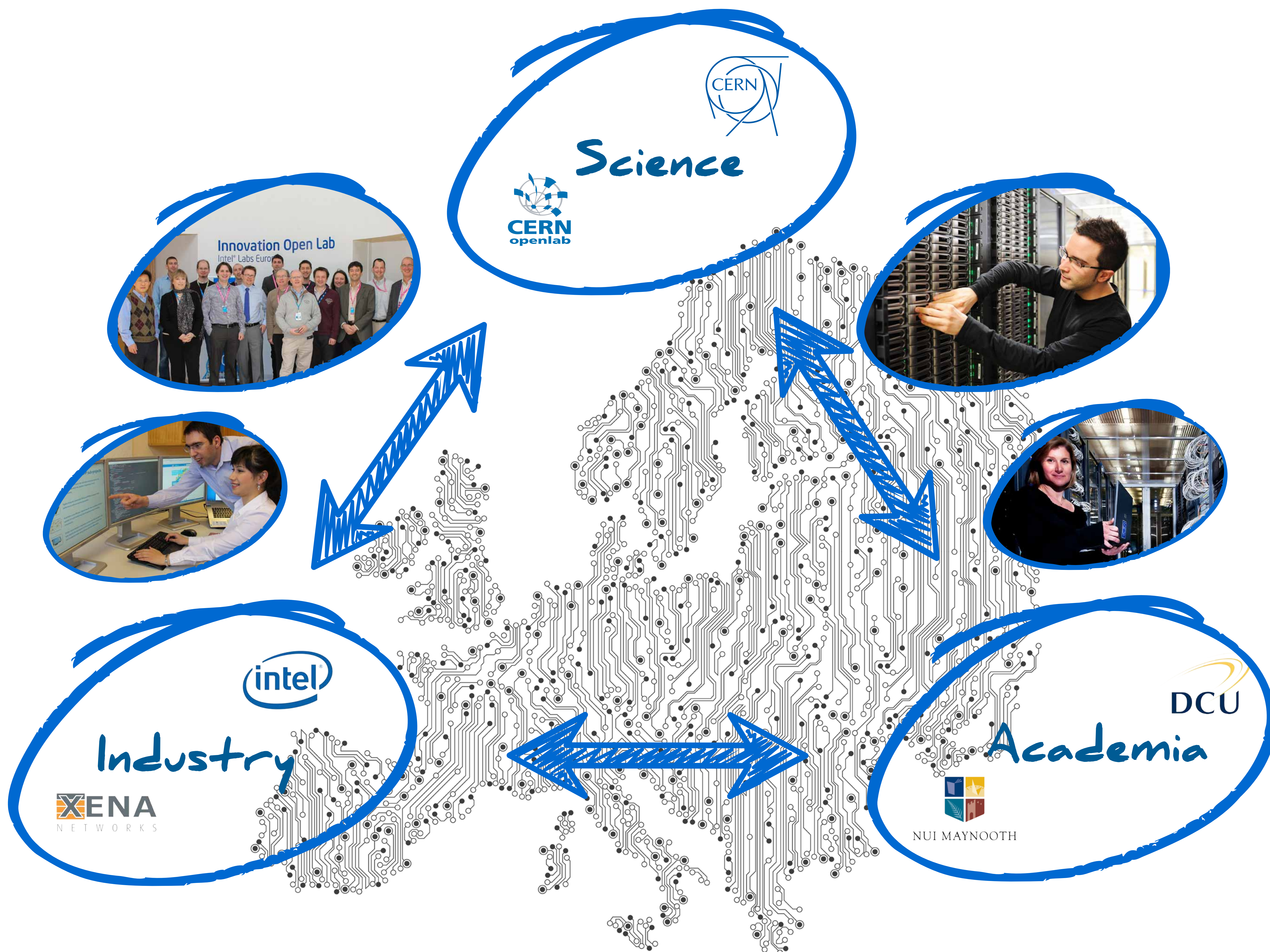# ICE-DIP 2013-2017:
The Intel-CERN European Doctorate Industrial Program

>> A public-private partnership to research solutions for next generation data acquisition networks, offering research training to five Early Stage Researchers in ICT

Science

Industry

Academia

Research topics:

▸ Silicon photonics systems
▸ Next generation data acquisition networks

▸ High speed configurable logic
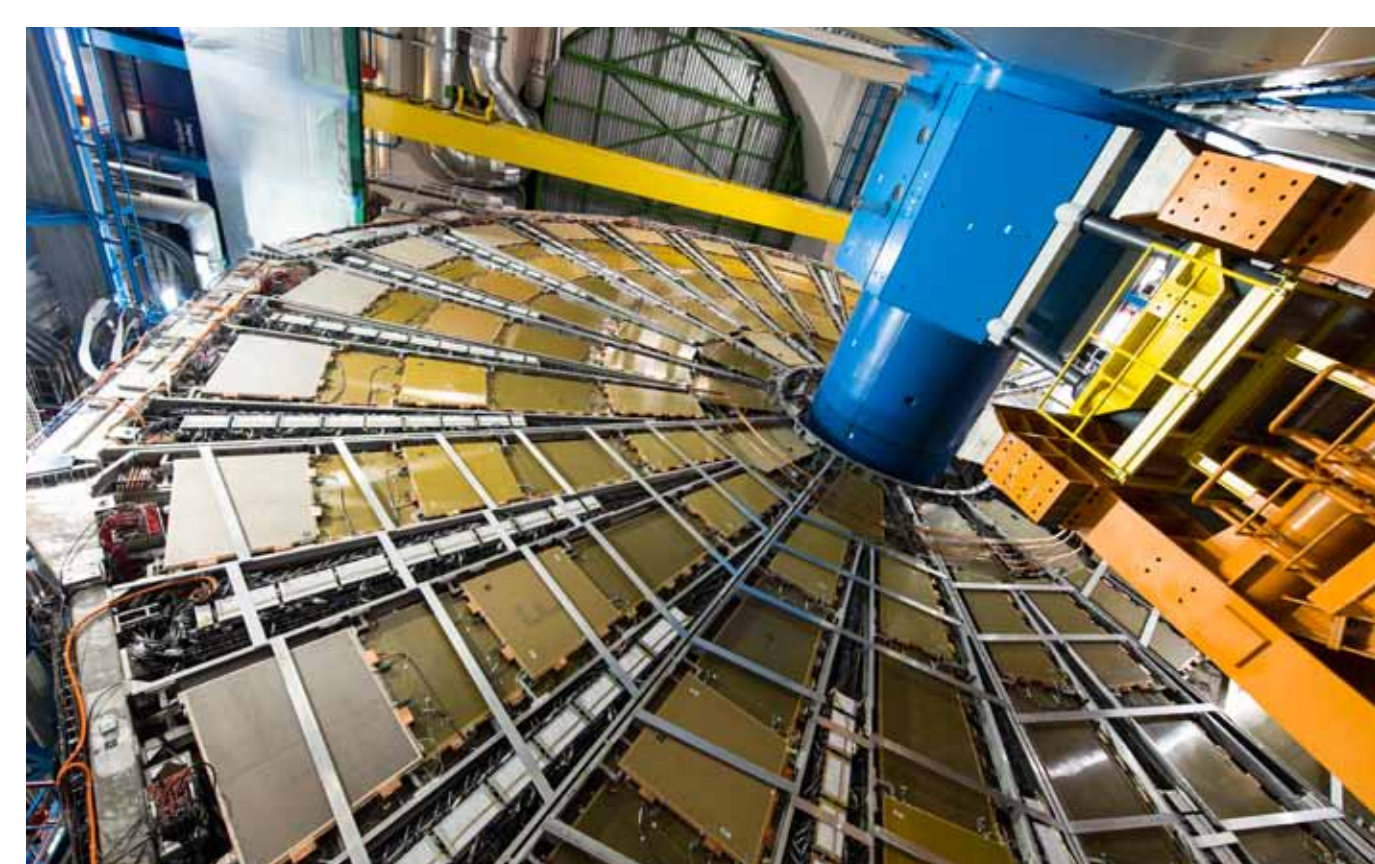▸ Computing solutions for high performance data filtering

Building on CERN's long-standing relationship with Intel in the CERN openlab project, ICE-DIP brings together CERN and industrial partners, Intel and Xena Networks, to train five Early Stage ICT Researchers. Funded by the European Commission and enrolled in the doctoral programmes at partner universities Dublin City University and National University of Ireland Maynooth, the researchers will go on extended secondments from CERN to Intel Labs Europe locations across Europe during their three-year training programme.

The primary focus will be the development of novel data acquisition techniques relevant to the Large Hadron Collider experiments. This will require the investigation of many new, untested ideas, such as the use of silicon photonics for network links in harsh operating conditions and new computing architectures. Developments made by ICE-DIP researchers will be of great interest to many laboratories and business sectors.

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