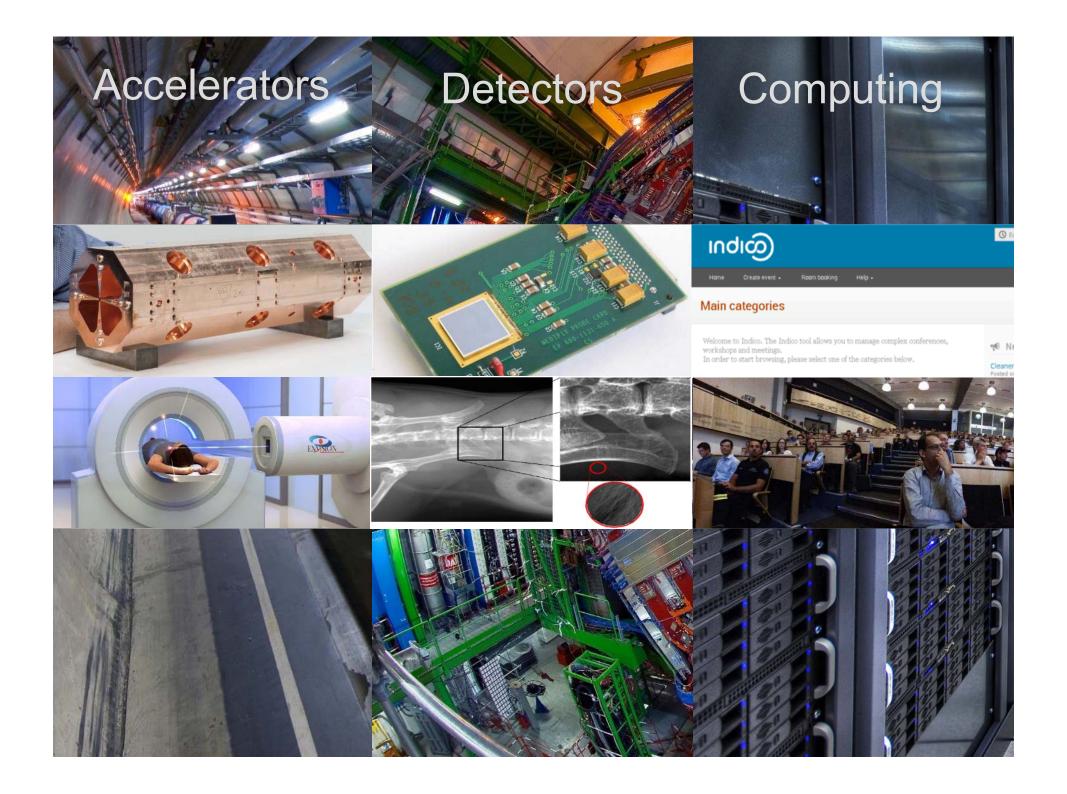
Knowledge Transfer at CERN



David Mazur

IP Dissemination Section Leader Knowledge Transfer Group CERN





KT Mission

Maximize the technological and knowledge return to Society, specially in the Member States

Promote CERN's image as a center of excellence for technology



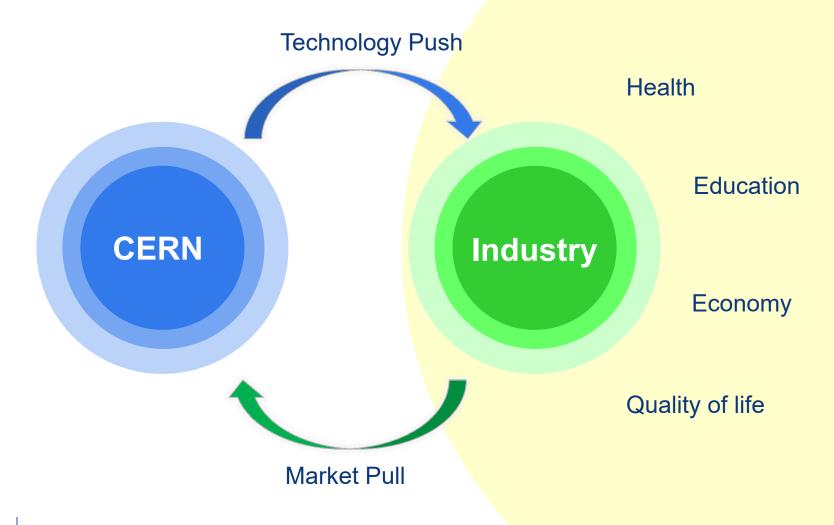
Key words: dissemination and impact!





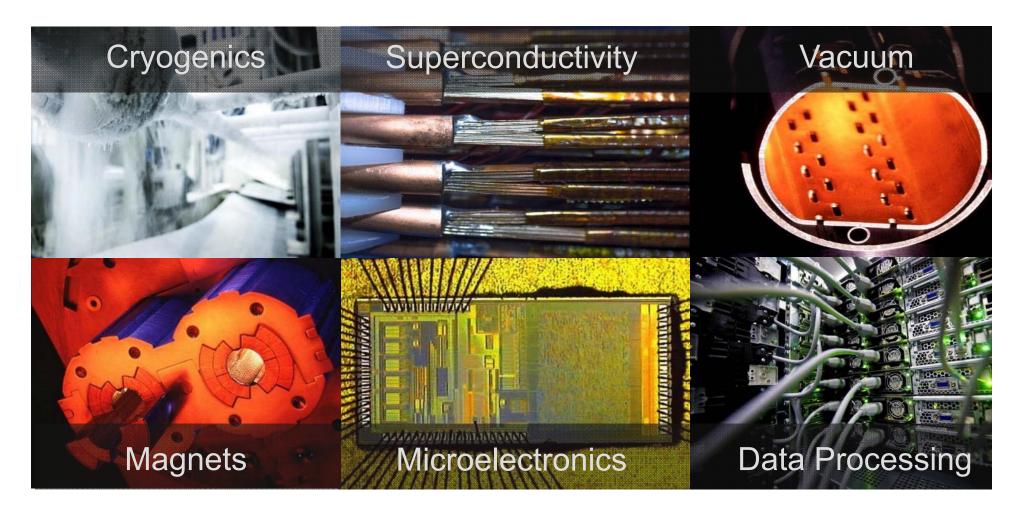


Crossing the bridge to industry



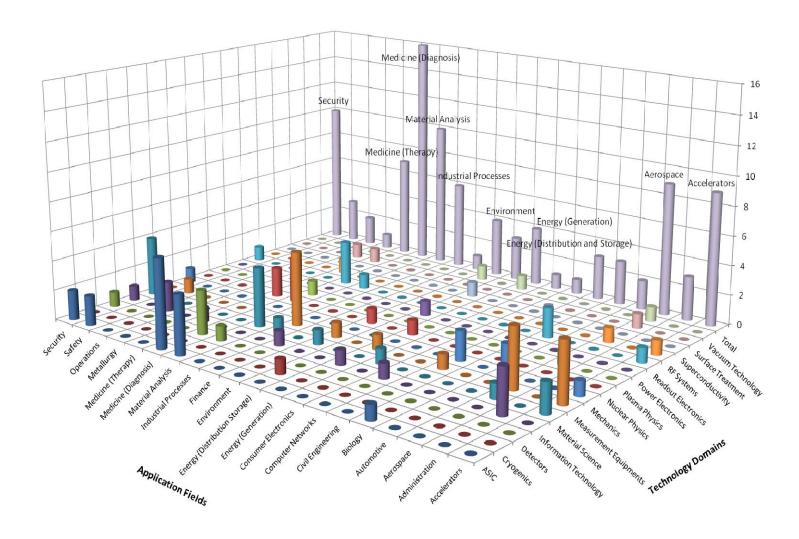


CERN Core Competences





CERN's Technology Portfolio





From high vacuum... to solar energy



CERN Technology

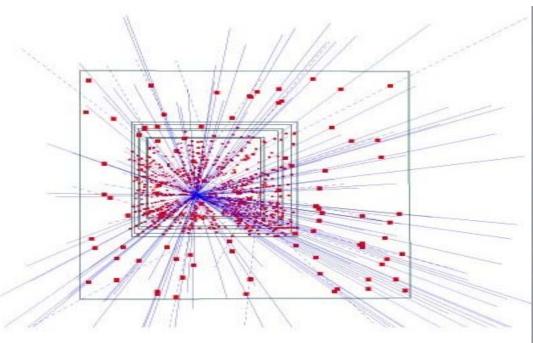
Non-Evaporable Getter Coating

Industry (spin-off):

High Efficiency Solar Collectors



From silicon pixel detectors to X-Ray diffractometers





CERN Technology

Hybrid silicon pixel detector

Industry (license):

X-Ray Diffractometer







ENLIGHT



CERN phi to health field

ENLIGHT

HIGHLIGHTS

10 years on

- Common mu
- Identify chal
- Share know
- Share best
- Harmonise
- Provide tr
- Innovate
- Lobbying

Coordinate



> 400 people

> 25 countries

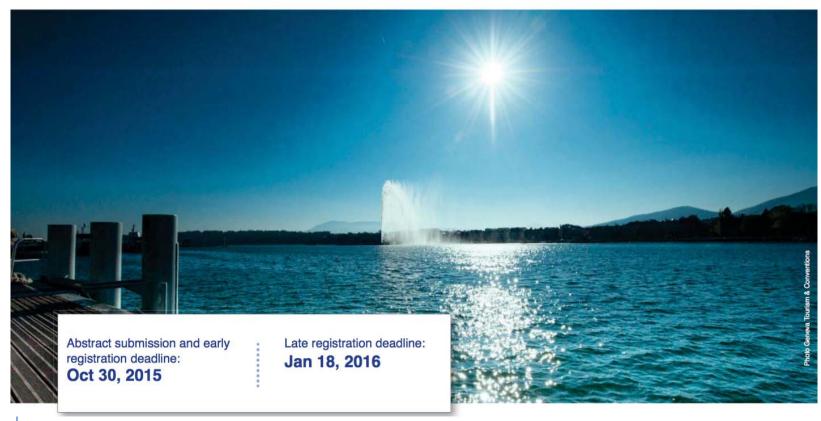
(with >80% of MS involved)





INTERNATIONAL CONFERENCE ON TRANSLATIONAL RESEARCH IN RADIATION ONCOLOGY | PHYSICS FOR HEALTH IN EUROPE

February 15 – 19, 2016 CICG, Geneva, Switzerland





Business Incubator Centres (BIC) of CERN Technologies

Established incubators:

UK STFC-CERN BIC

Netherlands NIKHEF-CERN BIC

Norway NTNU-CERN BIC

Greece Technopolis-CERN BIC

Austria accent-CERN BIC

France InnoGex

Finland Finnish BIC of CERN Technologies



Turning CERN technologies into new business opportunities







spin-off



technology

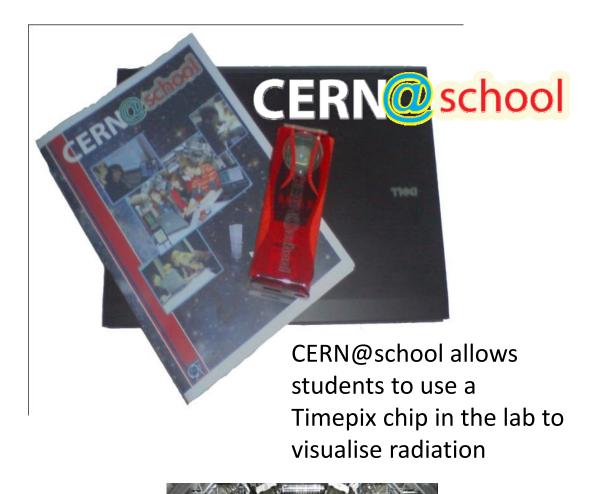


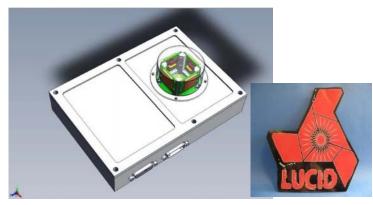
supplier



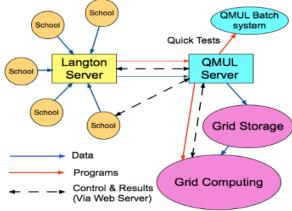
CERN in Society







Langton Ultimate Cosmic ray Intensity Detector uses 5 Timepix chips to monitor the radiation environment in Space



Data from LUCID and CERN@school detectors will be uploaded to the Grid and made available for students to analyse

Knowledge Transfer | Accelerating Innovation



Turkey - CERN Industry Day, 05.10.2015, D. Mazur

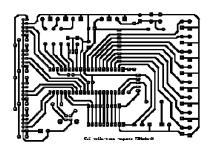
Open Source Software



And many more



Open Source Hardware and CERN Open Hardware Licence (OHL)









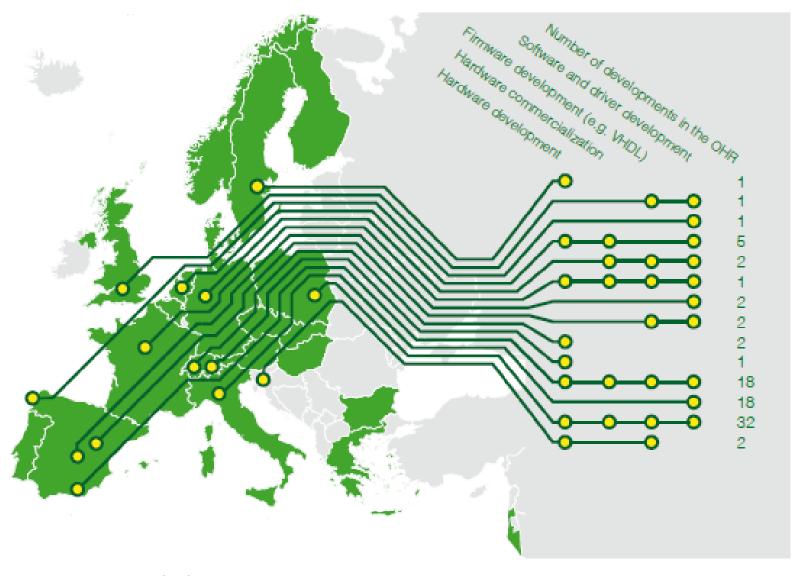
www.ohwr.org

A legal framework to facilitate knowledge exchange across the electronic design community.

Governs the use, copying, modification and distribution of hardware design documentation, and the manufacture and distribution of products.



CERN OHL: it is making an impact!





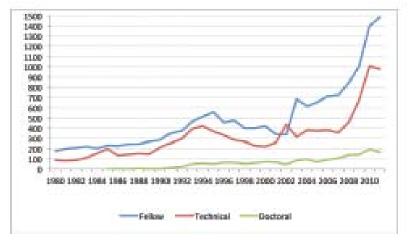
Knowledge Transfer through People

Every year, hundreds of students come to CERN to contribute to our research programs

An opportunity for young people to learn in a multicultural environment

Not only for physicists! Also engineers, computer scientists, administrative students...







European KT Networks



Forum for European Intergovernmental Research Organisations



EEN, Enterprise Europe Network



TTN, Technology Transfer Network (aka HEPTech)



TTO Circle - European Technology Transfer Offices Circle



The European Network for LIGht ion Hadron Therapy



Publications

OPENHARDWARE AT CERN

Knowledge Transfer 2014



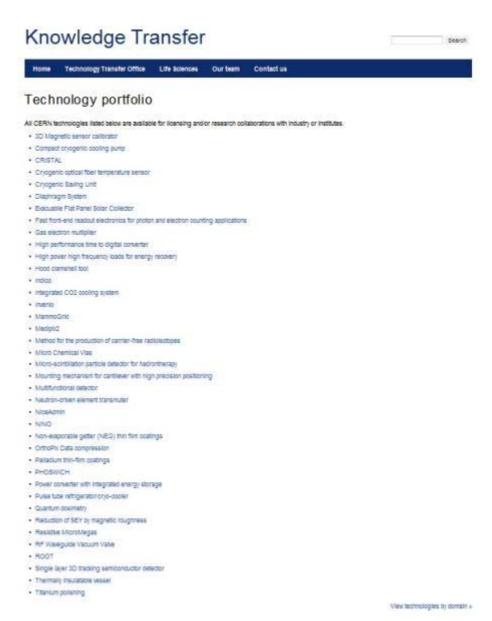


cern.ch/kt



Visit our website to have a look at our technology portfolio in detail

cern.ch/kt







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