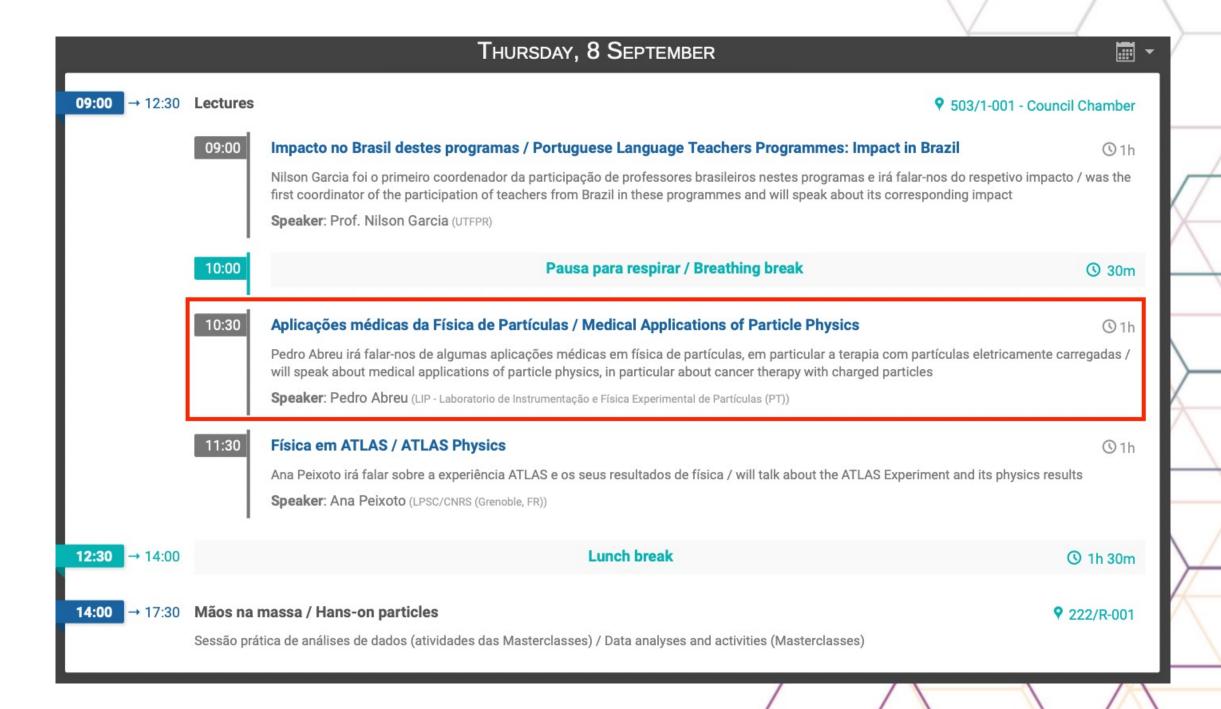
# CERN Knowledge Transfer

Aplicações da Investigação em Física de Partículas

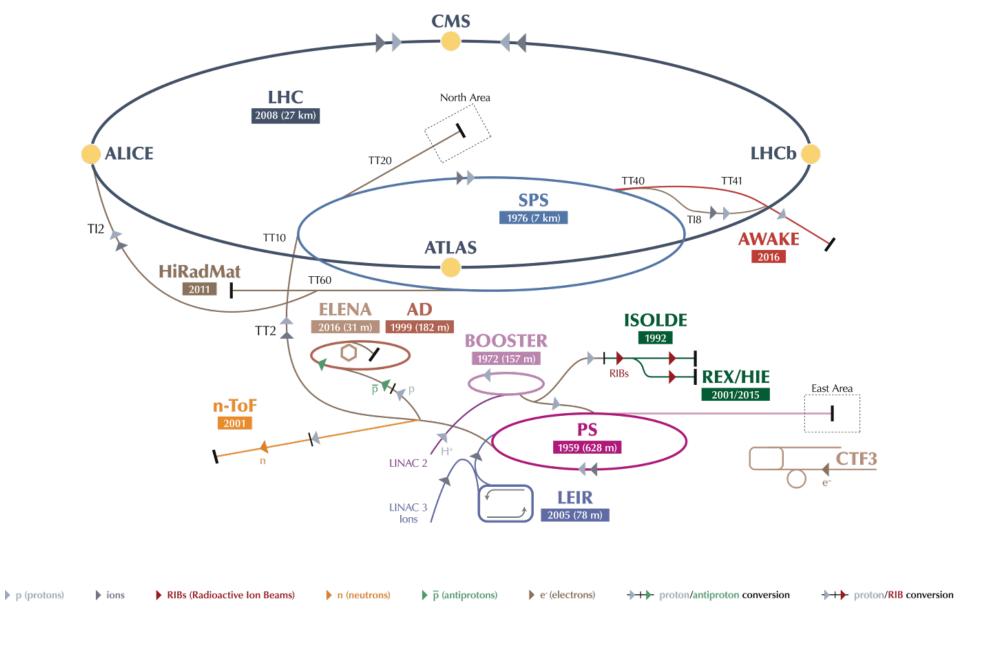


C. Filipe Ramos cf.ramos@cern.ch

Business Development CERN Knowledge Transfer







LHC Large Hadron Collider SPS Super Proton Synchrotron PS Proton Synchrotron AD Antiproton Decelerator CTF3 Clic Test Facility

AWAKE Advanced WAKefield Experiment ISOLDE Isotope Separator OnLine REX/HIE Radioactive EXperiment/High Intensity and Energy ISOLDE

#### CERN's mission

Push back the frontiers of knowledge

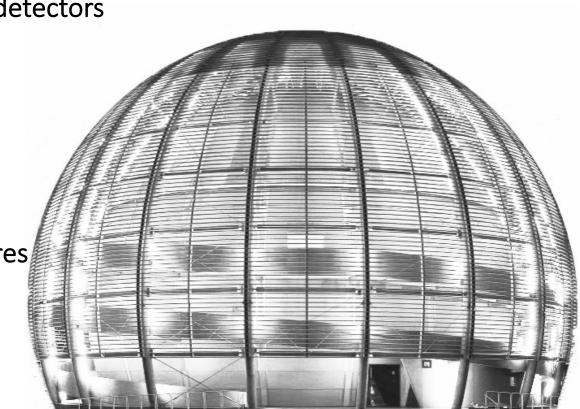
E.g. the secrets of the Big Bang ...what was the matter like within the first moments of the Universe's existence?

Develop new technologies for accelerators and detectors

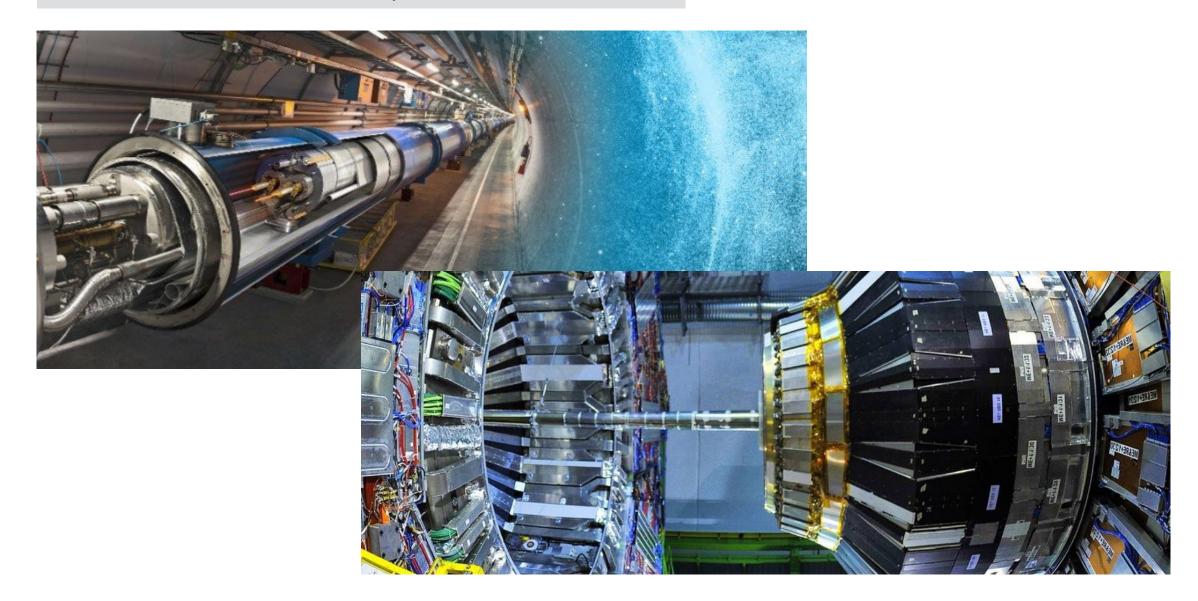
E. g. Information technology - the Web and the GRID; Medicine - diagnosis and therapy

Train scientists and engineers of tomorrow

Unite people from different countries and cultures



## How can CERN impact our lives?



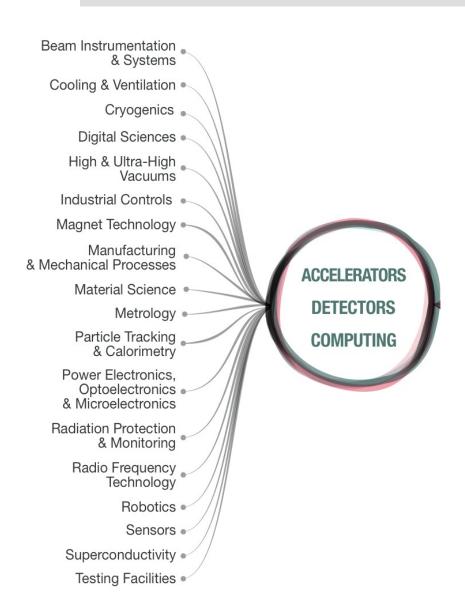




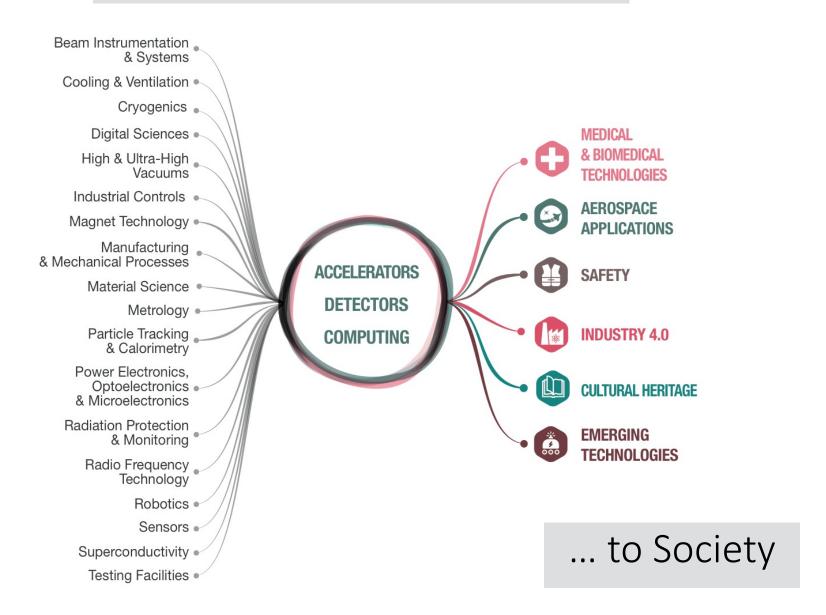
### From CERN Technologies ...



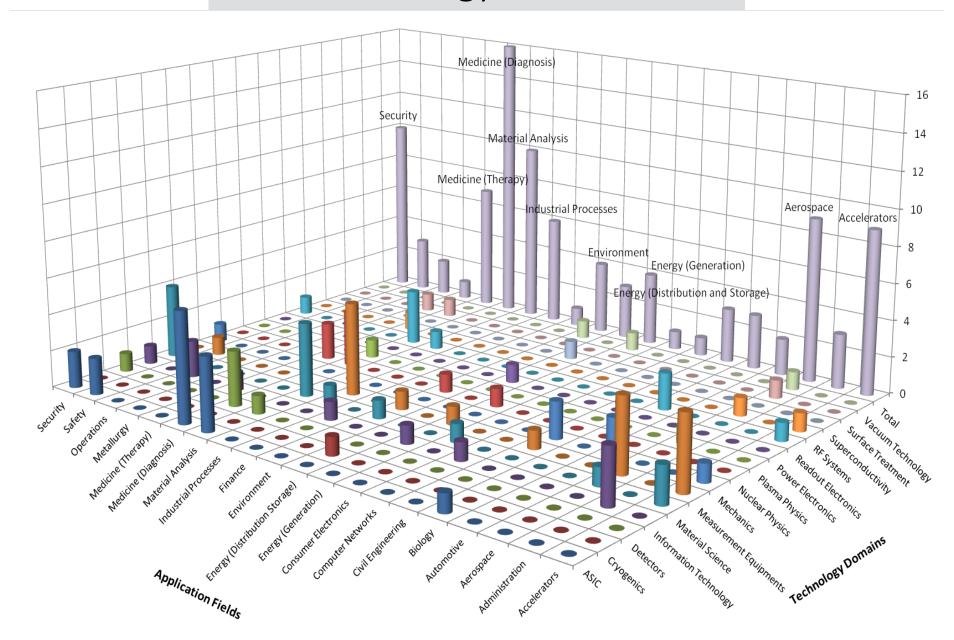
### From CERN Technologies ...



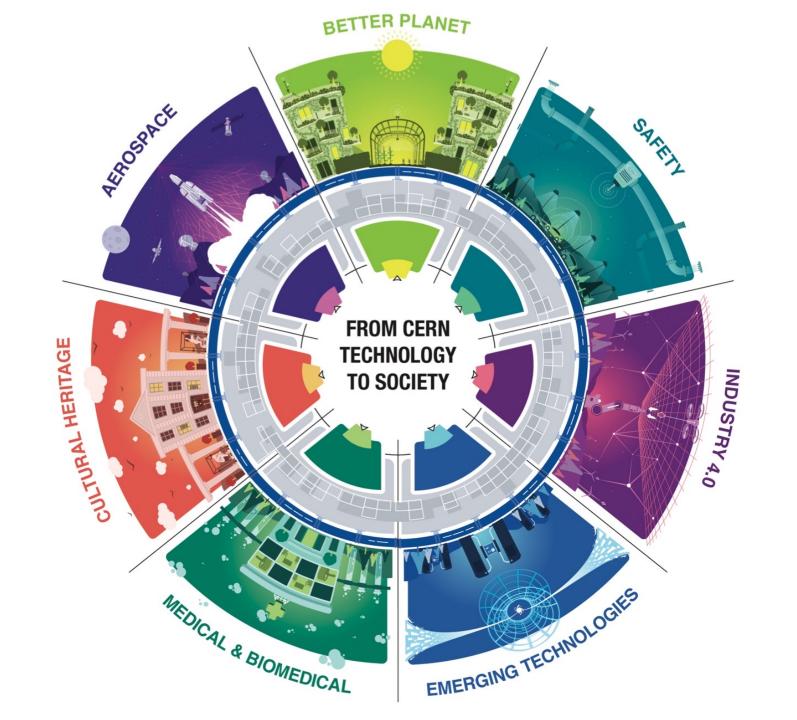
#### From CERN Technologies ...



### Technology Portfolio



The mission of the CERN
Knowledge Transfer group is to
maximise the global positive
impact of CERN on society

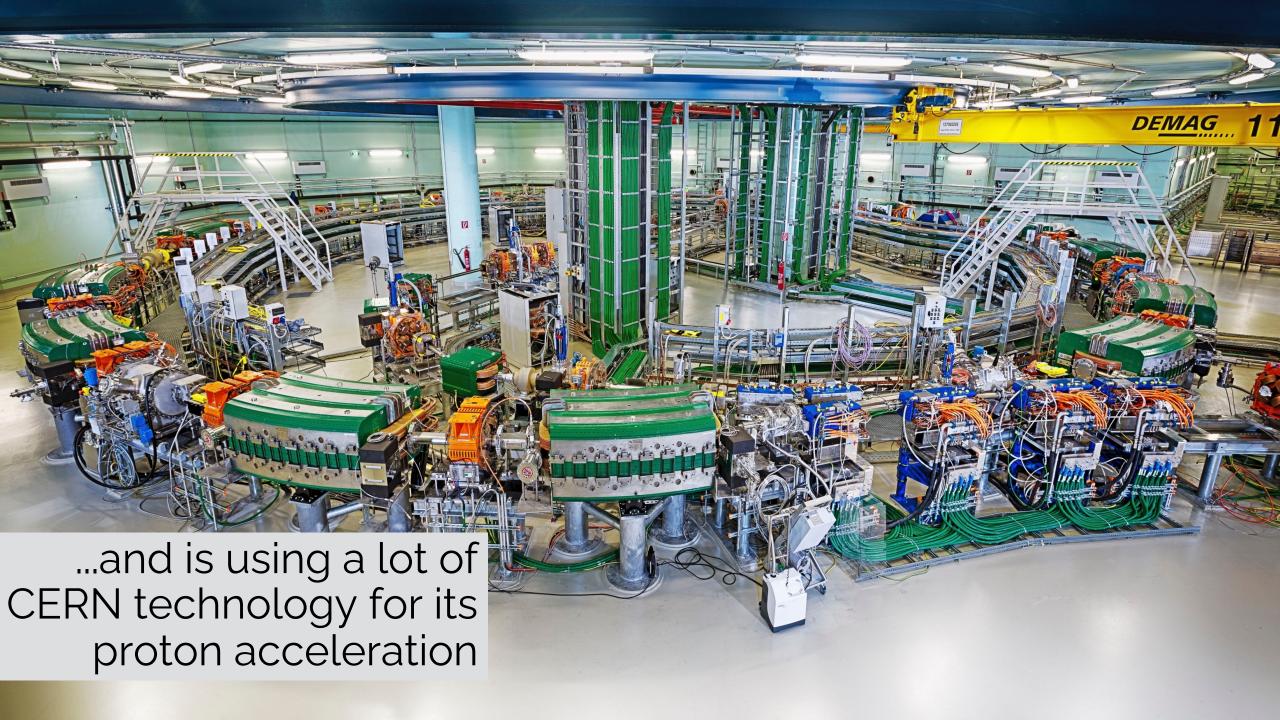


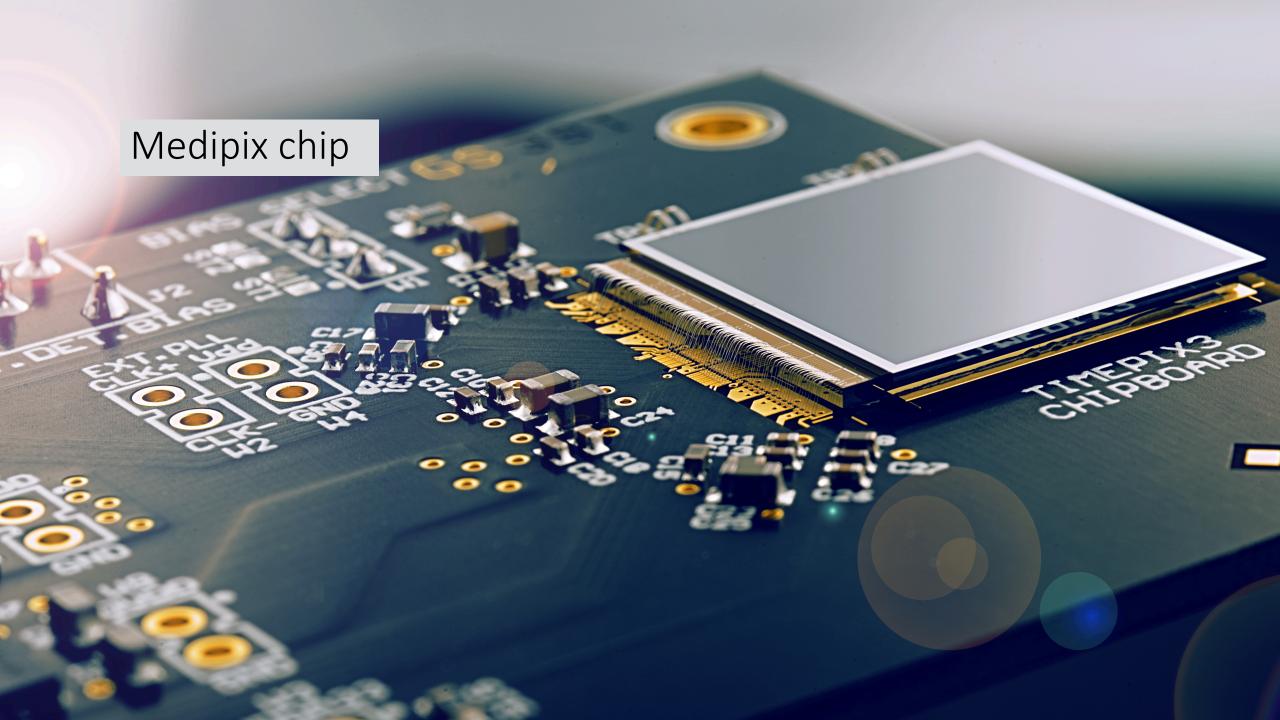




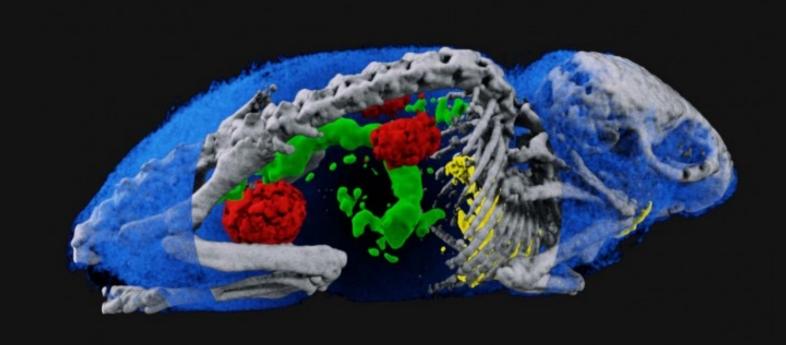


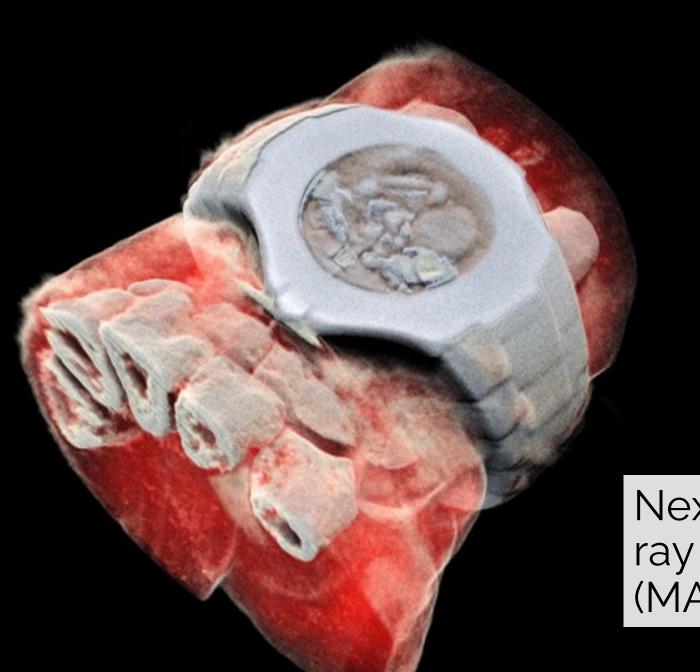






# Spectral imaging - Medipix chip



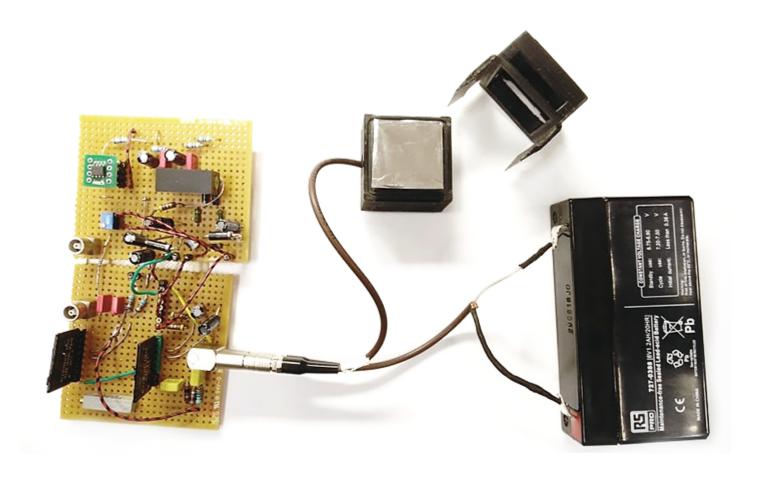


Next generation X ray finally in color (MARS Bio Imaging).









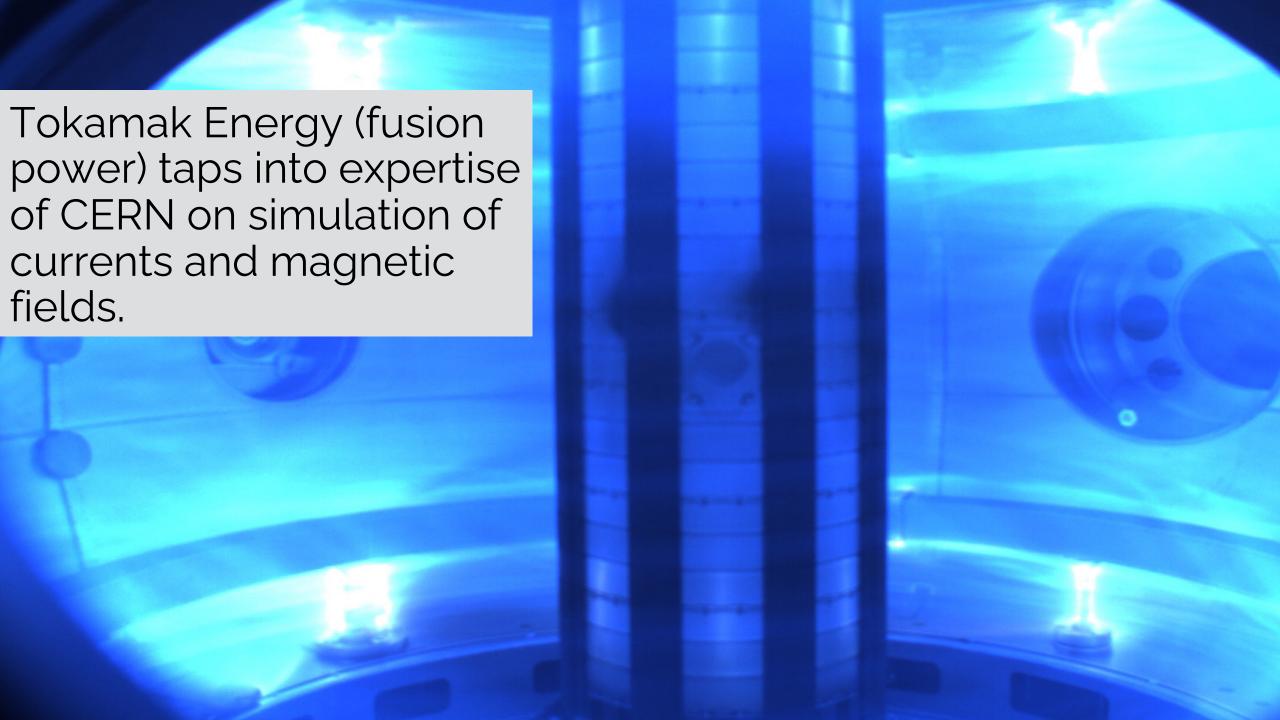
Tackling the risk of radon gas (BAQ)



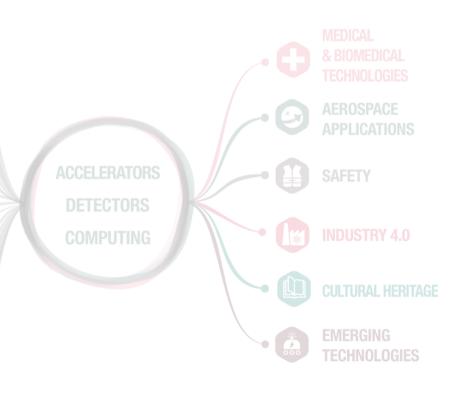




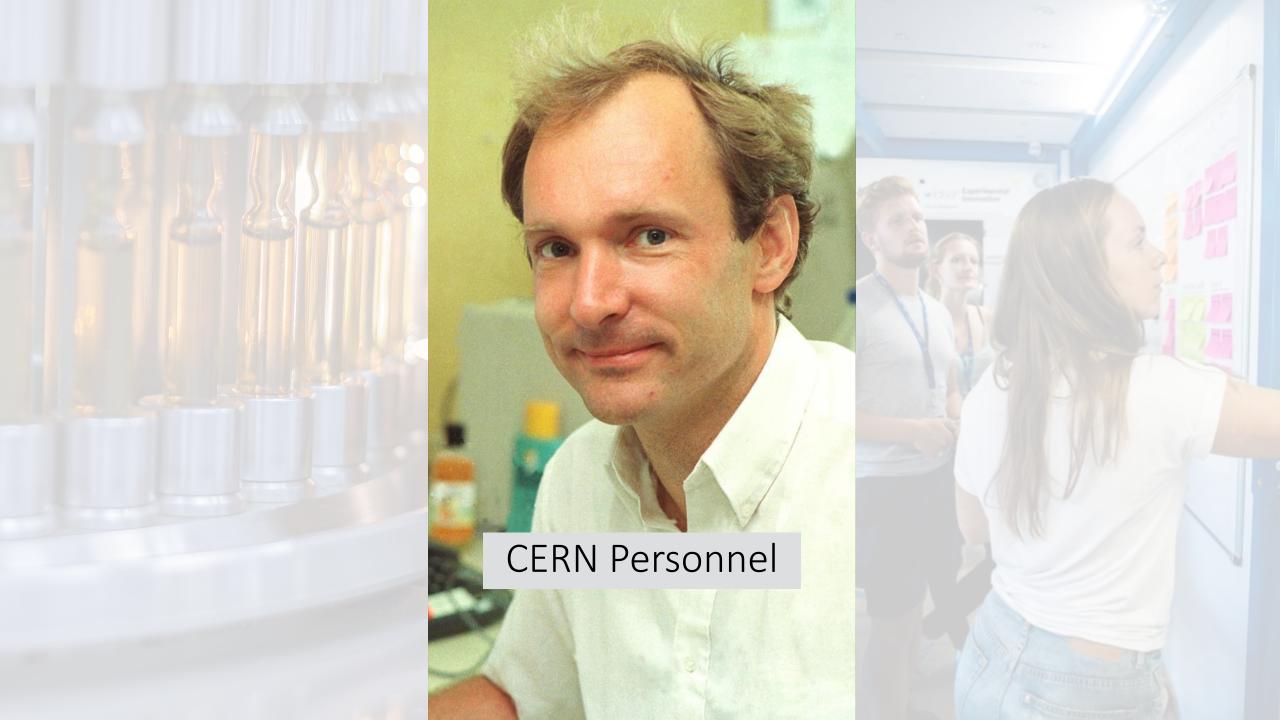




# How do we transfer CERN Technologies to Society?



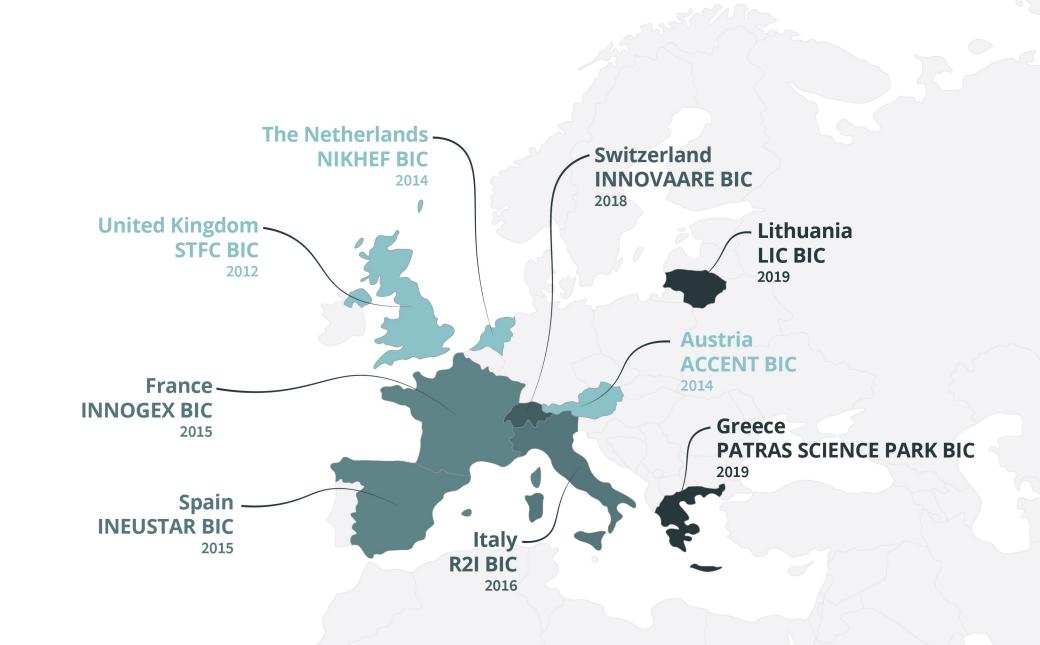


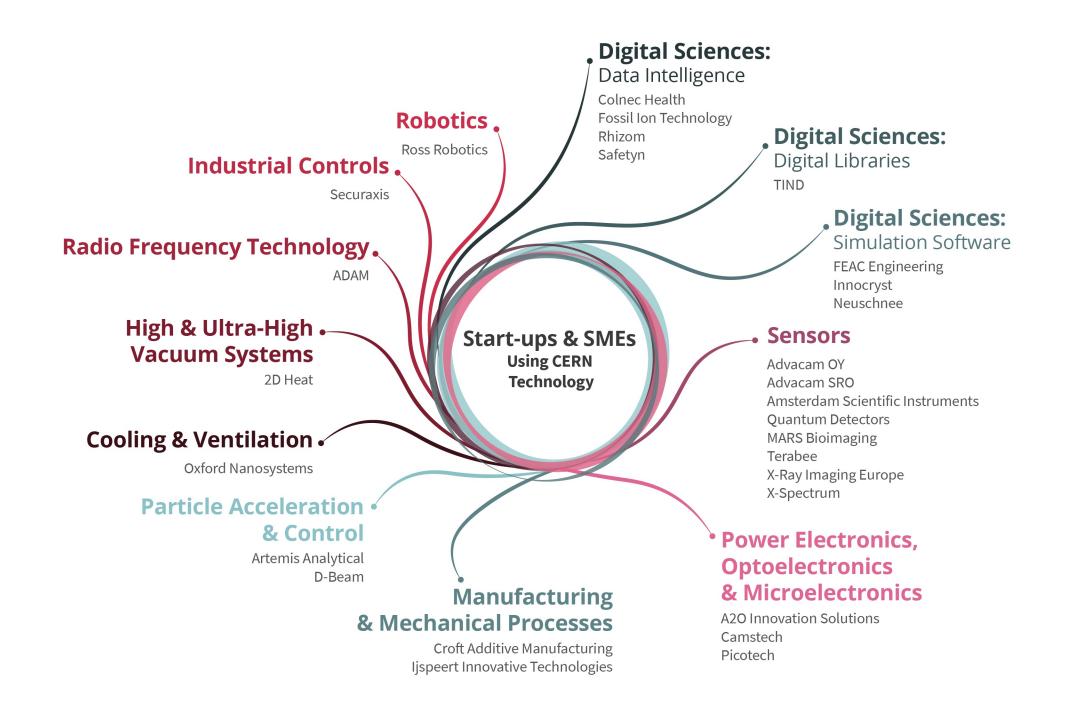


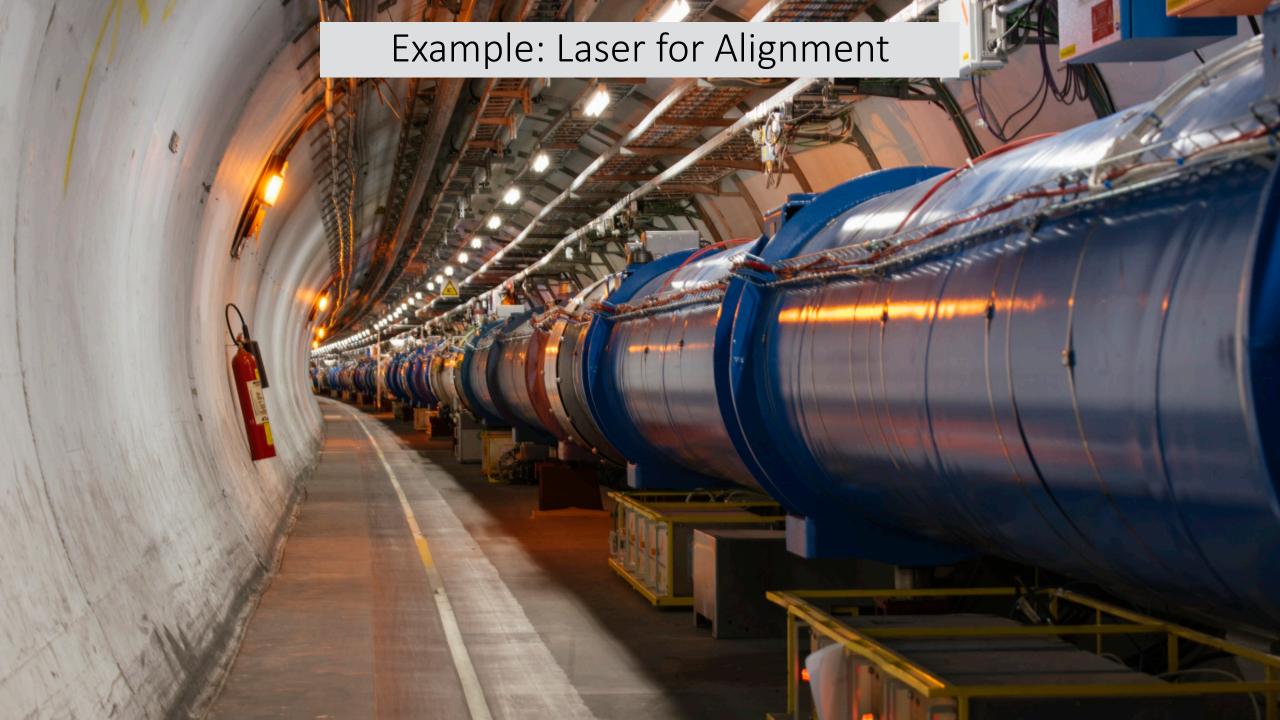


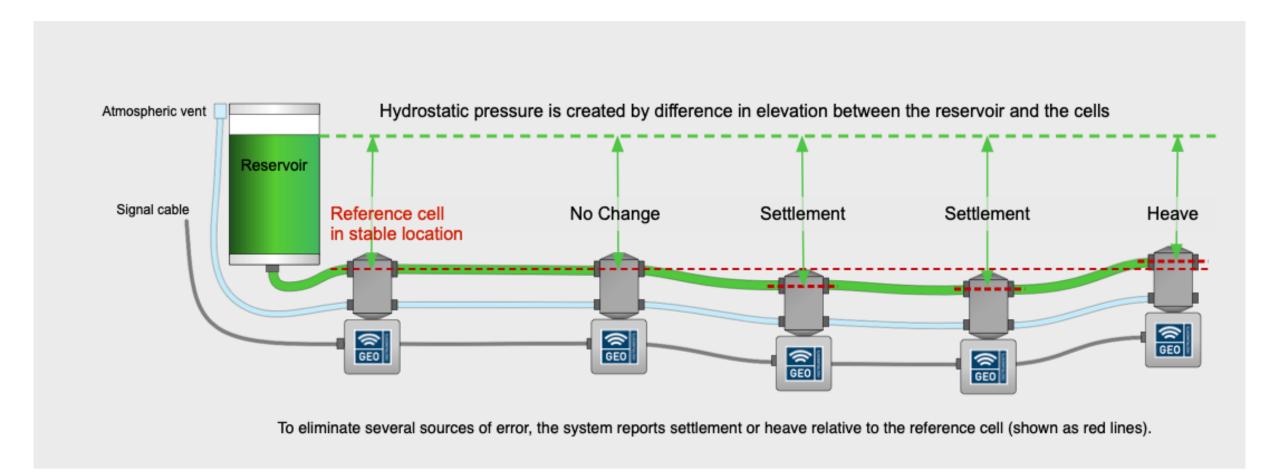


Intellectual Property Management



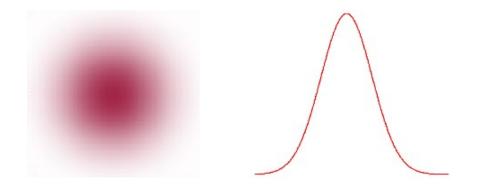




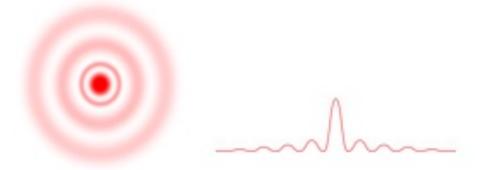


Source: geo-instruments.com

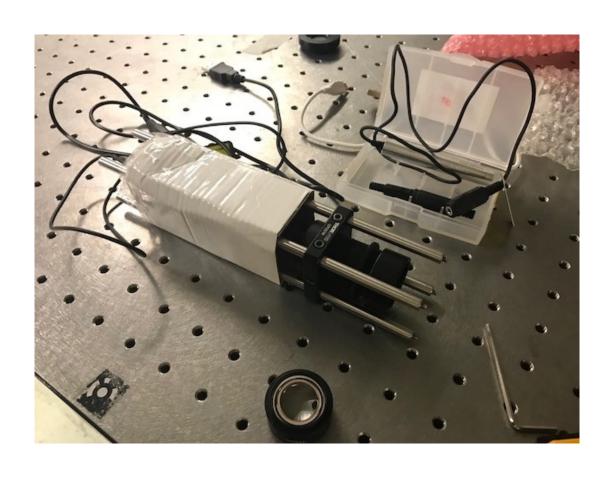


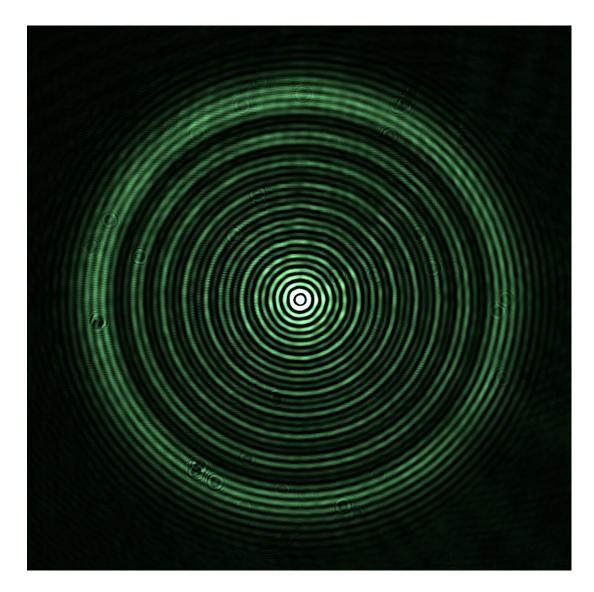


Gaussian beam and its intensity distribution

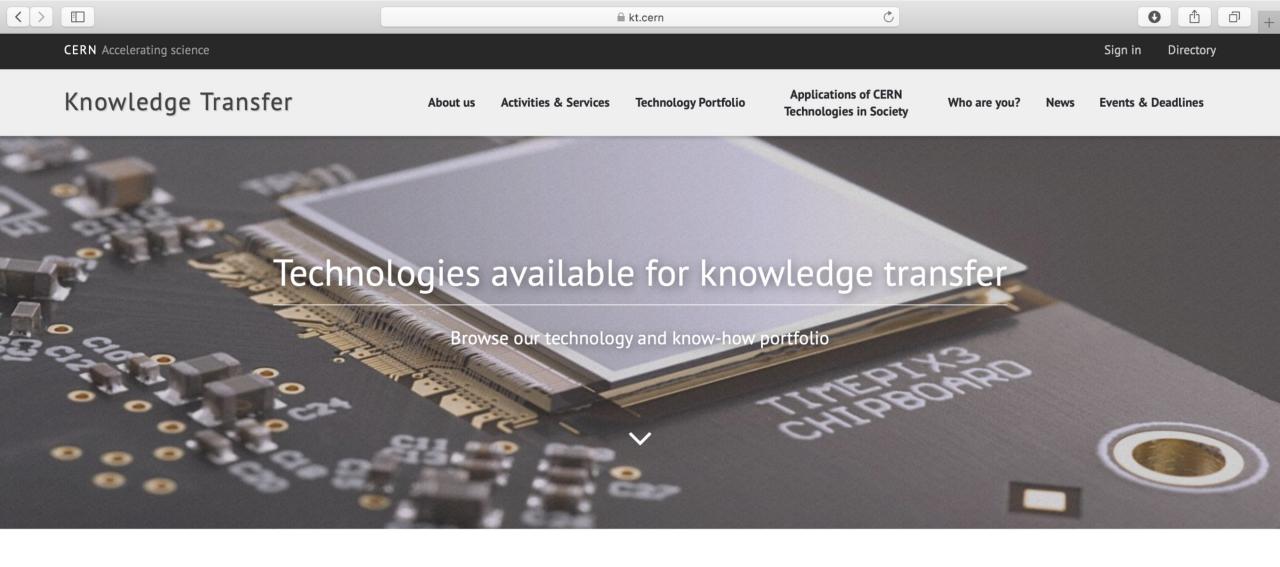


Structured beam and its intensity distribution









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Questions?



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Business Development CERN Knowledge Transfer