

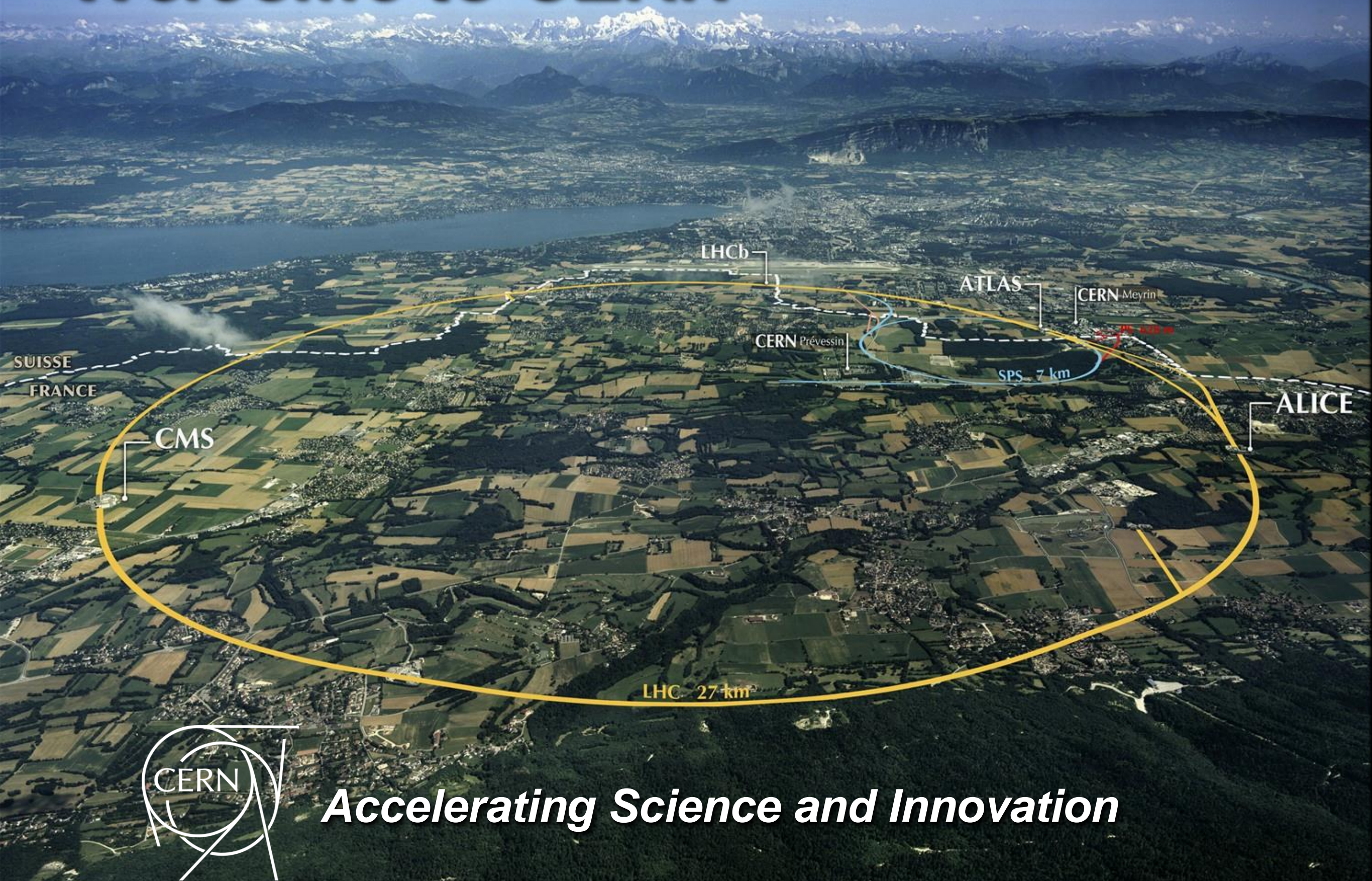
Introduction to CERN and KT

Giovanni.Anelli@cern.ch

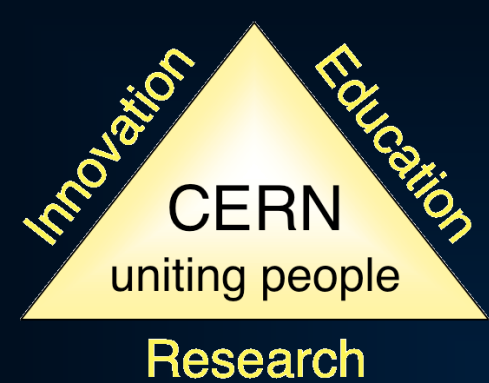
Knowledge Transfer Group - IPT Department

06.08.2018

Welcome to CERN



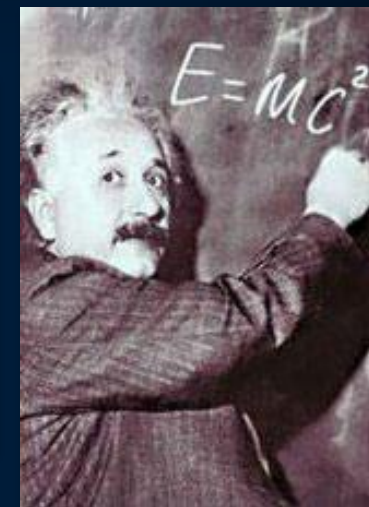
Accelerating Science and Innovation



The Mission of CERN

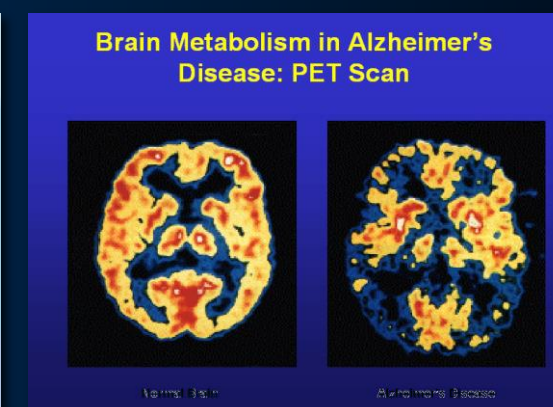
❑ Push back the frontiers of knowledge

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

Information technology - the Web and the GRID
Medicine - diagnosis and therapy



❑ Train scientists and engineers of tomorrow



❑ Unite people from different countries and cultures



CERN: founded in 1954: 12 European States

“Science for Peace”

Today: 22 Member States

~ 2500 staff

~ 1800 other paid personnel

~ 13000 scientific users

Budget (2017) ~ 1100 MCHF

Member States: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Israel, Italy, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Spain, Sweden, Switzerland and United Kingdom

Associate Members in the Pre-Stage to Membership: Cyprus, Serbia, Slovenia

Associate Member States: India, Lithuania, Pakistan, Turkey, Ukraine

Applications for Membership or Associate Membership:

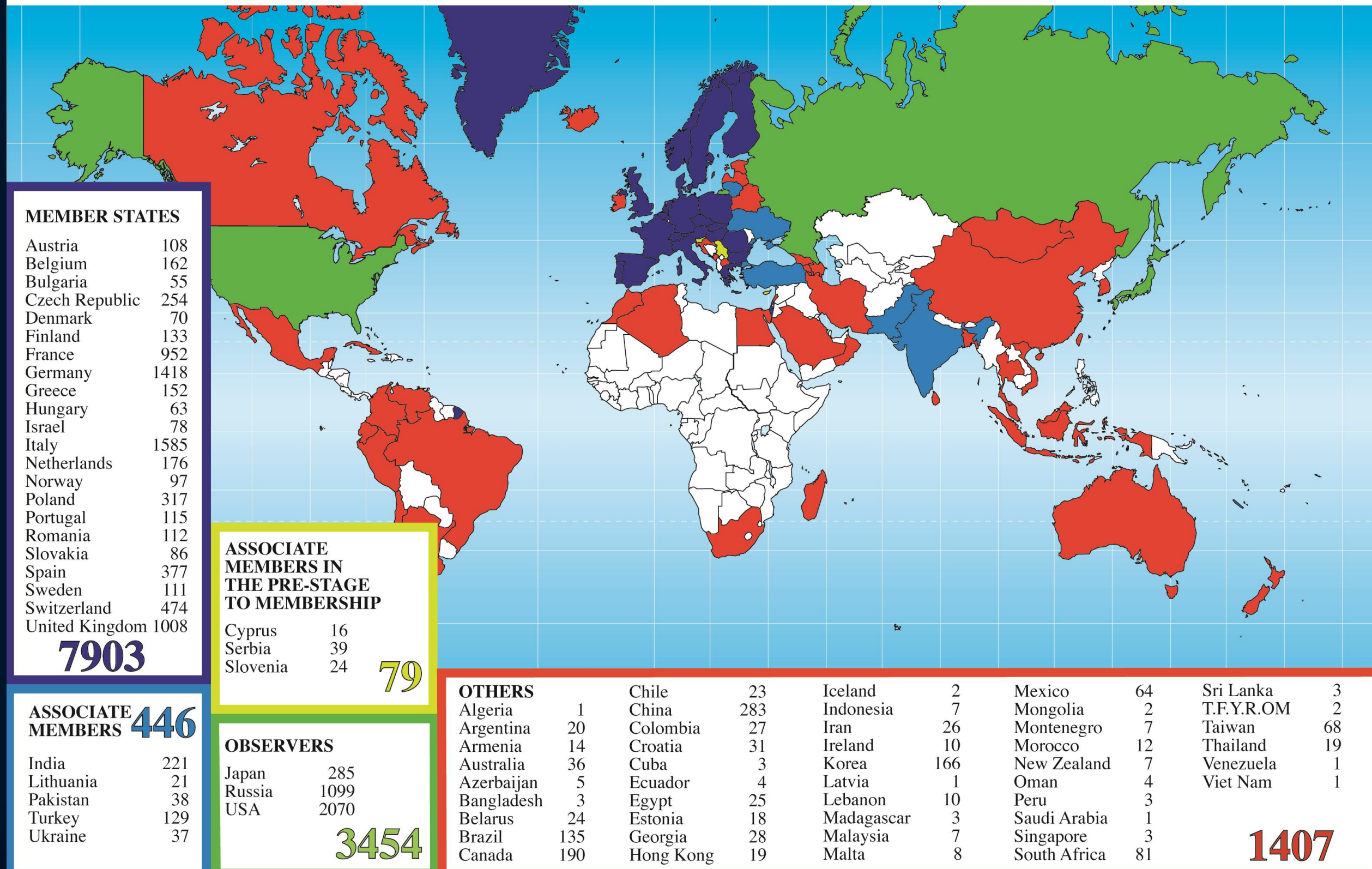
Brazil, Croatia

Observers to Council: Japan, Russia, United States of America; European Union, JINR and UNESCO

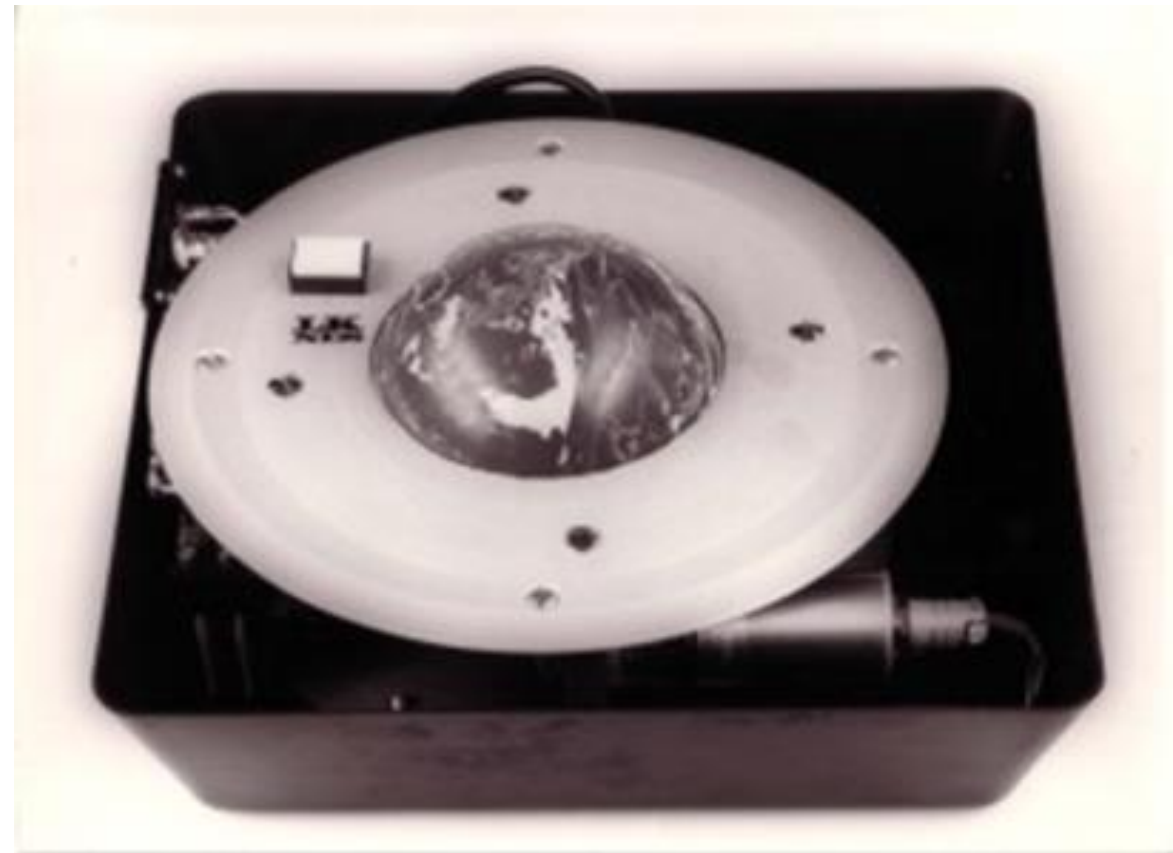
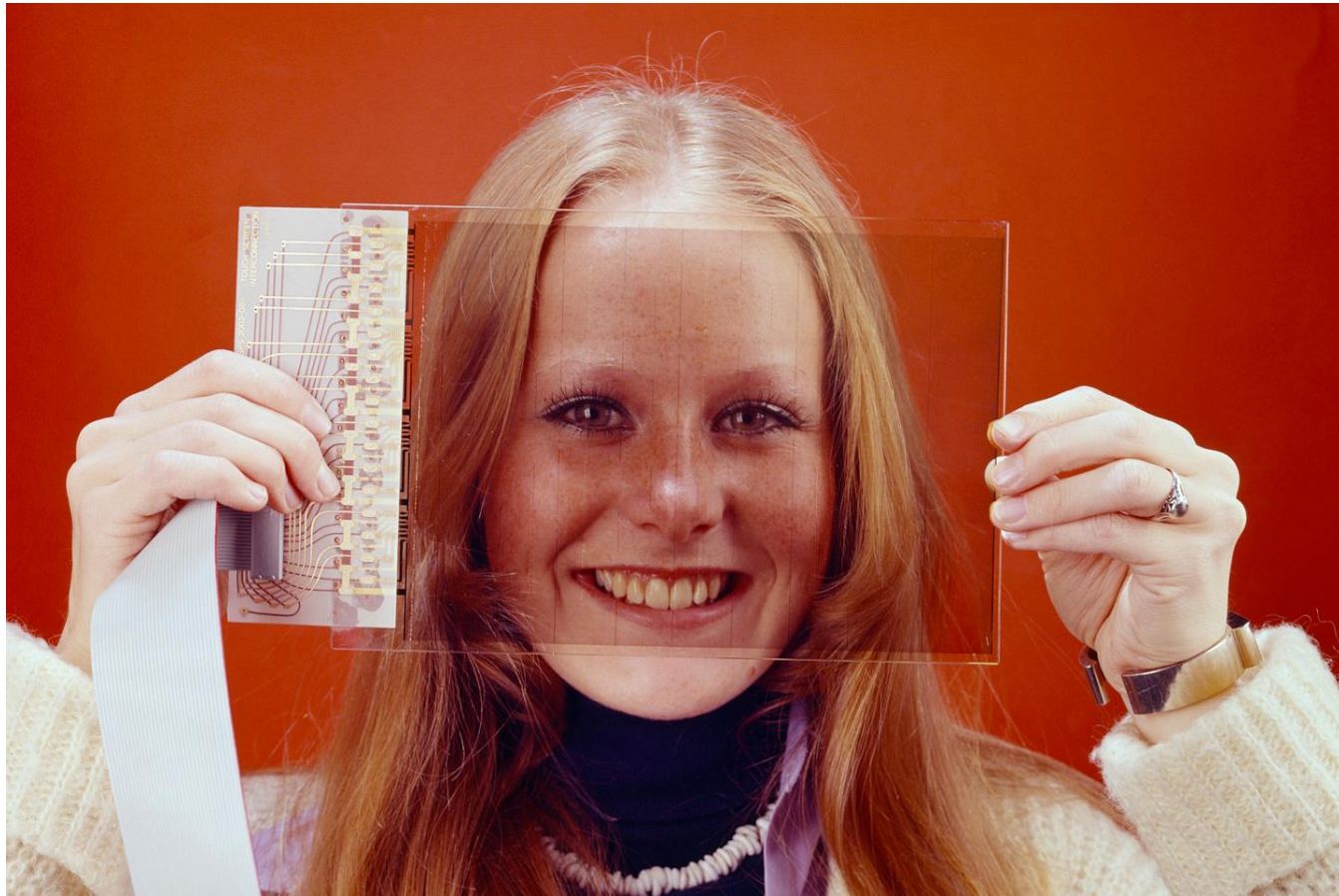


Science is getting more and more global

Distribution of All CERN Users by Location of Institute on 24 January 2018



Did you know?



KT Mission

Maximize the technological and knowledge return to society, in particular through Member States industry

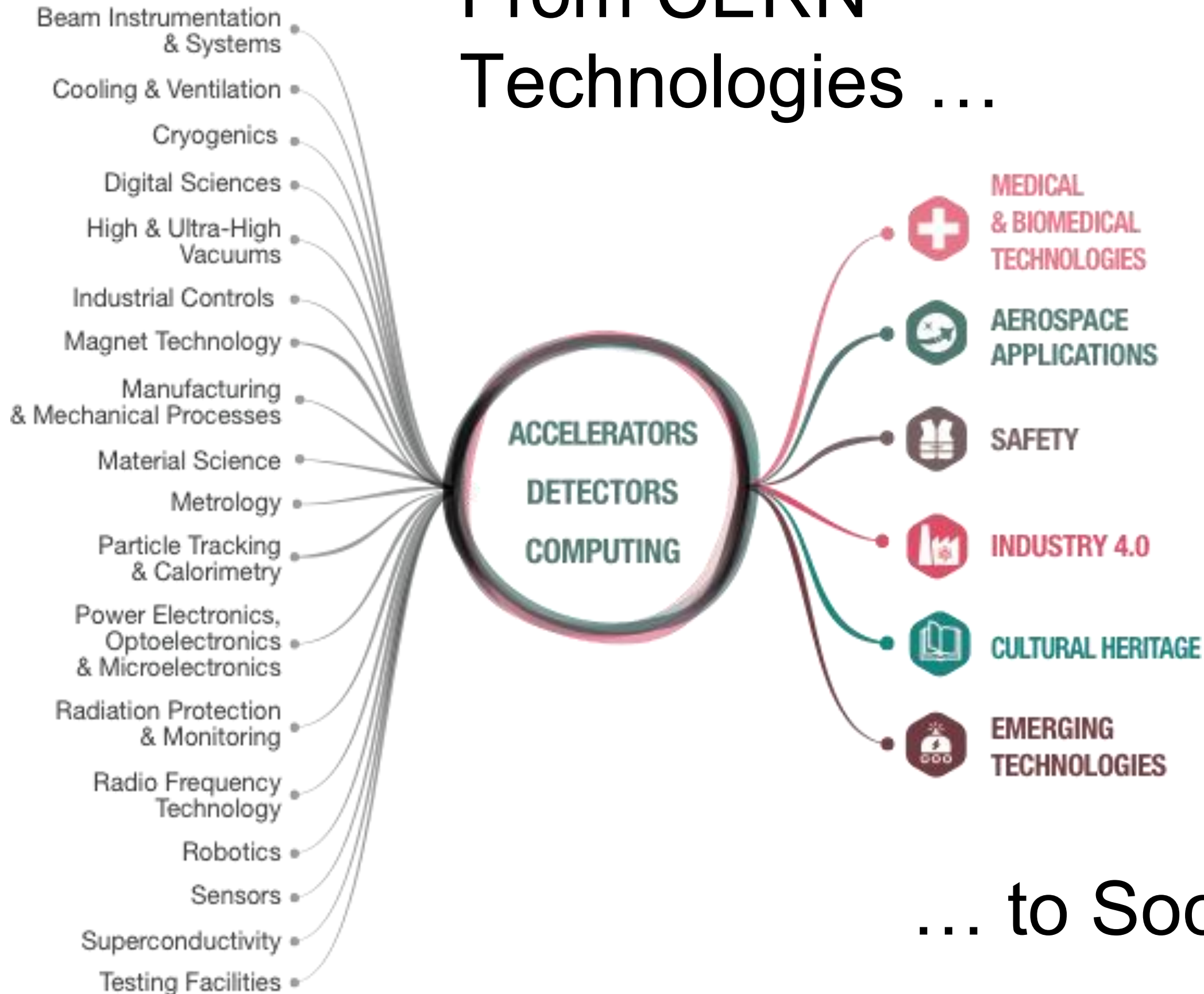
Promote CERN's image as a center of excellence for technology and innovation

Demonstrate the importance and impact of fundamental research investments

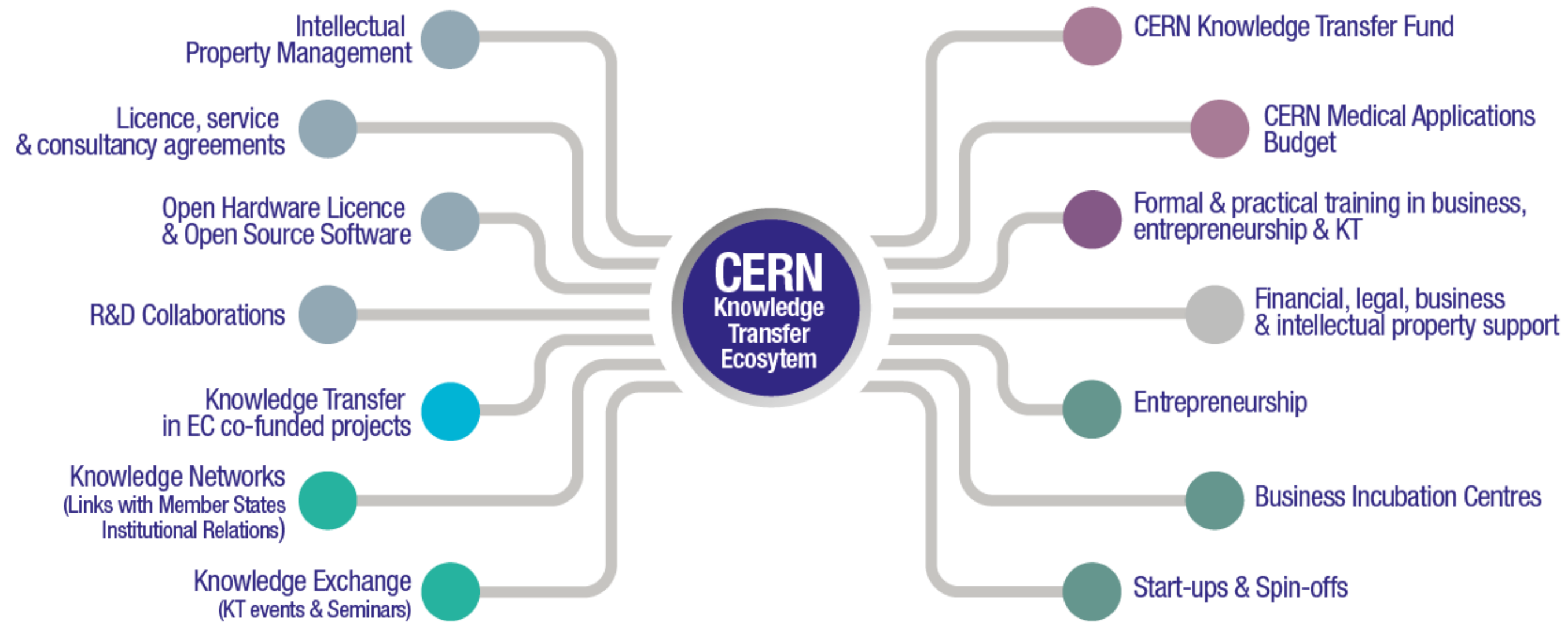
Key words are dissemination and impact

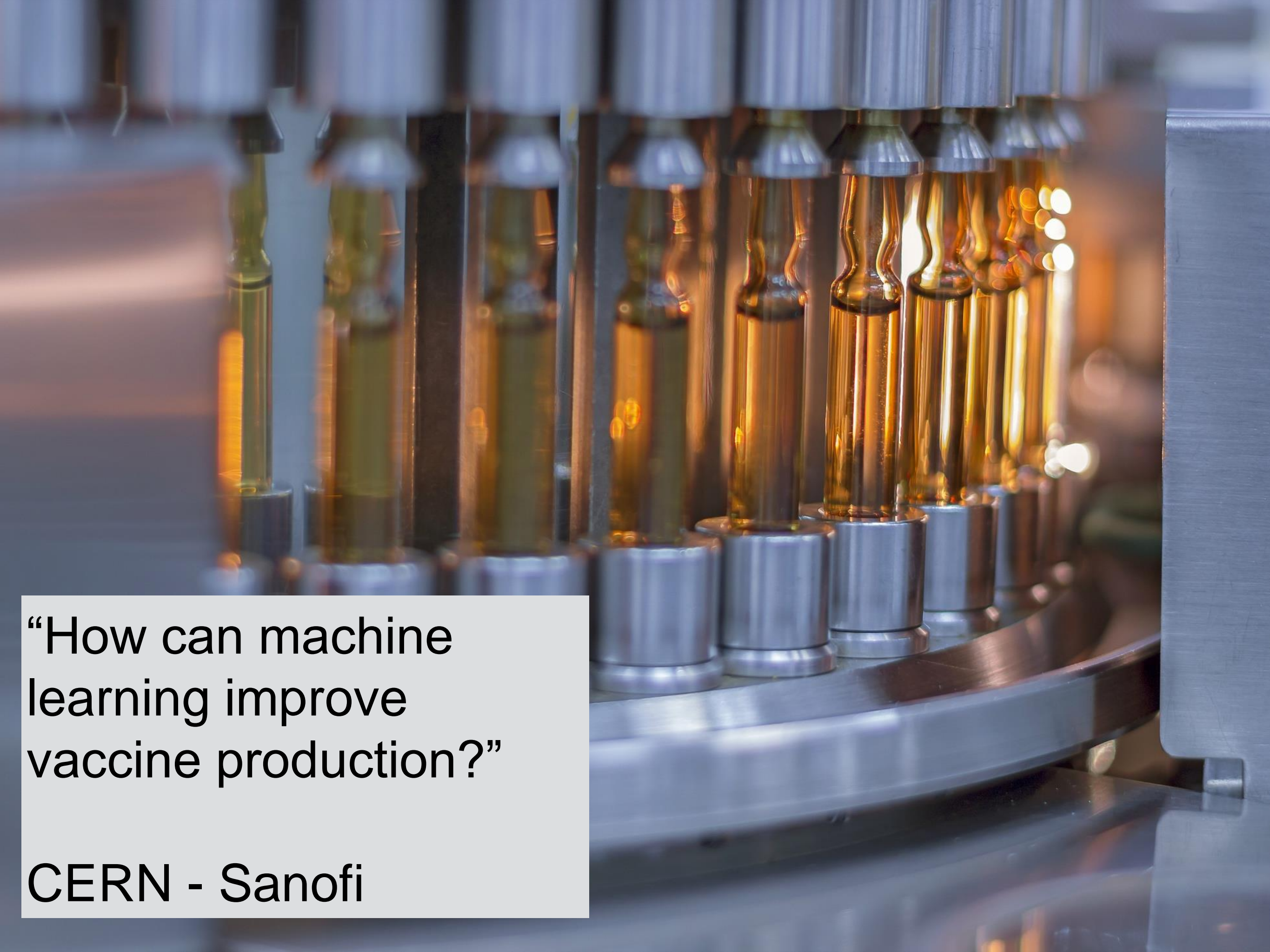


From CERN Technologies ...



... to Society





“How can machine learning improve vaccine production?”

CERN - Sanofi



le dauphiné libéré

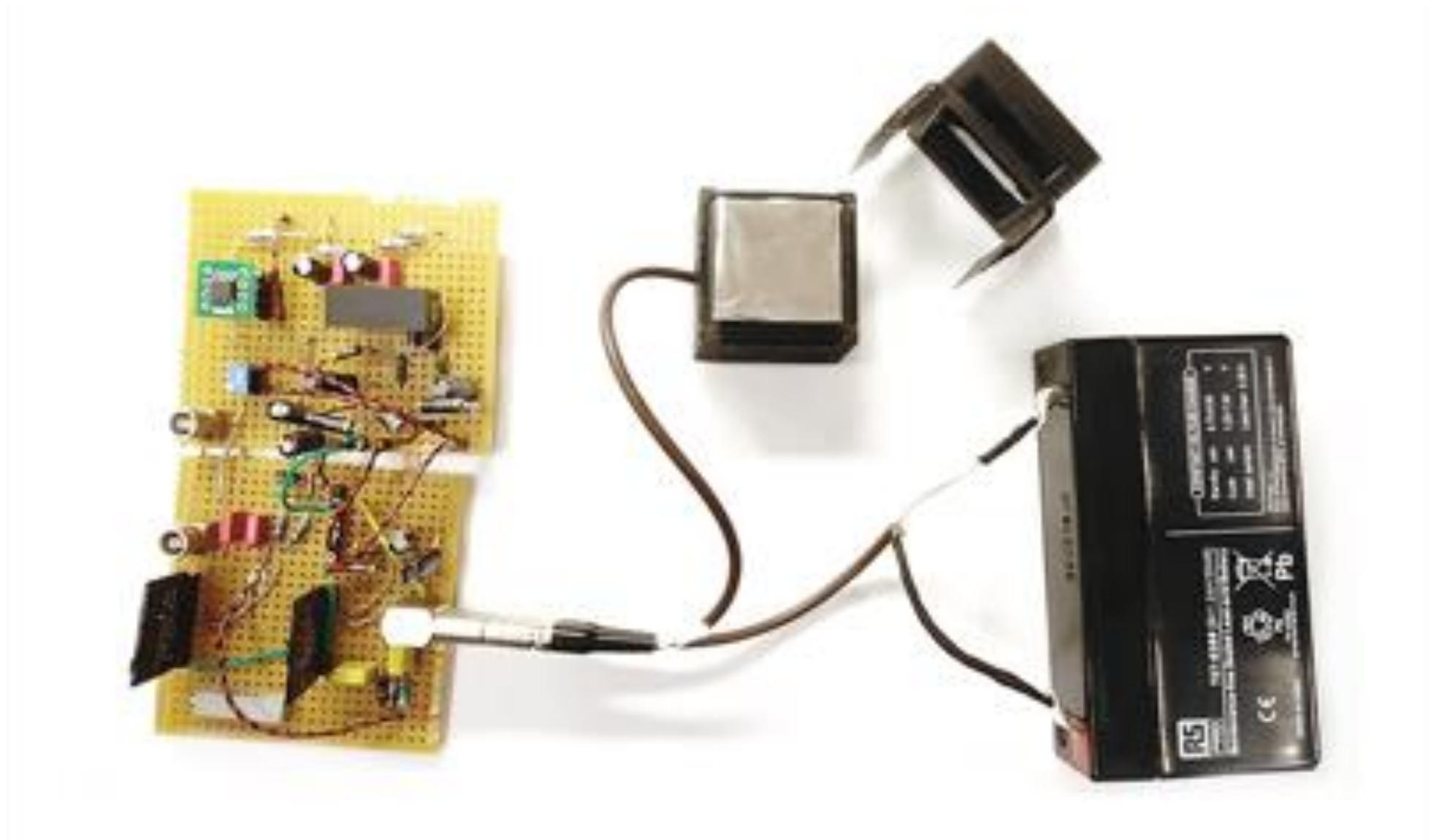
1,00€ - 1,50 FS | JEUDI 30 NOVEMBRE 2017 | G 01

BELLEGARDE & PAYS DE GEX

GENEVOIS LE SAVOIR DES PHYSICIENS AU SERVICE DE LA MÉDECINE DE DEMAIN

La lutte anti-cancer se prépare au Cern

CERN-MEDICIS
First medical isotopes
produced



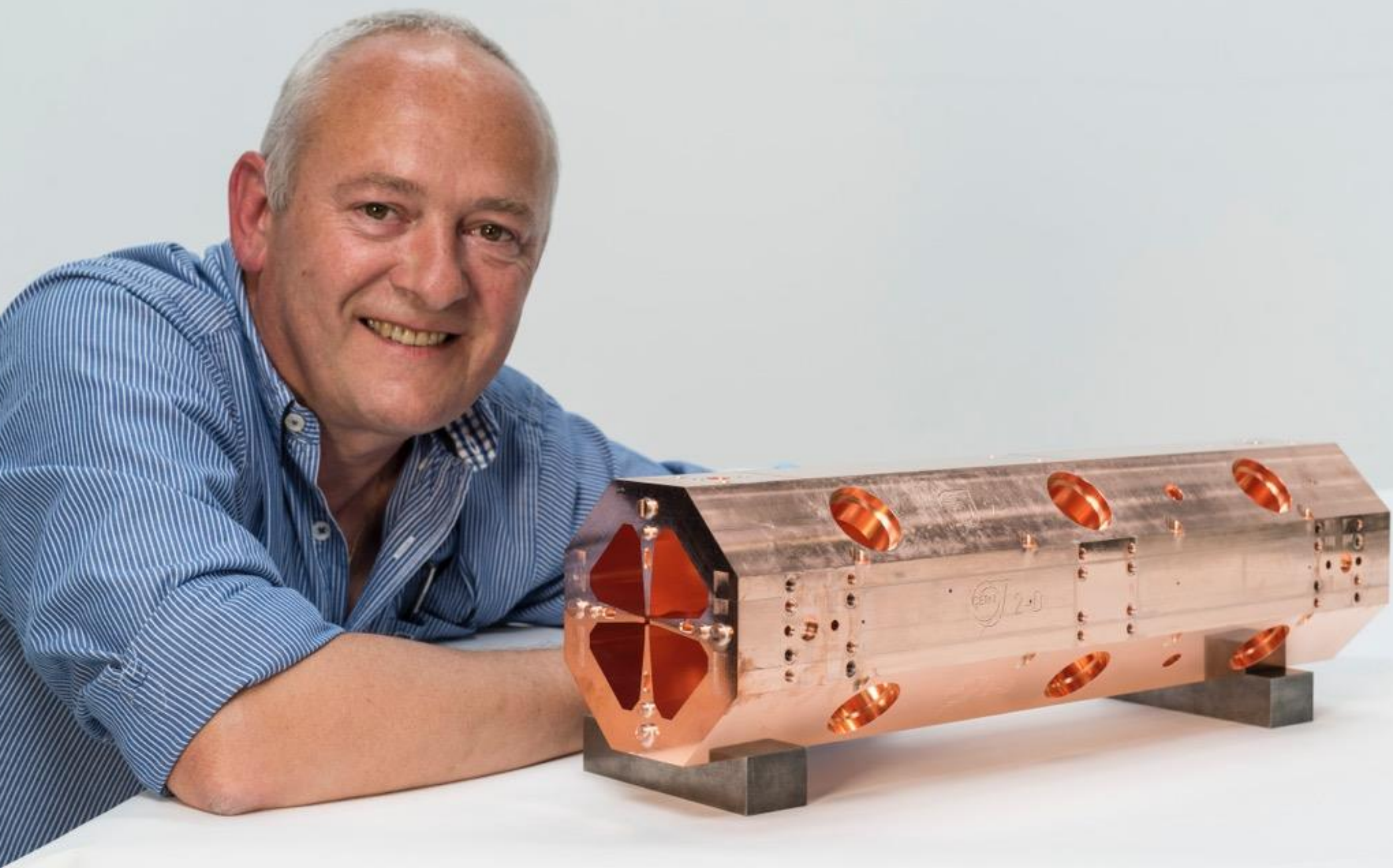
Neasens -
A start-up to tackle
radon gas risk

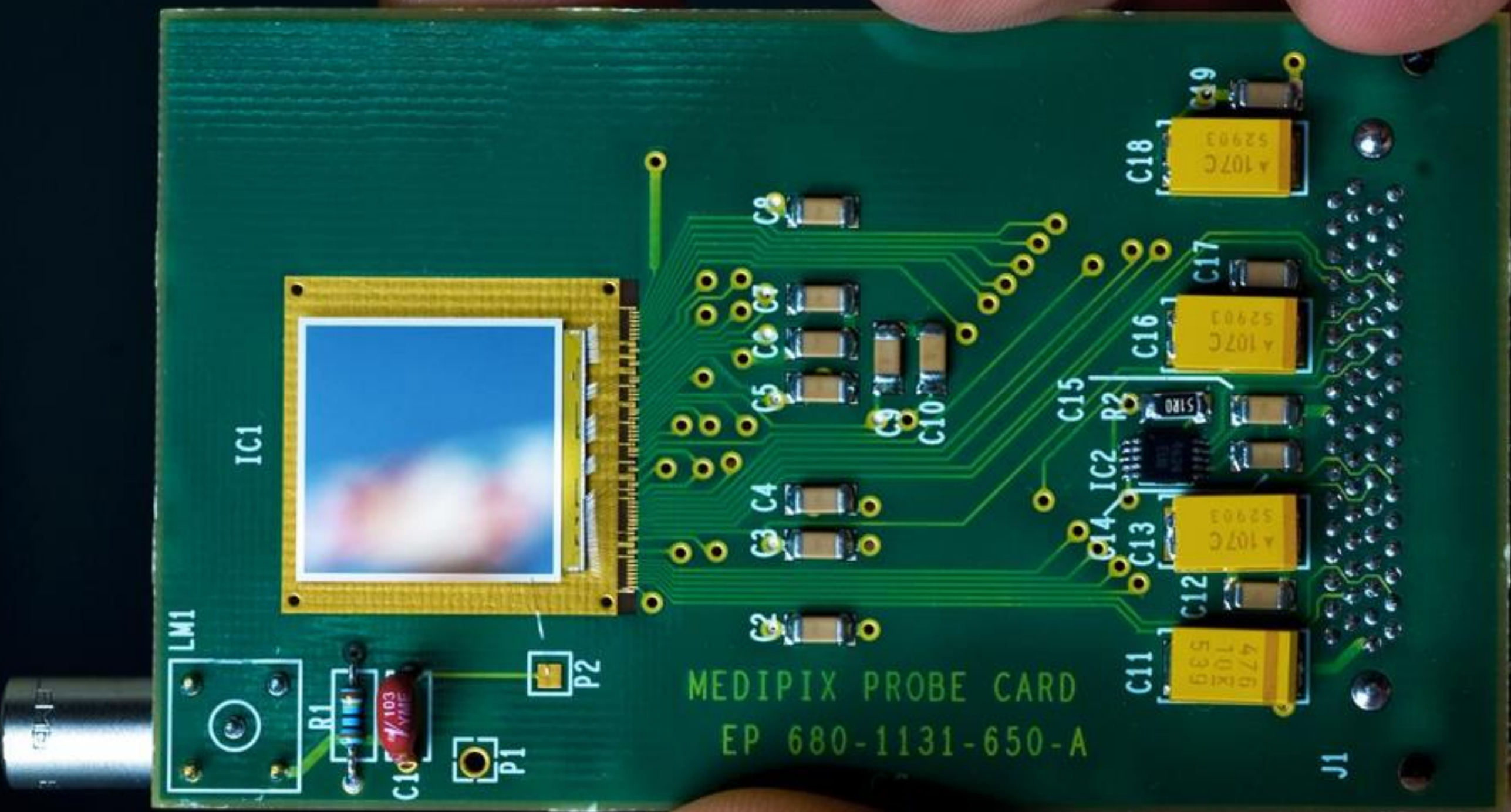


#EuropeForCulture

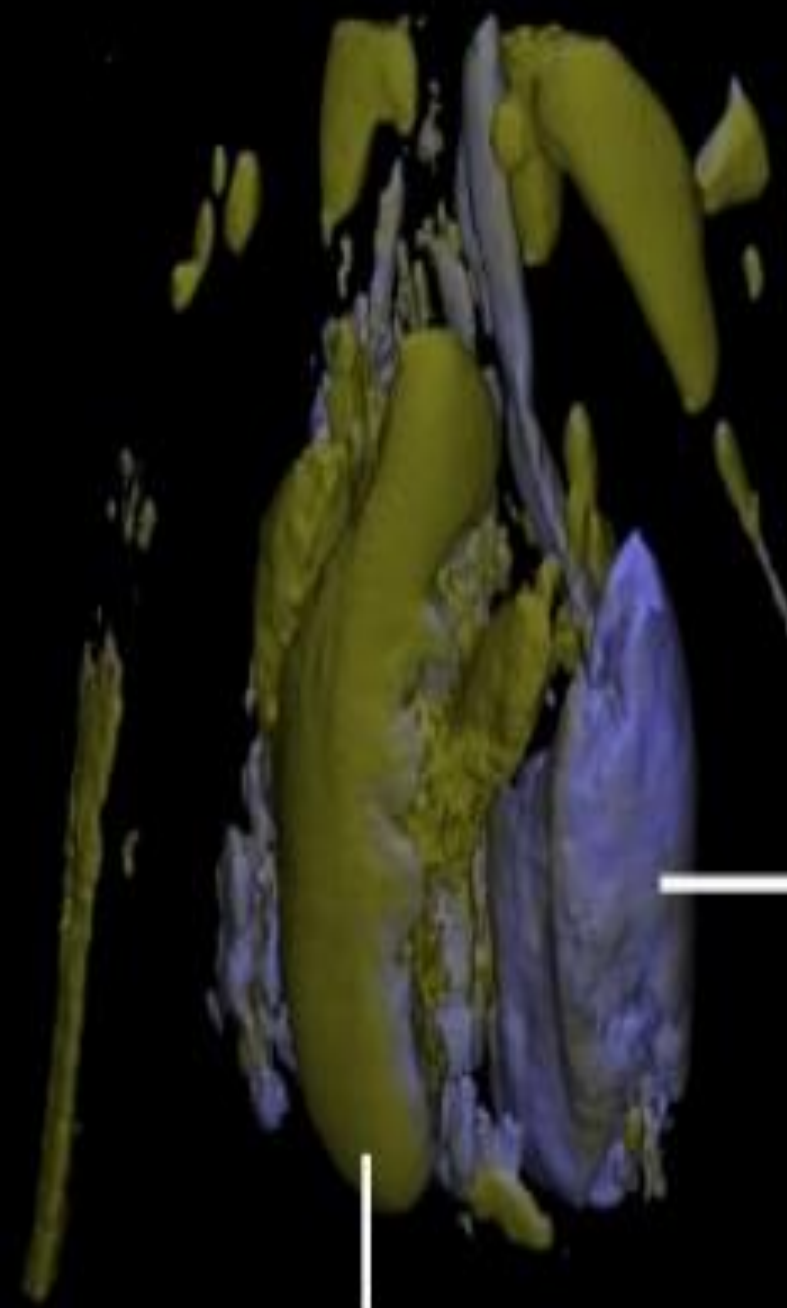
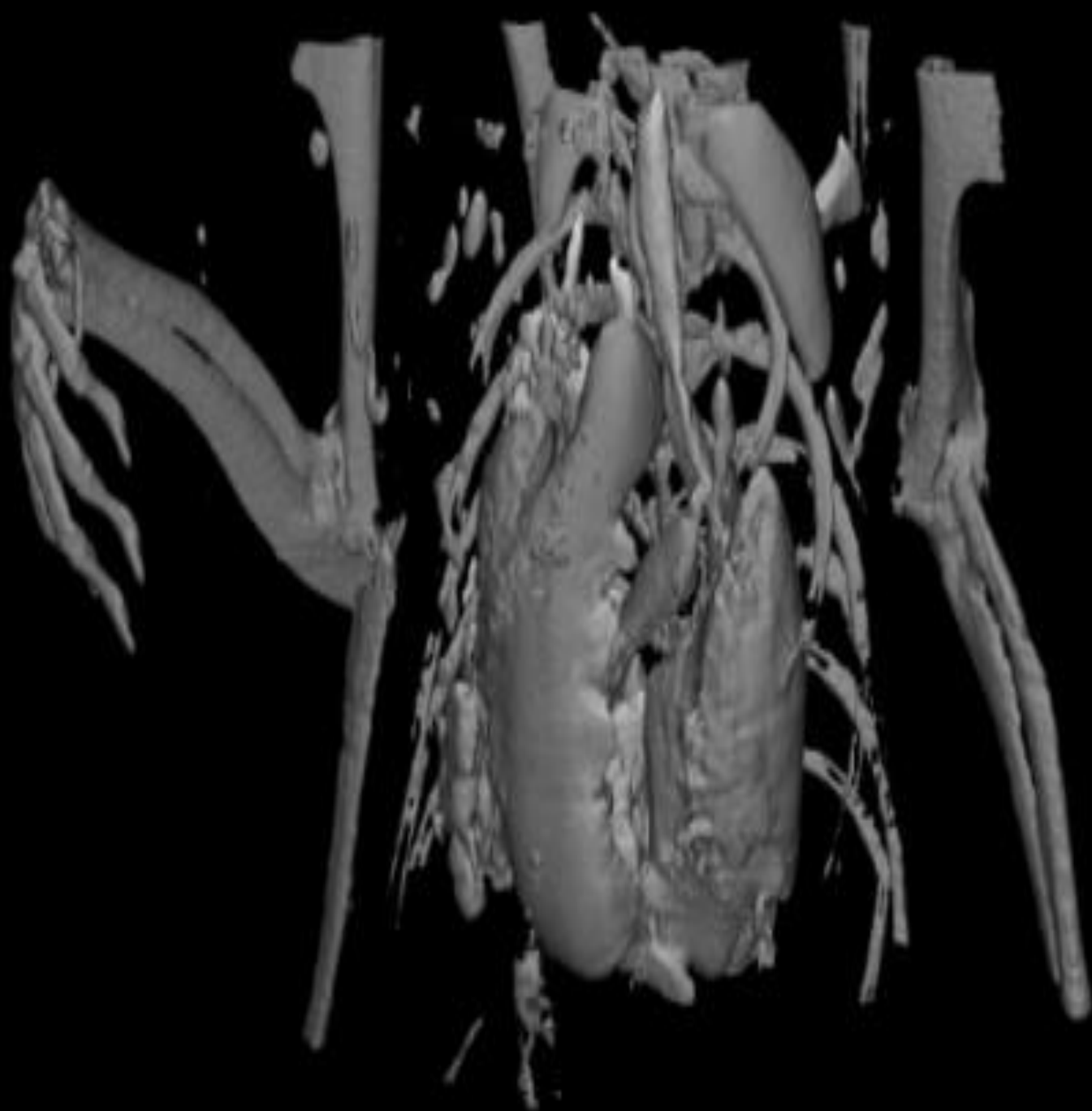
X-ray eyes for cultural
heritage - Medipix chip











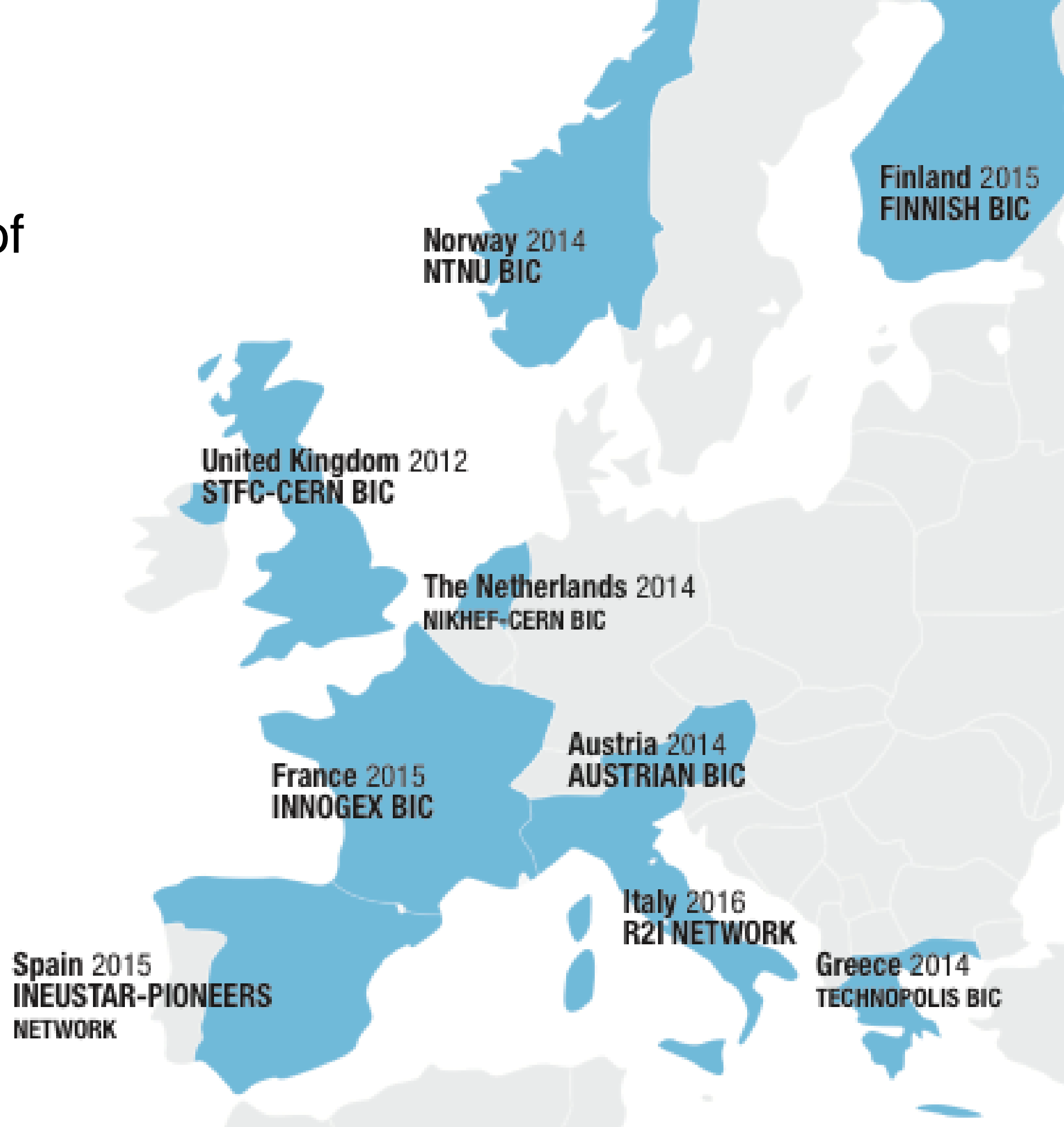
Barium

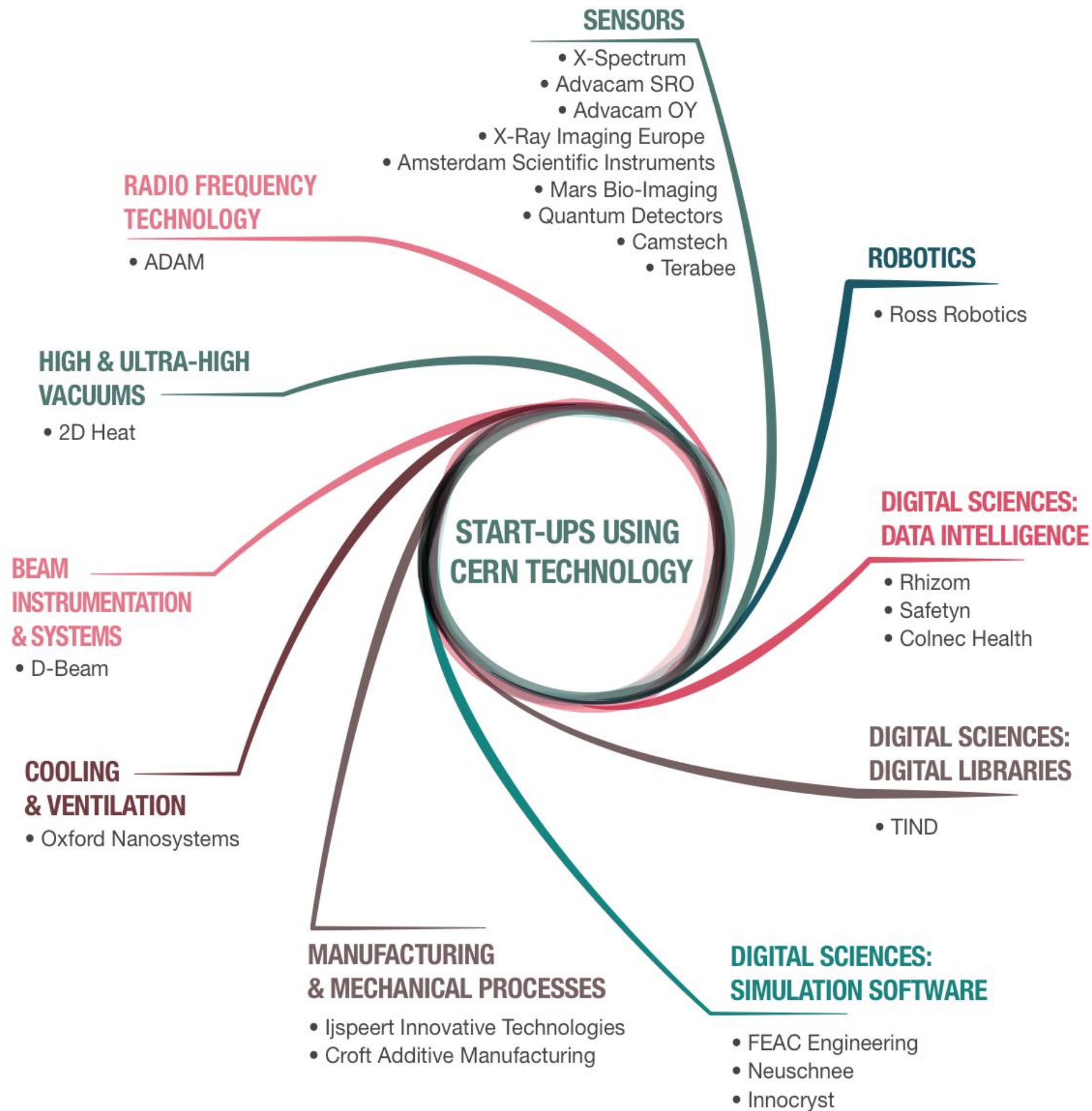
Iodine

(courtesy of MARS Bioimaging Ltd)

CERN BICs

CERN Network of
9 Member State
Business
Incubation
Centres





Many thanks for your
attention