

# Welcome to CERN



**Accelerating Science and Innovation**

# 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

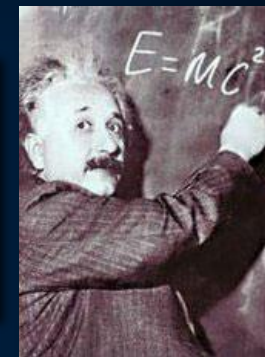




# The Mission of CERN

## ❑ 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?

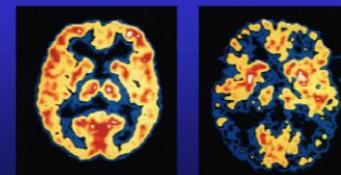


## ❑ Develop new technologies for accelerators and detectors

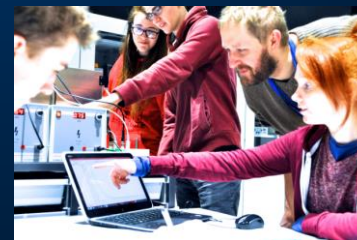
Information technology - the Web and the GRID  
Medicine - diagnosis and therapy



Brain Metabolism in Alzheimer's Disease: PET Scan



## ❑ Train scientists and engineers of tomorrow



## ❑ Unite people from different countries and cultures



# KT Mission

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

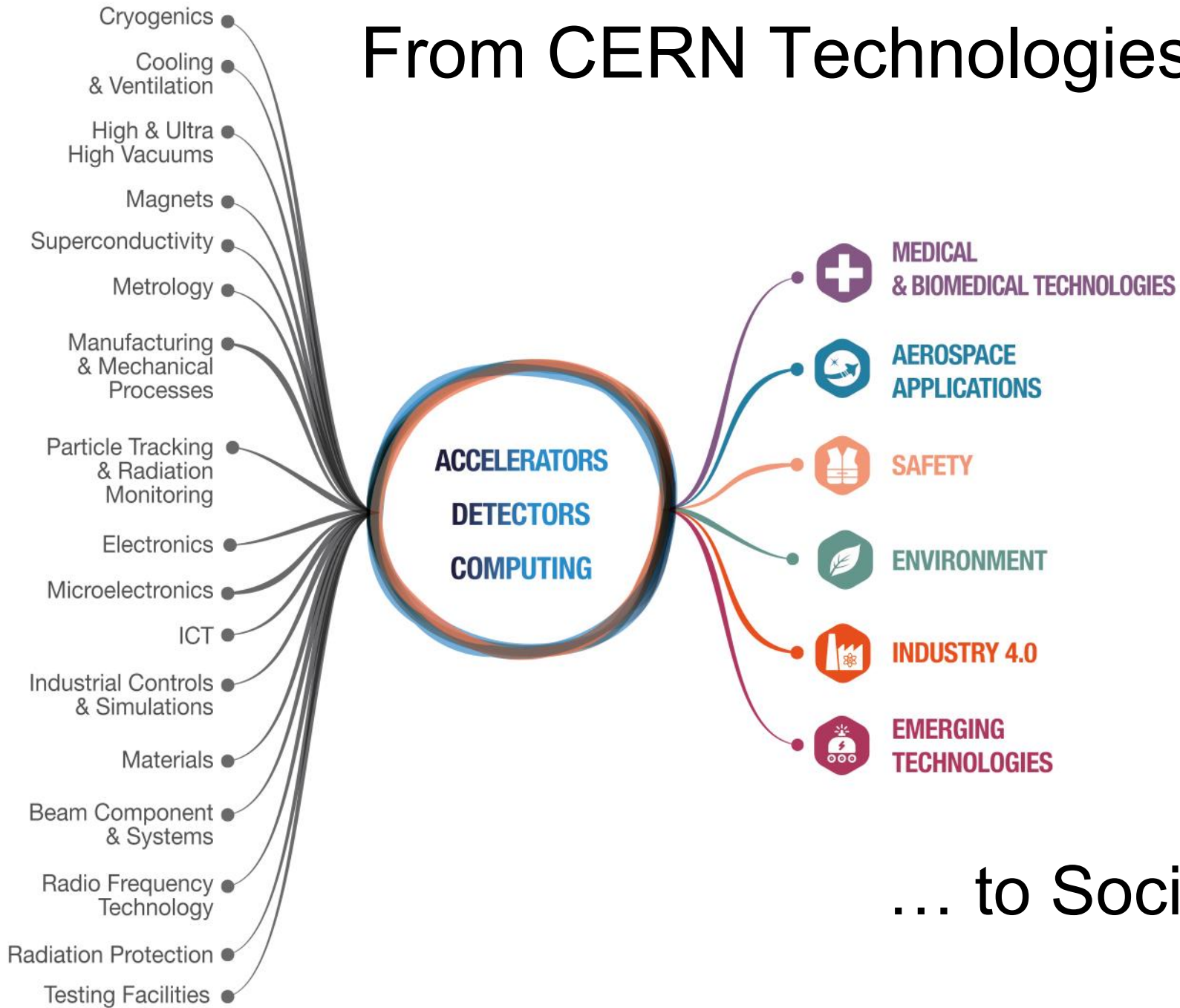
Promote CERN's image as a center of excellence for technology and innovation

Demonstrate the importance and impact of fundamental research investments

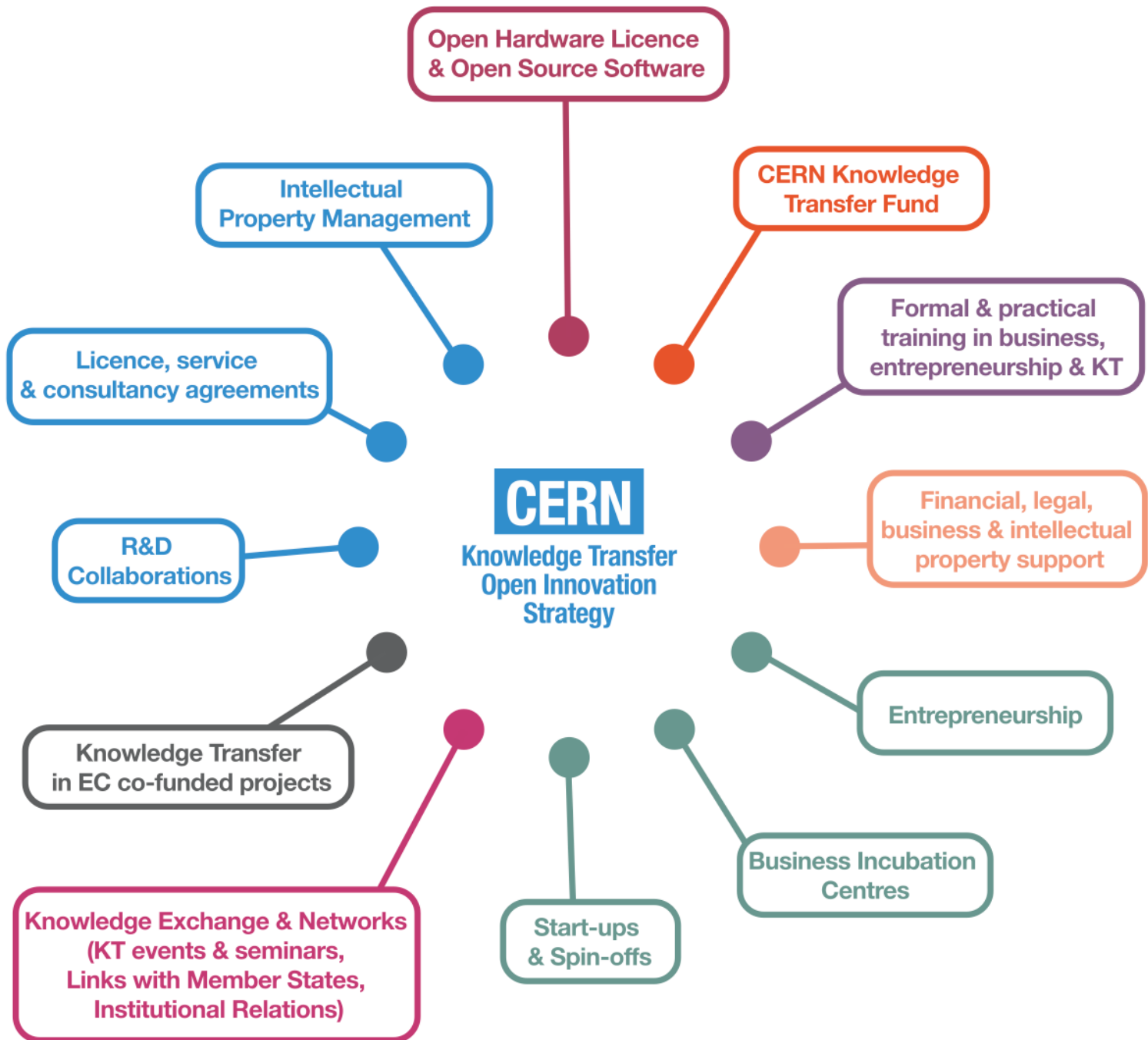
**Key words are dissemination and impact**

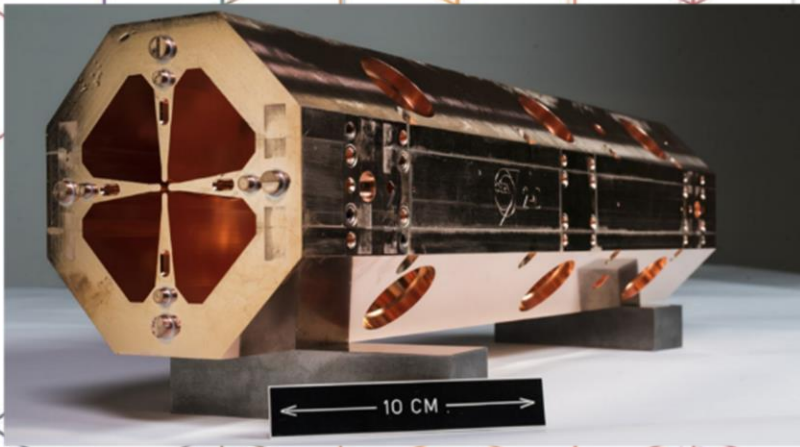


# From CERN Technologies ...



... to Society





***Please ask lots  
of questions!***

## **Agenda**

**09:30** Introductions  
(Giovanni Anelli)

**09:45** History of the HF-RFQ and  
main applications  
(Maurizio Vretenar)

**10:15** Knowledge transfer and  
licensing  
(Amy Bilton)

**10:45** Manufacturing  
(Serge Mathot)

**11:45** RF Tuning  
(Alexej Grudiev)

**12:00** Lunch (including optional  
visit to Synchrocyclotron)

**13:30** Visit to CERN workshops

**15:45** Coffee and final Q&A



Thank You!



*Accelerating Science and Innovation*