



Knowledge Transfer @ CERN

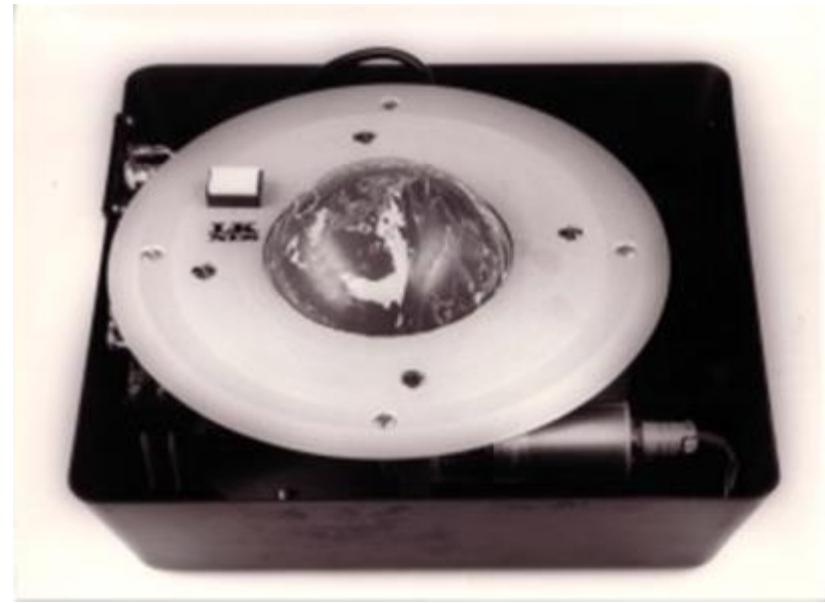
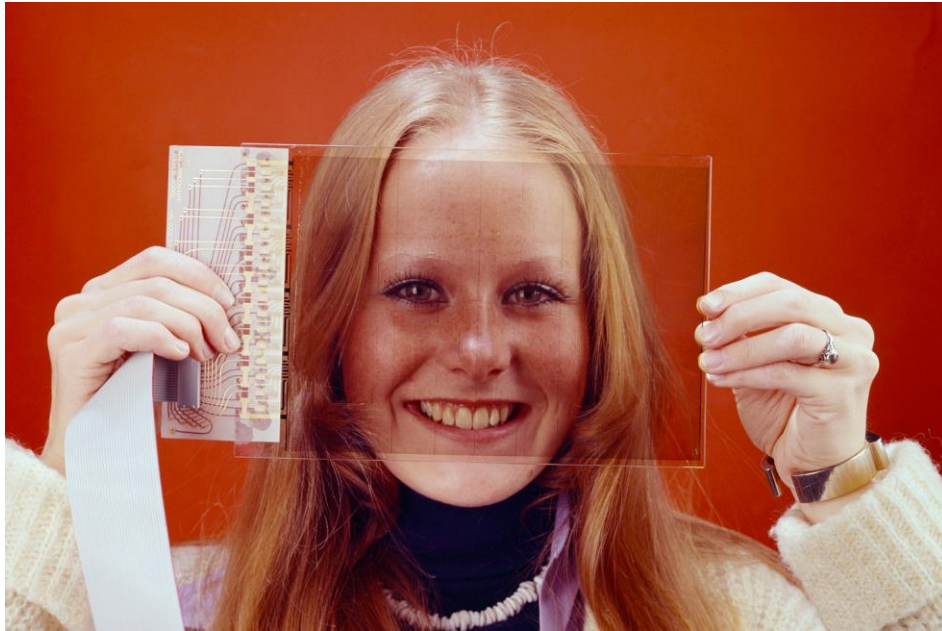
Giovanni.Anelli@cern.ch

Knowledge Transfer Group Leader

IPT Department



Did you know?

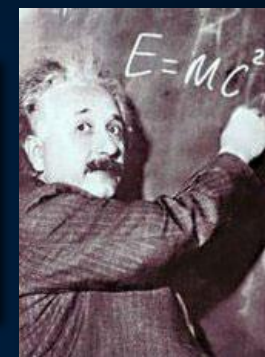
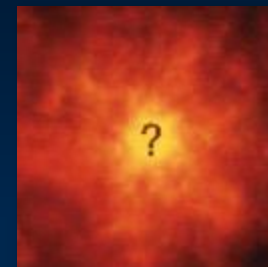




The Mission of CERN

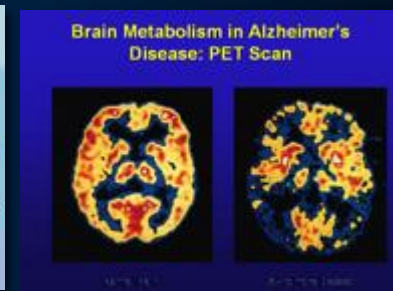
- ❑ **Push back** the frontiers of knowledge

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



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



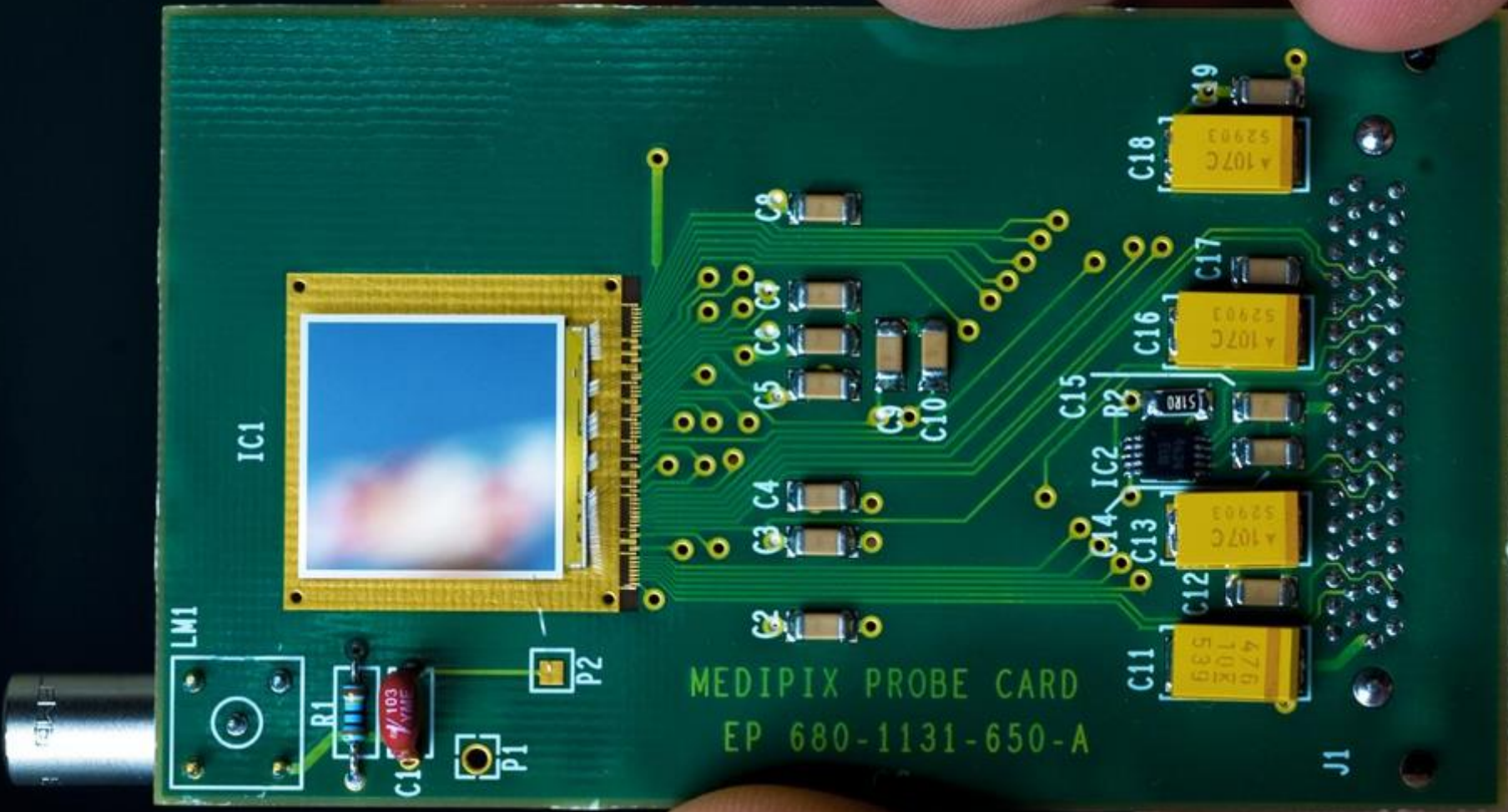
From CERN Technologies ...



... to Society







IC1

LM1

R1

C10

P1

P2

MEDIPIX PROBE CARD
EP 680-1131-650-A

J1

C8

C5

C6

C7

C3

C4

C2

C9

C10

IC2

P2

IC3

C12

C11

C18

C16

C17

C15

C13

C14

C12

C11

C10

C9

C8

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

C17

C16

C15

C14

C13

C12

C11

C10

C9

C8

C7

C6

C5

C4

C3

C2

C18

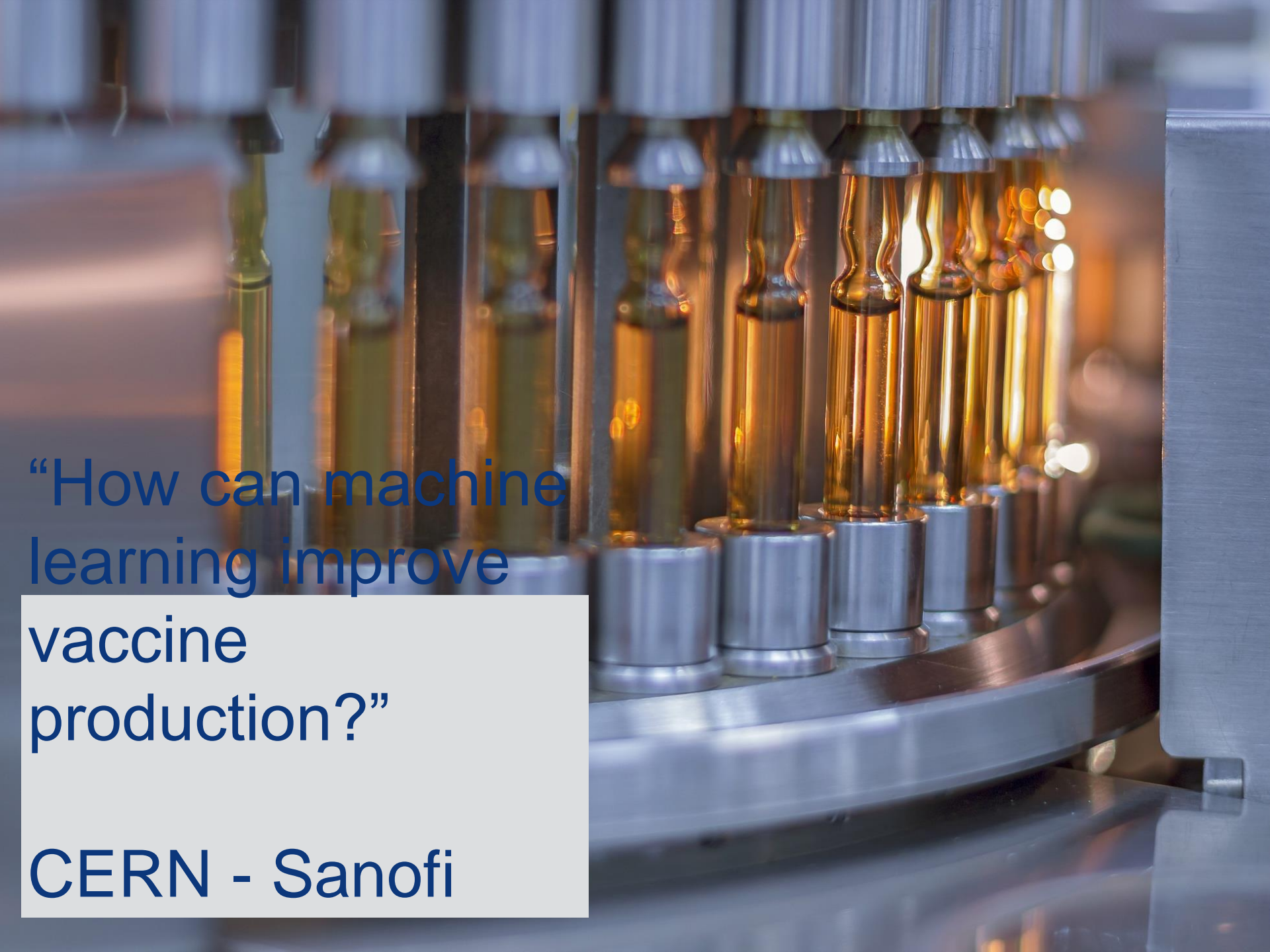
C17

C16

C15







“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

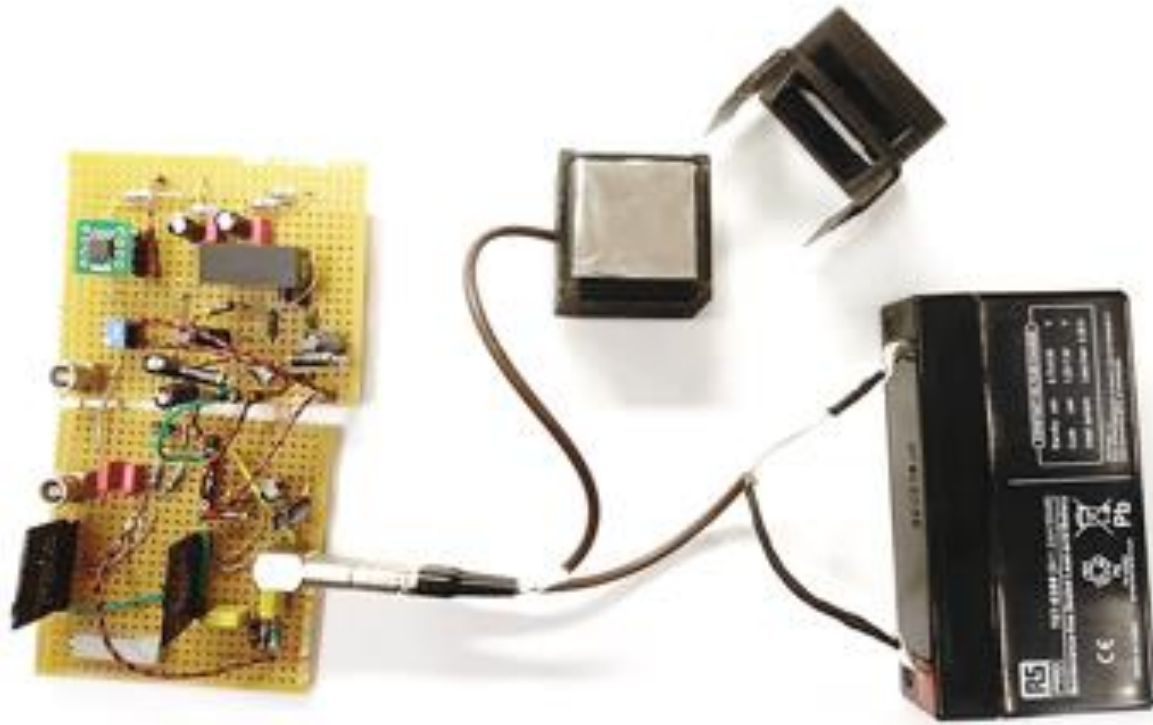
CERN-MEDICIS
First medical
isotopes produced

Centre
Nationale
Etudes
Spatiales -
CNES
partnership
with CERN



CENTRE NATIONAL D'ETUDES SPATIALES





Neasens - A start-up to tackle radon gas risk



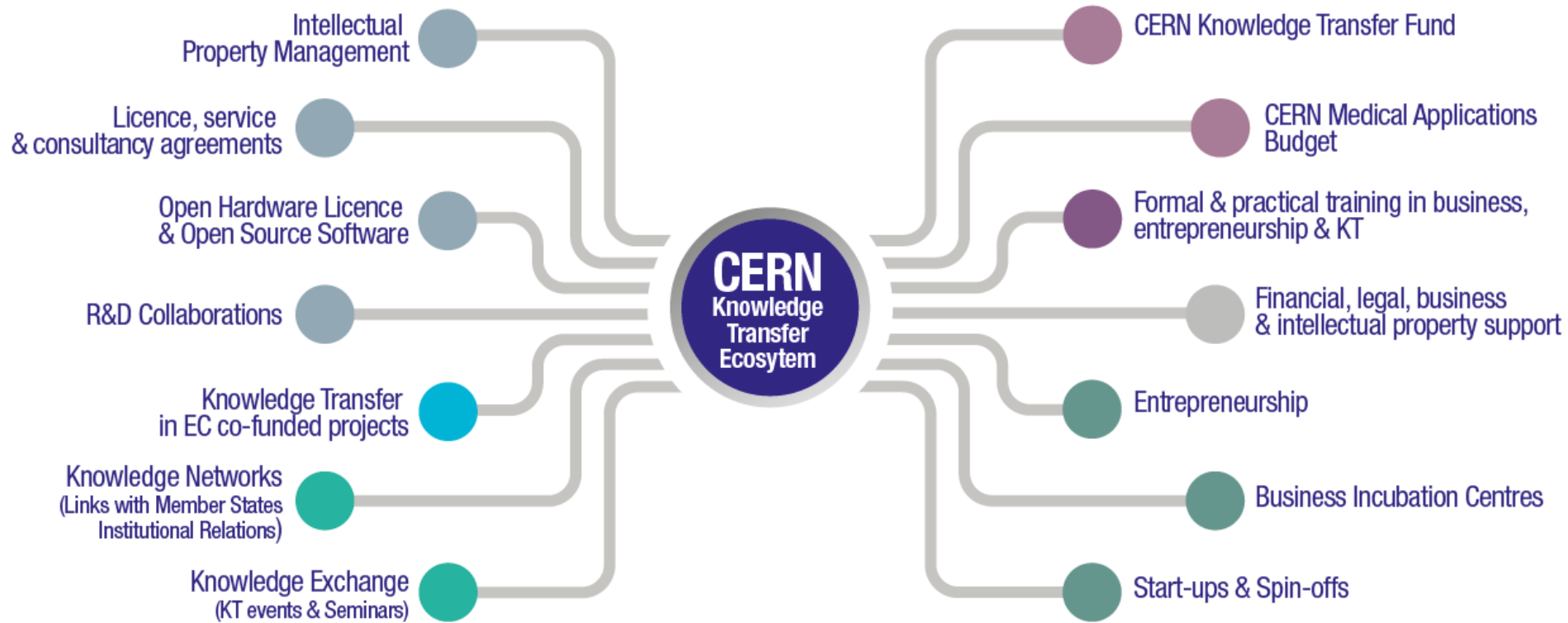
CERN's controls
middleware
software for
worldwide
factory
automation.



#EuropeForCulture

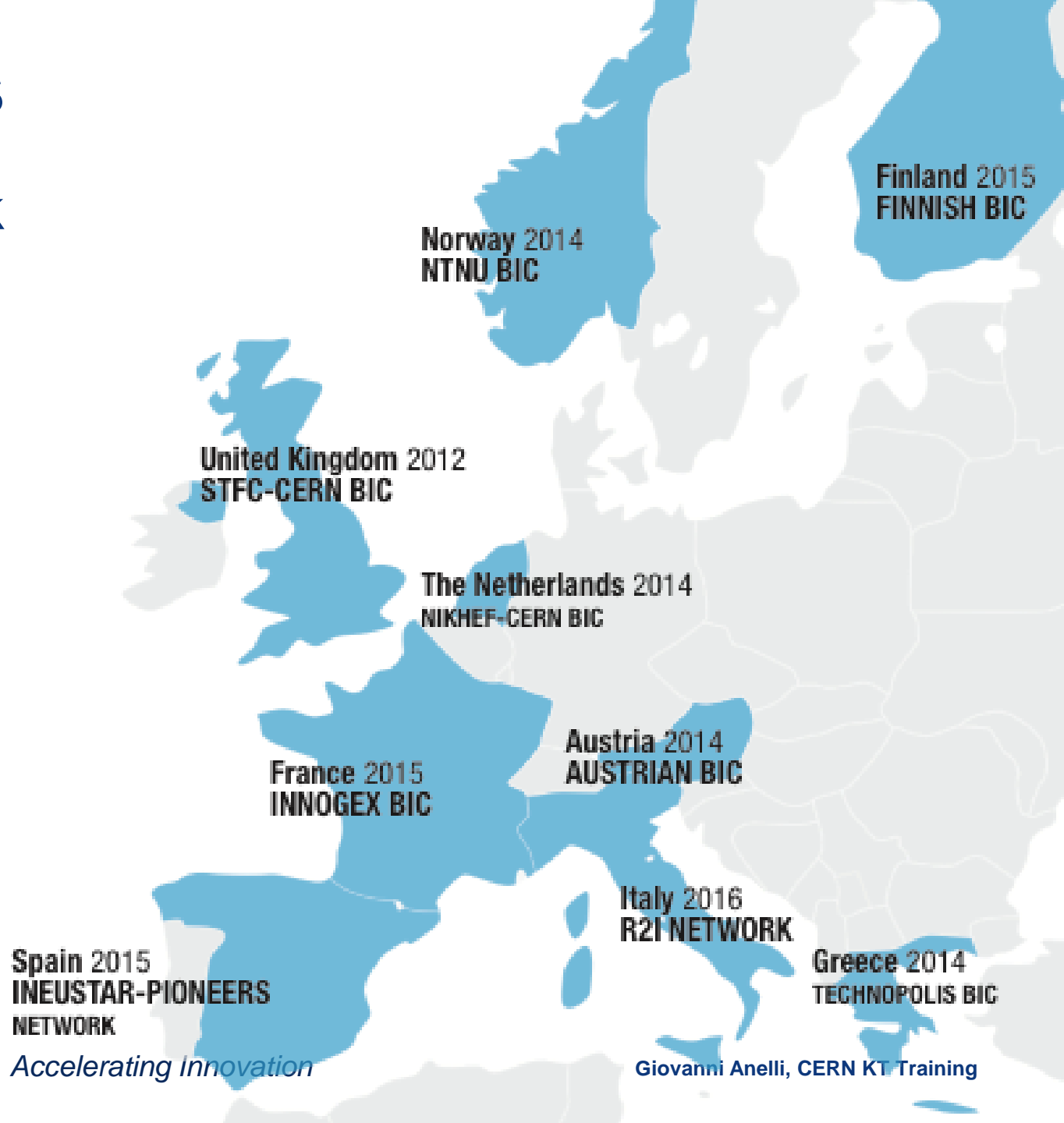
X-ray eyes for cultural heritage - Medipix chip

Building an Ecosystem



CERN BICs

CERN Network of 9 Member State Business Incubation Centres



**START-UPS USING
CERN TECHNOLOGY**

SENSORS

- X-Spectrum
- Advacam SRO
- Advacam OY
- X-Ray Imaging Europe
- Amsterdam Scientific Instruments
- Mars Bio-Imaging
- Quantum Detectors
 - Camstech
 - Terabee

**RADIO FREQUENCY
TECHNOLOGY**

- ADAM

ROBOTICS

- Ross Robotics

**HIGH & ULTRA-HIGH
VACUUMS**

- 2D Heat

**DIGITAL SCIENCES:
DATA INTELLIGENCE**

- Rhizom
- Safetyn
- Colnec Health

**BEAM
INSTRUMENTATION
& SYSTEMS**

- D-Beam

**DIGITAL SCIENCES:
DIGITAL LIBRARIES**

- TIND

**COOLING
& VENTILATION**

- Oxford Nanosystems

**MANUFACTURING
& MECHANICAL PROCESSES**

- Ijspeert Innovative Technologies
- Croft Additive Manufacturing

**DIGITAL SCIENCES:
SIMULATION SOFTWARE**

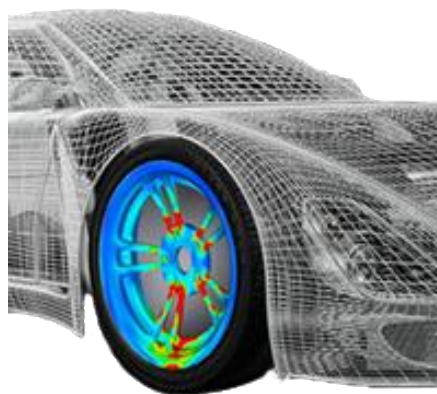
- FEAC Engineering
- Neuschnee
- Innocryst



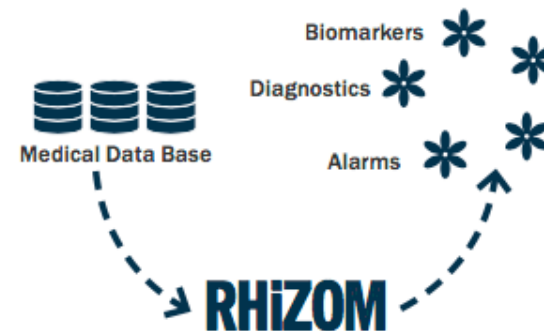
Start-ups accepted in Member State Business Incubation Centres in 2017



D-beam
STFC-CERN BIC



FEAC Engineering
Technopolis BIC



RHIZOM
InnoGEX BIC



Safetyn
InnoGEX BIC
Knowledge Transfer | *Accelerating Innovation*



ADVACAM Oy
Finnish BIC

Giovanni Anelli, CERN KT Training



Why this training?

- Increase visibility of KT within CERN and illustrate what services we offer within the Organization
- Patents are an important source of information in addition to scientific publications, and can help you in your research project
- Patents are an important topic in industry
- What the course will cover: very brief intro to IP, more specific intro to patents, how to search in patent databases
- What the course will not cover: specifics of how to draft a patent, how to apply for a patent.





[Find out more at kt.cern](https://kt.cern)

