

Knowledge Transfer

2019 Quarterly Onboarding

Anais.Rassat@cern.ch

Knowledge Transfer Group

IPT Department

CERN's Mission



Science



Technology



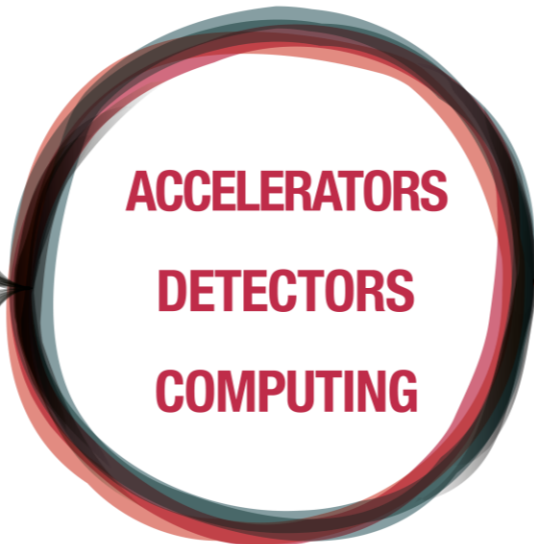
Training



Collaboration

From CERN Technologies ...

- Particle Acceleration & Control
- Cooling & Ventilation
- Cryogenics
- Digital Sciences
- High & Ultra-High Vacuum Systems
- Industrial Controls
- Magnet Technology
- Manufacturing & Mechanical Processes
- Material Science
- Metrology
- Particle Tracking & Calorimetry
- Power Electronics, Optoelectronics & Microelectronics
- Radiation Protection & Monitoring
- Radio Frequency Technology
- Robotics
- Sensors
- Superconductivity
- Testing Facilities

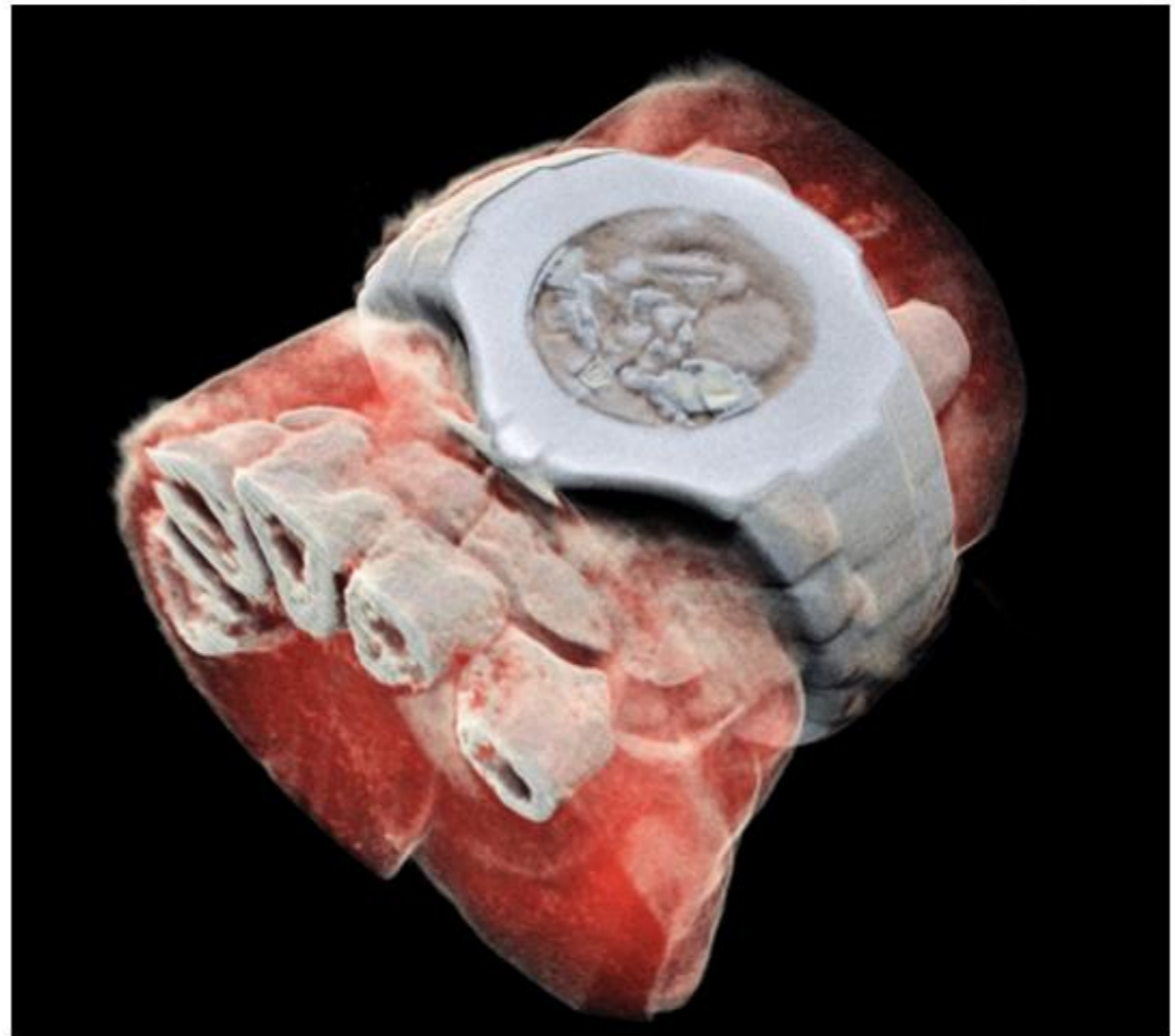


-  **MEDICAL & BIOMEDICAL TECHNOLOGIES**
-  **AEROSPACE APPLICATIONS**
-  **SAFETY**
-  **INDUSTRY 4.0**
-  **CULTURAL HERITAGE**
-  **EMERGING TECHNOLOGIES**

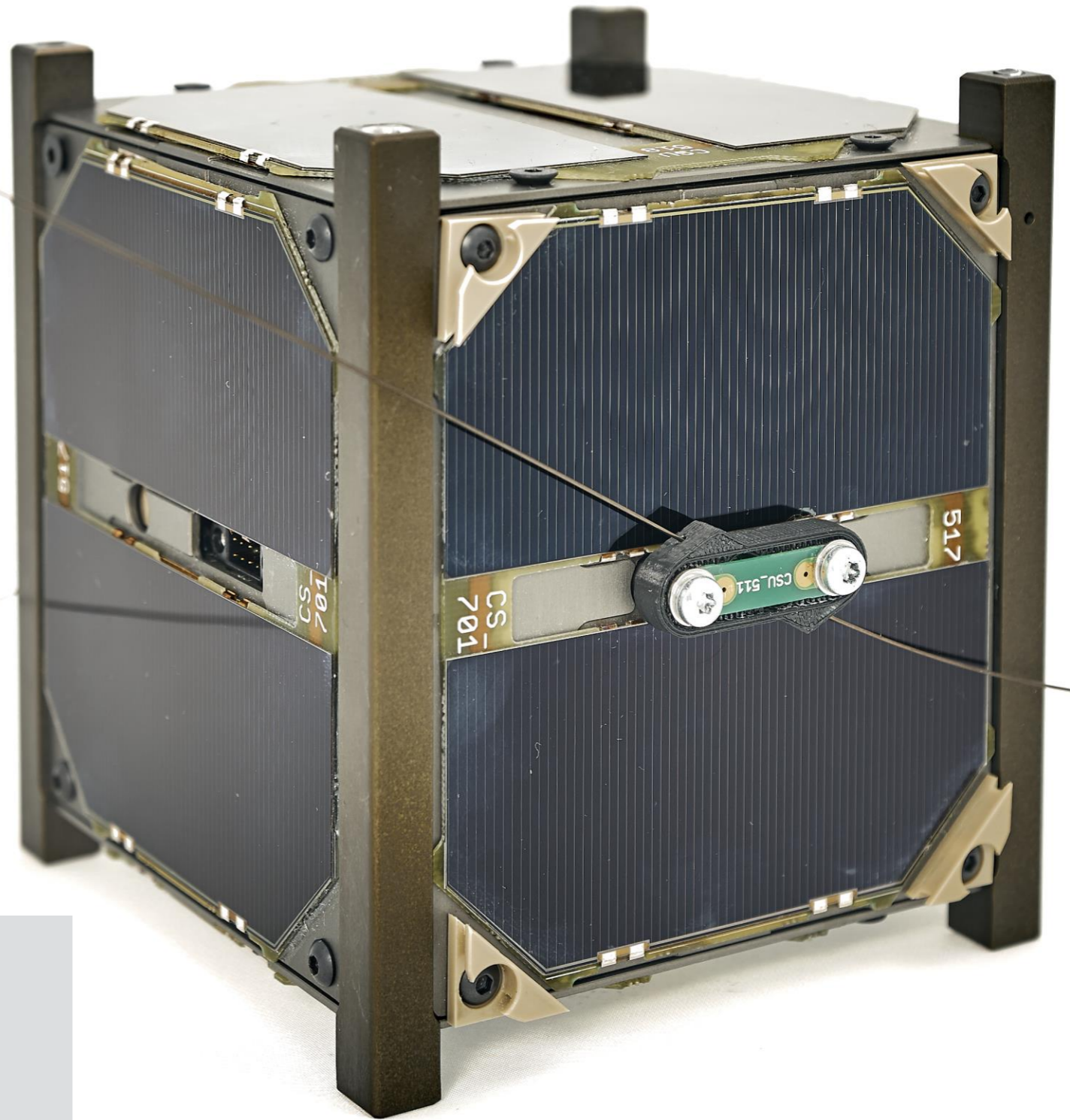
... to Society

3-D Color X-Rays Could
Help Spot Deadly
Disease Without Surgery

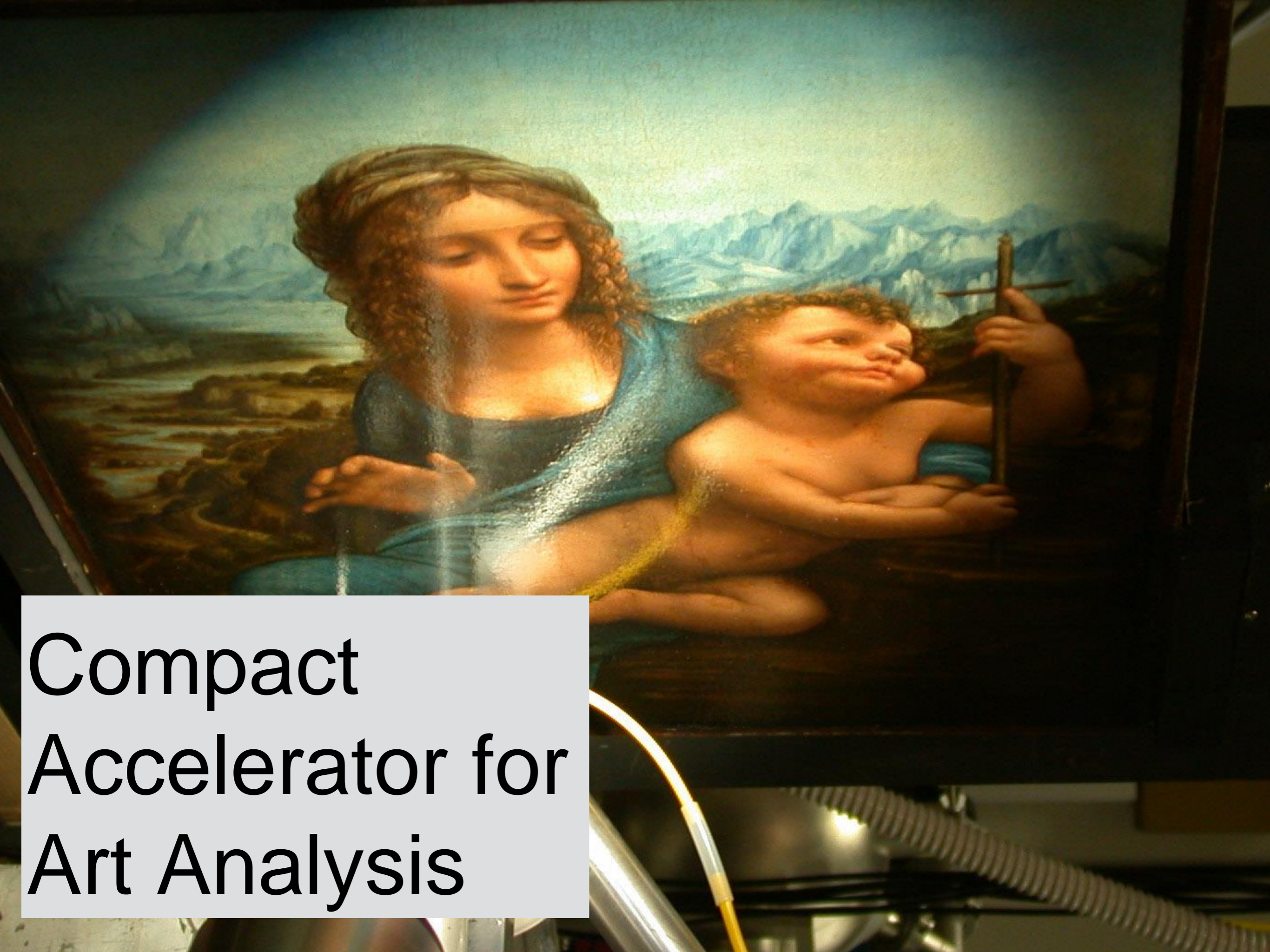
The
New York
Times



MARS Bioimaging & Medipix



First full satellite
CELESTA
tested at CHARM



Compact Accelerator for Art Analysis

**Funding Opportunities for
CERN Projects**

**Collaborations and
Networks**



Open Source



Entrepreneurship



**CERN
Knowledge
Transfer
Ecosystem**

**Support for
CERN Personnel**



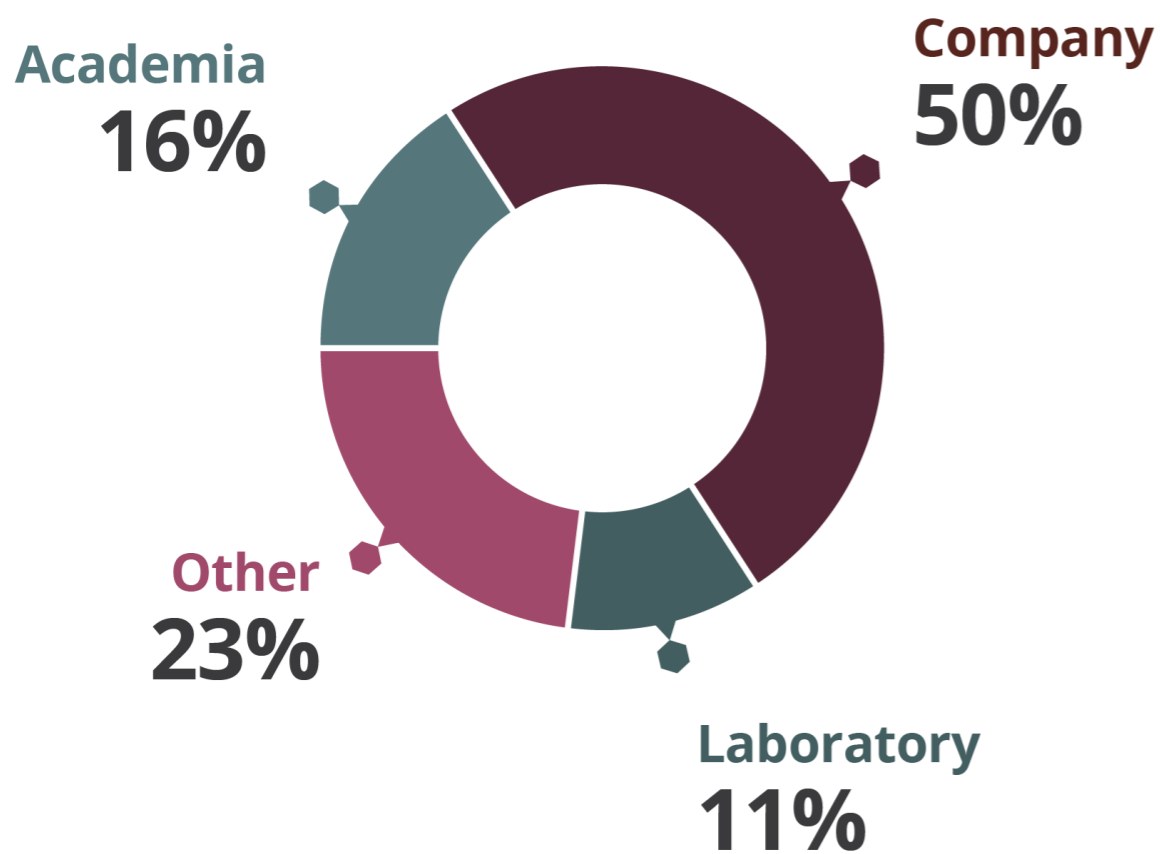
Events



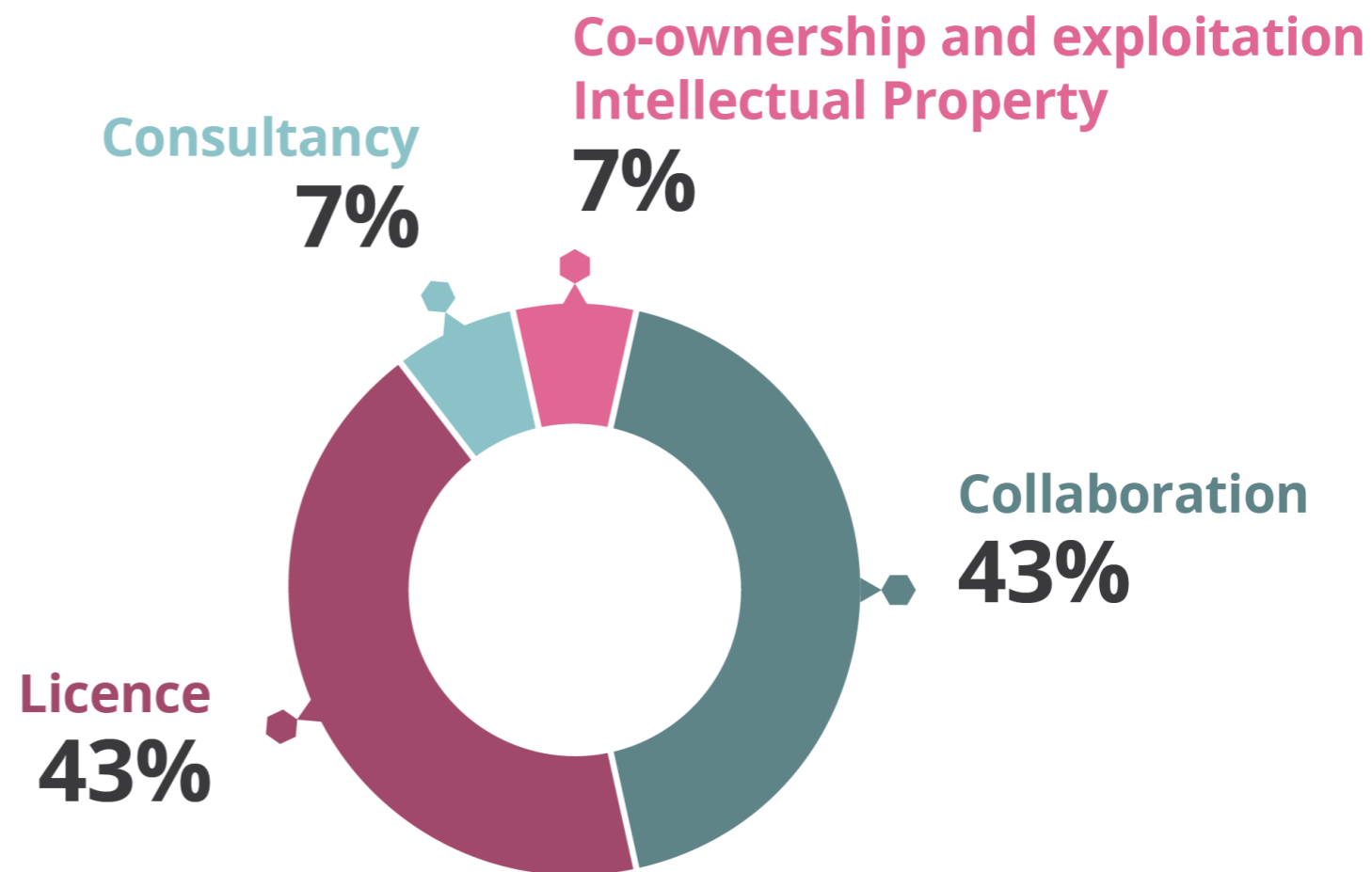
**Intellectual Property
Management**

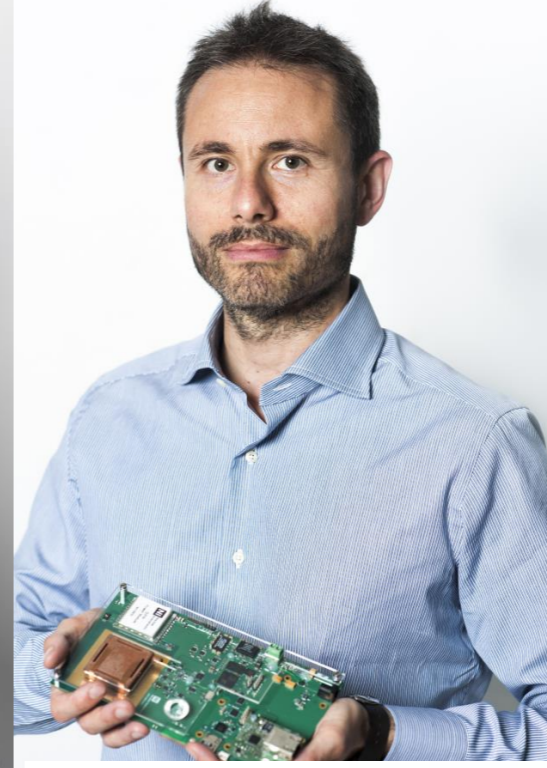
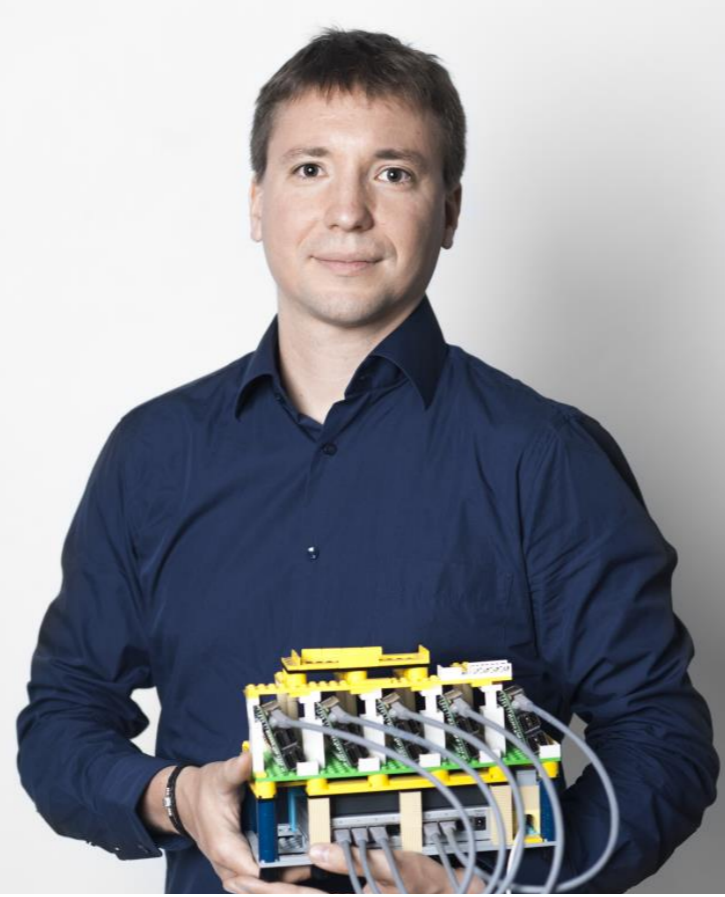
44 KT Contracts in 2018

Contract by Partner

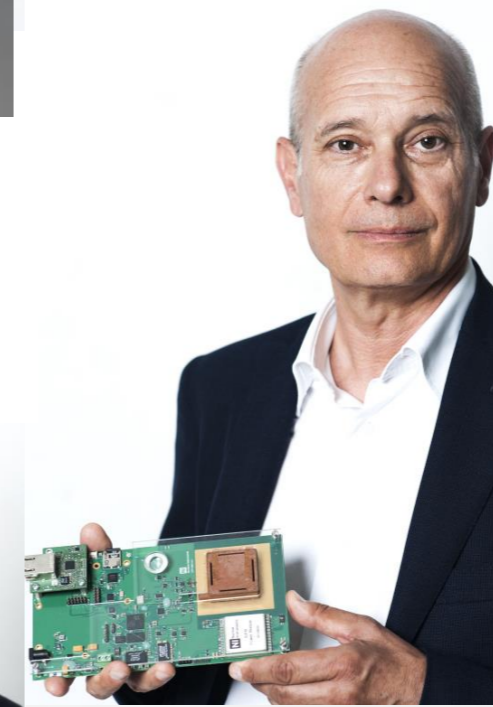


Contract by Type





CERN Knowledge Transfer Fund



Funding opportunities for CERN Personnel

CERN Knowledge Transfer Fund

- 15-220 kCHF range of funding received per project

CERN Medical Applications Budget

- 75 kCHF average received received per project

“Bridging the gap between research and industry, so that society can benefit.”

Next deadline: 2020

Upcoming training sessions:

March 2020: Finding Happiness in Patent Information Databases

2020: Introduction to Knowledge Transfer Tools

kt.cern/events

**Start-ups & SMEs
Using CERN
Technology**

Digital Sciences:

Data Intelligence
Colnec Health
Fossil Ion Technology
Rhizom
Safetytn

Digital Sciences:

Digital Libraries
TIND

Digital Sciences:

Simulation Software
FEAC Engineering
Innocryst
Neuschnee

Sensors

Advacam OY
Advacam SRO
Amsterdam Scientific Instruments
Quantum Detectors
MARS Bioimaging
Terabee
X-Ray Imaging Europe
X-Spectrum

**Power Electronics,
Optoelectronics
& Microelectronics**

A2O Innovation Solutions
Camstech
Picotech

Robotics

Ross Robotics

Industrial Controls

Securaxis

Radio Frequency Technology

ADAM

**High & Ultra-High
Vacuum Systems**

2D Heat

Cooling & Ventilation

Oxford Nanosystems

**Particle Acceleration
& Control**

Artemis Analytical
D-Beam

**Manufacturing
& Mechanical Processes**

Croft Additive Manufacturing
Ijspeert Innovative Technologies

New CERN spin-off
policy

kt.cern/spinoffpolicy



Staff Rules and Regulations (“SRR”) Chapter I,

<i>RULES</i>
Chapter I - Section 5
Articles S I 5.01 - 5.02
1 January 2013

CHAPTER I

GENERAL PROVISIONS Section 5 - Intellectual property

<i>Article N°</i>	<i>Applicable to</i>
S I 5.01 Definition of intellectual property	MP
S I 5.02 Intellectual property rights	MP

Intellectual property shall mean all intellectual creations including know-how, in particular drawings, models, inventions, software, reports, procedures and protocols.

All rights in intellectual property that results from, or is substantially based on, a member of the personnel's activities within the Organization or on its behalf shall be automatically vested in the Organization, except as may be otherwise stipulated by the Organization in its agreements and Memoranda of Understanding.

The Director-General shall:

- a) decide whether or not intellectual property results from or is substantially based on such activities;
- b) lay down the conditions under which authors of intellectual property may have their name associated with it.

Where he deems it compatible with the Organization's interests, the Director-General may:

- a) share the intellectual property rights with the author,
- b) make them over to him, or
- c) grant him a licence to exploit them.

But, what *is* IP???

- Intellectual Property is protected by a variety of intellectual property rights (IPR): patents, copyright, trade marks... depending on the type of IP
- The owner of the IPR (to be distinguished from the author/inventor) can decide *if* and *under what conditions* he makes available the IP to others

KNOWLEDGE TRANSFER SEMINARS on industry 4.0

BIG : DATA : TRUST

New Ideas for Secure Identity Management inspired by Quantum Mechanics

Manfred Paeschke
Chief Visionary Officer, Bundesdruckerei GmbH

21st January 16:00
room 3-R-002

<https://indico.cern.ch/e/bigdatatrust>

KNOWLEDGE TRANSFER SEMINARS on entrepreneurship

THE JOURNEY OF A SERIAL ENTREPRENEUR

Patrick Delarive
Founder and President, Delarive Group

11th February 16:00,
Council Chamber
Join us for coffee at 15.30

<https://indico.cern.ch/e/entrepreneur>

KNOWLEDGE TRANSFER SEMINARS on medical applications

Light and matter at the nanoscale: new technological opportunities for medical imaging

Stefan Enoch

KNOWLEDGE TRANSFER SEMINARS on innovation

PHYSIQUE ET MÉDECINE : La théranostique actuelle et du futur

Conférence publique MEDICIS-Promed

ing the interplay growth
entre la science, la technologie

KNOWLEDGE TRANSFER SEMINARS on medical applications

Séminaires transfert de connaissances sur les applications médicales

Translational imaging mass spectrometry: From CERN to the surgeon

Imagerie par spectrométrie de masse : du CERN au chirurgien

Prof. Ron Heeren
Director M4I
Maastricht University

29th May 11:00 Council Chamber
Join us for coffee at 10:30

<https://indico.cern.ch/e/massspec>

KNOWLEDGE TRANSFER SEMINARS on cultural heritage

Séminaires transfert de connaissances sur la préservation culturelle

Smart*Light: A table-top synchrotron for the investigation of art objects

*Smart*Light : Un synchrotron de table pour étudier les oeuvres d'art*

Prof. Joris Dik
Delft University of Technology

29th June 14:30 Main Auditorium
Join us for coffee at 14:00

<https://indico.cern.ch/e/smartlight>

MAIN AUDITORIUM

KNOWLEDGE TRANSFER SEMINARS on aerospace applications

CERN colloquium

JUICE SPACE MISSION TO JUPITER

Giuseppe Sarri
European Space Agency
Project Manager of the JUICE mission

26th April 2018
16:00
Main Auditorium
www.cern.ch/juice2018

KNOWLEDGE TRANSFER SEMINARS on medical applications

GaToroid: A Novel Superconducting Compact and Lightweight Gantry for Hadron Therapy

Luca Bottura

kt.cern/events

KNOWLEDGE TRANSFER SEMINARS on industry 4.0

EN Engineering Department

CERN MAIN AUDITORIUM

KNOWLEDGE TRANSFER SEMINARS on medical applications

Knowledge Transfer Accelerating Innovation

medipix collaboration

COUNCIL CHAMBER

KNOWLEDGE TRANSFER SEMINARS on medical applications

<https://indico.cern.ch/e/gantry>

A photograph of two young women in a meeting room. They are looking at a whiteboard covered in colorful sticky notes. The woman on the left is pointing at a note. The woman on the right is wearing glasses and looking at the board. The whiteboard has several columns of notes with headings like 'Transforming Session', 'MATERIAL CHARACTER', 'COMPLETION', and 'RISK'.

- Entrepreneurship Meet-Ups:
10 December lunch: "Side project" share and care lunch

- Start-up Coaching:
 - Working on a passion project?
 - Dreaming of creating your own company?
 - Do you have a good idea?**Email us: kt@cern.ch**

FIND US: kt.cern/entrepreneurship

**Entrepreneurship
@ CERN**



Find out more at
kt.cern

kt@cern.ch

