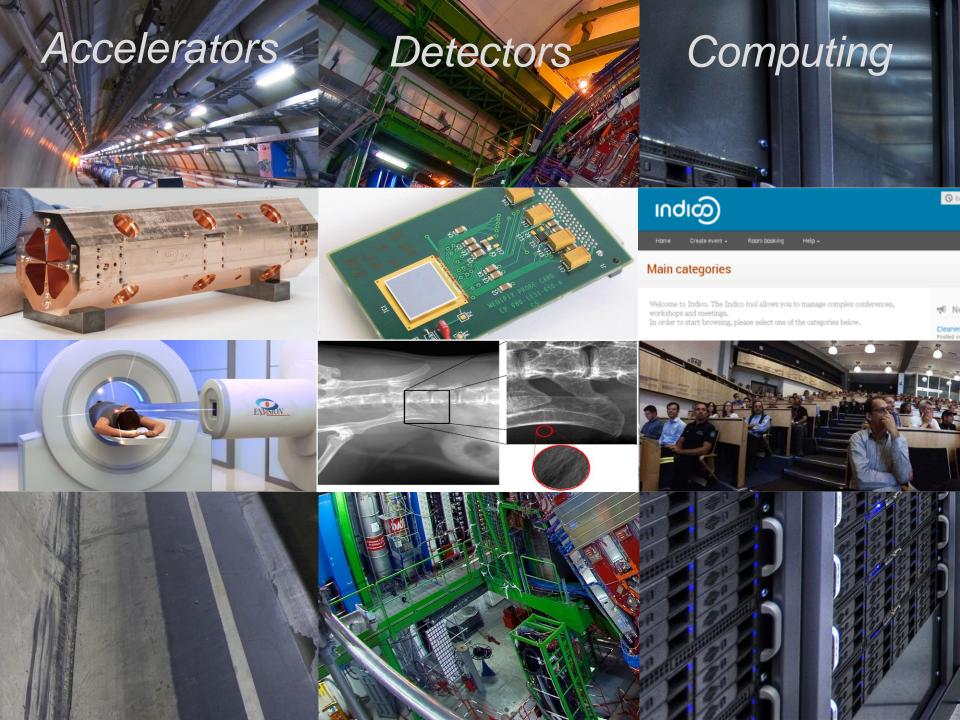
## **Knowledge Transfer at CERN**

#### **David Mazur**

IP Dissemination Section Leader Knowledge Transfer Group CERN





#### **KT Mission**

Maximize the technological and knowledge return to Society, specially in the Member States

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



Key words: dissemination and impact!







## Examples of transfers 2015

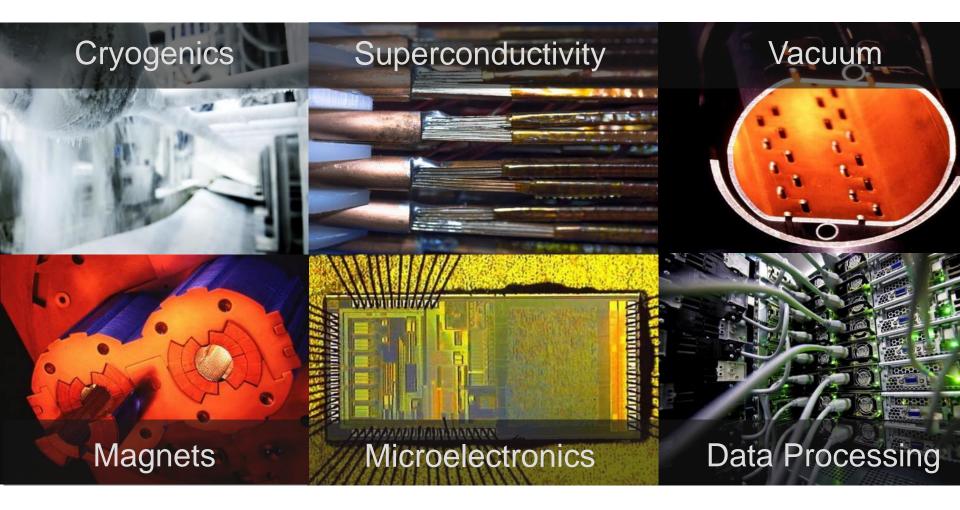
CERN's particle simulation technology is used in patient treatment planning systems of a Swedish multinational medtech company.

CERN's document management software is used by a major university and major international organization, as a commercial service by a CERN spin-off.

CERN's radiation monitoring technology is commercially available in an off-the-shelf product of a young Italian company.

CERN's «miniature accelerator» is being integrated into a commercial proton therapy system by a CERN spin-off.

# **CERN Core Competences**





# From science to innovation – Topics relevant to power sector

CERN technologies

Dissemination models

Entrepreneurship development



### From high vacuum... to solar energy



**CERN Technology** 

Non-Evaporable Getter Coating

**Industry (spin-off):** 

High Efficiency Solar Collectors



# ... to off-grid energy generation and storage





Solar Hydrothermal Advanced Reactor Project (SHARP) for Biological Waste Management



# Superconductivity



Superconducting cables and HTS

Compact and efficient cryogenic systems



#### **Dissemination Models**

How to ensure widespread access to innovations, in particular for global questions like renewable energy?

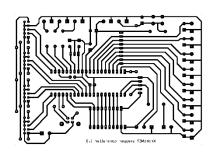
Open Access Publications

Open Source Software

Open Hardware



# Open Source Hardware and CERN Open Hardware Licence (OHL)









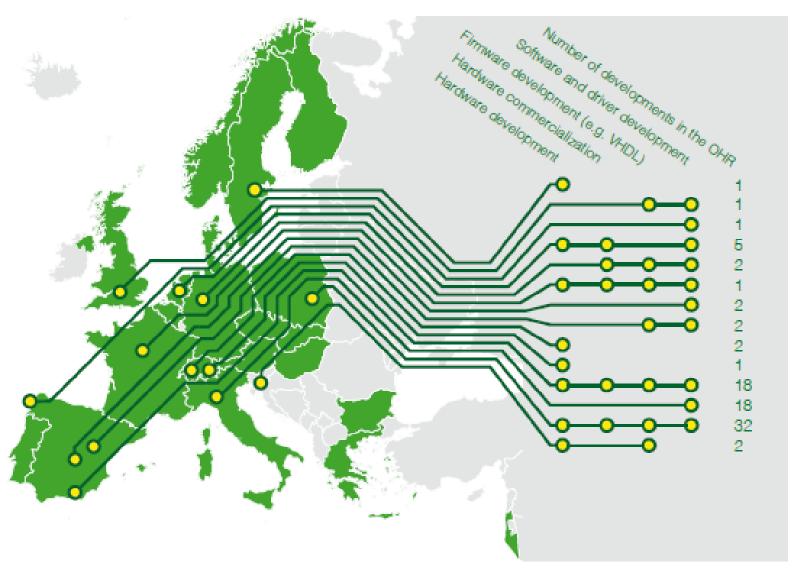
www.ohwr.org

A legal framework to facilitate knowledge exchange across the electronic design community.

Governs the use, copying, modification and distribution of hardware design documentation, and the manufacture and distribution of products.



### CERN OHL: it is making an impact!





## **Entrepreneurship Development**



Fostering an Entrepreneurship Culture

Facilitating CERN Spin-Off creation



### CERN BIC Network

#### **Established incubators:**

UK - STFC-CERN BIC

Netherlands - NIKHEF-CERN BIC

Norway – NTNU BIC of CERN Technology

Greece – Technopolis BIC of CERN Technology

Austria – Austria BIC of CERN Technology

France – InnoGEX BIC of CERN Technology

Finland – Finnish BIC of CERN Technology

Spain – Spanish BIC of CERN Technology

#### **Advanced Pipeline:**

Italy







spin-off



technology



supplier



CERN in Society



## KT Annual Report 2015

Knowledge Transfer 2015









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