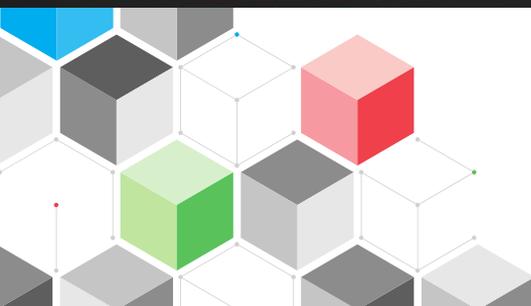




Hari TOIVONEN  
November 30th, 2017



# CERN Ideasquare

## STUDENT PROGRAMS INTRO

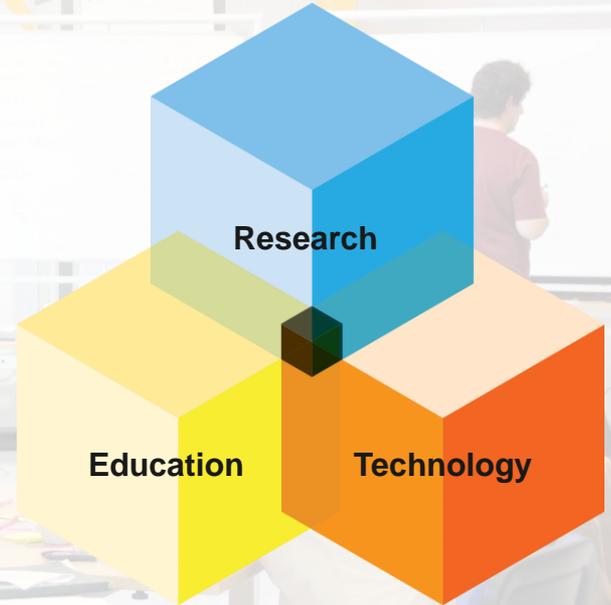


# IDEASQUARE IN BRIEF

“Ideasquare is a **human experiment** that brings together physicists, engineers, industrial partners, early-stage researchers and cross-disciplinary teams of students to **work together** on detector upgrade R&D technologies. The purpose is to **co-develop new technologies for research purposes**, and at the same time, create a fruitful environment for socially and globally relevant **new product ideas and innovation.**”

# IDEASQUARE IS

- Project with a dedicated building (B3179), hosting:
  - EU-funded detector upgrade R&D projects
  - Multidisciplinary master level student programs
  - Innovation events, workshops, hackathons
- ...to prototype, test and iterate new forms of collaboration and co-creation in the areas of Research, Education and Technology - **RET**





Challenge  
Based  
Innovation

## EXAMPLE: STUDENT PROGRAM

- Challenge Based Innovation (CBI) is 4-6 month MSc-level specialization course for product and service development, run by participating universities from (currently) 8 countries around the world
- In the course, multidisciplinary student teams learn how to apply Design Thinking – process for new product/service development; CERN researchers act as technological coaches in the process
- “Work extremely hard, learn and have fun!”
- “Fail fast and often to succeed sooner”

# ONGOING STUDENT PROGRAMS

- CBI A3
  - Students from Politecnico do Porto, Swinburne University of Technology
  - Started in November 2017, final presentations mid April 2018
- CBI-X
  - Students from University of Modena and Reggio Emilia, University of Ferrara
  - Started in November 2017, final presentations February 13<sup>th</sup>, 2018
- RCA at CERN
  - Students from Royal College of Arts
  - Started in October 2017, interim presentations at CERN December 5<sup>th</sup>, 2018, final presentations in London January 18<sup>th</sup>, 2018
- CBI Mediterranean
  - Students from ESADE Business School, Istituto Europeo Design (IED) and Universitat Politècnica de Catalunya (UPC)
  - Started in September 2017, final presentations at CERN December 14<sup>th</sup>, 2018
- Common to all student programs this autumn = all projects connected to UN Sustainable Development Goals



# Existing CERN connections to UN & Sustainable Development Goals



IPU



ITU



UN



UNITAR



UNOG



UNOSAT



WHO



WIPO



WMO

## Sustainable Development Goals

CERN contributes de facto to some of the [Sustainable Development Goals](#), the UN roadmap for development for the years 2015-2030. These goals are of particular relevance in CERN action and impact on society.



*All you need is*

*..Love* + PHYSICS

*..Design*

*..Business*

*..and Engineering.*

Interested in learning more?

Interested in mentoring a student team? Lets connect!

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Natel. 166533



Idea<sup>s</sup>