

CERN IdeaSquare

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IDEASQUARE IN BRIEF

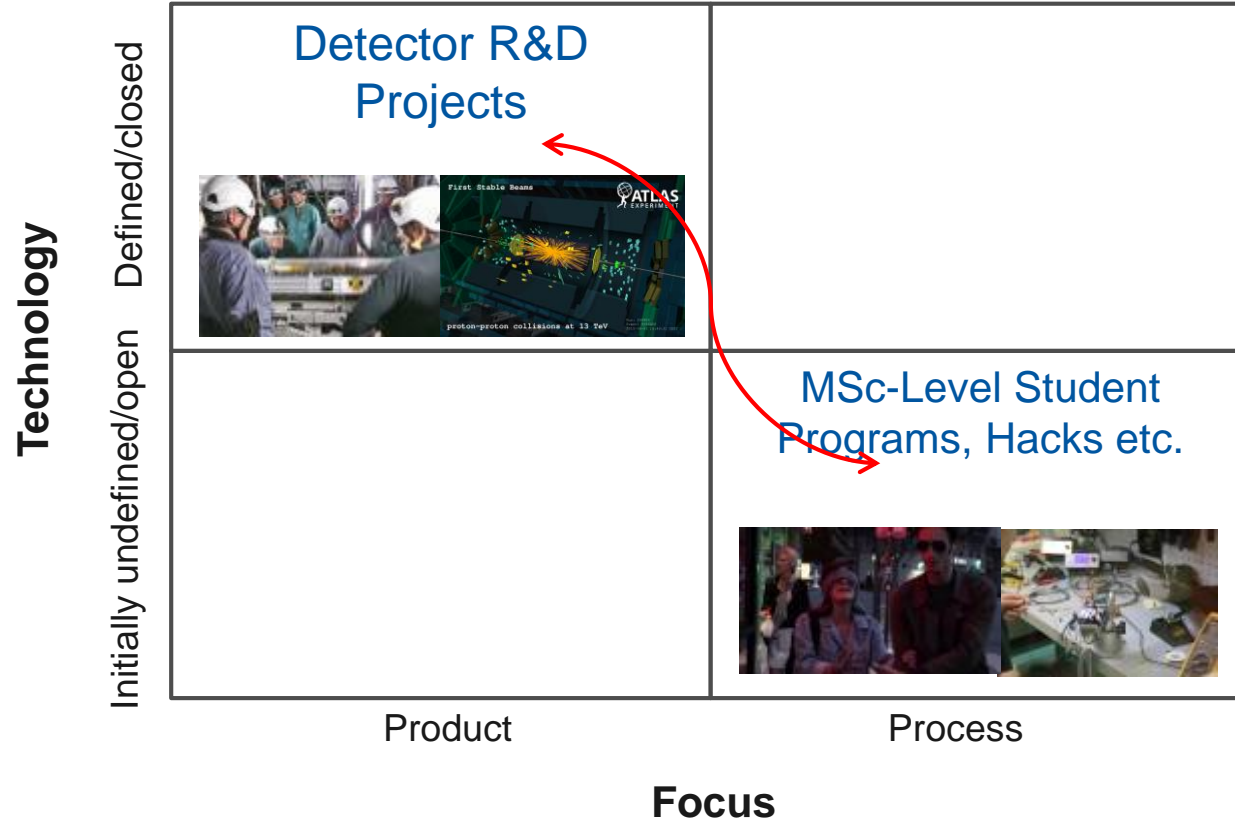
“Ideasquare is an experiment that brings together researchers, engineers, industrial partners and cross-disciplinary student teams to work together on detector upgrade R&D technologies. The dual purpose is to co-develop new technologies for research purposes and create a fruitful environment for socially and globally relevant new product ideas and innovation.”

IDEASQUARE IS

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

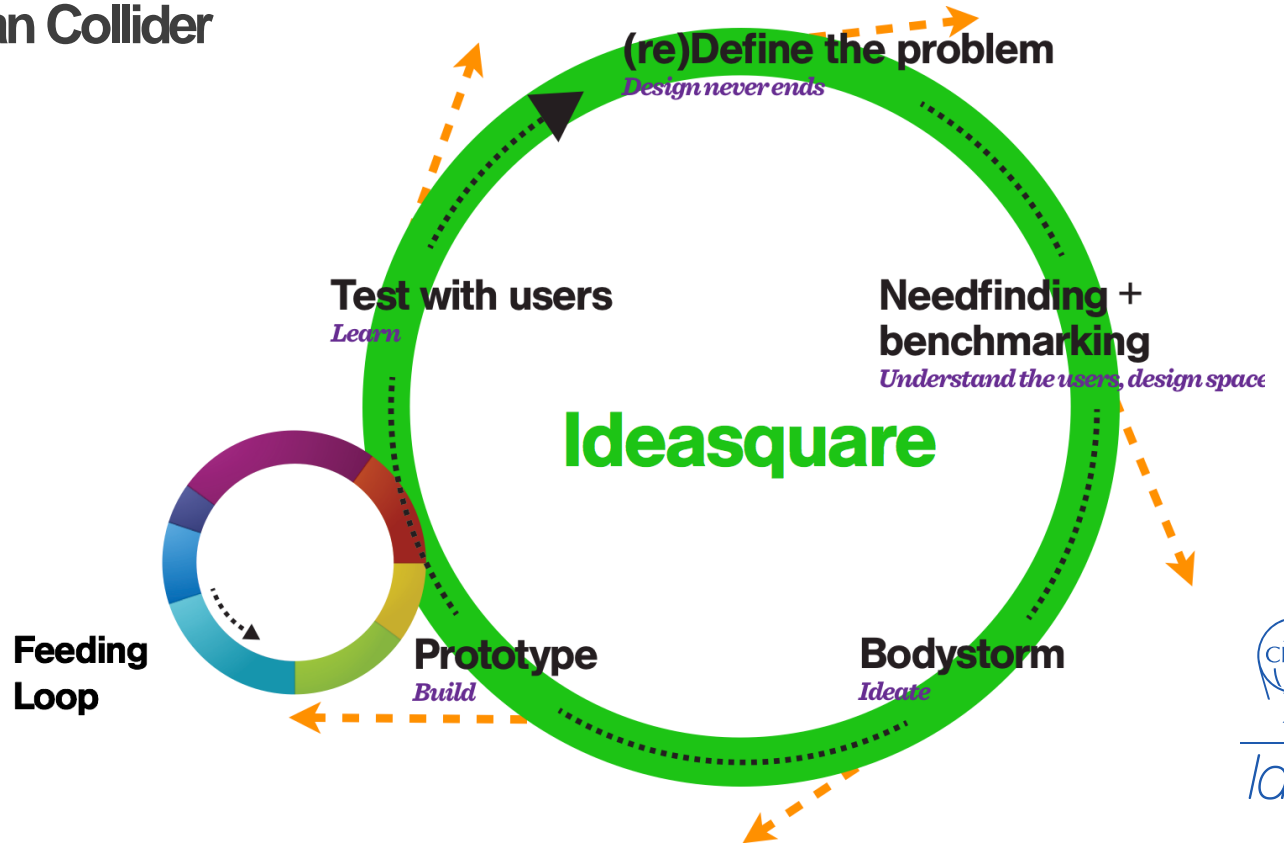


WHAT IS THE MOST INTERESTING LINK FOR NEW INNOVATION?



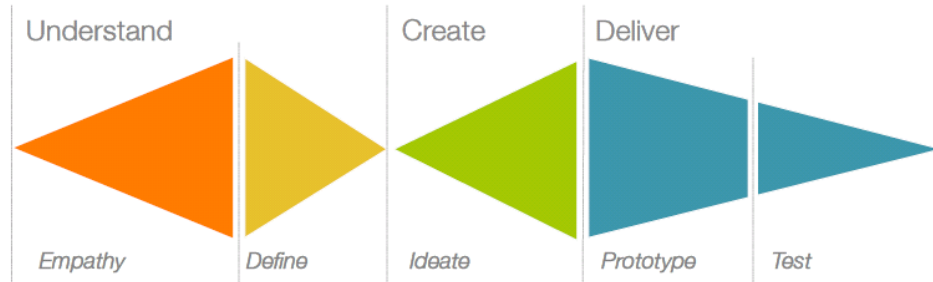
IDEASQUARE

The Small Human Collider

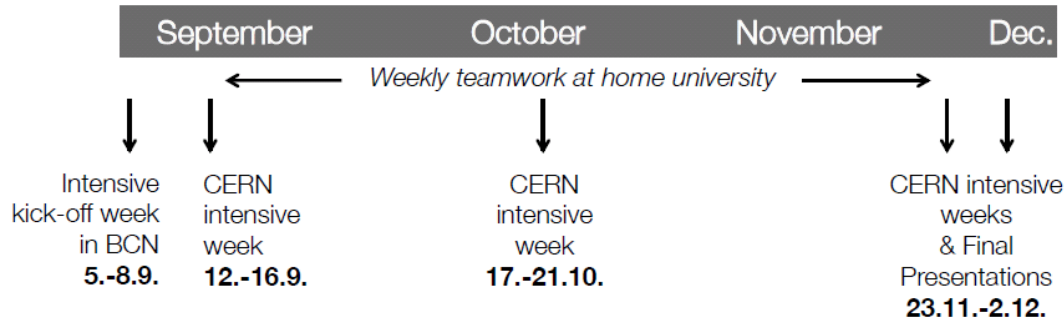


TYPICAL STRUCTURE OF MSC-LEVEL STUDENT PROGRAM AT IDEASQUARE (CBI)

CBI TIME LINE: SEPTEMBER 5TH – DECEMBER 2ND



Design Thinking



EXAMPLES OF STUDENT PROJECTS



PREVENTING HIP INJURY FROM INVOLUNTARY FALL



Idea^s

A SHEPHERD FISH TO PREVENT OVERFISHING BY SHEPHERDING SCHOOLS OF FISH AWAY FROM FISHING FLEET BEFORE THEY HAVE REACHED OPTIMAL SIZE





HELPING CHILDREN IN THE AUTISM SPECTRUM TO COMMUNICATE

IV.
Solution

https://www.youtube.com/watch?v=w5S8vSHH_XA

IDEASQUARE OUTPUT

- Education of future scientists and innovators
- Creating talent for *both* basic research and entrepreneurship (iterative prototyping, new business concepts)
- Sharing of ideas, spaces and resources improved in and between versatile development projects in a high-tech environment
- Societal value from basic research
- Shared experimental data on innovation processes (CIJ)
- Demonstrator for ATTRACT (www.attract-eu.org) to create local entrepreneurial ecosystems using centers like CERN as engines of innovation

SOCIO-ECONOMIC RESEARCH ON EXPERIMENTAL INNOVATION



IdeaSquare Journal of Experimental Innovation

- Online, cited (Reuters) open access journal
- Targeted for research on experimental innovation processes and methodologies, (to be) tested or used at IdeaSquare
- Short, peer-reviewed articles to communicate key results
- Annual workshops to work further on published articles for special issues in well-established journals
- First issue in Autumn, 2016
- Editor-in-chief: Prof. Saku Mäkinen (Tampere University)
- Senior Editors: Prof. Julian Birkinshaw (LBS), Roberto Verganti (Milan)

<http://cij-ei.web.cern.ch/cij-ei/>



HOW TO GET INVOLVED WITH IDEASQUARE?

- Through physics experiments at CERN doing detector R&D that have some connection with society (e.g. non-physics student initiatives)
 - e.g. ATTRACT
- Proposing and participating in initiatives to bring together engineering, business management and design students (and their professors) who ask IdeaSquare to host them (e.g. CBI)
- Participating in new events and initiatives (e.g. hackathons, see Port)
- Doing research (e.g. PhD) together with us on innovation processes (CIJ)

<https://ideasquare.cern>

All you need is

..Love **PHYSICS**

..Design

..Business

..and Engineering.

Questions? Comments?

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@ideasCERN

#Ideasquare #ThinkDoCollaborate #CERN

Let's have a cup of coffee and make it happen!



Idea^s