







WHO ARE WE?





In the last 6 years

600+ students

50 companies

26 industries

100+ projects

8 projects continued







Prototyping the Future of Education!







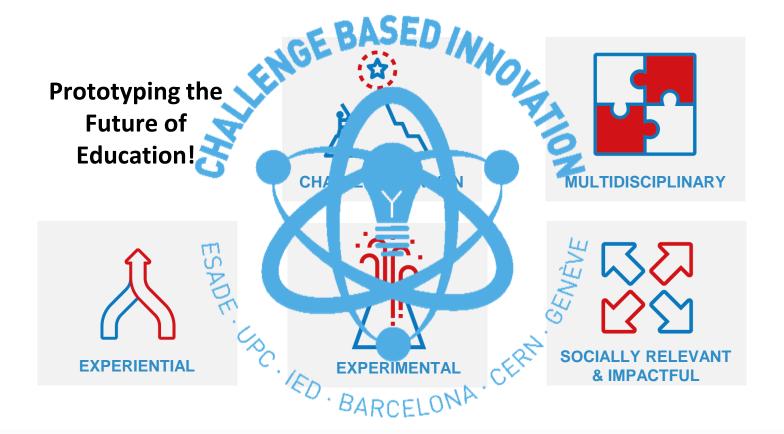




















CBI has has a big media impact

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FINANCIAL TIMES

MBA project at Cern develops device to bring electricity to refugees

Students worked with scientists at particle physics facility to help displaced people



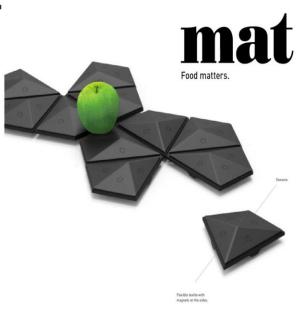
Problem solving: the ElecTree team promote their project at Cern © Darrin Vanselow







2014





Food security: Device for detection of the state of food, with the objective of avoiding domestic food waste.





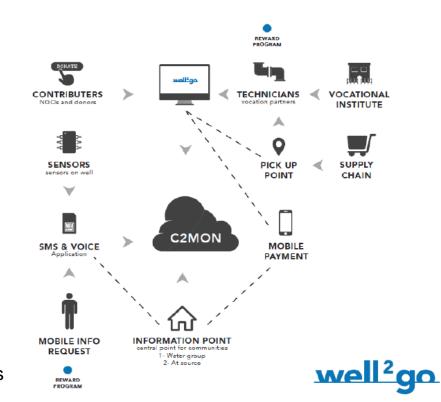


2015



Water safety: 78% of wells not fully working

- sensor + sms-based network to identify failing wells
- platform to manage and finance wells repairing









2016





Improvement of quality of life of people at refugee camps: smart energy distribution for shelters







2018















WE BE

THE LEAF PROJECT







2019

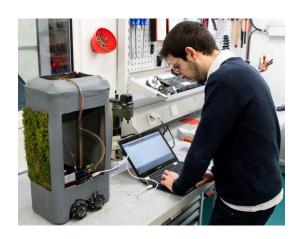
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11.2













2020





DECENT WORK AND

ECONOMIC GROWTH











2. Education & Learning

3. Work & Life

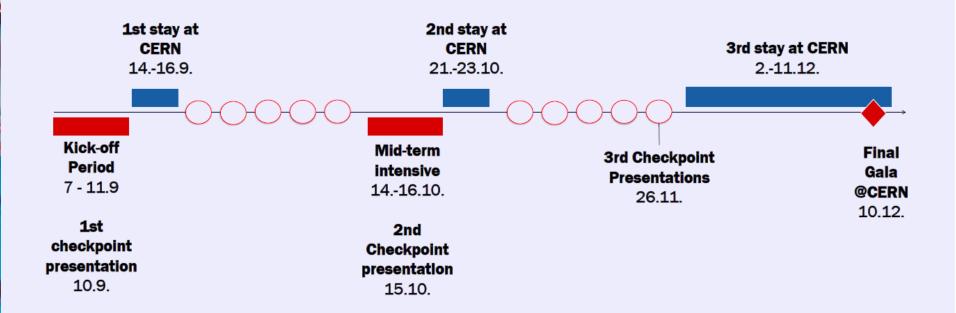
4. Information

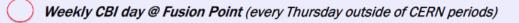
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There has never been a greater need for accurate, verified information

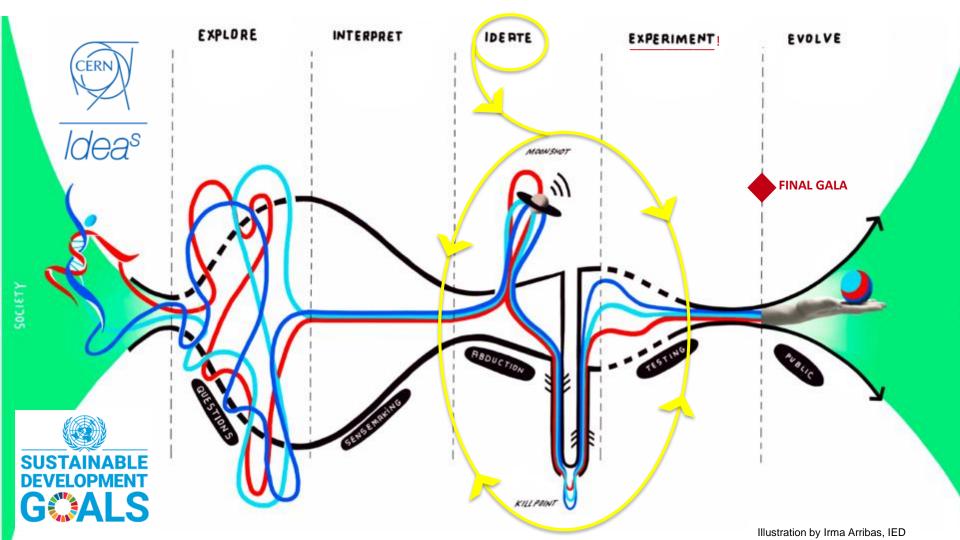


CBI-course timeline & overview















Key Learnings / Key Challenges

- Key role of multidisciplinarity
- Key role of interaction with CERN/IdeaSquare
 - Singularity of the institution -> High motivation
 - Inspirational environment
 - Possibility of contact with top notch scientists
 - Possibility of contacts at the Geneva ecosystem
 - Advantages of intensive periods "confined" at IdeaSquare
- Difficulties in identifying opportunities of using CERN technologies
- Limitations in continuing the projects
- Need of measuring outcomes
- Human & financial resources needed for courses like CBI







Academic Research

- Research areas
 - Challenge-Driven Education Measuring Learning etc.
 - Methodology: Tools & Approaches
 - Science with and for Society (CBI/ATTRACT/TESI)
 - Responsible Research and Innovation positive social impact
 - Fantasy-Imagination-Creativity & Artificial Intelligence
- 1 PhD thesis in Engineering Education in course
- 3 conference communications, 1 more accepted

2 papers (in review process). Innovation-related skills in CBI engineering

students

- quantitative analysis of surveys
- qualitative analysis of students' reflection documents

Skills Category	CBI vs PDP
Creativity	>>
Leadership & Entrepreneurship	>>
Networking	>>
Impact	>>
Teamwork	>
Personal & professional skills	2
Experimentation and knowledge discovery	<
Planning & Managing	<<







Impact on the students

- Transformative experience in most cases
- Very positive feedback

"I think each one of us contribute in a different way because all of us were unique and with different opinions, but the combination of all the points of view turned out very satisfying results. Furthermore, I realized the importance of working in a multidisciplinary team because every discipline contributed in a different way, but all of them were important and made the whole process much easier. That is one of the reasons why I think the research and ideation of our solution was that accurate and complete."







Quote

