

HiLumi-FCC Innovation Course

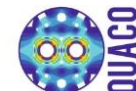
Welcome and introduction to the innovation challenge

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Innovation Course 31st January – 1st February 2018



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Why an innovation course

The purpose of the Innovation Course is to let students, young graduates and young professionals explore the potential use of their gained knowledge outside the CERN-context and to familiarize them with established innovation practices.

The aim is to inspire students/young professionals to think “outside the box” and teach them basic skills how to think like an innovator and an entrepreneur, thus offering them new skills and competences which they may find useful later on in their careers.

Program

- Discover how CERN KTT and IdeaSquare can support your innovation talent
- Learn about Design thinking, rapid prototyping and simple tools for moving from an idea to a prototype
- Learn about innovation and how find applications to the technologies you work with
- Develop an idea. Put yourself in the shoes of a future “start-up” leader/member.

The challenge

- 15 ideas will be presented today at 15:30
- 4 teams of 5 – 6 persons will work on 4 ideas each.
- The teams will have to use the concepts learned to re-evaluate the ideas and think if they present them back on Thursday on the second elevator pitch
- Each team will have the initiator of the ideas and will be after completed by the participants that would like to contribute

The teams

Group 1	Group 2	Group 3	Group 4
Jakub Aleksander Jaros	Julia Weronika Mirowska	Janne Holma	



Manuele Narduzzi, Oussama Id Bahmane, Paula Martinez Urios, Marta Alcaide Leon, Iordan Petrov Doytchinov, Alessio D'Andrea and Ernesto De Matteis will decide to which group they go so that there is no more than 4 ideas per group

Then the other participants will join the groups so that no group has less than 5 participants

The ideas

- Modular actuators system
- Wearable resistance trainer with embedded energy harvesting
- Skyscraper waterfall window washer
- Automated watering system for flowers
- Linear accelerator delivery system between hospitals
- Non-invasive glucose monitor
- Research box - we have the tools that will accelerate your research
- Automated food garden for everybody
- (ro)boat cleaning water from plastic waste.
- CERN mobility app
- Climate change - more data needed for climate models
- A new green disc brake system
- Self-rescue kit for a person in a skyscraper in fire
- Spy drone detector and deactivator
- Solving the problem of internal communication @cern
- Fault detection system applied to electric motors - based plants

Challenge re-evaluation

- At the end of the day the initiator of the challenge has to say if (s)he maintains the idea
- Tomorrow the exercise will be repeated. The ideas will be split so that every team is working in the remaining ideas. Every participant can change group but still the groups must have at least 5 participants
- Thursday at 12 we will have the second elevator pitch

Challenge selection

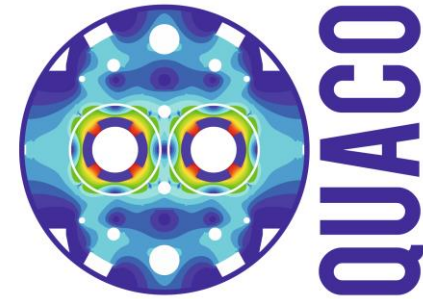
- After lunch the participants will have again the possibility to move group and the initiators the possibility to drop an idea.
- At 16h we will proceed to a vote. Every person will have 3 cards with 5, 3 and 1 points and the possibility to vote for only 3 ideas.
- The initiators of the 6 ideas with the highest ranking will have the opportunity to encourage the participants to vote for them

Challenge selection

- For the last round everyone will have to vote again but this time with 5 cards from 5 to 1 and must use at least the card “5”.
- The ideas will be now ranked by the number of points and by the number of 5s
- The 3 on the top will be the selected ones and the teams will have to be formed
- Every team must have 6 to 8 participants
- If two ideas from the same initiator are selected (s)he will have to find a leader for the other idea

Challenge selection

- The teams can meet when they want. The teams have a time slot booked for them in Ideasquare Wednesdays from 18h to 20h
<https://indico.cern.ch/event/671099/page/12400-team-workshops-and-presentation-of-results>
- We will look for experts that want to contribute to your project with their expertise
- On the 7th March there will be a “dress rehearsal”
- On the 21st there will be a public presentation and an award ceremony



Would we manage the challenge?

