CONNECTION LAB AND
INNOVATION KITCHEN

Challenge@PoliTo

Innovative Teaching Model

Politecnico di Torino

Technology Transfer System

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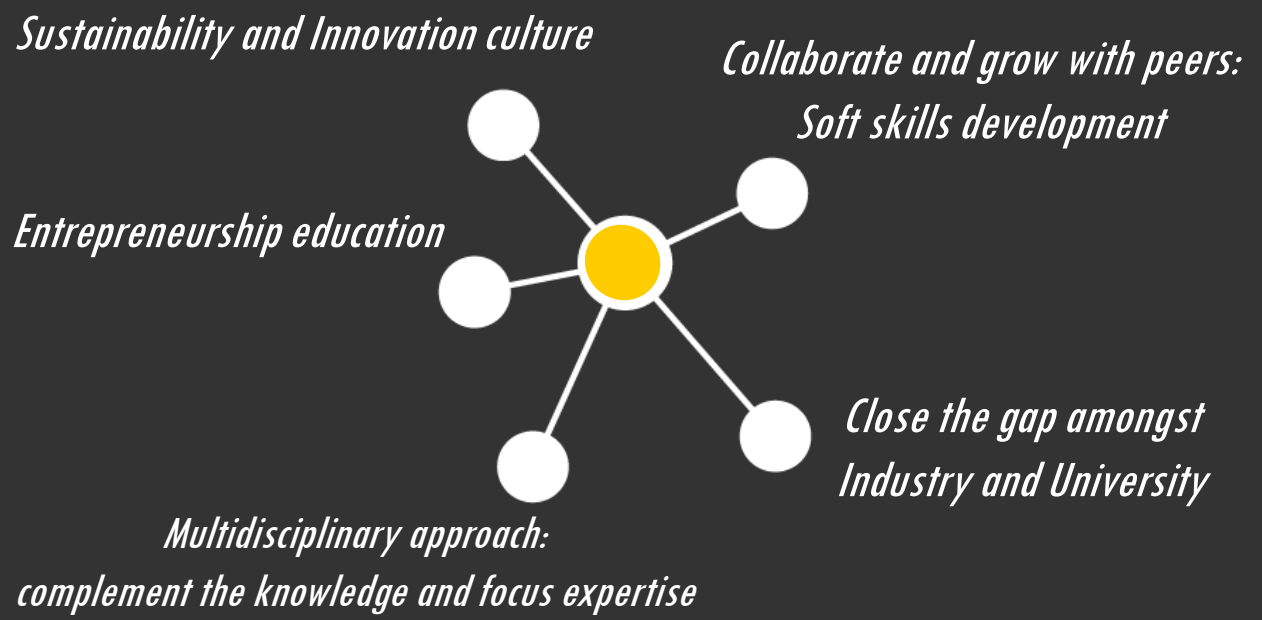
Connection Lab Innovation Kitchen

The Cross- Connection Model



A place where students can experience and put in practice knowledge learned in classroom
An informal environment which promote a creative and collaborative spirit to develop competences

Challenge@PoliTo: what is?

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Challenge@PoliTO is an innovative teaching activitiy carried out by 30 Master's Degree students to find the most innovative ideas.
They are divided into multidisciplinary teams with different backgrounds from all degree courses, looking for new solutions that solve the proposed challenges

Problem driven Challenge by Company partner

One vertical Problem → 5/6 different solutions

- Company Partner applies for the Challenge Call
- Comitato Lab TT selects five Challenges
- Students apply to partecipate

Challenge@PoliTo: Value Propositions

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Companies:

- Employer branding
- Scouting & Recruitment
- New idea generation
- Different points of view to solve the problem
- 1 challenge → 6 different solutions
- 30 master students involved on your challenge

Students:

- Work in multidisciplinary team
- Increasing of skills
- Learning by doing

For more information: clik@polito.it

Challenge @ PoliTo – Structure

Where: CLIK / online

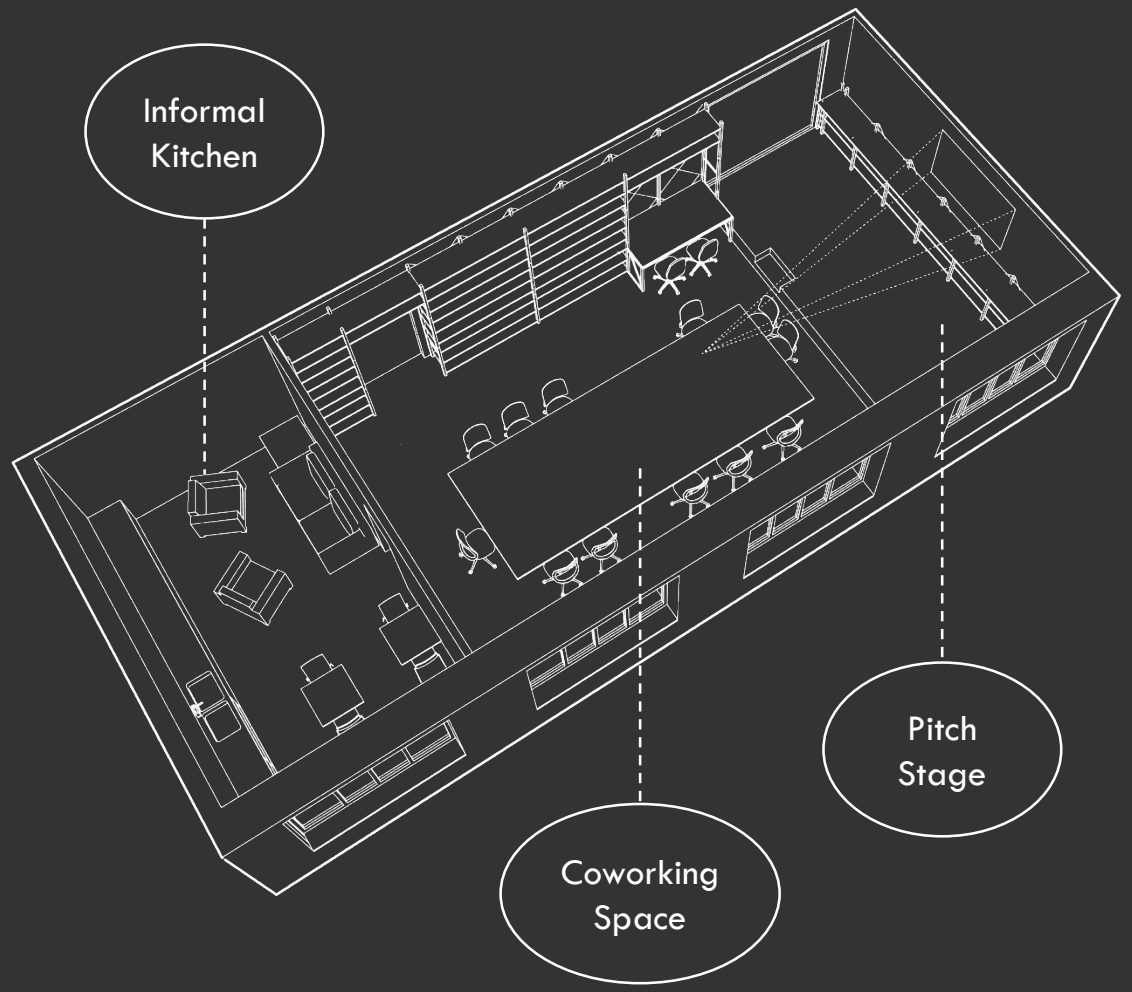
Duration: 14 weeks

Student Effort: 200 hours → 8 CFU

Student n°: max 30 (5 team of 6 people)

Actors Involved:

- Professors & Mentors
- CLIK Staff
- Company



Challenge_By Firms - Timeline

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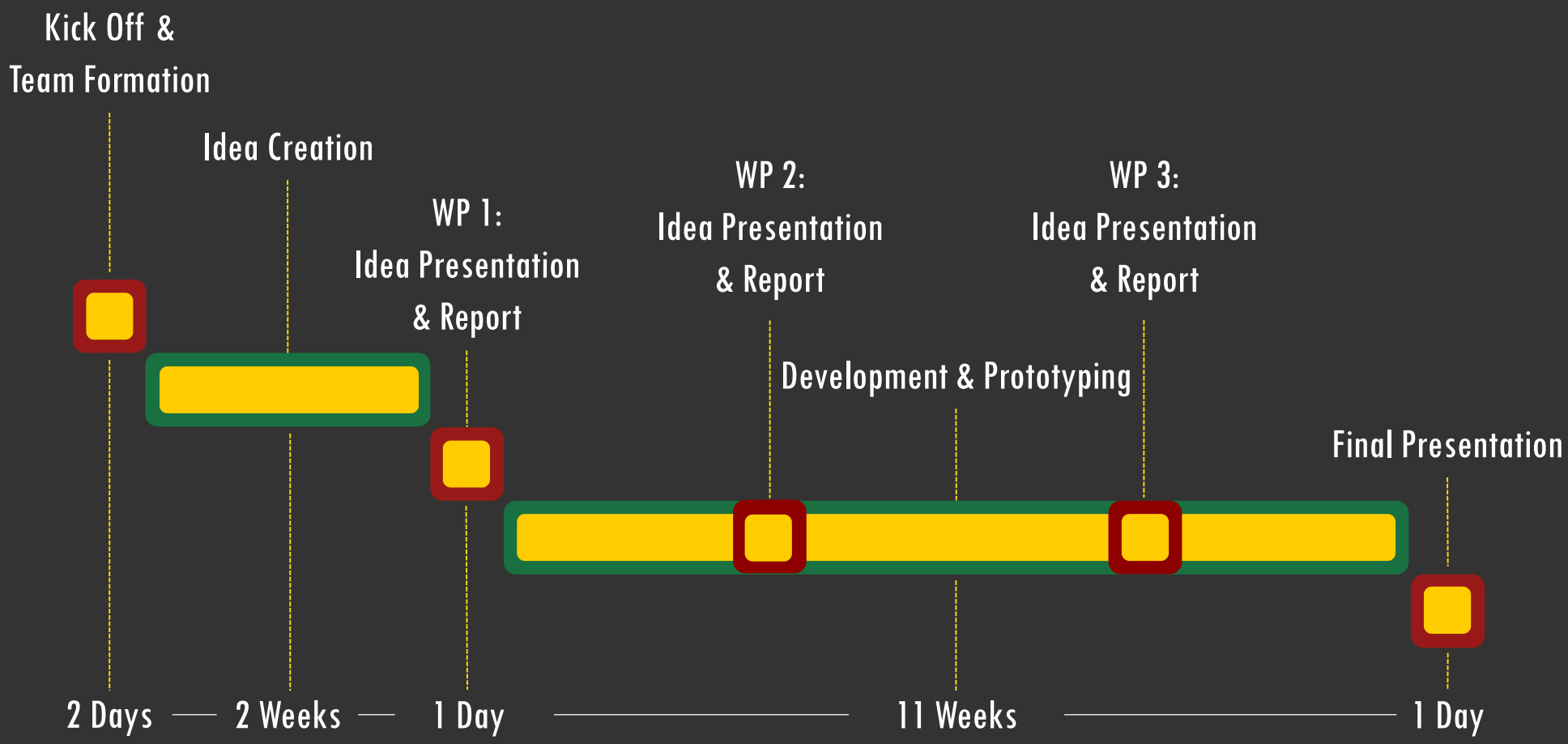

Company presence is expected during presentation days

Is up to the Company to decide the involvement during the development phase

Global Meeting

1. 1 Kick off
2. 1 monthly Work Progress
3. 8 Educat. Workshops
4. 1 Final Presentation

Student Constraints

1. 3 ppt Work Progress
2. 1 monthly report
3. 1 final Presentation
4. 1 final report

What's the effort?

Students: +6.000 h

During the 14 weeks, 30 students will work 200h each, supported by mentors selected appropriately for the Challenge

Mentor: +180 h

Lecturer: +50 h

Lecturer will overview all the work with monthly updates and overall supervision

Company: +30 h

In the 30 hours, besides presentation days, we consider an average effort of 3 hours a month. Is up to the Company to decide the amount of hours to spend in support of students based on goals and expected results

CHALLENGES ENDED 1/2

adidas	*Reverse Logistics* - reverse logistics from stores to Adidas
REGIONE PIEMONTE	*Ambiti di Integrazione Territoriale* - programmare risorse e pianificare territori
TOSA GROUP	*TheCutter* - design new machineries and processes
Terna	*Smart Tower* - new way to use the Terna's Smart Towers
FCA FIAT CHRYSLER AUTOMOBILES	*e-Mobility* - solutions to reduce "range anxiety" on electric vehicles
HITACHI Inspire the Next	*PeopleFlowing* - analysis and management of pedestrians in critical spaces
ROLD connected to innovation	*CLEAR* - separation of microplastics from water
ANCE TORINO COLLEGIO COSTRUTTORI EDILI	*PerformANCE* - real time monitoring of a construction site

For more information visit: https://clik.polito.it/

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CHALLENGES ENDED 2/2

evo	*A.I. 4 fashion trends* - solutions to predict successful fashion trends
FCA FIAT CHRYSLER AUTOMOBILES	*CASE (Connected Autonomous Shared Electric) NEXT GEN* - next gen car
Italian Cricket farm	*Crickets in the space* - food for space travel
Posteitaliane	*Smart Area 24h* - solutions to make Poste's services more smart
autostrade //Tech	*Green energy in motorway* - design an optimazed storage system
FERRERO	*Dress-up chocolate with care* - new packaging system
MARAZZATO SOLUZIONI PER IL PIANETA, DAL 1952.	*Treasure Track* - multi Functional Area Development
Sabelt	*Seat as a suit* - design the new innovative seat

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CHALLENGES IN PROGRESS

EGEA – LA CASA DELLE BUONE ENERGIE	*Energy for homes, a home for energy* - conceive the new headquarters
HITACHI Inspire the Next	*KPIs for Green Mobility Services* - sustainable services for mobility
SARGOMMA DIAMO FORMA AI TUOI PROGETTI	*S.E.L.F. TOOL* - new approaches to the lunchbreak
SEA&SYMPHONY S.r.l. moves your wishes – Certificata ISO 9001 dal 2015	*Save Our products: Ship with care* - a new system for packaging
Djungle Studio	*Students from the future* - map the education system and rethink it

For more information visit: https://clik.polito.it/

PEOPLE INVOLVED

550 Students, 115 Teams, 30 Master's degree courses

30 Lecturers, 120 Mentors

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Informal space

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Challenge Insight

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Team Building

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Covid mode

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Prototyping

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Pitching

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Workshops

Cross-functional Workshop program – Challenge@PoliTo

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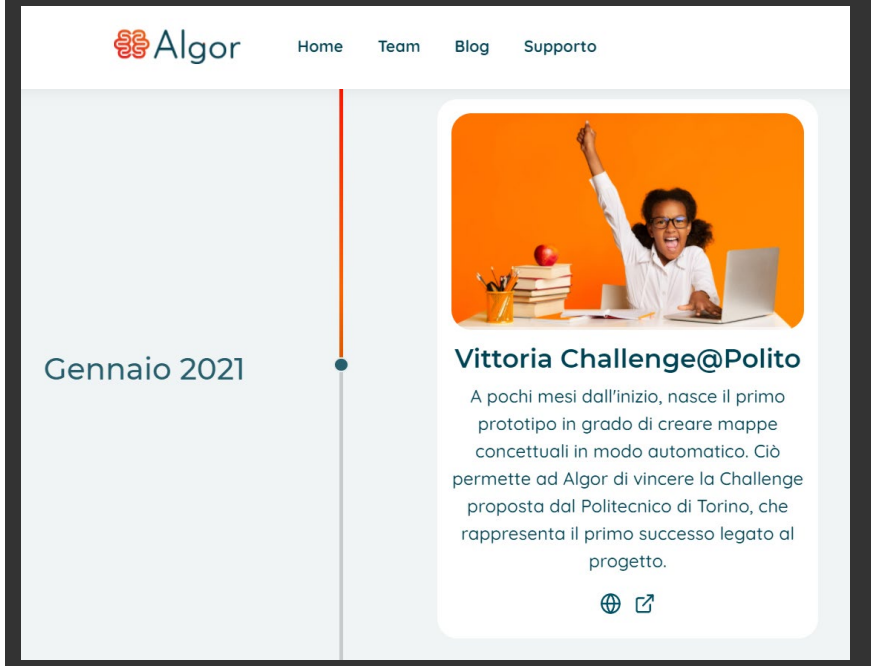
1. Team Building: work sharing and Team construction
   Learning objective: Development of cohesive, multidisciplinary and strong Team
2. Design processes and concept generation
   Learning objective: Knowing and knowing how to apply different process development methodologies
3. Project Management
   Learning objective: Project management tools and how to use them
4. Value Proposition and Value creation: What are they?
   Learning objective: Creation and development of an useful and valuable project
5. IP and Prior Art
   Learning objective: Knowing the different types of IP and to be able to develop a prior art research
6. Communication & Pitch
   Learning objective: To be able to present himself/herself and the team's idea in effectively and appealingly way
7. Social Impact
   Learning objective: Quantification of macro and micro impacts of the different business strategies on world and how to mitigate them

Outcome

Prototyping



Startup foundation

Social Media Traffic

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Feedbacks from students on Challenge@PoliTo

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1. *It is one of the **best experience at Politecnico**!*
2. *Good for **networking**;*
3. *I think that is a great opportunity to **grow as a person and as a team member**, an opportunity to **learn by doing and to face the real word outside university**;*
4. *It has been a stimulating experience that taught me a lot of skills that are going to enrich my experience and provide me tools to better **approach the "work world"**;*
5. *I think these experiences are the **best connections** the university can build **between students and working/entrepreneurial world**, **not comparable with exams**;*
6. *Yes because it's a **value added to the theoretical exams** that everyone does at university;*
7. *It is a perfect place to **sharpen personal and professional skills**;*
8. *It is the best way to practice with different technologies, **to learn all the different aspects of a project, from the theory behind to the business plan**;*
9. *The Challenge@PoliTo gives the possibility to understand **how to work in a team with different backgrounds**, **how to manage the time to achieve the deadlines** and the importance of the communication between the team members and the mentors. **It makes you understand that if you have an idea you can implement it from zero and do it**.*

Challenge Prices

Prices and conditions will be agreed based on

Company dimension

(Revenues and n° of Employees)

Intellectual Property

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*1. **Moral rights** always belong to the inventor (students)*

*2. **Economic rights** always belong to Politecnico*

Assignment to companies through

Spin-Off (licensing)

TBD

Buying results

Starting from 5.000 €

Thanks!

Take a look at clik.polito.it