

CBI-FP

Challenge Based Innovation Fusion
Point

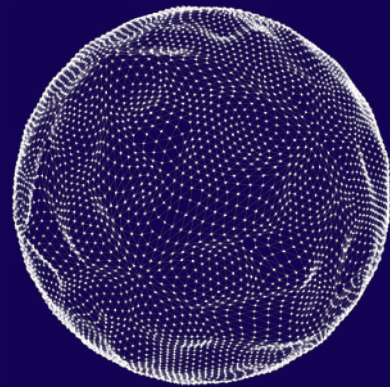
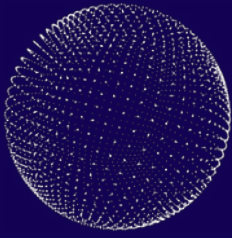
PUBLIC SUMMARY

CBI Fusion Point (CBI-FP) is a unique iteration of the challenge-based innovation program that originated and is grounded at CERN with the explicit goal to link its research, technologies, methodologies and expertise with real-life societal challenges. It has been delivered annually in the fall since 2014, when Esade, UPC and IED Barcelona came together for the first time to deliver a multidisciplinary challenge-driven program.

Since 2017, the challenges tackled by the students have been explicitly linked with the SDGs and this will continue during the 2022 and 2023 editions of CBI-FP that will focus on the ATTRACT-related funded technologies. CBI-FP draws its methodology from design thinking, challenge-driven education, and experiential learning, bringing together interdisciplinary student teams from the three Fusion Point partner schools.

This program has several distinct characteristics that contribute to the design and delivery of proof of concept and functional prototypes that innovatively apply advanced technologies for societal impact. For example, learning happens through teamwork in heterogeneous groups of students, faculty, industry partners, target users etc., forming a large community of co-learners in the process of addressing a challenge. CBI-FP does not follow a linear learning process. Student teams follow a human-centric design that is based on iterative knowledge creation.

The outcome is not definable at the outset, but emerges during a journey that is iterative, exploratory and experimental. Over a period of 15 weeks, the students meet on a weekly basis to have workshops, seminars and coaching sessions. Each team is assigned to 3 coaches, one from each school. The students travel together to CERN 3 times during the course for a total of 15 days. CBI-FP has been featured in prominent magazines and newspapers like The Financial Times, The Times of India, La Vanguardia, and El Pais.



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