

Summary of projects from shortlisted EuroTeQ Collider teams at HEC participating at the EuroTeQathon.

Challenge- Make concrete Greyn again !

Team name - Greyn

Challenge Collaborator- Students project

Summary of the project-

7% of concrete produced worldwide is wasted. This is due to poor concrete rheology (consistency), resulting in disordered setting. Greyn is a solution designed to monitor and manage the concrete delivery cycle using AI and data analysis, from its production in the concrete plant to the construction site where it is poured. To do this, we combine on-board hardware in the mixer truck with a machine-learning algorithm to detect consistency problems, optimize formulas and avoid any kind of waste. Thanks to our solution, workers can save money and prevent concrete from being downgraded. Most importantly, Greyn preserves resources: it avoids the unauthorized addition of water to concrete (done to extend the material's life) and, above all, prevents the release of thousands of tons of CO2 into the environment.

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