

## X-Labs 2024 | Concept note

The X-Labs of the Luiss Master's degree course in Law, Digital Innovation and Sustainability (LDIS) will be tested for the first time in 2021, in 2022, and again in 2023, including students and professors from Luiss and the Engage.eu partnership, as well as representatives of national and international bodies. The next cycle, to be held in 2024, will be developed in 12 weeks of hybrid sessions (remote and in-presence) scheduled from February to the last week of April, and in a final pitching session, in the presence of partners, institutions and stakeholders.

The course is developed around the principles of enquiry-based education, supporting students to work with teachers and researchers, public institutions, companies and exposing them to the challenges and dynamics of contemporary work environments, transforming the 'training on the job' model into the 'job on the training' model.

Participants work in teams in collaboration with mentors - representatives of the institutions involved - to create solutions to a set of challenges. The teams consist of 7-9 participants and the activities, to be carried out simultaneously, have a very high intensity: students and mentors explore future scenarios, plan transformative visions, collect data, conduct in-depth research, conduct interviews, gather feedback to co-design and refine projects / services / new business models. In dialogue with the entire Luiss and Engage.eu ecosystem, they complete assigned tasks, completing the activities set during the sessions. At the end of the course, they present their solution to a selected panel of experts, which can find further development as a pilot project in the company or as a startup development project for further implementation support.

For 2024, the challenges of X-Labs will be grouped into three labs and each of them will be divided into two communicating and mutually inspiring sub-categories. The aim is to develop horizontal and systemic solutions based on a multi-actor approach and cross-sectoral innovation:

Future of Cities/Regions & Mobility/Transportation  
Future of Energy, Telcos, Infrastructure & Industry/Manufacturing  
Future of Earth & Wellbeing

The students will collaborate with mentors experts in the field of each laboratory such as Andrea Buonomini (Ratpdev Italia), Mauro Annunziato (former ENEA), Nicola Angelo Marotta (Technip), Enrico Foglia (BIP), Paola Mercogliano (CMCC Foundation) and Marijana Krstic (Labgov).

Each X-Lab will have about 16 students divided into two sub-groups who will have to develop a solution to one challenge each (e.g. one challenge on Cities and one on Transport).

The total working hours for the students will be 30 (15 for each mentor, and facilitated by the Luiss team, composed of a tutor, the LDIS degree programme manager, research fellows and PhD students).

The X-Labs will end with the presentation of the 6 projects developed during the course by the participants. The most promising projects will have the chance to win three prizes offered by our partners and the Casa delle Tecnologie Emergenti (CTE) of Rome.

X-Labs are based on an open, ethical and collaborative methodology, continuously tested through various artefacts, including legal hacks: solutions based on a deep understanding of the legal framework governing innovation and supported by data, and on identifying the best way to facilitate adoption. In 2022, X-Labs students were able to accelerate the adoption of unmanned drones for civil use, develop blockchain-based certification tools for water policy compliance, design fintech tools for investing in neighbourhood economies, and much more.

In addition to LDIS students, Luiss Guido Carli is happy to accept applications from students of any Engage.eu partner university with a background in legal and/or business studies, in accordance with the Engage.Eu alliance. Students selected by the Casa delle Tecnologie Emergenti di Roma (CTE) through the CTE 360 project will also be able to participate in the X-Labs.

What will you build this year?

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## X-Labs (LDIS)

### Activities Calendar

Thursday 08/02	10:00-13:00	Challenges launch & Problem statement
Thursday 22/02	10:00-13:15	Scenario building & Data mining
Thursday 07/03	10:00-13:15	First prototype building
Thursday 21/03	10:00-13:30	Crash test
Thursday 04/04	10:00-13:15	Prototype reassembling
Thursday 18/04	10:00-13:15	Modeling
Thursday 02/05	10:00-13:15	Preparation for the pitching day
Thursday 09/05	All day	PoCs pitching (External jury and matchmaking session)