Mitigating environmental disruptive events using people-centric predictive digital technologies to improve disaster and climate resilience

The EU-funded project Minority Report kicked off in June 2024 with a hybrid meeting in Athens, Greece. The project has received funding from the European Union's Horizon Innovation Actions under Grant Agreement No. 101147385 and will last for 42 months.

Minority Report will develop and implement a co-creation framework, which will support the design and development of an integrated, people-centric technology platform, integrating:
- Innovative predictive digital technologies,
- Rigorous scientific baselines and models for risk (including vulnerability and uncertainty) assessment and categorization,
- Advanced weather forecasting and early warning for climate events,
- Building information modelling (bim), digital twins (dts), monitoring systems, and decision support tools,
- Energy simulations and behavioral models based on artificial intelligence (ai), and
- Newly developed approaches from social sciences and humanities (ssh).

The final objective is to deliver the Minority Report people-centric technology platform for a functional, environmentally, and economically sustainable circular value chain for the construction and renovation of built environments, enabling to development of dedicated strategies to improve climate change mitigation and adaptation (heat waves, category 5 storms, wildfire) and disaster resilience (floods, earthquakes, etc.), through AI-assisted holistic solutions, that combine building adaptation and renovation and Nature-based Solutions (NBS), at city and building scale.

Minority Report will apply its universal co-creation framework across three demo sites representing three distinct climatic areas, situated in the EU and the Indo-Pacific (Dublin IE, Patras GR, Wellington NZ). These demo sites share both common and local environmental and societal challenges, which enriches the project's scope and scalability.

The consortium consists of 16 partners located across Europe and New Zealand and is coordinated by IESRD. All partners involved in the consortium will provide selective and complementary skills, which are crucial to ensure the Project's sustainability and applicability from a technical and rational perspective.