



Horizon Europe: "Minority Report"

A first Horizon Europe ⇔ New Zealand project Cluster 5: Climate, Energy and Mobility – **process & collaborations**







What we will cover

• "Minority Report" project overview

- Applying:
 - Finding the right call and partners
 - Planning, and applying
 - From reserve to awarded funding
- Delivering
 - Kick off meeting
 - Delivery schedule
 - Completion
- The Future
 - Collaborations?
 - Lessons and tips

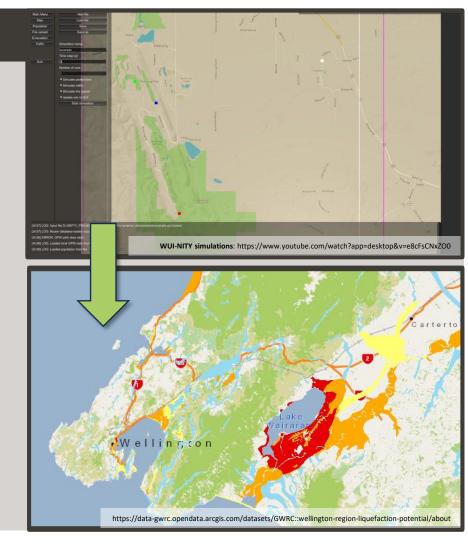


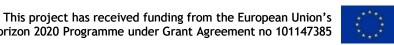


"Minority Report" project overview

Evaluate future climate-related 'disaster' events

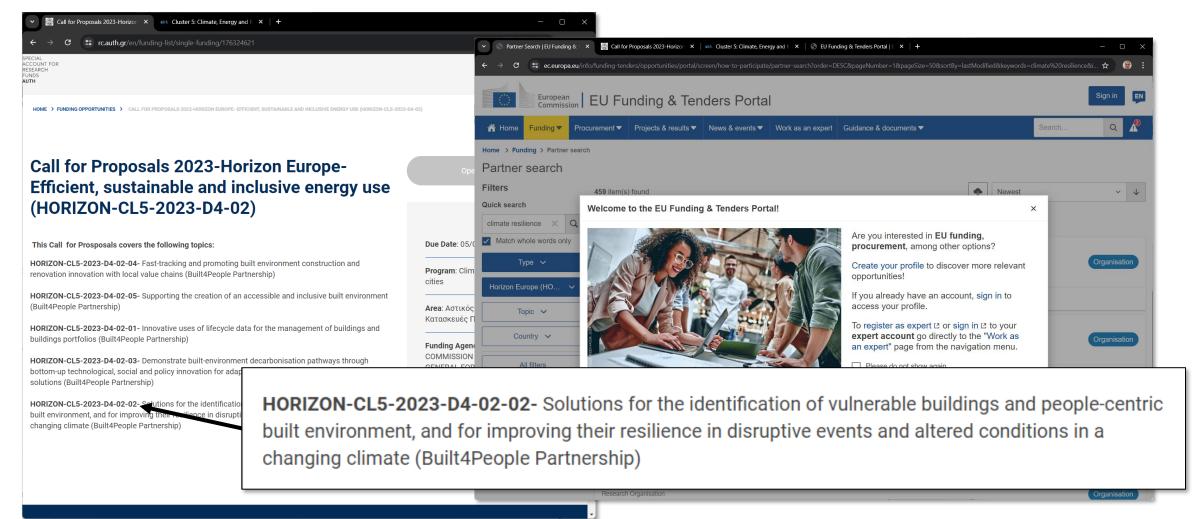
- Use future weather predictions
- **Simulate impact:**
 - Storms, flooding, wildfires
 - Population evacuations
 - Visualise through fragility curves & risk maps
- **Plan adaptation strategies** to mitigate effects
 - Adaptation to future climates
 - Build up risk-maps to inform decision-makers
- Work with local councils in 3 test sites
 - Dublin, Ireland
 - Patras, Greece
 - Wellington, New Zealand
- Share outcomes
 - Workshops, publications, planning







Finding the right call... and partners





Finding the right call...& partners

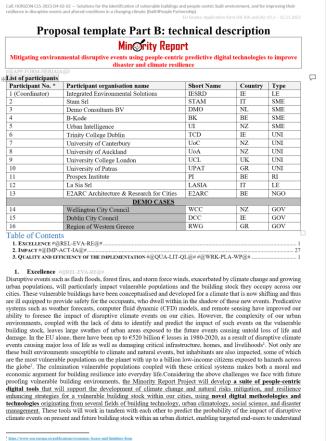




Planning, and applying

→ Long forms, takes months to collaborate and develop plan







Highly ranked, but...

At first declined, and "on the reserve list" ... then later Awarded



Evaluation Summary Report

Evaluation Result

Total score: 14.00 (Threshold: 10)

Criterion 1 - Excellence

Score: 5.00 (Threshold: 3 / 5.00, Weight: -)

The following aspects will be taken into account, to the extent that the proposed work corresponds to the description in the work programme:

- Clarity and pertinence of the project's objectives, and the extent to which the proposed work is ambitious and goes beyond the state of the art.

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 Soundness of the proposed methodology, including the underlying concepts, models, assumptions, inter-disciplinary approaches, appropriate consideration of the gender dimension in research and innovation content, and the quality of open science practices, including sharing and management of research outputs and engagement of citizens, civil society and end users where appropriate.

Overall, the proposal successfully addresses all relevant aspects of the criterion. In particular:

• The objectives are clear and pertinent to the call topic. The proposal aims at tackling the major challenges hindering the take-up of digital technologies within the - The objectives are tied and pertinent to the call topic. The proposal aims at making the major challenges nindering the take-up of aignal technologies within the EU construction and renovation industry, through delivering an innovative people-centric technology platform and a Decision Support System (DSS) that acts as a driver for renovation activities.



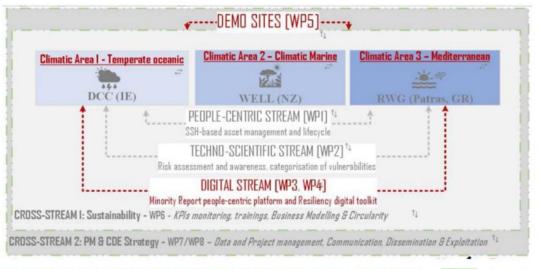


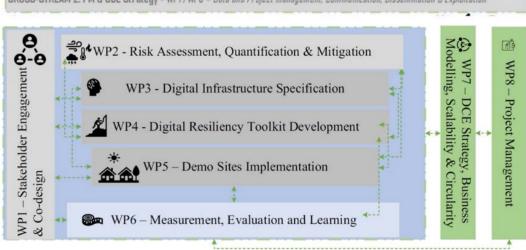


Delivering

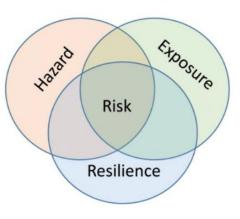
Work Package Outline

- People Centric Stream
- Techno-Scientific Stream
- Digital Stream
- DCE Stream
- Management Stream





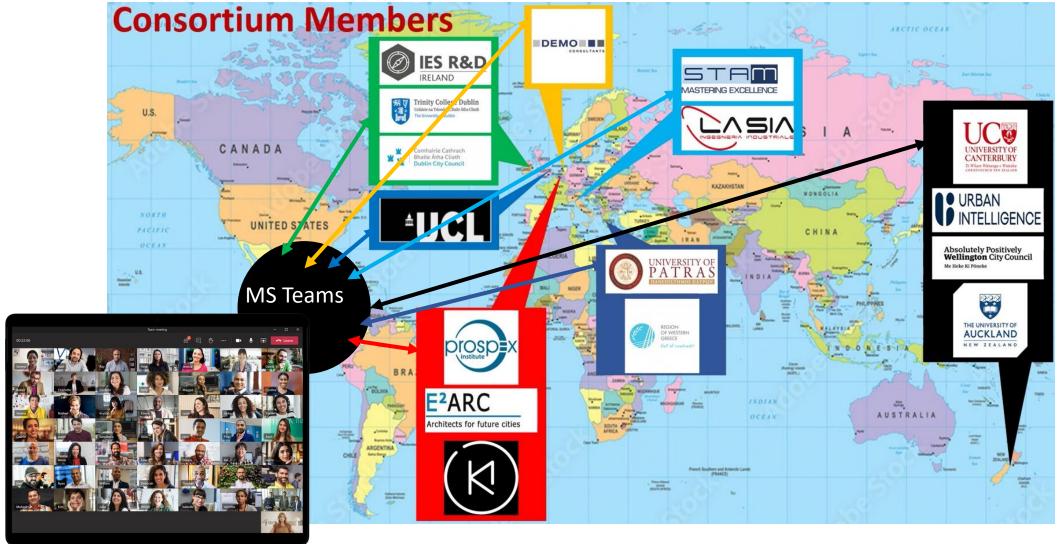
Resilience analysis





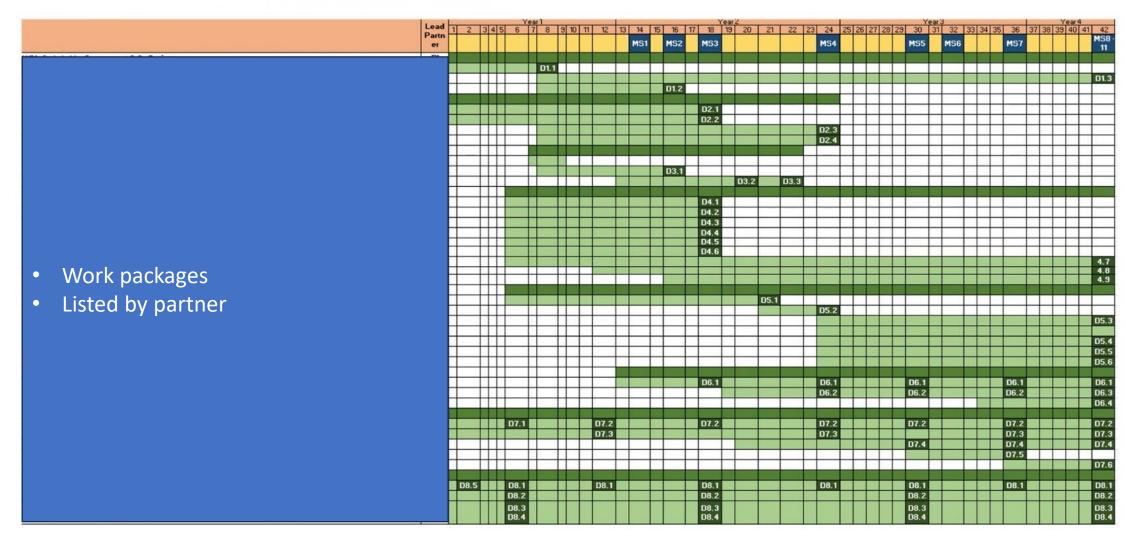


Kick-off meeting: 3 days, 3 hour sessions





Delivery schedule: 3½ years





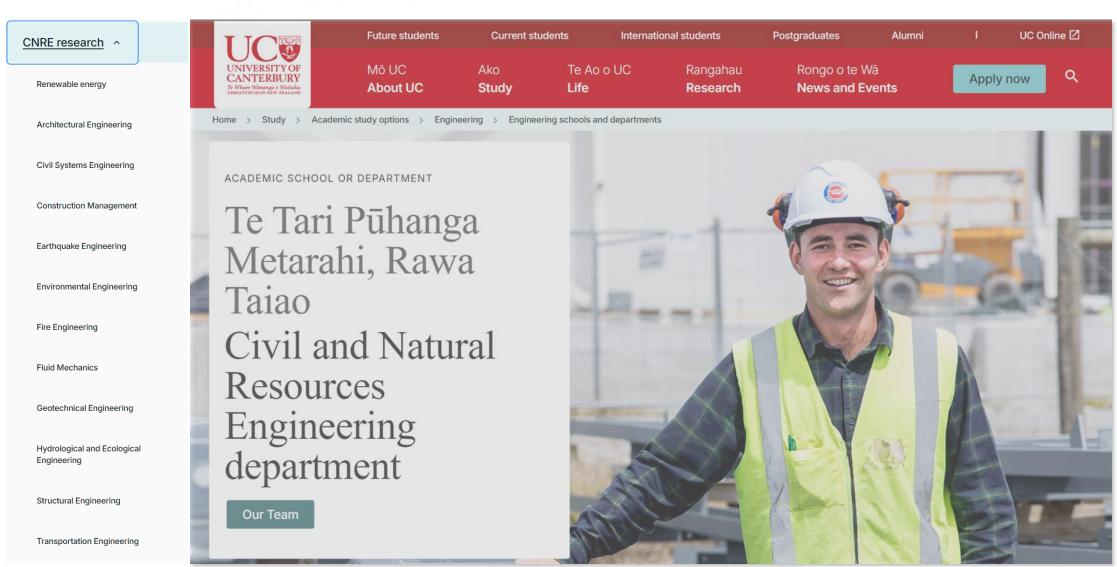
Completion

KEY DELIVERABLES

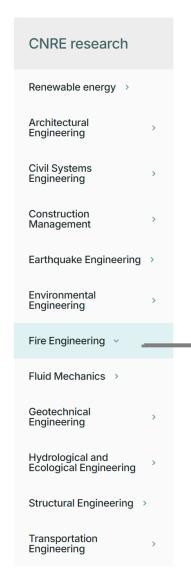
- D8.1: Progress Reports (Financial & Technical) (Every 6 months from M6)
- D8.2: Risk Mitigation Strategy (Annually from M6)
- D8.3: Data Management Plan (Annually from M6)
- D8.4: Knowledge & IPR Management (Annually from M6)
- D8.5: Project Management Plan (M2)











Fire Engineering group

Fire Engineering is the art and science of designing buildings and facilities for life safety and property protection in the event of an unwanted fire. Learn more.

Cluster 5 areas of interest:

- Wildfire simulations
 - Impact to infrastructure and people
 - Adaptation to climate change
- Evacuations
 - Pedestrians
 - Traffic
 - Safety

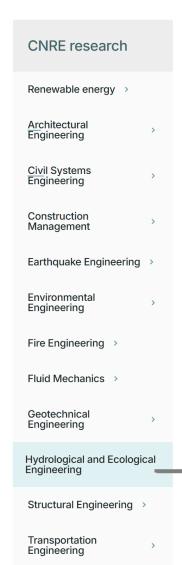
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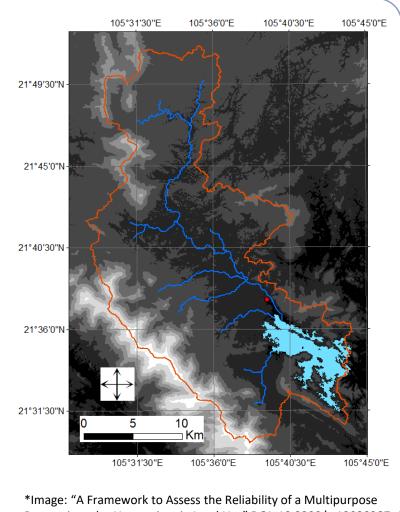




Hydrological engineering

Cluster 5 areas of interest:

- Hydrological analyses, management (across rural and urban spectrum)
 - Floods
 - **Droughts**
 - Water quality
- Developing modelling tools
 - Develop and test mitigation and adaptation strategies
 - Co-benefits (ecosystem services)



Reservoir under Uncertainty in Land Use" DOI: 10.3390/w13030287

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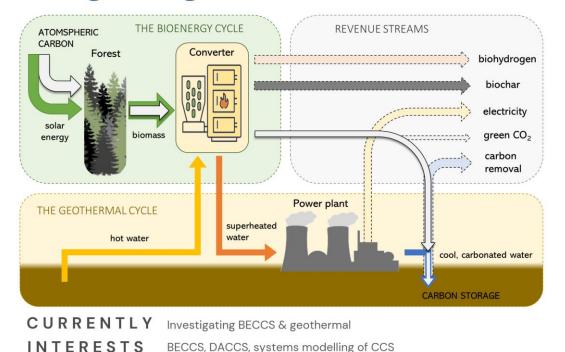
CNRE research Renewable energy Architectural Engineering Civil Systems Engineering Construction Management Earthquake Engineering > Environmental Engineering Fire Engineering Fluid Mechanics Geotechnical Engineering Hydrological and Ecological Engineering Structural Engineering >

Transportation

Engineering

Sustainable energy research group

Carbon-negative geothermal with BECCS



Energy Systems Modelling



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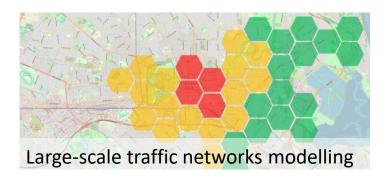
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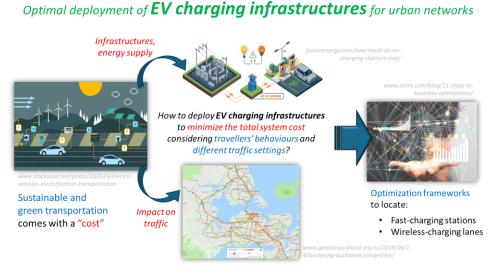
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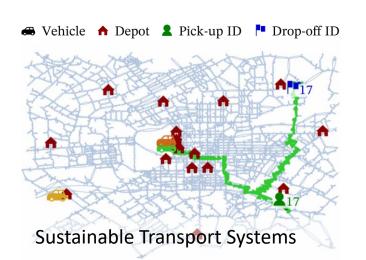
Complex Transport Systems Laboratory (CTSLAB)



Research interests:

- Green On-demand Systems
- EVs and Charging Stations
- Traffic Modelling and Control
- Data-fusion and AI-based predictions





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CTSLAB

Transportation

Engineering



The future: lessons and tips

- 1. Find the right call for you, carefully
 - https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/cluster-5-climate-energy-and-mobility en
- 2. Use the portal ⇒ "check the €s per call" & the competitiveness
- 3. Use existing **connections** and the partner-search
- 4. Find a very experienced EU project lead
- 5. Expand the team to **meet all the needs** (8 15) partners)
- Budget carefully (and early)
- 7. Clarify societal benefit & highlight high areas of research impact
- 8. It's very competitive ⇒ "tick every box"

