

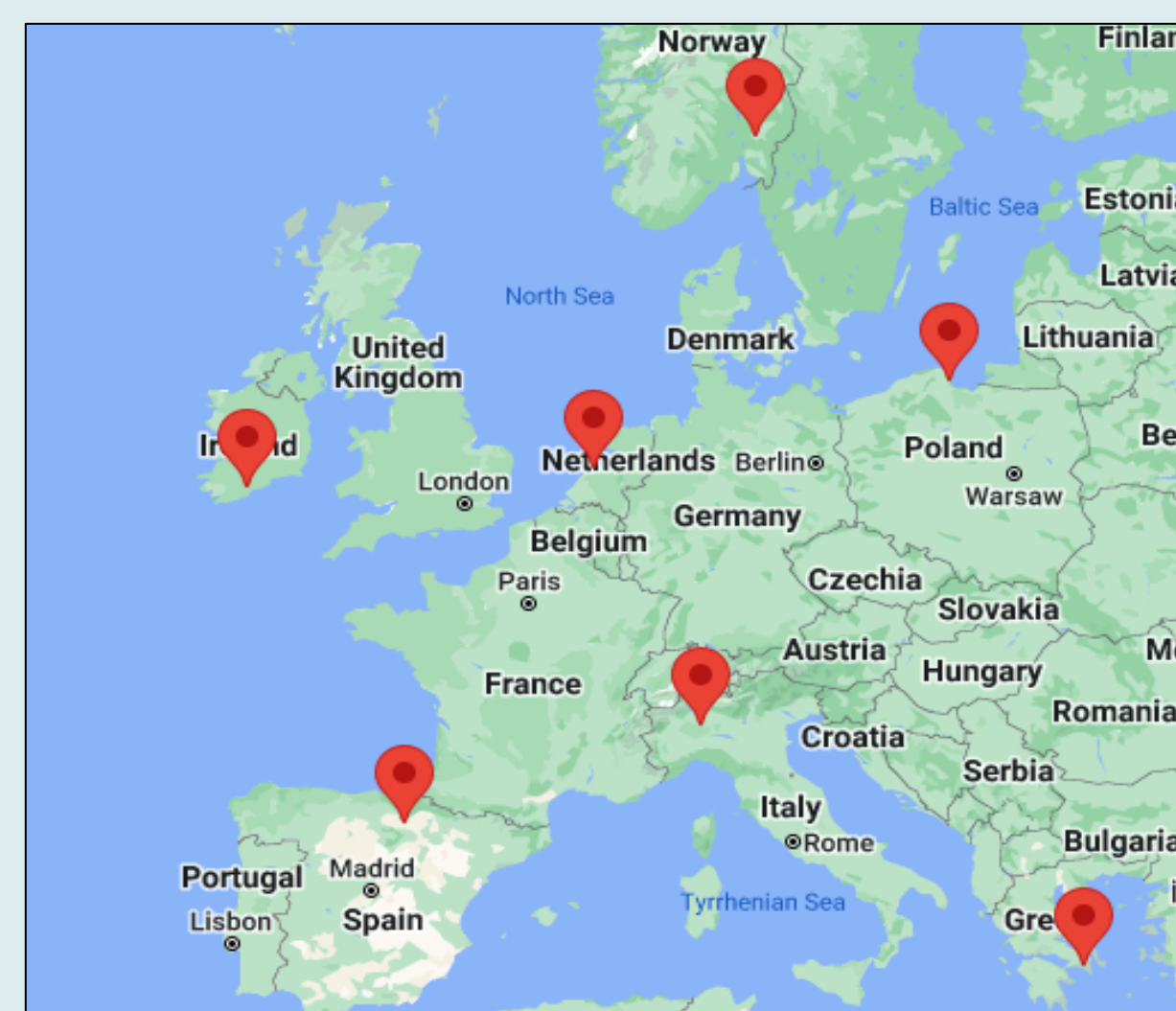
## CONTEXT



- ❖ Cities face a range of climatic hazards, that are currently impacting them, something that will continue to worsen in the future.
- ❖ Adaptation action is often an intrinsically local issue, impacting stakeholders in different ways, and must have local support for it to be successful.
- ❖ Climate service tools provide a way to communicate knowledge from scientific research to users, supporting action that fits the needs of local citizens.
- ❖ The REACHOUT project aims to bridge the last step in climate service delivery, making tools accessible and user friendly.

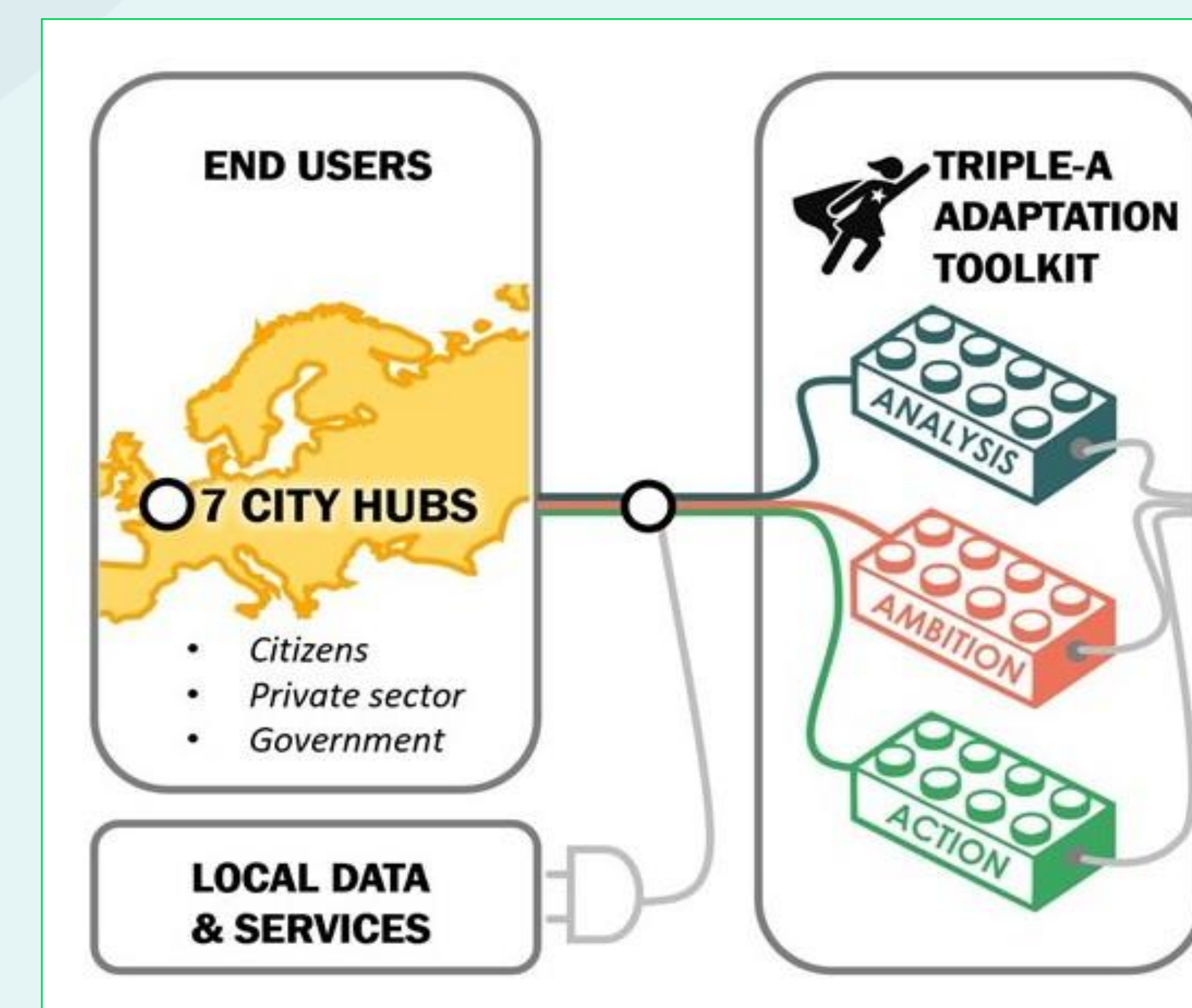


- ❖ Cork is one of 7 city hubs across the EU that is involved in the REACHOUT project



- ❖ These tools are being trialed and validated through stakeholder engagement with feedback allowing for further development

## METHODS



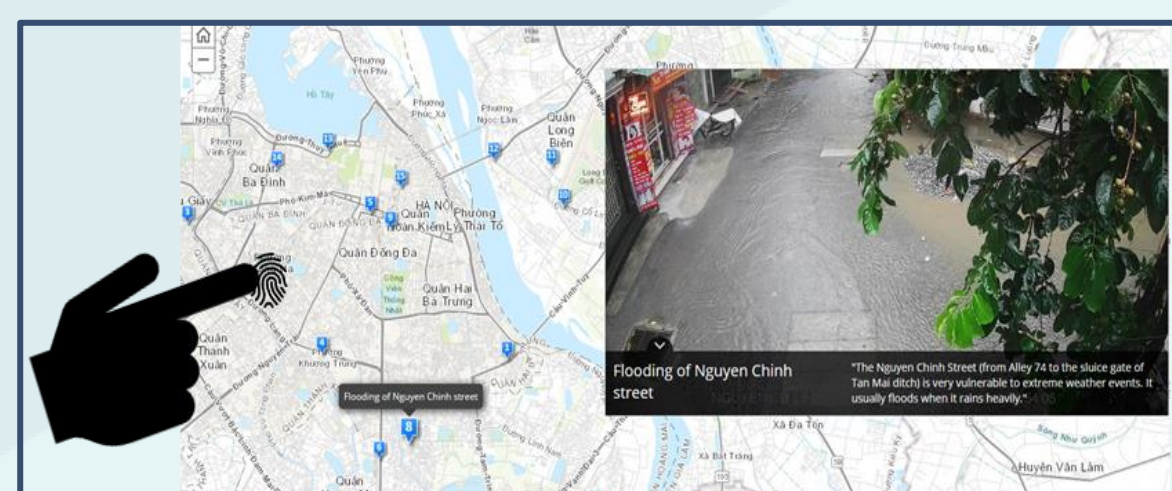
- ❖ The city hubs will co-develop and trial a suite of climate services tools with a range of stakeholders.
- ❖ Tools are tailored to each city's needs.
- ❖ Cork city have worked with European partners to select and fine tune a range of climate tools aimed at supporting local authorities, civil society actors and citizens. These include:
  - Crowdsourcing Tool
  - FloodAdapt Tool
  - Adaptation Pathways Generator Tool
  - Social Vulnerability Index

# Engagement and collaboration between stakeholders enables successful climate action

## RESULTS TO DATE

### CROWDSOURCING TOOL

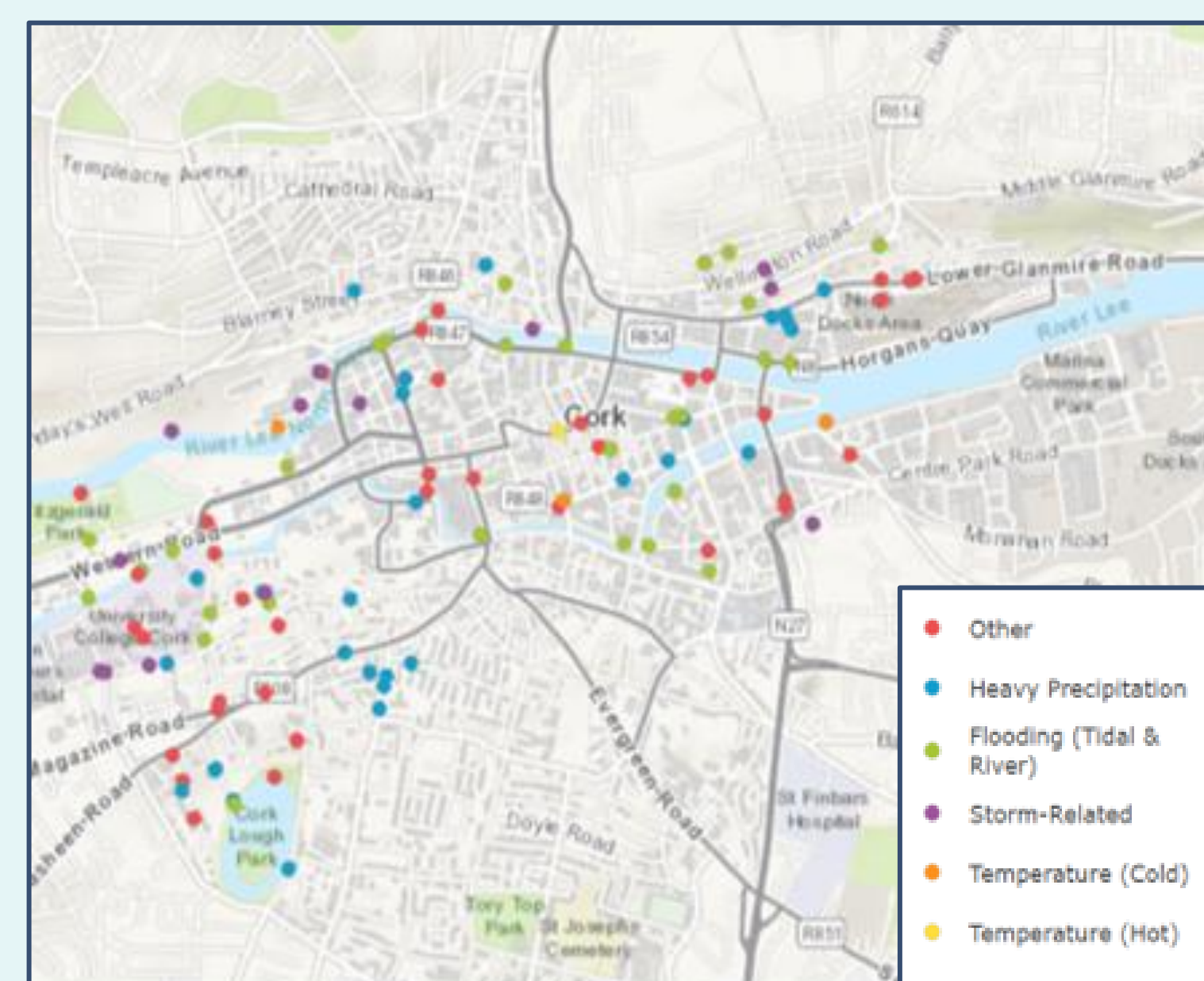
- ❖ Using a phone, users upload information on parts of the city that may be vulnerable to different climate hazards in real time.



### TRIAL & TESTING



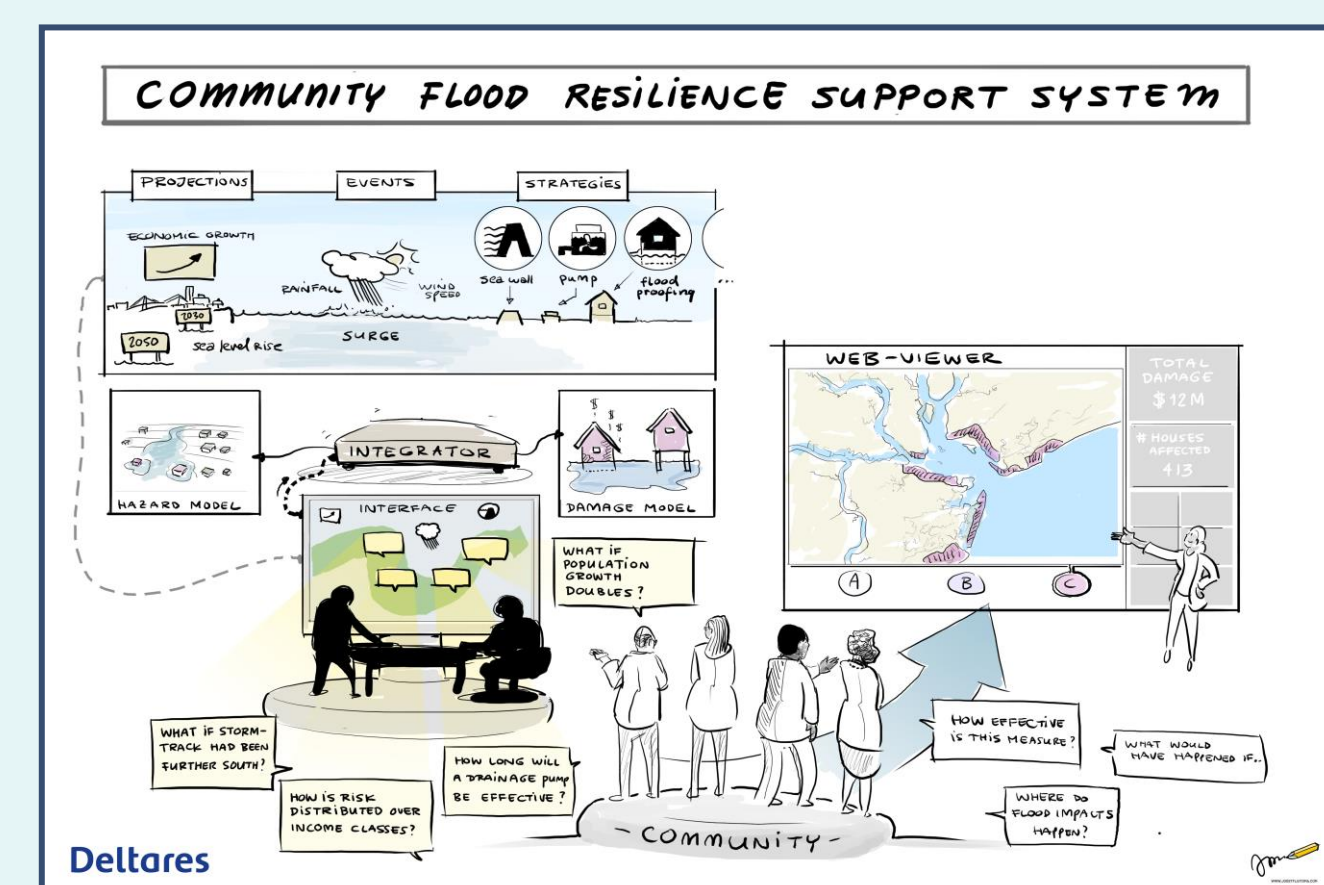
- ❖ The results of this are being analysed by UCC and the City Council and will be used to inform decision-making.



- ❖ UCC Geography students have tested the beta version of the crowd sourcing tool

### FLOODADAPT TOOL

- ❖ A decision-support tool for flood risk
- ❖ Accounts for various hazards that compound together to increase flood risk
- ❖ Calculate damage to infrastructure.
- ❖ Models the impact of flood interventions



### DEVELOPMENT

- ❖ Deltares and Cork City Council have worked together to create a first version of both the hazard and damage models for the city

### ADAPTATION PATHWAYS TOOL

- ❖ Allows users to explore a range of adaptation options and potential pathways through time.



### WORKSHOP

- ❖ To engage with stakeholders on the pathways tool, Cork City Council, with UCC and Deltares, hosted a public workshop in 2022, highlighting the work of the REACHOUT project and seeking robust feedback.

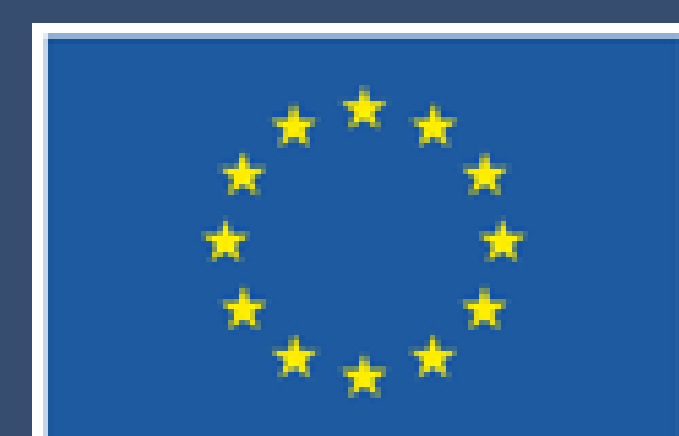
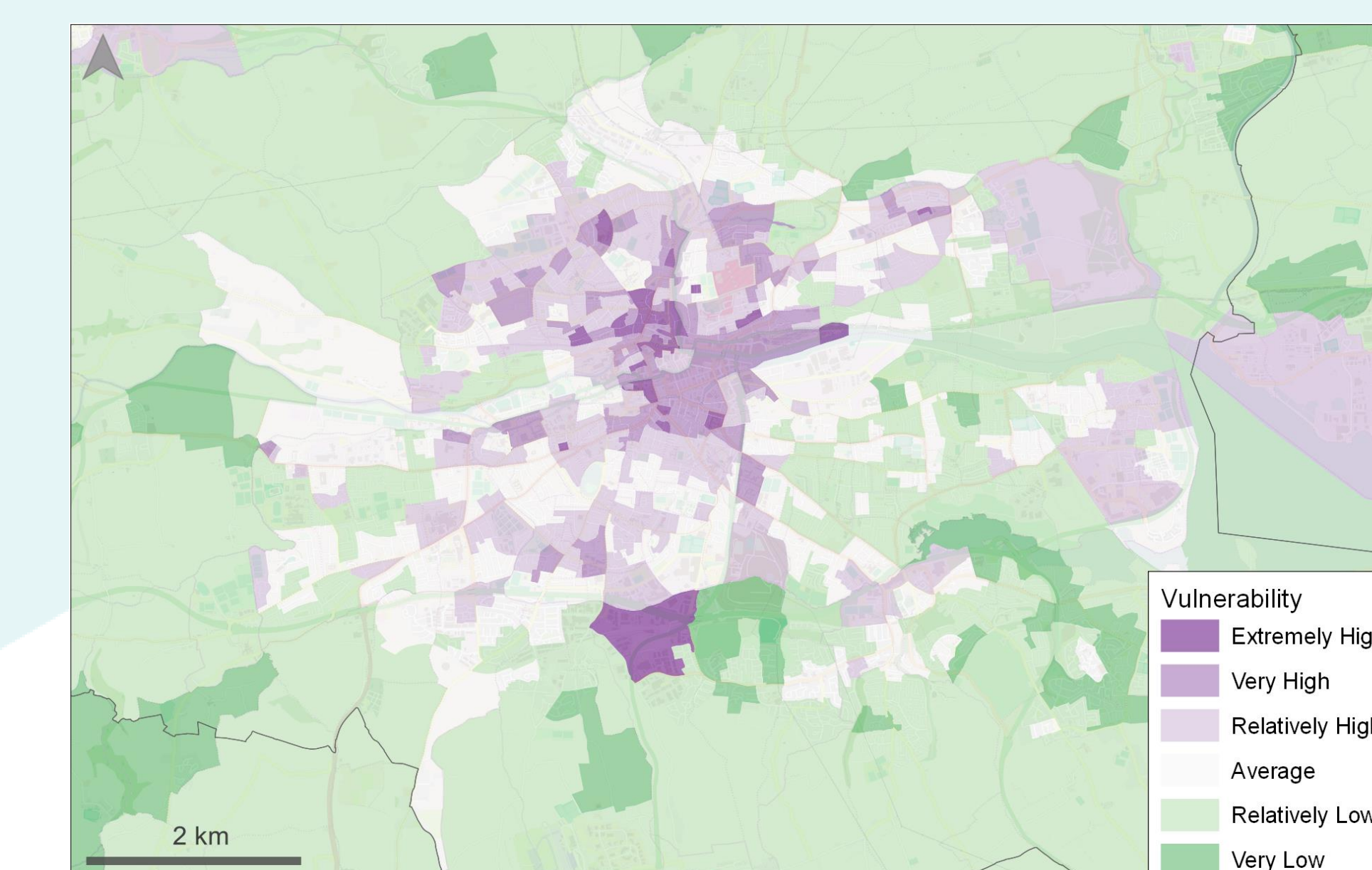


### SOCIAL VULNERABILITY INDEX

- ❖ Compiled from a collection of 25–30 socio-economic and environmental variables, including a population's sensitivity and exposure to climate change and their adaptive capacity (the ability to prepare, respond and recover from climate impacts).
- ❖ Allows decision-makers to compare risks and prioritise solutions to ensure that the vulnerable are not further disadvantaged by climate impacts or adaptation measures.

### MAPPING

- ❖ A map showing the vulnerability of Cork City to a range of environmental hazards.
- ❖ UCC are working with the city council to map vulnerability to specific hazards, such as flooding and heat stress, in the city.
- ❖ These are the primary hazards Cork city faces due to its low-lying location and the urban heat island effect that impacts cities.



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 101036599.

