



The CoCliCo platform: A Climate Service to Support Coastal Adaptation to Sea-Level Rise

4th International Workshop on Waves, Storm Surges and Coastal Hazards

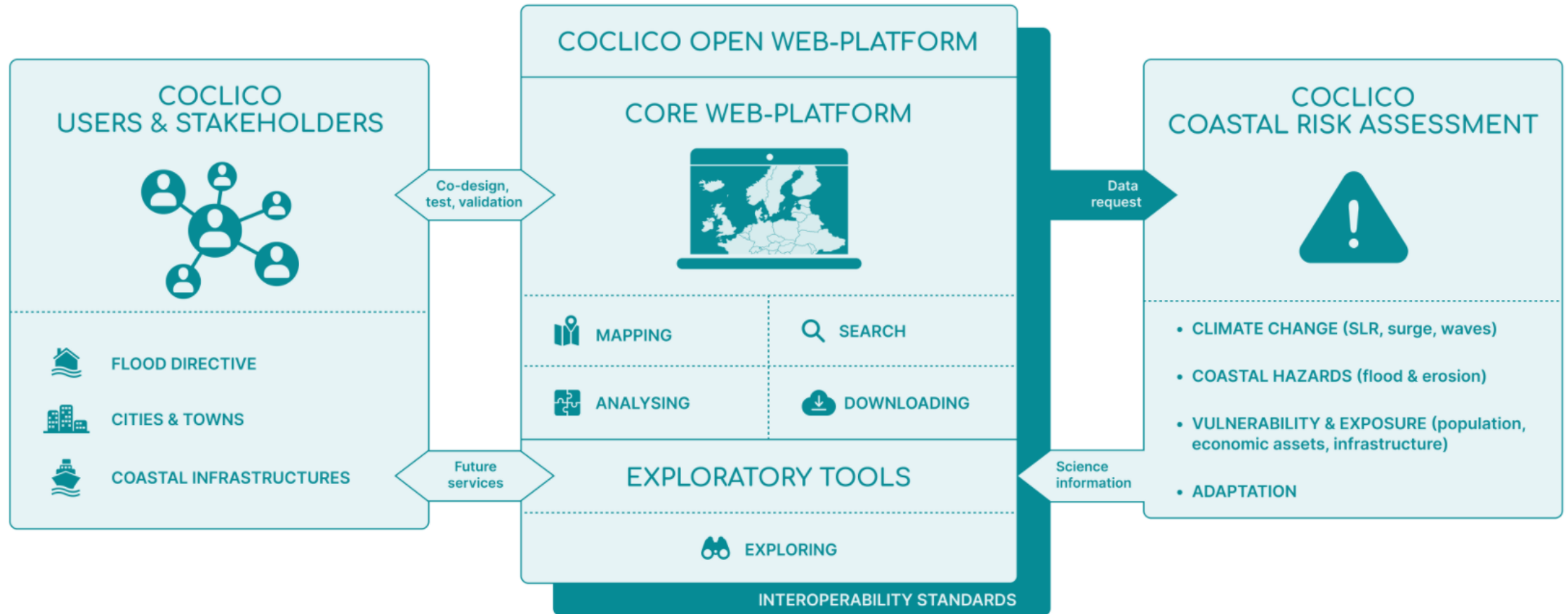
Gonéri Le Cozannet (BRGM), Alexandra Toimil (IHCantabria) & All the CoCliCo Team



CoCliCo's objectives and concept

Objective: to improve decision-making on coastal risk management and adaptation, by establishing an integrated core service dedicated to coastal adaptation to sea-level rise.

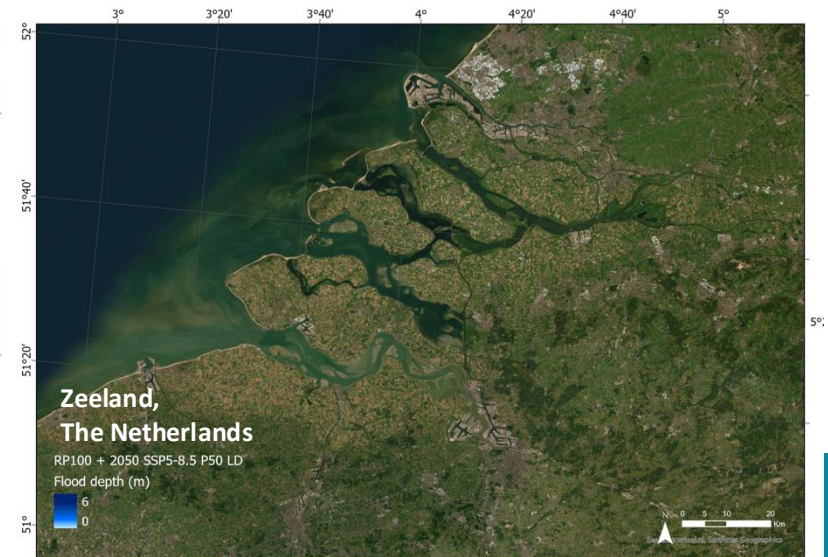
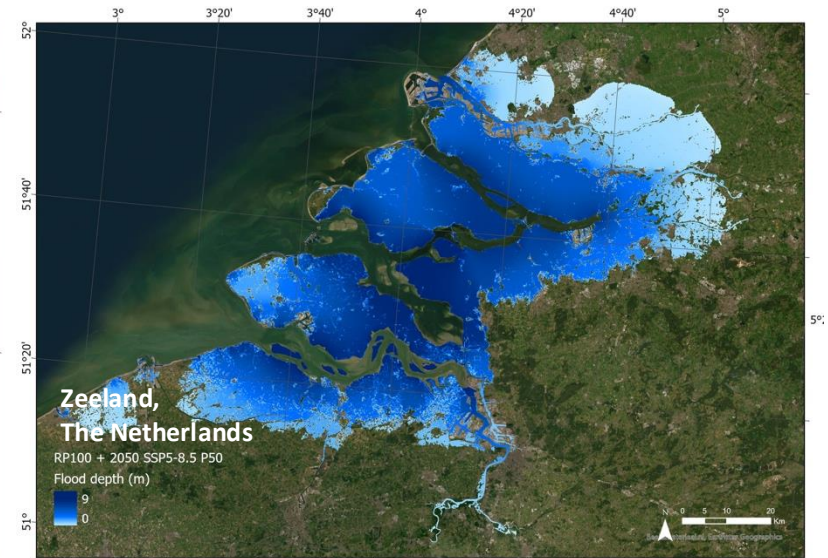
Deliverable: an open-source web-platform informing users on present-day & future coastal risks.



<https://platform.coclicoservices.eu/>

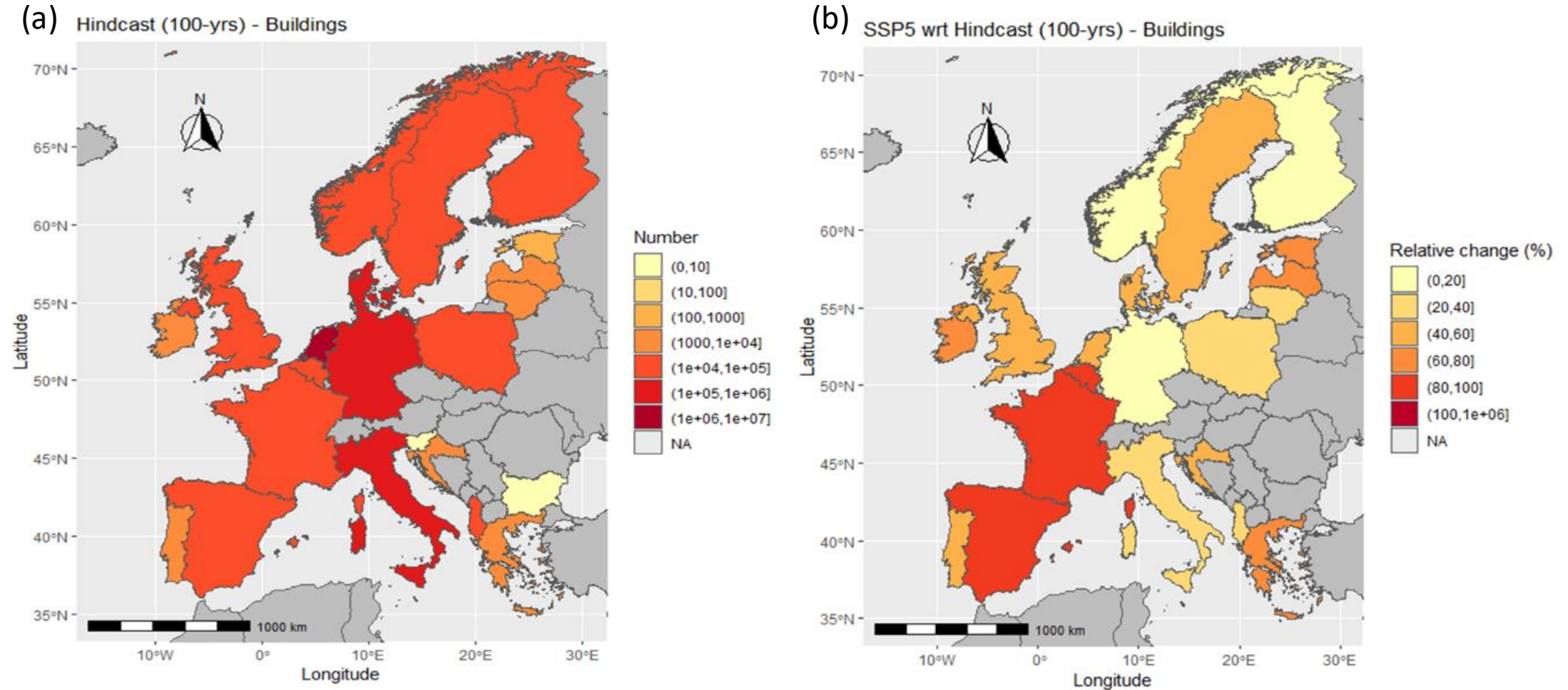
Coastal flood maps

For each scenario, the undefended maps provide the upper limit of coastal flooding, while the defended maps provide the lower limit.



Example of diagnosis

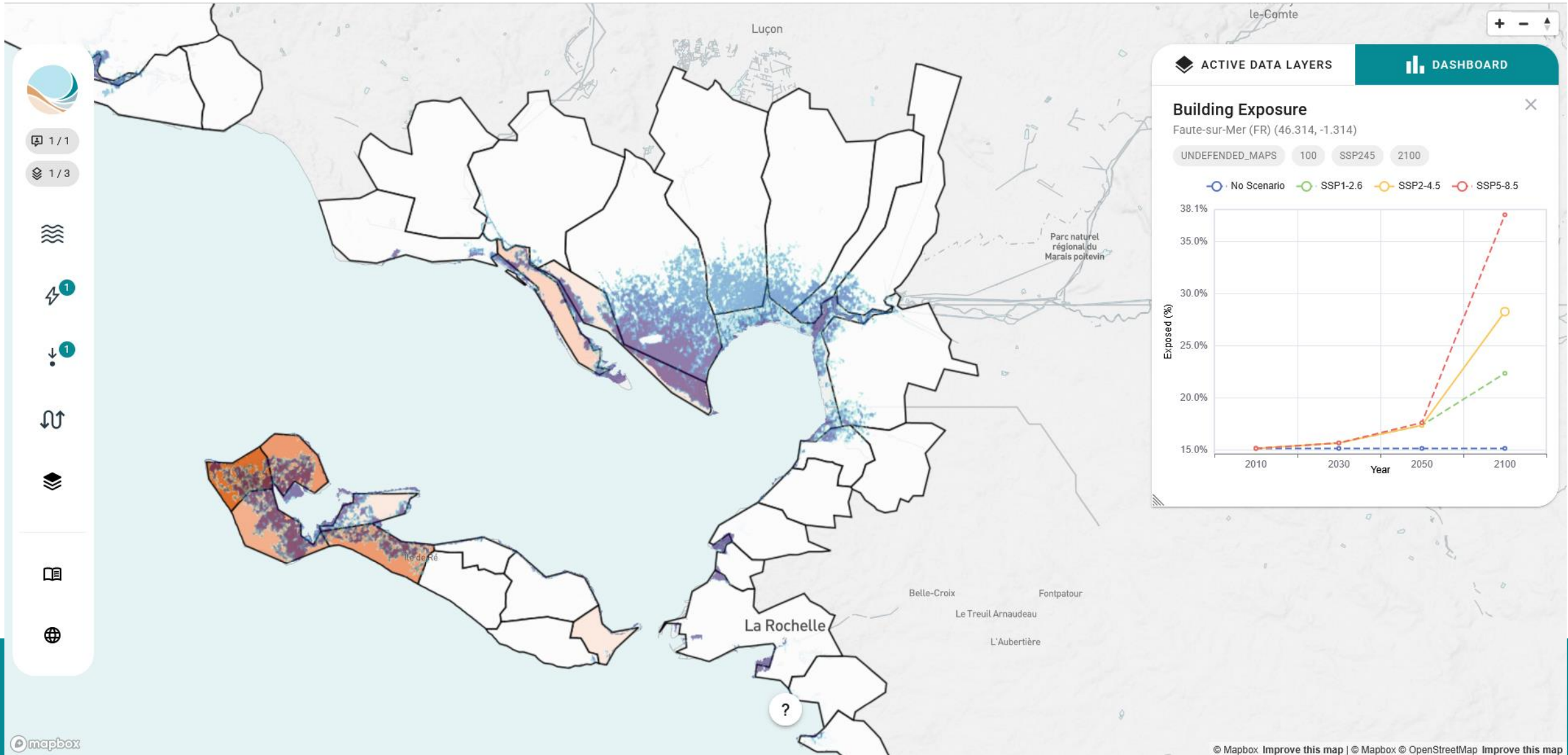
Number of buildings exposed to a 100-year coastal storm today (a), and relative change in 2100 under SSP5-8.5 (b), assuming no coastal defences.



Based on a [Global Sensitivity Analysis](#), modelling choices regarding the **socio-economic pathways**, **ice-sheet melting** and **coastal defences** have the **largest impact on the uncertainties of future coastal risks**

Example of diagnosis

Percentage of buildings exposed to a 100-year coastal storm now and in the future, assuming no coastal defences



Welcome to the CoCliCo Handbook!

This tool provides access to high-resolution coastal climate data, helping users explore sea level rise projections, coastal hazards, exposure, and adaptation strategies. Designed for policymakers, local authorities, coastal managers and researchers, CoCliCo enables interactive data visualization, scenario analysis, and decision support.

[Getting Started](#)[Understanding the Data](#)

Sea Level & Hazard Projections

Access datasets on sea level rise, extreme surge levels, and coastal flooding.

Exposure & Vulnerability

Understand how populations and infrastructure are affected.

Risk & Adaptation

Explore cost-benefit analyses of coastal adaptation measures.

Interactive Map Interface

Pan, zoom, and activate data layers for detailed spatial analysis.

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