



OUTCOME INDICATORS FOR A RESILIENT FUTURE

UNDERPIN is a flagship project under the EU Mission on Adaptation to Climate Change, which will design, co-develop, and validate a new monitoring, evaluation, & learning (MEL) framework.

Project data

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Contact Us

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About the project

UNDERPIN, officially named, “oUtcome iNDicators to mEasuRe Progress on climate resilience”, addresses critical gaps in monitoring, evaluation, and learning (MEL) for climate adaptation across Europe. A flagship project of the EU Mission on Adaptation to Climate Change, this project focuses on outcome indicators to measure effectiveness of adaptation solutions. It also supports the EU Adaptation Strategy objectives for Europe, the fastest warming continent, to become climate resilient by 2050.

A lack of standardised indicators exists to capture the effectiveness of adaptation efforts. Existing frameworks often focus on processes but fail to assess long-term resilience outcomes. UNDERPIN aims to bridge this gap by developing indicators that evaluate both short-term results and long-term impacts, helping stakeholders assess how well adaptation actions reduce vulnerabilities and enhance resilience.

The project will engage four pilot regions to co-create and refine the framework, ensuring practical relevance and adaptability. A dashboard with AI and machine learning tools will provide real-time analysis at the EU and regional level, helping decision-makers track progress, identify gaps, and make data-driven decisions. By aligning with EU and global reporting standards, such as the EU Adaptation Strategy and the UNFCCC, UNDERPIN will harmonise climate adaptation monitoring across governance levels, fostering a coordinated approach to resilience-building in Europe.

Project Pillars



**OUTCOME INDICATOR
FRAMEWORK**



**NOVEL DATA
SOURCES**



**USER-FRIENDLY
DASHBOARD**



**REGIONAL CO-CREATION
AND VALIDATION**



**CITIZEN SCIENCE
& JUSTICE LENS**

UNDERPIN Regions

Normandy

Climate challenges: rising sea levels, coastal erosion, & storms

Basque Country

Climate challenges: heat stress, air quality

Cluj Metropolitan Area

Climate challenges: floods, droughts, heatwaves, & wildfires

City of Košice

Climate challenges: heatwaves, air quality, flooding, droughts



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UNDERPIN
Measuring Progress on Resilience



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