

C.1.2 Definition of the Guidelines for the integration of climate change in Regional and Urban Planning (URB)

OBJECTIVES

Organise the integration of climate change and in particular the adaptation in the different regional and urban planning tools from a **multi-scale approach**. Coordinators: Ihobe, US2030. Partners: Provincial councils, BG, local councils, demonstrators.

RESULTS

DC1.2.3. Guide/Methodological guidelines for the consideration of climate change and the adaptation of land-use planning tools at a variety of scales. (December 2021).

BUDGET €28.045



C.2.1 Effective integration of Klima 2050 Strategy in Land-use Planning and in Town Planning (URB)

OBJECTIVES

Application of the Action C1.2 methodology to two demonstrators:

- Sectoral Territorial Plan for Renewable Energy PTS-EERR. Participation of Basque Energy Agency (EVE)
- Special Plan of Punta de Zorrotza (Bilbao). Participation of Bilbao City Council.

RESULTS

- DC2.1.1 Revision of PTS- EERR (December 2021)
- DC2.1.2 Special Plan of Punta de Zorrotza (March 2022).
- DC2.1.3 Analysis of the lessons learned from the demonstrators at the different scales
- **to feedback into the results of Action C1.2.** (December 2023).

BUDGET €60.825



C2.2 Analysis of the **Municipal Emergency Plans: Integration of the Alarm Systems (MT)**

OBJECTIVES

Implementation of methodologies, and application to examples, to **update the municipal emergency plans** in the context of weather-climate risks in climate change contexts.

RESULTS

- **Weather-climate indices evaluation tools** (December 2020)
- **Diagnostic and Impact Model Tool - Climate Change MDI-CC** (December 2023)
- **Methodology for adapting emergency plans-** with a CC perspective (December 2025)
- Examples: Town hall of **Gernika-Lumo**, Town hall of **Donostia-San Sebastián**, **Urdaibai** Biosphere Reserve

BUDGET €317.710



C3.2 Integration of **climate change in energy policy**_(URB+EVE)

OBJECTIVES

Analysis of energy system vulnerability and interdependence

Urban Infrastructure Resilience (TECNUN)

RESULTS

- DC 3.2.1 **Generation of integrated information** in respect of the Basque energy sector (December 2022).
- DC 3.2.2 Evaluation of the **climate vulnerability of the energy distribution network of Zarautz and Bilbao** to extreme events associated with climate change and analysis of interdependence (December 2023).
- *DC 3.2.3 Evaluation of the urban infrastructure resilience in Zarautz and Bilbao (TECNUN) (December 2023).*
- DC 3.2.4 **Revision the Energy Strategy EEE2050 from the perspective of Climate Change** and adaptation (December 2023).

BUDGET €120.850



C4.1 Nature-Based Solutions, ecosystem services and co-benefits (URB)

OBJECTIVES

Support for municipalities in the **selection, design and execution of the NBS** using novel tools and methodologies:

RESULTS

- **Vitoria Gasteiz: NBS Catalogue** (Dec. 2020); **Risk maps** (Dec. 2021); **Effectiveness** (Dec. 2023); **Implementation** of NBS (Dec. 2025)
- **Punta-Zorroza (Bilbao)**: Design of **recovery comprising NBS** (December 2021) + Monitoring of the NBS **effectiveness** in Bilbao (December 2025)
- **Donostia- San Sebastián**: **thermal comfort + selection and prioritisation of NBS (March 2022)**
- **Guidelines for the design of comfortable and secure urban zones using NBS** (December 2025)

BUDGET €272,500

Participation of Tecnalía in other tasks

A2 Extended analysis of climate risk in the Basque Country Wind, humidity, radiation –MT-

C1.3 Prioritisation of CC activities (multicriteria analysis) for the management of the region –URBAN-

C6.1 Adaptation at the urban shoreline: network of measures, flooding prevention and management systems – MT- C7.2 Citizen science platform –URBAN-

C8.3 Generation of tools and capacity development for local authorities: Analysis of climate change vulnerabilities and risks at a district scale, new risks and viewer–URB-

C9.1 Definition of an observation system for follow-up and action: Climate change Hub -MT-

