



# Fondazione Gran Sasso Tech

## **WP2: Data-Lake Infrastructure MAPS**

Technical Design, Cloud Solution Design, Hosting Specifications

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# 1 WP5: Place-Based Policy Simulator Development

**Work Package 5:** Simulator for evaluating the impact of territorial policies

## 1.1 Overview

Development of a **web-based simulator** to evaluate the impact of place-based territorial policies on the Homogeneous Local Systems (SLO) identified through the WP3 algorithm.

The simulator will enable: - Modelling of territorial policy scenarios - Simulation of impact on accessibility and services - Evaluation of intervention alternatives - Support for evidence-based decisions

## 1.2 Timeline

- **Months:** M18-M22
- **Final deadline:** 31/01/2027

## 1.3 Planned Deliverables

### 1.3.1 D5.1 - Simulator Design Document

Technical design document: - Simulator architecture - Simulation models - Supported policy scenarios - User interface (mockup)

### 1.3.2 D5.2 - Simulator Implementation

Web-based implementation with: - Backend (Python/FastAPI) - Interactive frontend (Vue.js/React) - Scenarios and results database - API for integration

### 1.3.3 D5.3 - User Documentation and Use Cases

User manual and case studies: - Simulator usage guide - Step-by-step tutorials - Regional case studies - Best practices

## 1.4 Status

**In preparation** - Documentation will be available during the implementation phase (M18-M22)

## 1.5 Links

- ← Back to Home
- WP3 - SLO Algorithm - Input for the simulator
- WP6 - API - Data and results integration

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