MESTNA OBČINA SLOVENJ GRADEC

Partner Search:

Pilot Site for Pesticide Drift & Basin Air Quality Modelling (Horizon Europe 2027)

Introduction: The Municipality of Slovenj Gradec (Slovenia) is seeking to join ambitious consortia for the upcoming Horizon Europe Zero Pollution calls:

- 1 HORIZON-CL6-2027-01-ZEROPOLLUTION-03: Improve the capacity to monitor and reduce air pollution from agriculture
- 2 HORIZON-CL6-2027-01-ZEROPOLLUTION-02: Developing effective air quality planning strategies through innovative multi-scale modelling

They offer a unique, high-impact pilot location characterized by a complex Alpine-basin topography and intensive hop-growing agriculture integrated into urban residential zones.

The Challenge: The region suffers from extreme temperature inversions and low wind speeds, creating a "trapping effect" for agricultural aerosols. With hop gardens located immediately adjacent to schools and residential areas, our community faces significant concerns regarding pesticide drift and long-term health impacts. Current monitoring systems are insufficient to capture the intermittent, high-concentration peaks of Plant Protection Products (PPPs).

What Slovenj Gradec Offers to Your Consortium:

- **Highly Specific Pilot Site:** A geographically "closed" system (basin) perfect for validating multi-scale air quality models.
- **Integrated Monitoring Approach:** They are prepared to facilitate air, soil, groundwater, and crop sampling, alongside a comprehensive human biomonitoring program.
- **Access to Vulnerable Populations:** Coordination with local schools, kindergartens, and health centers for epidemiological and biomonitoring studies.
- **Policy Implementation:** Commitment to integrating project results into local spatial planning and agricultural management strategies.

We Are Looking For: Coordinators and partners (universities, research institutes, and tech providers) specializing in:

- Advanced atmospheric chemistry and pesticide sensing.
- Multi-scale meteorological and dispersion modelling in complex terrains.
- Human biomonitoring and environmental toxicology.