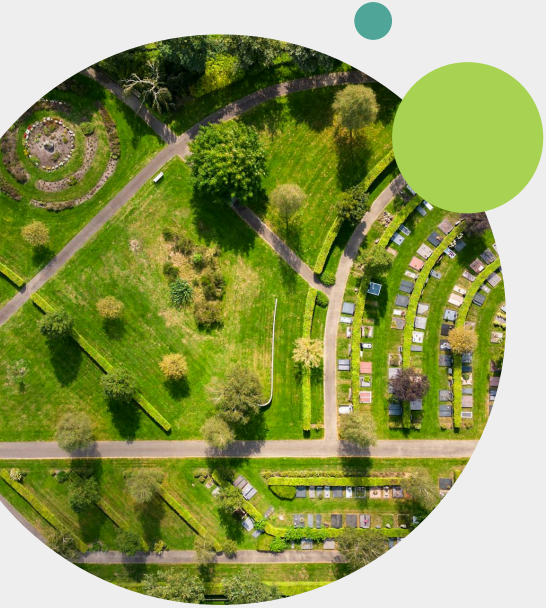

Use Case 2A

Biodiversity monitoring in urban environment

Use Case 2A aims to transform **urban biodiversity monitoring** through advanced satellite data, making it accessible to cities of all sizes. Developed by CERTH with AQUATEC, the project leverages deep learning to **enhance Sentinel imagery** for **identifying plant species, assessing vegetation health,** and **mapping urban water bodies**. Unlike traditional methods, it uses **Copernicus data** for frequent, comprehensive **green and blue infrastructure monitoring**. This **scalable solution** will be tested across Spanish cities, supporting **new ecosystem services for municipalities.**

For collaboration, contact **Sotiris Paraskevopoulos (sotirispara@iti.gr)** or **Agustin Torres Jerez (agustin.torres@aquatec.es)**.

CERTH
CENTRE FOR RESEARCH & TECHNOLOGY HELLAS

AQUATEC

ThinkingEarth

Copernicus Foundation Models for a Thinking Earth

ThinkingEarth will utilise AI to create Copernicus Foundation Models and a Graph representation of the Earth. Four Use Cases are being developed under the project.

Find out more and follow us for updates.

thinking-earth.eu

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