

PERIVALLON TOOL CARDS



The PERIVALLON project aims to deliver an improved intelligence picture of organised environmental crime and develop tools for **detection, prevention, and impact assessment**. It uses geospatial intelligence, remote sensing, online monitoring, and predictive analytics to enhance investigation processes and methodologies.

These cards present **13 tools**, each a result of the development and validation efforts within the PERIVALLON project.

Geospatial intelligence detection tool suite – water pollutants



Exploitation Type



Commercial



Partner in Charge



Description

An AI-driven module that processes Copernicus satellite imagery to identify water-borne pollutants (oil spills, industrial runoff and muddy waters). Detected events exceeding predefined thresholds trigger automated alerts. The modular architecture supports addition of new detection workflows or deployment in different geographic areas via parameter adjustments.

At a glance

Automated Copernicus data analysis for real-time pollutant alerts in lakes, rivers, and coastal zones.

Who is this tool developed for?



Use Case

Continuous monitoring of large water bodies to detect and alert on pollutant events that threaten water quality or indicate illegal discharges.

Benefits & Added Value

- Cleaner waterways and reduced public-health risks.
- Directs inspectors to high-risk hotspots, cutting field-work costs by up to 40 %.
- Evidence-grade maps boost prosecution success and fine recovery.
- Empowers data-driven policymaking and fosters community engagement in water protection.