

CALLISTO

BRIDGING THE GAP
BETWEEN COPERNICUS DATA
PROVIDERS AND END USERS THROUGH
ARTIFICIAL INTELLIGENCE SOLUTIONS

PILOT USE CASES BROCHURE

SATELLITE JOURNALISM



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PILOT USE CASES

SATELLITE JOURNALISM

- Germany
- Poland

PRESS

LAND BORDER CHANGE DETECTION

- European borders
- Spain-Morocco | Croatia-Bosnia and Herzegovina
- Greece-North Macedonia | Hungary-Serbia



CAP MONITORING

- Greece
- Cyprus





WATER QUALITY ASSESSMENT

- Belgium
- Italy

SATELLITE JOURNALISM

 **PUC locations**
Germany
Poland

 **Technological assets used**
Sentinel 5p-data, Air Quality Sensors

 **End users**
Journalists

 **Partners responsible**
Deutsche Welle
DRAXIS

CHALLENGE

Air Quality (AQ) has been a topic in media coverage for a longer time. But in light of the climate crisis and the European Green Deal initiatives, the topic enjoys increasing attention. Also, data sources measuring AQ, such as satellite and sensor data, become more and more available. However, the data is not easily accessible and most importantly not easily understandable by non-experts such as journalists.

MAIN GOAL

This PUC contributes to environmental journalism by providing a research tool that allows journalists to monitor and investigate AQ data from various sources. On top of this, it enables the journalist to interpret AQ data supported by AI.

EXPECTED IMPACT

This PUC will provide easy access not only to AQ data but also to its contextualization. The data will be derived from various sources, such as official monitoring stations and satellites, and will be provided via an interface tailored for journalists, helping them build credible environmental stories.

INNOVATIVE SOLUTIONS

A tool continuously monitoring and visualising AQ data within user-defined areas of interest in Europe

An AQ prediction model producing 3-day forecasts

A dataset of historical AQ information for given areas of interest

AQ trends analysis over long periods of time

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