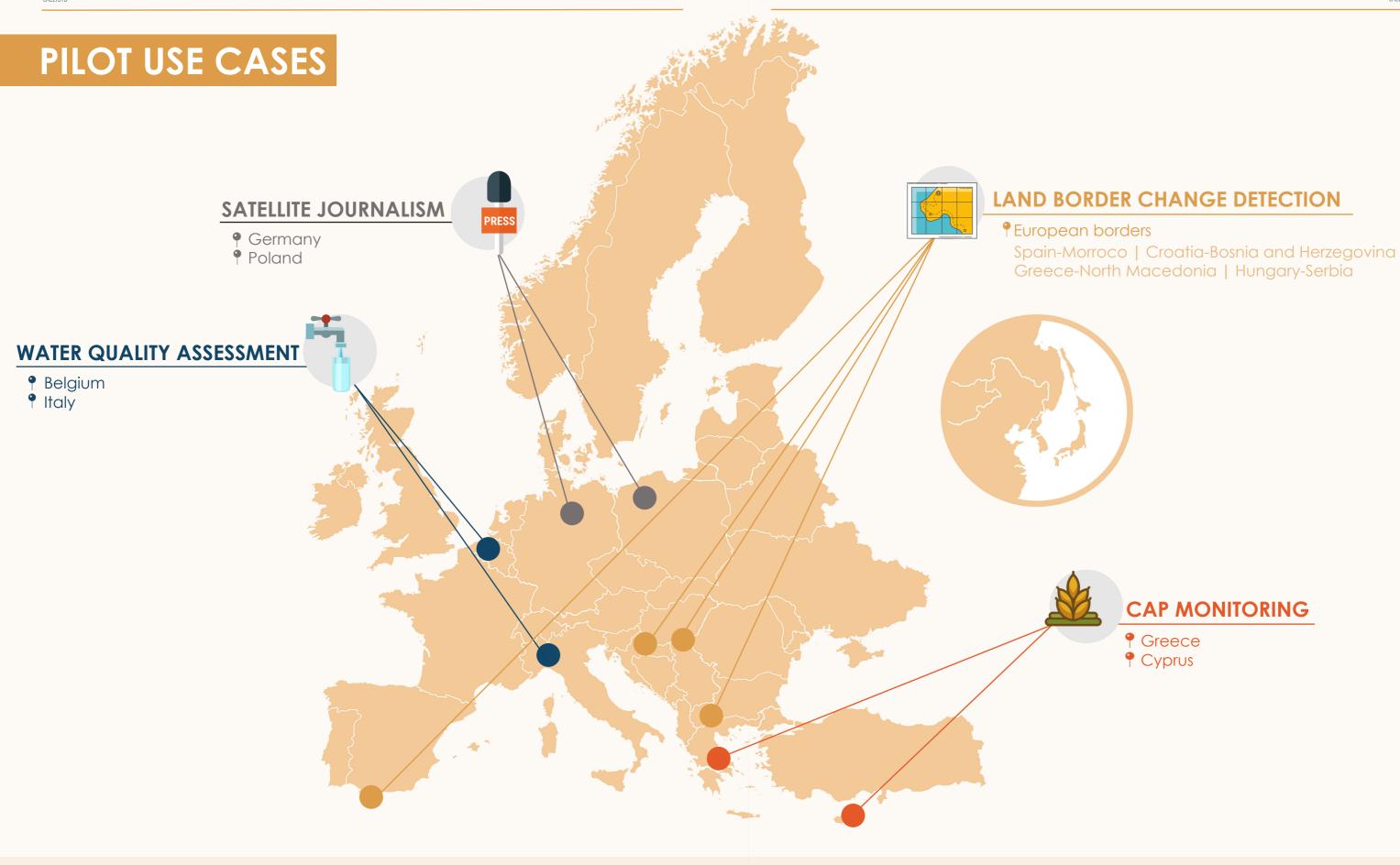


BRIDGING THE GAP BETWEEN COPERNICUS DATA PROVIDERS AND END USERS THROUGH ARTIFICIAL INTELLIGENCE SOLUTIONS

PILOT USE CASES BROCHURE

LAND BORDER CHANGE DETECTION











































LAND BORDER CHANGE DETECTION



PUC locations European borders



Technological assets used Satellite Imagery (Sentinel 2A - Multispectral), UAV (N-IR)



End users Image Analysts Law Enforcement Agencies



Partners responsible European Union Satellite Centre (SatCen)

CHALLENGE

Changes in land borders impose corresponding changes in their permeability and consequently, the construction of preventive operational measures (e.g., fences, walls, etc.) may be needed in order to ensure border security.

MAIN GOAL

This PUC aims to support the operational work of image analysts at SatCen working on border surveillance tasks. In particular, the CALLISTO platform will be able to process Sentinel data, perform accurate land change detection to infer relevant changes at borders and deliver notifications to the analysts.

EXPECTED IMPACT

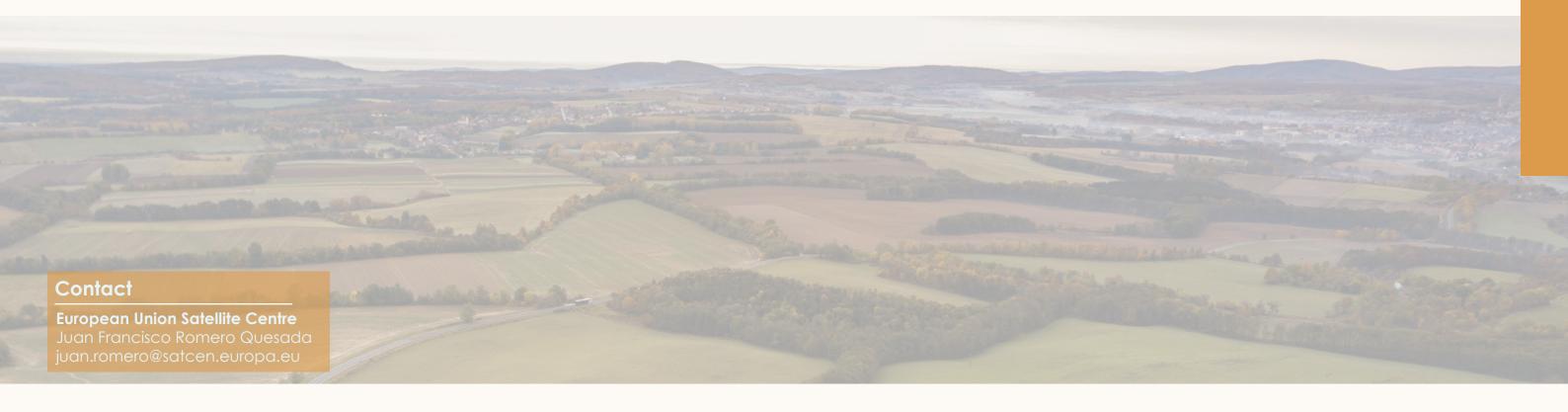
This PUC will provide a Sentinel-powered Land Border Observatory prototype, delivering notifications for further processing and analysis from imagery analysts, and improve aspects of detecting accurately relevant land changes at EU borders.

INNOVATIVE SOLUTIONS

Rasterised relevant change detection probability layers at EU external borders based on EO data

Relevant land change detection notifications delivered to the user as new "events" are detected

Generation and proposal of a flight plan for future UAV missions













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