

# The ESA Ulysses project and the exploitation in the Mediterranean area of Soil Sealing products and indicators

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## ESA Symposium on Earth Observation for Soil Protection and Restoration



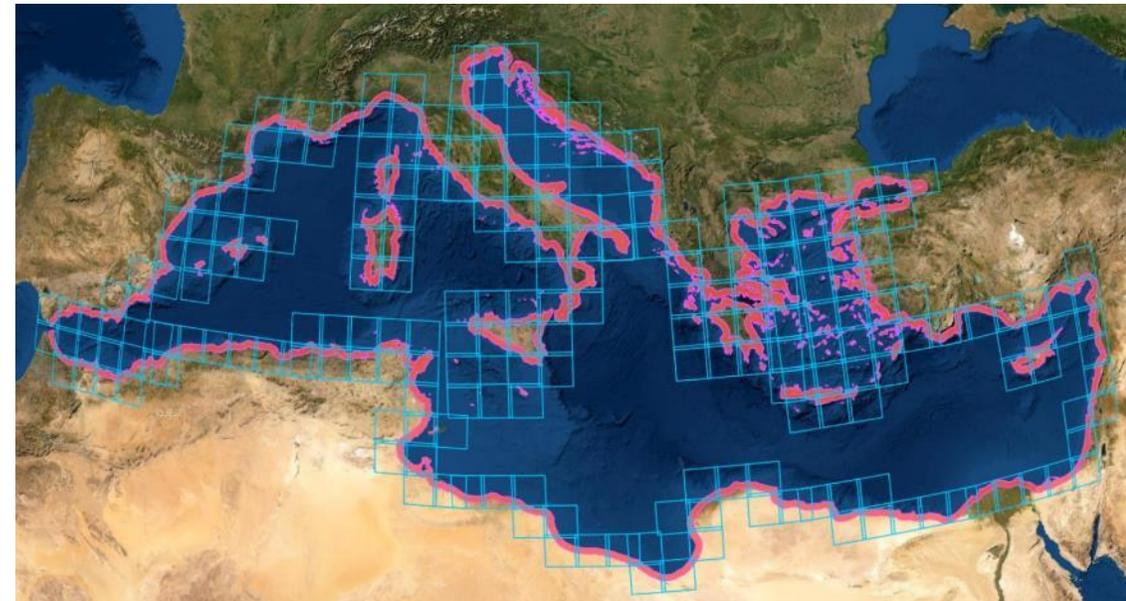
The Ulysses project (ESA Mediterranean initiative) is led by Planetek Italia and with CLS and ISPRA, is producing soil sealing products for the coastline of the Mediterranean Sea, exploiting the large volume of EO data made available by Copernicus. The project aims at embedding EO-derived information into the strategies and cooperation actions by:

- Assessing the soil sealing - annual time series from 2018 to 2022
- Delivering the products together with a web exploitation tools
- Involving directly and actively authoritative end users

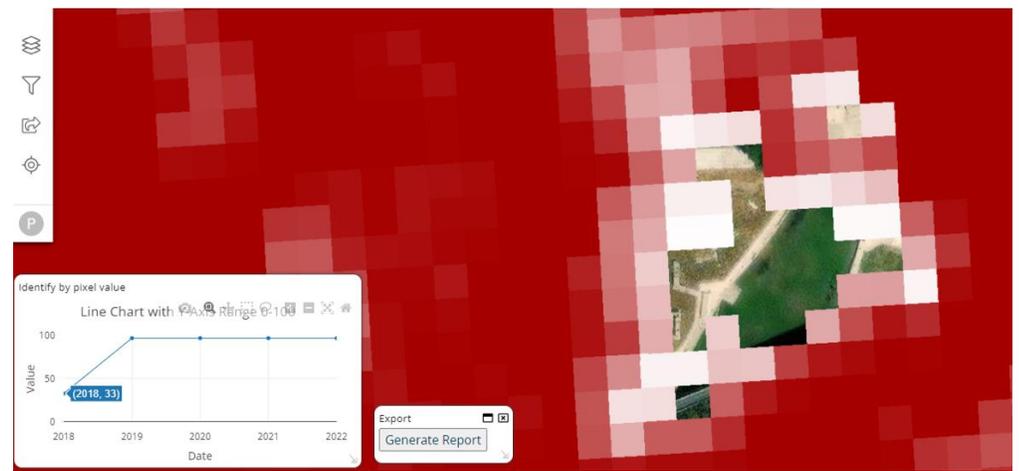
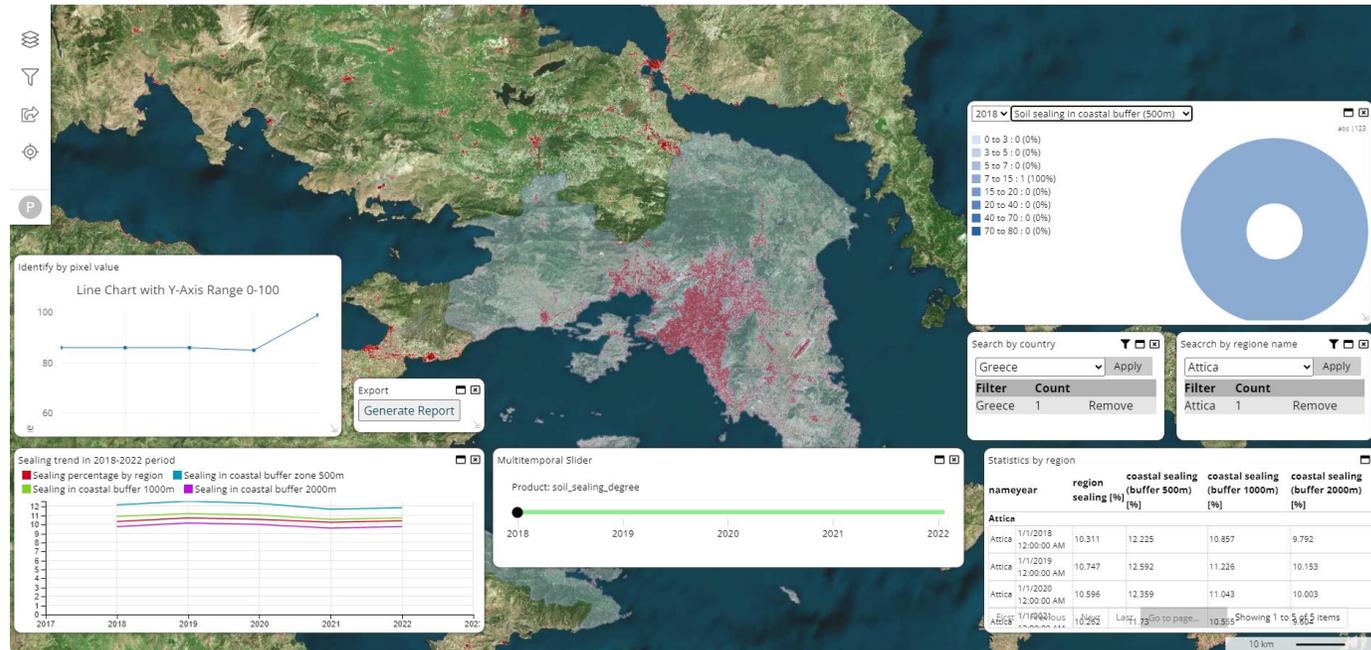
The project has been implemented in two subsequent phases: the first phase ended in December 2022, with the delivery of the soil sealing map for 2020

The second phase started in 2023 and ended in 2024, with the delivery of the complete time series from 2018 to 2022.

In 2024 started the demonstration to some potential users involved since the project began and the promotion to a large audience during workshops

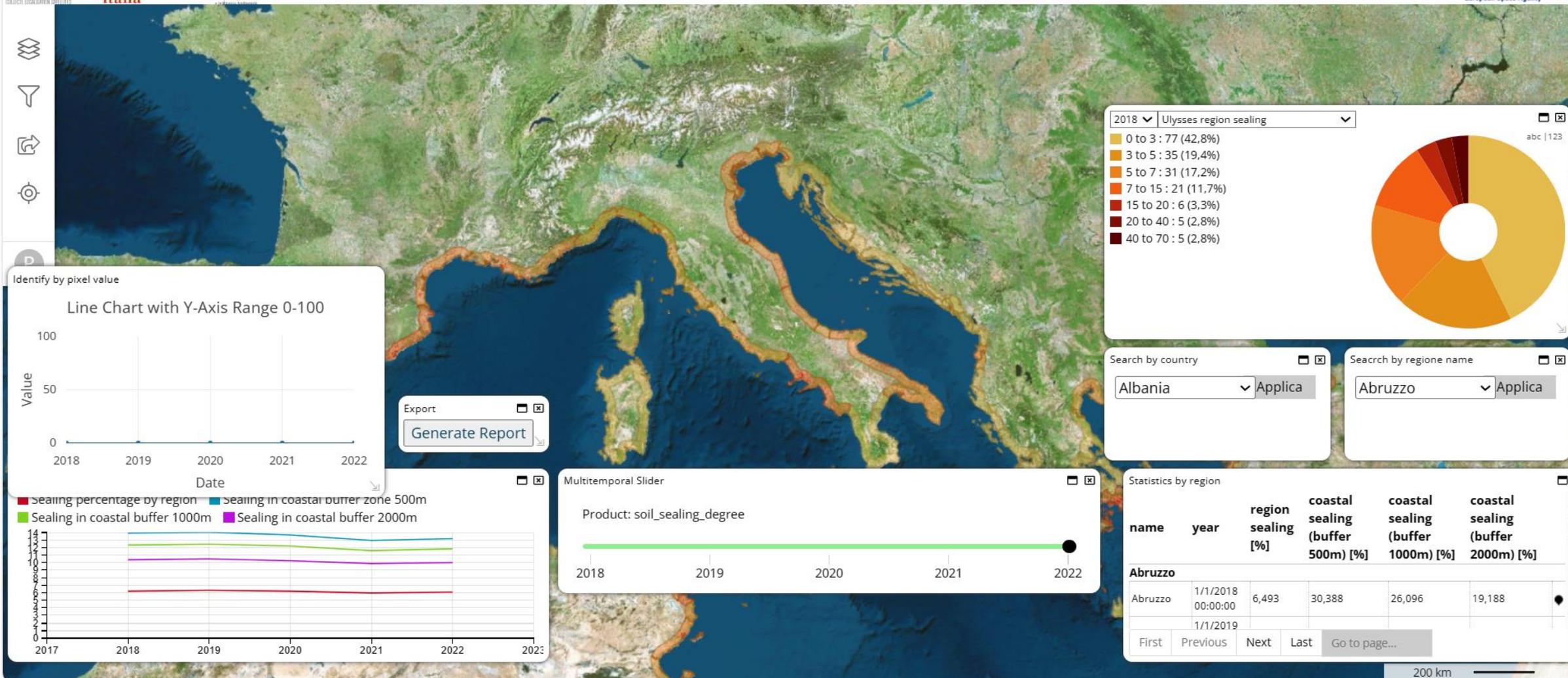


*Products time series available from 2018 to 2020 on a buffer of 20 km inland of coastline of the Mediterranean sea*



- Availability as time series from 2018 to 2022
- Production over a buffer of 20 km inland of the Mediterranean Sea coastline
- 10-meters resolution
- Processing exploiting Machine Learning algorithms
- Deployed on the CreoDIAS, thanks to the NoR

# Soil Sealing Degree MED 2018-2022 Indicators (Regional Level)



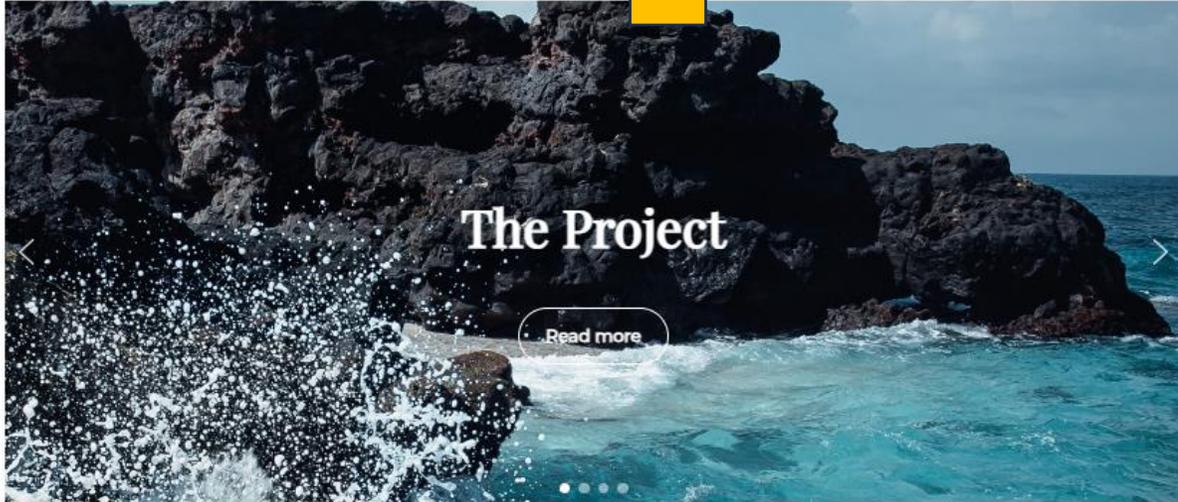


# ULYSSES: Soil Sealing Assessment and Monitoring Project

A Mediterranean Regional Initiative by ESA

HOME PAGE THE PROJECT SOIL SEALING STAKEHOLDERS DATA AND SERVICES

The project Mediterranean Soil Sealing, promoted by ESA – European Space Agency – aims at providing information related to soil sealing presence and degree over the Mediterranean coastal areas by exploiting EO data.



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