

May 2022

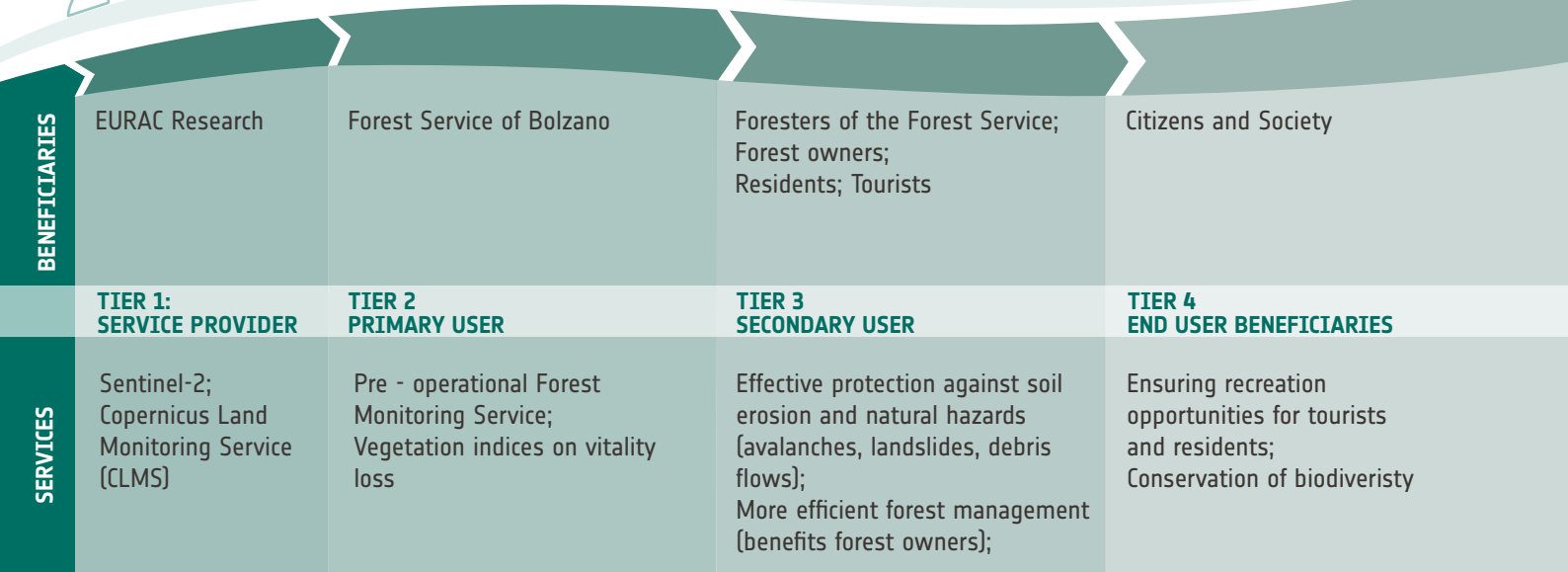


## FOREST MONITORING SERVICE FOR SOUTH TYROL

### >>> A few years later

In the last few years, the work on this solution has continued. At the moment, several EO-based services are being developed within a regional initiative "Earth Observation for Alpine ecosystems - eco4alps". In this framework, the mountain forests of the Alpine region are being monitored. Derived information is allowing to map a spatial pattern and timing of forest disturbances.

*Günther Unterthiner | Forest Department of the Autonomous Province of South Tyrol*



Value chain definition following SeBS Methodology - <https://earsc.org/sebs>

### The space-based solution

This Copernicus-based solution was produced by a scientific entity for a Public Administration. From a technical perspective, the solution is now more advanced: additional information is now generated.

### The Usage Maturity Level

Since 2018, the solution remained at the same stage because there was not the need nor opportunity to perform any other trial or activities. However, the solution still remains in the interest of the organisation.

Thematic Area



AGRICULTURE,  
FOOD, FORESTRY  
AND FISHERIES

Region of Application



SOUTH  
TYROL

Sentinel mission used



S2

Copernicus Service used



CLMS

Usage Maturity Level



2/3

## Overall benefits

### ECONOMIC



No noticeable additional modification/impact on the functioning of the public administration nor on the lives of the citizens since 2018.

### ENVIRONMENTAL



No noticeable additional modification/impact on the functioning of the public administration nor on the lives of the citizens since 2018.

### REGULATORY



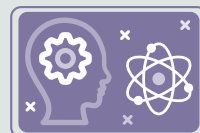
The solution has facilitated or improved the compilation of institutional reports by the PA

### INNOVATION



New funding has been acquired, specifically within a regional initiative "Earth Observation for Alpine ecosystems - eco4alps"

### SCIENCE



There was an increase in technical/scientific expertise related to Copernicus/EO within the PA

### SOCIETAL



- Improved coordination and governance has been registered
- Sense of trust and community for the involved actors has increased
- There have been improvements in public awareness

Benefits classification following SeBS Methodology - <https://ears.org/sebs>

## Interesting facts...

After favorable temperature conditions in the spring, bark beetles have drastically increased in number and spread over the region of South Tyrol. Forest monitoring service plans to contribute to monitoring practices in order to and assess the impact of this species on the forests of the region.

## Acknowledgements

We acknowledge past funding (EU-FP 7 project EUFODOS: European Forest Downstream Services - Improved Information on Forest Structure and Damages) which allowed us to develop the service for South Tyrol.

## Outlook to the future

In the near future, several monitoring practices are foreseen, including an assessment of a large amount of dead trees that have not been removed after the Vaia windstorm occurring in 2018.

## Contacts

**Günther Unterthiner** | [guenther.unterthiner@provinz.bz.it](mailto:guenther.unterthiner@provinz.bz.it)

## ABOUT COPERNICUS4REGIONS

The views expressed in the Copernicus User Stories are those of the Authors and can in no way be taken to reflect the official opinion of the European Space Agency or of the European Commission. Funded by the European Union, in collaboration with NEREUS. Paging, printing and distribution funded by the European Space Agency. IPR Provisions apply. Copernicus4Regions material may be used exclusively for non commercial purposes and provided that suitable acknowledgment is given.

Find the original story at  
[www.nereus-regions.eu/copernicus4regions/user-stories-sheets](http://www.nereus-regions.eu/copernicus4regions/user-stories-sheets)  
 or Download the full publication  
[www.nereus-regions.eu/copernicus4regions/publication](http://www.nereus-regions.eu/copernicus4regions/publication)

[www.copernicus.eu](http://www.copernicus.eu)  
<https://sentinels.copernicus.eu>