

June 2022



## ACTIONABLE GEOINFORMATION ON BURNT AREAS

### >>> A few years later

In the past few years, the interaction with the user Alta Murgia National Park allowed further development in terms of technical (algorithms) and process improvements. Currently the service is being offered to other National Parks in Italy.

*Antonello Aiello, Planetek Italia Srl Società Benefit*



BENEFICIARIES	Planetek Italia Srl Società Benefit	Alta Murgia National Park	Park managers	Citizens and Society
SERVICES	<b>TIER 1: SERVICE PROVIDER</b> Sentinel-2	<b>TIER 2 PRIMARY USER</b> Burnt area detection; Fire severity classification on a weekly basis; Vegetation regrowth monitoring; Detection of potential illegal infrastructure activities within past-burnt areas.	<b>TIER 3 SECONDARY USER</b> Aid in prioritising the response teams; Aid in development and support management strategies and recovery planning; Contribution to reporting duties; Meaningful data on wildfires for post-fire assessments.	<b>TIER 4 END USER BENEFICIARIES</b> Improved security from wildfires; Woods and biodiversity preservation.

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

### The space-based solution

This Copernicus-based solution was produced by a commercial company for a Public Administration.

### The Usage Maturity Level

In the past years UML has decreased due to the fact that there was not the need to perform any additional activity. However, the solution still remains of high interest of the end-user organisation.

Thematic Area



**BIODIVERSITY AND ENVIRONMENTAL PROTECTION**

Region of Application



APULIA

Sentinel mission used



S2

Copernicus Service used



-

Usage Maturity Level



2

## Overall benefits

### ECONOMIC



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

### INNOVATION



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.

### SCIENCE



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

### REGULATORY



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

### SOCIETAL



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

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

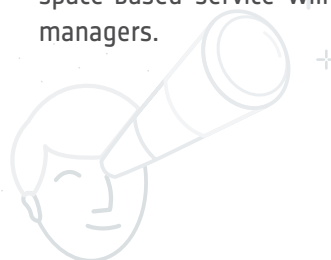
## Interesting facts...

A close contact with the end-user has allowed further development of more efficient algorithms and adaptation of the processes to the user needs. Copernicus Sentinel-3 data have also been tested within this cloud-based service.



## Outlook to the future

Planetek Italia has further developed Rheticus® Wildfires a cloud-based service designed to provide Copernicus-based data and analytics to National Parks. In the future, this space-based service will be used by other National Parks' managers.



## Contacts

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## ABOUT COPERNICUS4REGIONS

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