

>>> A few years later

In the last few years, the solution has evolved mainly from a technical perspective: methods regarding automatic pre-classification, multi-sensor integration, time-series analysis and multi-scale applications have been further investigated.

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BENEFICIARIES	Paris-Lodron University Salzburg	Provincial Government of Salzburg	Nature conservation authorities	Citizens and Society
	TIER 1: SERVICE PROVIDER	TIER 2 PRIMARY USER	TIER 3 SECONDARY USER	TIER 4 END USER BENEFICIARIES
SERVICES	Sentinel-2	Identification of areas with high degree of potential changes; In-field mapping assessing biotopes (based on the HR & VHR imagery), used for validating the satellite-derived information	Improved regular monitoring of remote/inaccessible areas (Alpine areas); Mitigation of biodiversity decline through targeted nature protection practices; Reduction of efforts and costs for nature conservation activities.	Overall improved biodiversity safeguard of alpine habitats

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

The space-based solution

Copernicus-based solution produced by a scientific entity for a Public Administration and for other users such as companies, professionals, agencies, associations, single citizens.

The Usage Maturity Level

In the past few years, the solution has transitioned to high UML 4. The main reason for this is due to new expertise was acquired in the organisation.



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Overall benefits

ECONOMIC



- Cost savings of operating expenditure have been registered;
- The replicability of the solution was achieved

SOCIETAL



- Administrative burden reduction for citizens was achieved;
- There has been an increased access to public utility;
- There have been improvements in public awareness

REGULATORY



- The solution has helped to inform the design/ review of policy parameters;
- The solution has facilitated or improved the compilation of institutional reports by the PA;
- The solution allowed to improve accountability of duty holders and/or regulators



INNOVATION



• The solution has helped to improve understanding about a specific topic of interest

The solution has helped to create some new

There were positive market externalities

business;

- traditionally not related to Earth Observation (EO);
- The solution has enabled some technological advancement;
- There was an increase in technical/scientific expertise related to Copernicus/EO within the PA;
- There was an increase in technical/scientific expertise related to Copernicus/EO at the service provider

ENVIRONMENTAL



- · Reduced impact on biodiversity;
- · Reduced depletion of natural resources

Benefits classification following SeBS Methodology - https://earsc.org/sebs

Interesting facts...

From technical perspective, additional information is now generated by the solution. In the future, the specific information on soil sealing and its development over time is envisaged to be contained within the current solution.



In the future, a (prototype) service component on soil sealing based on Very High Resolution (VHR) data will be included in the solution.



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