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EARTH OBSERVATION AND PARTNERSHIPS TO SUPPORT LAND USE MANAGEMENT

>>> A few years later

In the past few years, space-based solution provided has allowed to develop the Integrated Management Plan for the Kilomero Valley. This plan provides insights and concrete scenario-based guidelines on how to develop further the agricultural corridor sustainably. Further, the products developed have been used to create an inventory of potential wild-life corridors. Unfortunately, it is currently not possible to measure until what extent these specifications are being used by the administration in practice.

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	UNIVERSITY OF BONN	MINISTRY OF NATURAL RESOURCES AND TOURISM OF TANZANIA; ENABEL, BELGIAN DEVELOPMENT AGENCY; KILOMBERO RAMSAR SITE (TANZANIA)	LOCAL GOVERNMENT; LOCAL FARMERS; ITINERANT HERDERS	CITIZENS AND SOCIETY
BENEFICIARIES				
	TIER 1: SERVICE PROVIDER	TIER 2 PRIMARY USER	TIER 3 SECONDARY USER	TIER 4 END USER BENEFICIARIES
SERVICES	Sentinel-2	Spatio-temporal patterns and trends in the floodplain in the last decades; Change detection in biophysical properties of the landscape deforestation and agricultural expansion.	Improved management of wetland areas; Improved strategy development (e. g., economic progress based on improved knowledge of natural resources); Cost reduction within the local government	Preservation of biodiversity and landscapes, More sustainable agricultural development in naturally fragile ecosystems

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 and for other users. Respect to 2018, the solution now generates novel information.

The Usage Maturity Level

The solution has remained at more or less the same UML 2/3. Unfortunately, further development was not possible because the liaisons within the public administration have left their position (change of staff).

Thematic Area



BIODIVERSITY AND ENVIRONMENTAL PROTECTION

Region of Application



KILOMBERO, TANZANIA

Sentinel mission used



S2

Copernicus Service used



-

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.

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...

Originally, Service Provider has collaborated with Belgian Development Agency and a group of free-lancers. However, due to lack of continuous financing, there has been a change in staff at the local administration that makes further communication challenging.

In the meantime, Service provider has continued to develop the solution, adding new contents such as new specific maps and an inventory of potential wild-life corridors (for example elephant corridors). Such activities have also been documented by the scientific literature.

Outlook to the future

The research and the cooperation projects that have financed the solution have ended while personnel within the administration has changed. For these reasons there are no concrete future plans. Service Provider evaluates that capacity building in the administration is still necessary; usually public administrations are interested in ad-hoc solutions, although they would majorly benefit from incorporating space-based solution within their regular workflows.

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