

EARTH OBSERVATION FOR SDG TARGETS AND INDICATORS, LOT-1

SDG 15.2.1 EO PATHFINDER: EO FOR SUSTAINABLE FOREST MANAGEMENT

D7.1 Promotional Materials

ESA Contract No: 4000139583/22/I-DT

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15



E04SDG-Forest

SUSTAINABLE FOREST MANAGEMENT

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Document status

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1.0	2024/11/08	Dzhaner Emin, Andrés Andrade (IABG)

Document change directory

Version	Date	Description	Section/ page

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Web References

Ref.	URL	Description	Last access
[URL01]	https://eo4sdg.github.io/eo4sdg-site	EO4SDG Website	2024/11/08
[URL02]	https://www.linkedin.com/company/eo4sdg-forest	EO4SDG LinkedIn Page	2024/11/08
[URL03]	https://www.youtube.com/@eo4sdg-forest-z3c	EO4SDG YouTube Channel	2024/11/08

1 Scope

This document summarises all the promotional materials and events at which the project has been presented.

2 Web Resources

2.1 Website

A website containing important information and links to the platform was created and hosted on GitHub. [URL01]



The screenshot shows the EO4SDG website. At the top, there is a navigation bar with links: Home, Landscape Metrics, Forest Mask, Forest Condition, Forest Net Change, Disturbance, Erosion Risk, and Consortium. Below the navigation bar, the text "EO4SDG" is displayed. To the right, it says "This project was funded by ESA Contract No: 4000139583/22/I-DT". In the center, there is a circular logo with 17 colored segments, each representing a Sustainable Development Goal (SDG). The logo is labeled "EO4SDG-Forest". Below the logo, there is a paragraph of text: "The 2030 Agenda on Sustainable Development [RD-1] ratified by the UN General Assembly at the Sustainable Development Summit in New York on the 25th September 2015, is a transformative universal agenda on sustainable development that promotes shared economic prosperity, social development and environmental protection. In total 17 Sustainable Development Goals (SDGs) and 169 Targets [URL-4] have been adopted by the world leaders and are driving the agenda on sustainable development for the United Nations and all its Member States, until 2030 and beyond." At the bottom, there is another navigation bar with the same links as the top one.


Forest Landscape Metrics

Growing concerns over the loss of biodiversity have spurred land managers to seek better ways of managing landscapes at a variety of spatial and temporal scales. The developing field of landscape ecology has provided a strong conceptual and theoretical basis for understanding landscape structure, function, and change. Landscape ecology involves the study of landscape patterns, the interactions among patches within a landscape mosaic, and how these patterns and interactions change over time. In addition, landscape ecology involves applying these principles to formulate and solve real-world problems. Landscape ecology makes use of several methods, among which we find the use of landscape metrics. These are metrics that offer a numeric way of assessing all the processes stated above and are a great tool to understand and manage landscapes more sustainably.





2.2 LinkedIn

A linked in page for the project was created. [URL02]



[Home](#)
[My Network](#)
[Jobs](#)
[Messaging](#)
[Notifications 24](#)

EO4SDG Forest

Earth Observation for SDG Targets and Indicators, SDG 15.2.1 EO Pathfinder: EO for Sustainable Forest Management

Forestry and Logging · Frascati · 100 followers · 2-10 employees

[Message](#)
[Following](#)


[Home](#)
[About](#)
[Posts](#)
[Jobs](#)
[People](#)

About

The Sustainable Development Goals are meant to assist countries to manage and monitor progress on the components of sustainable development: economic growth, social inclusion and environmental sustainability. The aim is to integrate the principles of sustainable development into national po ... see more

[Show all details →](#)

Page posts



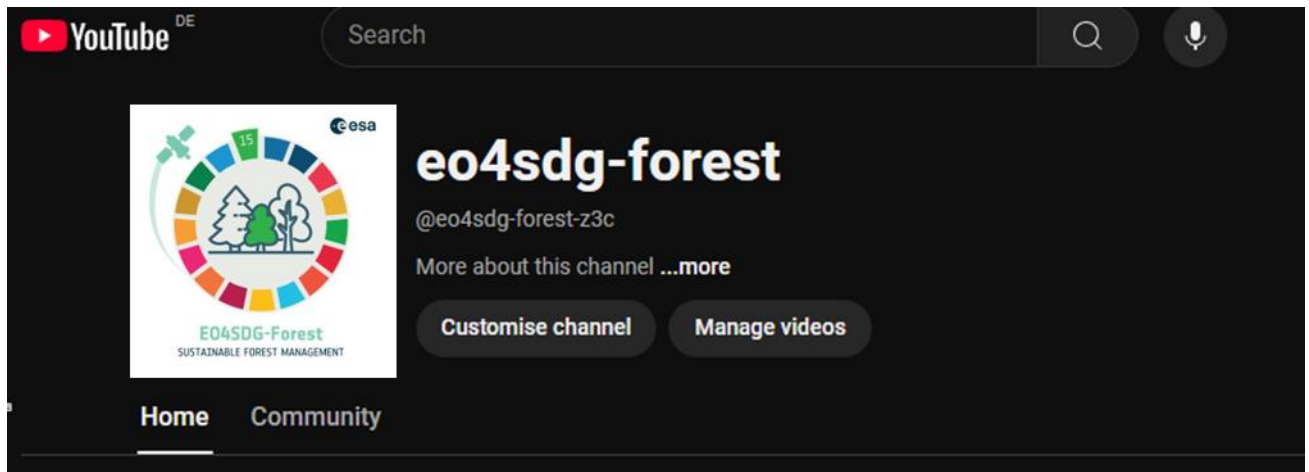
1w ·

Exciting times at ESRIN! We recently held a special Living Lab event where our Project Partners and Early



2.3 YouTube

As Part of D8.1. Guidance for Practitioners a series of videos were created and published on YouTube. A dedicated YouTube channel was created [URL03].



3 Flyers

3.1 User Engagement

A series of flyers were produced at the start to promote the project. They were used during the User Engagement Phase to familiarise potential stakeholders with the goal of the project and the potential upsides for participation.

Earth Observation for SDG 15.1/2 – Contribution to the National Reporting Chain

UN SUSTAINABLE DEVELOPMENT GOALS (SDG) aim to assist countries to manage and monitor progress on the 3 key components of sustainable development: economic growth, social inclusion and environmental sustainability. The UN has established a range of processes for achieving SDGs and monitoring progress, with particular focus to supporting the least developed economies. A solid framework of indicators, and hence reliable statistical data, to measure, monitor and report SDGs progress, inform policies and ensure accountability of all stakeholders is needed.

According to UN, a **ROBUST AND HIGH-QUALITY INDICATOR FRAME-WORK** for the SDGs requires a process that evolves with the emergence of new technology or new data, or when new indicators are needed to better track progress on the targets. Geospatial Information and Earth Observation, together with the latest advances in big data analytics, offer great opportunities to **MODERNISE NATIONAL STATISTICAL SYSTEMS** and may offer a quantum leap in the capacities of countries to efficiently track sustainable development in more detail.

Open **EARTH OBSERVATION SATELLITE IMAGERY**, with its global coverage and high observation frequency, prove essential in capturing important aspects of sustainable development and in particular the environmental dimension of the SDGs. These activities aim provide information ready to contribute to national statistical systems. It aims to **SIGNIFICANTLY REDUCE THE MONITORING COSTS, STABILIZE PROCESSES** and enable countries to meet their engagement to monitor and report progress on the national SDG targets.

SDG Sub-Indicators	Additional Metrics
Forest Area Net Change Rate (FNC) <i>Consideration of forest management (incl. harvesting/ regrowth and afforestation)</i>	SDG ADDITIONAL METRICS
Above-Ground Biomass Stock (AGB) <i>Biomass according to Vegetation volume</i>	
Forest Protected Areas (FPA) <i>GIS analysis</i>	
Forest Management Plans (FMP) <i>GIS analysis</i>	
Forest Characterization (FCH) <i>Forest classification based on seasonal behaviour; degree of forest artificialization</i>	
Forest Condition Monitoring (FCM) – Vitality <i>identification of vitality loss & recovery</i>	
Degree of Forest Homogeneity (FHD) <i>seasonal forest behaviour & homogeneity</i>	
Change in Erosion Risk / Landslide Risk (FER) <i>classification based on land cover & terrain</i>	
Other Landscape Metrics (FLM) <i>GIS-analysis, e.g. compactness, isolation, ...</i>	

Within a **2 YEAR LASTING PROJECT**, this approach will be articulated around two-way collaborations between: (1) project teams of experienced Earth Observation experts, (2) committed user organisations (Early Adopters) representative of the SDG community and interested in developing, testing and adapting innovative EO solutions in relation to their institutional mandate on SDGs, as well as (3) an Advisory Board with experts from FAO as responsible institution and other. The entire process is enabled by the European Space Agency.

Your **BENEFITS AS SDG EARLY ADOPTER** will be:

- Your requirements will influence **INDICATOR DESIGN** and the EO solutions during the User Co-creation phase (i.e., phase 1 of the project).
- We will review and discuss options to tailor your regional/ national forest monitoring strategies
- You are actively involved in the co-creation of the EO solution through an agile development process including participation in several **SDG LIVING LABS**
- You will support the definition and elaboration of the Use Cases, which may showcase your region (phase 2: User Uptake Phase)

To make this project a success story, we ask you to be an active part of this process: facilitate access to existing user data (e.g., national data) that can support the development, production validation, and quality assessment of the EO data products, and the implementation of the Use Cases. We ask you to critically review the EO data products, throughout both phases of the project.

UN SUSTAINABLE DEVELOPMENT GOALS (SDG) aim to assist countries to manage and monitor progress on the 3 key components of sustainable development: economic growth, social inclusion and environmental sustainability.

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Open **EARTH OBSERVATION (EO) SATELLITE IMAGERY**, with its global coverage and high observation frequency, prove essential in reporting important aspects of sustainable development and in particular the environmental dimension of the SDGs. The aim is to contribute to national statistical systems by significantly reducing the monitoring costs with stabilized reporting processes.

Within the **GEO WORK PROGRAMME ACTIVITIES ON SDGS**, the European Space Agency (ESA) supports the development, showcasing and implementation of EO related solution development to increase granularity and precision of SDG indicators and related metrics.

The **FUTURE EO-1** "EO for Sustainable Development Goals" line of activities ~~of the European Space Agency~~ consists of a series of R&D projects that aim at facilitating the uptake of EO solutions into national SDG monitoring frameworks. In partnership with the Food and Agriculture Organization (FAO), the custodian agency of **SDG indicator 15.2.1**, ESA funds the EO for Sustainable Forest Management project to develop and show-case innovative EO approaches for the derivation of indicators on the sustainable management of natural, semi-natural and planted forests, addressing the changes in forest extent and conditions for use in national and global forest assessment.

The **USER-DRIVEN** approach is one of the principal characteristics of this programmatic line, aiming to fund development of high quality and innovative EO data products, methods and tools that respond to priority needs from SDG stakeholders.

Identified and committed Users, the **SDG EARLY ADOPTERS**, are user organisations with direct interest in the novel EO solutions that will be designed and developed during the 2 years of the project.

You are an **EARLY ADOPTER?** – **YOUR BENEFITS** will be:

- Being part of the EO solution co-creation phase – being **INVOLVED IN THE DESIGN**. (2023: User Uptake Phase)
- We will discuss with you the possible regional and national forest **MONITORING STRATEGIES**,
- You will participate in several **SDG LIVING LABS**
- You will support the definition & elaboration of the **USE CASES**, which may showcase your region (2024: User Uptake Phase)

What **WE NEED** to make this a success story:

- Provide **INSIGHT** into SDG-relevant forest monitoring and reporting,
- **SHARE** existing data (e.g., national data) able to support the development, production, validation, and quality assessment
- Provide your **CRITICAL REVIEW** on the EO solution products throughout the project (2 years) and for the Use Cases.

USER CO-CREATION PHASE **USER UPTAKE PHASE**

UN SUSTAINABLE DEVELOPMENT GOALS (SDG) aim to assist countries to manage and monitor progress on the 3 key components of sustainable development: economic growth, social inclusion and environmental sustainability. The UN has established a range of processes for achieving SDGs and monitoring progress, with particular focus to supporting the least developed economies. A solid frame-work of indicators, and hence reliable statistical data, to measure, monitor and report SDGs progress, inform policies and ensure accountability of all stakeholders is needed.

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Identified and committed Users, the **SDG EARLY ADOPTERS**, are involved design and development of the solutions. SDG Early Adopters are user organisations with direct interest in the novel EO solution developed by the project, which foresee a clearly defined use of the output EO products/ solution in their SDG operational prac

Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

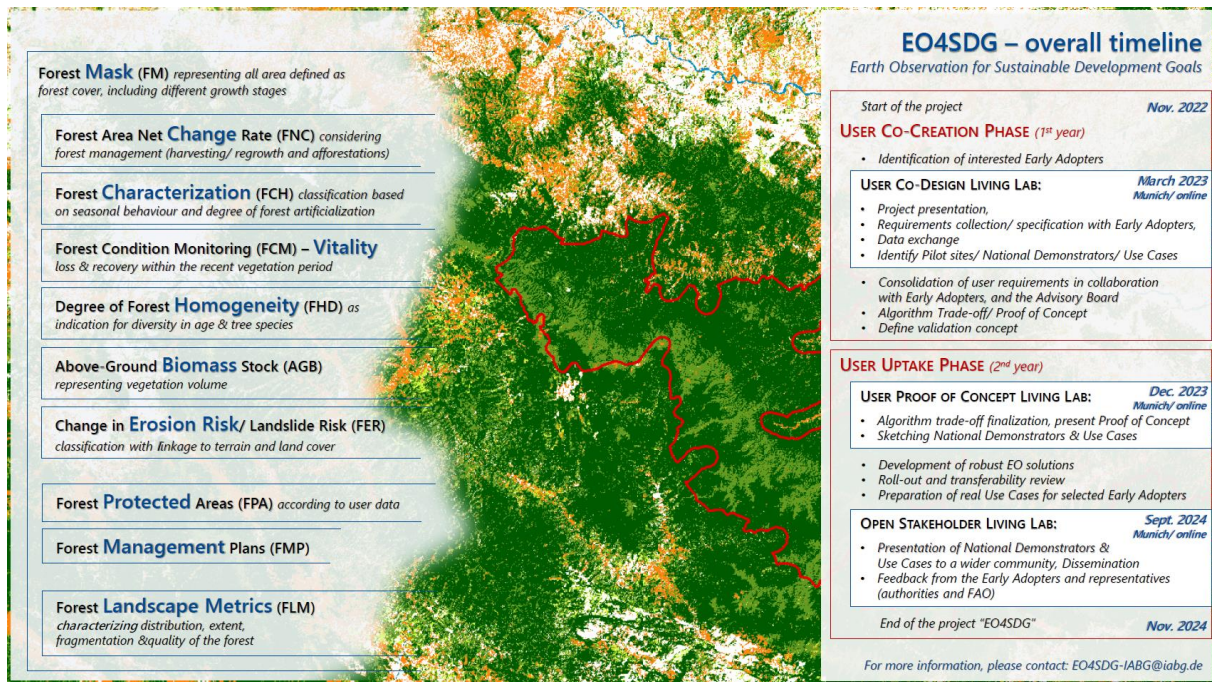
You are an **EARLY ADOPTER?** – **YOUR BENEFITS** will be:

- Being part of the EO solution co-creation phase – being **INVOLVED IN THE DESIGN**. (2023: User Uptake Phase)
- We will discuss possible regional and national forest **MONITORING STRATEGIES** with you,
- You will participate in several **SDG LIVING LABS**
- You will support the definition & elaboration of the **USE CASES**, which may showcase your region (2024: User Uptake Phase)

What **WE NEED** to make this a success story:

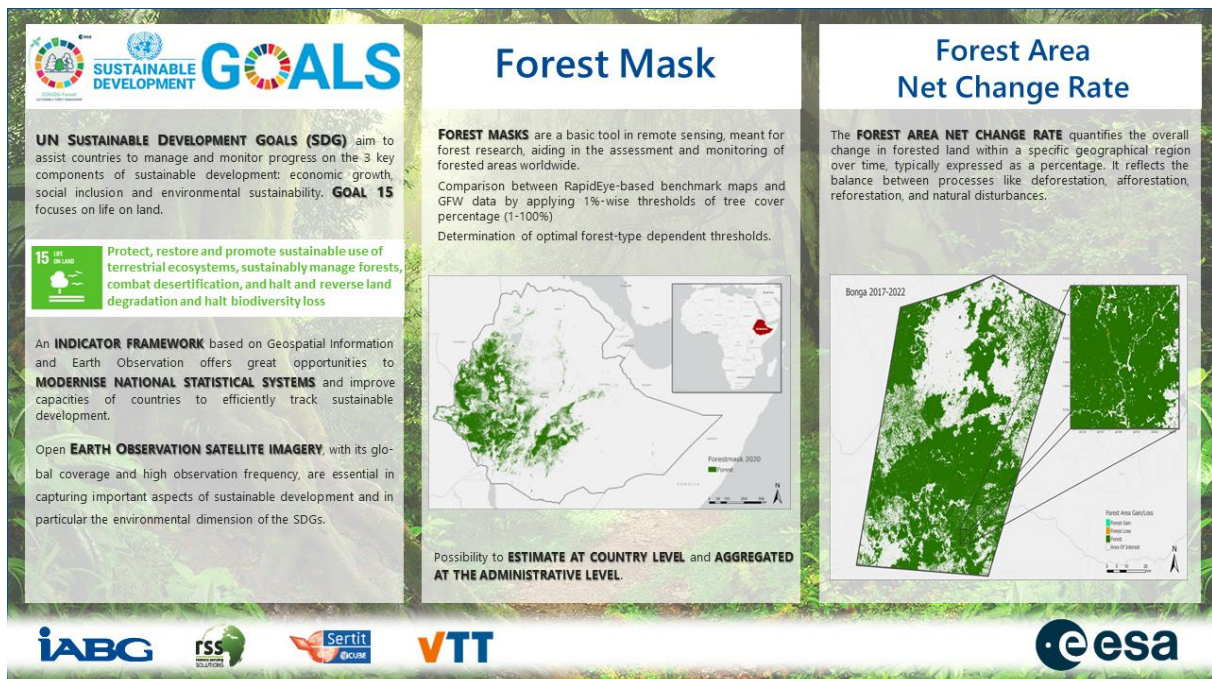
- Provide **INSIGHT** into SDG-relevant forest monitoring and reporting,
- **SHARE** existing data (e.g., national data) able to support the development, production, validation, and quality assessment
- Provide your **CRITICAL REVIEW** on the EO solution products throughout the project (2 years) and for the Use Cases.

EARTH OBSERVATION FOR SDG 15.1/2
Contribution to the National Reporting Chain




3.2 Product Flyers

3.2.1 Forest Mask (LM) & Forest Area Net Change Rate (FNC)



3.2.2 Change in Erosion Risk / Landslide Risk (FER)



UN SUSTAINABLE DEVELOPMENT GOALS (SDG) aim to assist countries to manage and monitor progress on the 3 key components of sustainable development: economic growth, social inclusion and environmental sustainability. **GOAL 15** focuses on life on land.

15 OF LIFE ON LAND Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

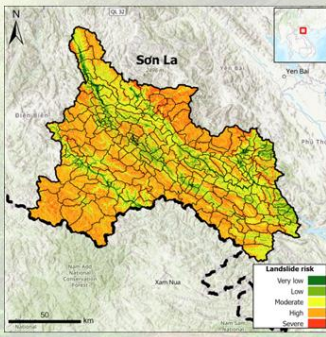
An **INDICATOR FRAMEWORK** based on Geospatial Information and Earth Observation offers great opportunities to **MODERNISE NATIONAL STATISTICAL SYSTEMS** and improve capacities of countries to efficiently track sustainable development.

Open **EARTH OBSERVATION SATELLITE IMAGERY**, with its global coverage and high observation frequency, are essential in capturing important aspects of sustainable development and in particular the environmental dimension of the SDGs.

Erosion And Landslide Risk

SOIL EROSION is a natural process significantly accelerated by deforestation and improper land use changes. The proposed solution provides an assessment of:


- LANDSLIDE SUSCEPTIBILITY** (dimensionless) and the landslide risk (classification into 5 classes, from "Very low" to "Severe"), thanks to the FER/LR product.








Possibility to **ESTIMATE AT COUNTRY LEVEL** and **AGGREGATED AT THE ADMINISTRATIVE LEVEL**.

SOIL EROSION SUSCEPTIBILITY

(mean annual soil loss, in ton/ha/year) and the soil erosion risk (classification into 5 classes, from "Very low" to "Severe"), through the FER/ER product



3.2.3 Landscape Metrics (FLM)



UN SUSTAINABLE DEVELOPMENT GOALS (SDG) aim to assist countries to manage and monitor progress on the 3 key components of sustainable development: economic growth, social inclusion and environmental sustainability. **GOAL 15** focuses on life on land.

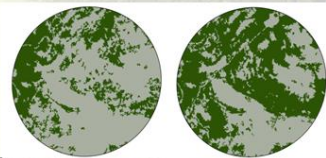
15 OF LIFE ON LAND Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

An **INDICATOR FRAMEWORK** based on Geospatial Information and Earth Observation offers great opportunities to **MODERNISE NATIONAL STATISTICAL SYSTEMS** and improve capacities of countries to efficiently track sustainable development.

Open **EARTH OBSERVATION SATELLITE IMAGERY**, with its global coverage and high observation frequency, are essential in capturing important aspects of sustainable development and in particular the environmental dimension of the SDGs.

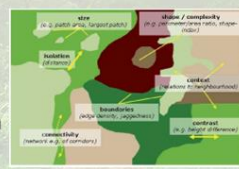
Tracking Landscape Composition Using Landscape Metrics

FOREST LANDSCAPE COMPOSITION is measured and tracked based on classification of forest types.




Different Metrics are calculated

- AREA
- EDGE
- CORE AREA
- SHAPE
- AGGREGATION
- DIVERSITY



Hoeschtetter, Sebastian, Ulrich Walz, Le Hai Quang and Nguyen Xuan Thinh, "Effects of topography and surface roughness in analysis of landscape structure: A proposal to modify the existing set of landscape metrics," Landscape Online 3 (2008): 1-34.

Possibility to **MEASURE HISTORICAL DEVELOPMENT OF LANDSCAPES**




Year	TCA	NTCA	PD	ED	LSI	NND
2011.48	15589.60	0.90	17.28	49.80	9.51	68.93
2011.20	8028.69	0.72	17.28	49.80	9.51	68.93
2011.05	154.65	0.43	17.28	49.80	9.51	68.93
2011.05	154.65	0.43	17.28	49.80	9.51	68.93
2011.05	154.65	0.43	17.28	49.80	9.51	68.93

Ull, Zhifeng, Chunyang He, and Jiaqun Wu, 2016, "Spatial Patterns of Habitat and Corresponding Values of Landscape Metrics with Decreasing Percentages of Habitat in Paddy, as an Example, Derived from Both Historical Landscape Pattern Analysis and Space for Time Analysis," PLOS ONE, doi:10.1371/journal.pone.0154013.g005.

The Metrics are **AGGREGATED AT THE ADMINISTRATIVE LEVEL**









4 Events

4.1 Living Labs

The second Living Lab was held in Munich, Germany with attendance from EA Vietnam. The third living lab was held in Frascati Italy.



4.2 Conferences

4.2.1 Copernicus Netzwerk Büro

Poster shown at the Copernicus Netzwerk Büro 2023.

EO4SDG Forest – Supporting the Reporting Process of the Sustainable Development Goals

Elke Kratzschmar¹, **WIE GEHEN WIR HIER VOR? STRATEGISCHE NAMENSSETZUNG***

(1) IABG, Geospatial Solutions, Hermann-Reichelt-Straße 3, 01109 Dresden

UN SUSTAINABLE DEVELOPMENT GOALS (SDG) aim to assist countries to manage and monitor progress on the 3 key components of sustainable development: economic growth, social inclusion and environmental sustainability.

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EARTH OBSERVATION FOR SDG 15.1/2 15 LIFE ON LAND

PROTECT, RESTORE AND PROMOTE SUSTAINABLE USE OF TERRESTRIAL ECOSYSTEMS, SUSTAINABLY MANAGE FORESTS, COMBAT DESERTIFICATION, AND HALT AND REVERSE LAND DEGRADATION AND HALT BIODIVERSITY LOSS

Open **EARTH OBSERVATION (EO) SATELLITE IMAGERY**, with its global coverage and high observation frequency, prove essential in reporting important aspects of sustainable development and in particular the environmental dimension of the SDGs. The aim is to contribute to national statistical systems by significantly reducing the monitoring costs with stabilized reporting processes.

Within the **GEO WORK PROGRAMME ACTIVITIES ON SDGS**, the European Space Agency (ESA) supports the development, showcasing and implementation of EO related solution development to increase granularity and precision of SDG indicators and related metrics.

The **FUTURE EO-1** "EO for Sustainable Development Goals" line of activities **OF THE EUROPEAN SPACE AGENCY** consists of a series of R&D projects that aim at facilitating the uptake of EO solutions into national SDG monitoring frameworks. In partnership with the Food and Agriculture Organization (FAO), the custodian agency of **SDG INDICATOR 15.2.1**, ESA funds the EO for Sustainable Forest Management project to develop and show-case innovative EO approaches for the derivation of indicators on the sustainable management of natural, semi-natural and planted forests, addressing the changes in forest extent and conditions for use in national and global forest assessment.

REPORTING PROCESS FOR THE GLOBAL FOREST RESOURCES ASSESSMENT (FRA)

COLLABORATORS AND NATIONAL SPECIALISTS → DESIGNATED NATIONAL CORRESPONDENTS → FAO'S CHIEF STATISTICIAN → United Nations STATISTICAL DIVISION

The reporting process for the **GLOBAL FOREST RESOURCES ASSESSMENT (FRA)** relies on contributions of collaborators and specialists providing the information to officially nominated national correspondents, reporting the official national data on forest area to FAO. The data underlines a comprehensive review by FAO and national validation process before being aggregated within country reports, following a standardized FRA reporting format and commonly agreed definitions. Final submission to the United Nations Statistical Division is done by the FAO's chief statisticians. To increase validity of the SDG content, improvement towards more granular indicators is of highest interest.

The **USER-DRIVEN** approach is one of the principal characteristics of this programmatic line, aiming to fund development of high quality and innovative EO data products, methods and tools that respond to priority needs from SDG stakeholders.

Identified and committed Users, the **SDG EARLY ADOPTERS**, are user organisations with direct interest in the novel EO solutions that will be designed and developed during the 2 years of the project. National authorities have the chance to actively participate in the EO solution co-creation phase by providing valuable input for the design of forestry related sub-indicators and metrics. The latter will be rolled out in selected **NATIONAL DEMONSTRATORS** and **USE CASES** to showcase their applicability to countries all over the World. Results will be shown to a wider community within a number of **SDG LIVING LABS**.

For more information, please contact: EO4SDG-IABG@iabg.de
<https://www.linkedin.com/company/ea4sdg-forest/>

Project reference: Earth Observation for SDG Targets and Indicators, Lot-1, Project: SDG 15.2.1
EO Pathfinder: EO for Sustainable Forest Management (ESA Contract No. 4000139583/22/I-DT)

SDG SUB-INDICATORS:

Forest Area Net Change Rate (FNC) SDG 15.2.1

SDG (1)

Consideration of forest management (incl. harvesting/ regrowth/ thinning) + afforestation

Above-Ground Biomass Stock (AGB) SDG (2)

SDG (2)

Biomass according to Vegetation volume

Forest Protected Areas (FPA) SDG (3)

SDG (3)

GIS analysis

Forest Management Plans (FMP) SDG (4)

SDG (4)

GIS analysis

Forest Management Certification Schemes (FCS) SDG (5)

SDG (5)

Review of FAO report using subindicators

SDG ADDITIONAL INDICATORS/ METRICS: SDG 15.**

Forest Characterization (FCH)

= classification based on seasonal forest behaviour + degree of forest artificialization
FCH-DLT & FCH-ART

Forest Condition Monitoring (FCM) – Vitality

= identification of natural/ man-made vitality loss (cut/ thinning/ ...) & recovery

Degree of Forest Homogeneity (FHD)

= classification based on seasonal forest behaviour + tree homogeneity

Change in Erosion Risk / Landslide Risk (FER)

= classification based forest land cover + terrain

Landscape Metrics (FLM)

GIS-analysis in coordination with EA

- Forest fragmentation
- Forest compactness (total forest edge and forest core area)
- Forest isolation

4.2.2 KWF Tagung

Promotional poster shown during a forestry fair in Thuringia 2024.



**EO4SDG-Forest –
UN-Nachhaltigkeitsziel 15:
Leben am Land**

**Kooperation mit internationalen
Akteuren zur Optimierung von
Indikatoren und Berichterstattung**

- Entwicklung geodatenbasierter Lösungen & Prototypischen Diensten für das Wald – Monitoring (Waldzustand, Waldschäden)
- Erstellung von neuen Landschaftsdiversitätsindikatoren
- Ausarbeitung von konkreten Anwendungsfällen (Use Cases)
- Unterstützung von Regierungsagenturen, Nichtregierungsorganisationen und anderen Interessengruppen bei der Berichterstattung
- Wissenstransfer der entwickelten EO-Lösungen und Datenprodukte für eine weltweite Anwendung






The diagram illustrates the EO4SDG-Forest Sustainable Forest Management framework. It features a central circular graphic with 17 colored segments, each representing a different indicator or metric. Surrounding this central graphic are 10 icons, each paired with a specific metric name: Forest Mask, Forest Area Net Change Rate, Above-Ground Biomass Stock, Forest Protected Areas, Forest Management Plans, Forest Characterization, Forest Condition Monitoring, Degree of Forest Homogeneity, Change in Erosion Risk / Landslide Risk, and Landscape Metrics. The central graphic also includes the text 'EO4SDG-Forest' and 'SUSTAINABLE FOREST MANAGEMENT'.

4.2.3 Intergeo

The project was presented at Intergeo 2024



Dr. Jörg Schäfer reposted this

...



Felicitas Bellert • 1st

Erfahrene interdisziplinäre Projektleiterin mit hoher Beratungskompetenz zu Them...
4w • 🌐

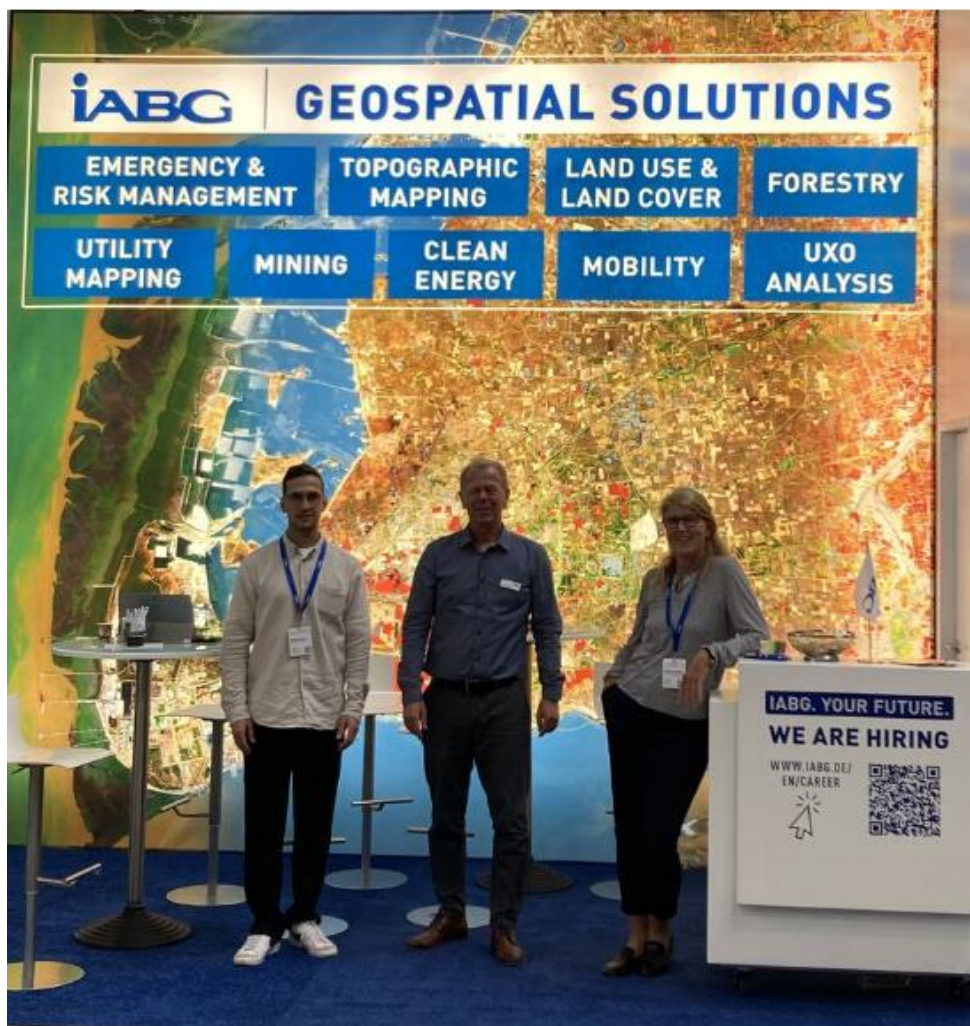
We are looking forward to welcome you at **#IABG** Geospatial Solutions booth at **#INTERGEO** in

Booth F3.034 / 24-26 September 2024

This year's focus topics are

#AI in Earth Observation **#Green** Transition **#Copernicus** **#CEMS** &
#riskmanagement - **#disasterrisk** - **#ESA** **#cleanenergy** - **#forestry** -
#utilitymapping - **#rawmaterials** and uxo analysis.

<https://lnkd.in/dwspZ8pz>



Simone Baier and 71 others

3 comments • 7 reposts

< END OF DOCUMENT >