

# Capacity for Copernicus REDD+ and Forest Monitoring Services



## Stakeholder Workshop

24 – 25 June 2019  
JRC, Italy

### Background

REDD+ aims to address rising anthropogenic GHG emissions by reducing emissions from deforestation and forest degradation, and by increasing removals from sustainable forest management in tropical forests. In Europe, sustainable forest management has the same aims of reducing emissions from forestry activities. A number of initiatives support monitoring of these emissions and removals, including the provision of increasing volumes of satellite data, new method development, and facilitating access to cloud computing. The advent of the European Copernicus Programme's Sentinel data with their high spatial resolution and revisit time at global, regional and national levels provides an unprecedented volume of data for improved forest monitoring which should be exploited by the European science and EO industry communities. A European Commission Horizon 2020 Project has the main aim to implement a co-ordination and consolidation of the existing European Capacity for Earth Observation (EO) based Forest Monitoring with relevant stakeholders, International Agencies, Research Community and Private Sector. A key outcome of the project would then be a proposed framework for a Copernicus REDD+ Service which can make use of the planned Copernicus Data and Information Access Services (C-DIAS) Platform for improving EO data and product accessibility and functionality to end Users – both tropical and European users.

An Expert Stakeholder Workshop is planned to bring together the main stakeholders for a consultative examination on the status of EO FM both internationally and in Europe. The workshop will assess expertise, assets, infrastructures, services and state-of-the-art in technical capacities.

This workshop is held in the framework of the CopernicusREDD+ H2020 project led by GAF. The workshop is organized by Wageningen University and will be hosted by the Joint Research Centre (Ispra site, Italy), both members of the consortium.

For more information on the project, visit our website at [www.reddcopernicus.info](http://www.reddcopernicus.info)

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## Aims of the workshop

- Present the findings of a synthesis of the Policy/Stakeholder Requirements conducted in the project thus far, and gather feedback
- Review European EO based forestry monitoring capacities, including method development, and space-assets and infrastructures
- Gather consensus on REDD+ monitoring to meet national and international policies requirements, including any potential priorities for Copernicus in the context of REDD+
- Based on the above, identify remaining research gaps.

## Target audience

Relevant stakeholders will be invited, with a focus on users of data for REDD+ monitoring and reporting at the national level, REDD+ inventory/review specialists from international organizations, policy makers and NGOs who work at the national or subnational levels. Research partners will also be invited, as well as donors, to provide further insight into user needs, and to highlight European capacities.

## Expected outcomes

The main result from the workshop will be a report in “Inventory of State-of-the-Art Technical Capacities in Europe for Forest Monitoring Capacities and Infrastructure”. This report will capture key stakeholder needs for forest monitoring, identify technical capacities and will highlight key priorities for Copernicus, including remaining research gaps.

## Venue

### European Commission – Joint Research Center

Meeting Room 03  
Via Enrico Fermi, 2749  
I-21027 Ispra (VA) Italia

More information: <https://ec.europa.eu/jrc/en/about/jrc-site/ispra>

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## Agenda

<b>Monday 24 June (first day)</b>		
10:00	Welcome and opening of the workshop	JRC deputy Bioeconomy Unit head (Luisa Marelli)
10:10	Short tour de table – introduction of participants	All participants
10:20	<a href="#">Introduction to the Copernicus Programme and its operational Services</a>	European Commission (Andreas Brink)
10:30	<a href="#">Introduction to the REDDCopernicus project and aims of this workshop</a>	GAF (Thomas Häusler)
10:45	<i>Coffee break</i>	
	<b>Experiences from REDD+, and forest management stakeholders (users):</b>	
11:00	<a href="#">Indonesia</a>	Ministry of Environment and Forestry (Ahmad Basyiruddin Usman)
11:15	<a href="#">Ethiopia</a>	Ethiopian Environment and Forest Commission (Yimer Bizuayehu Alemu)
11:30	<a href="#">Congo Region</a>	USAID/ USFS (Rene Siwe)
11:45	<a href="#">East Africa</a>	East African Science & Technology Commission (EASTECO) (Fortunate Muyambi)
12:00	<a href="#">Mozambique</a>	Mozambique NFMS Focal Point (Joaquim Macuacua)
12:15	<a href="#">Brazil</a>	INPE (Luiz Aragão)
12:30	End of session	
12:40	<i>Lunch</i>	
	<b><u>European technical capacities for forest monitoring activities</u></b>	
13:50	<a href="#">Copernicus Data and Information Access Services (DIAS)</a>	ESA (Frank Martin Seifert)
14:05	<a href="#">Copernicus Sentinel-2 Global Mosaics (S2GM)</a>	S2GM Consortium (Jan Wevers)
14:20	<a href="#">Copernicus High resolution Forest Layers for Europe</a>	GAF (Thomas Häusler)
14:35	<a href="#">Monitoring deforestation and disturbances in tropical humid forests</a>	JRC (Frédéric Achard)
14:50	<a href="#">Copernicus European Forest Fire Information System (EFFIS) &amp; Global Wildfire Information System (GWIS)</a>	JRC (Duarte Oom / Tomas Artes Vivancos)
15:05	<i>Coffee break</i>	

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15:20	<a href="#">Presentation: Findings from REDDCopernicus project on stakeholder needs and monitoring capacities</a>	WU (Martin Herold / Sarah Carter)
15:40	<b><a href="#">Breakout Group Discussion</a></b> <ul style="list-style-type: none"> <li>- Current national forest monitoring frameworks and needs for improvements to meet stakeholder needs</li> <li>- Existing international and European technical capacities</li> </ul>	Group 1  Group 2
17:00	<b>Closing of the meeting day 1</b>	

<b>Tuesday 25 June (second day)</b>		
09:00	<b>Feedback from Breakout Groups in Plenary:</b> <ul style="list-style-type: none"> <li>- Current national forest monitoring frameworks and the need for improvements to meet stakeholder needs</li> <li>- Existing international and European technical capacities</li> </ul>	Group 1  Group 2
10:25	<a href="#">Introduction to second breakout session: how to scope a Copernicus Service Component to support REDD+ and wider forest management needs?</a>	JRC
10:30	<i>Coffee break</i>	
11:00	<b>Breakout Groups:</b> <ul style="list-style-type: none"> <li>- Scoping of a Copernicus Service Component to support REDD+ and wider forest management needs</li> <li>- Gaps and R&amp;D needs for a future Copernicus Service for REDD+ and wider forest management needs</li> </ul>	Group 1  Group 2
12:30	<i>Lunch</i>	
13:30	<b>Discussion:</b> Conclusions from breakout groups <i>(coffee break at 15:00)</i>	Consortium
16:30	Closing of the meeting	

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## List of participants

ACHARD Frederic	Joint Research Centre
ARAGAO Luiz	National Institute for Space Research, Brazil
ARTES VIVANCOS Tomas	Joint Research Centre
BEUCHLE Rene	Joint Research Centre
BRINK Andreas	Joint Research Centre
CARTER Sarah	Wageningen University
EVA Hugh	Joint Research Centre
FORTUNATE Muyambi	East Africa Science and Technology Commission
GOMEZ Sharon	GAF AG
HAEUSLER Thomas	GAF AG
HAGEN Evie	Norwegian Space Agency
HEROLD Martin	Wageningen University
HUGÉ Justine	SIRS
HÄME Tuomas	VTT Technical Research Centre of Finland Ltd.
JACOME FELIX OOM Duarte	Joint Research Centre
JANOUSKOVA Klara	JRC
JONCKHEERE Inge	FAO of the UN
KORTELAINEN Kimmo	Tornator Oyj
LANGNER Andreas	Joint Research Centre
MACUACUA Joaquim	National Directorate of Forestry, Mozambique
MERTENS Benoit	IRD
MIETTINEN Jukka	VTT Technical Research Centre of Finland Ltd.
NAVRATIL Peter	GAF AG
PINET Camille	IGN FI
SANNIER Christophe	SIRS
SEIFERT Frank Martin	European Space Agency (ESA)
SIWE NGAMABOU Rene	United States Forest Service
SMETS Bruno	VITO
STIBIG Hans-Jurgen	Joint Research Centre
USMAN Ahmad Basyiruddin	The Ministry of Environment and Forestry, Indonesia
VAN DER LINDEN Marco	World Bank
WEISSE Mikaela	World Resources Institute
WEVERS Jan	Brockmann Consult GmbH
YIMER Bizuayehu	Federal Democratic Republic of Ethiopia

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