

# Innovative Prototypes and Methods

EvoLand is developing and testing new and innovative methods to roll out 11 candidate prototypes in support of the evolution of the Copernicus Land Monitoring Service (**CLMS**).

EvoLand has **open science practices** at its core: it will provide open access to all datasets, algorithms, processing lines and scientific publications produced.

## Forest

- Continuous Forest Monitoring (C1)
- Forest Disturbance Mapping (C2)
- Forest Biomass Mapping (C3)

## Agriculture

- Cover Crop Type Mapping (C4)
- Cropland / Grassland Gross Primary Production Monitoring (C5)
- Small Landscape Features Mapping (C6)

## Water

- Improved Water Bodies Mapping (C7)

## Urban

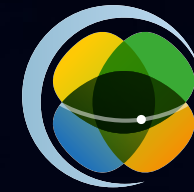
- Continuous Imperviousness Monitoring (C8)
- Automated Land Use Mapping of Urban Dynamics (C9)

## General Land Cover

- Continuous Mapping of Land Surface Characteristics (C10)
- On-demand Land Cover Mapping (C11)

# EvoLand team

EvoLand brings together a unique consortium of 10 partners from 5 European countries providing all the professional knowledge required for the successful achievement of the ambitious project goals and objectives.



**EvoLand**  
LAND MONITORING EVOLUTION

IMPROVING THE EFFICIENCY,  
QUALITY AND TIMELINESS OF  
LAND MONITORING

## MEET THE PARTNERS



Coordinator  
remotesensing.vito.be



cls.fr



iiasa.ac.at



cesbio.cnrs.fr



dlr.de



joanneum.at



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# Stakeholders

- **Copernicus Land Monitoring Service (CLMS)**  
In general and the institutions implementing it: European Environment Agency (European component), DG Joint Research Centre of the European Commission (Global component)
- **Policymakers:** European Commission (DG ENVI, DG CLIMA, DG AGRI, DG REGIO etc.), Regional and national governments (EU countries and beyond)
- **CLMS users,** Scientific R&D community, NGOs, general public, other public and private entities

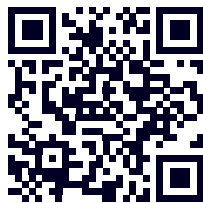
# Project identity

Evolution of the Copernicus Land Service portfolio integrating novel EO data and latest machine learning algorithms to continuously monitor the status, dynamics and biomass of the land surface

- Grant Agreement No: 101082130
- Start: 1 January 2023
- Duration: 3 years
- Budget: €4 999 531.26

# Let's keep in touch

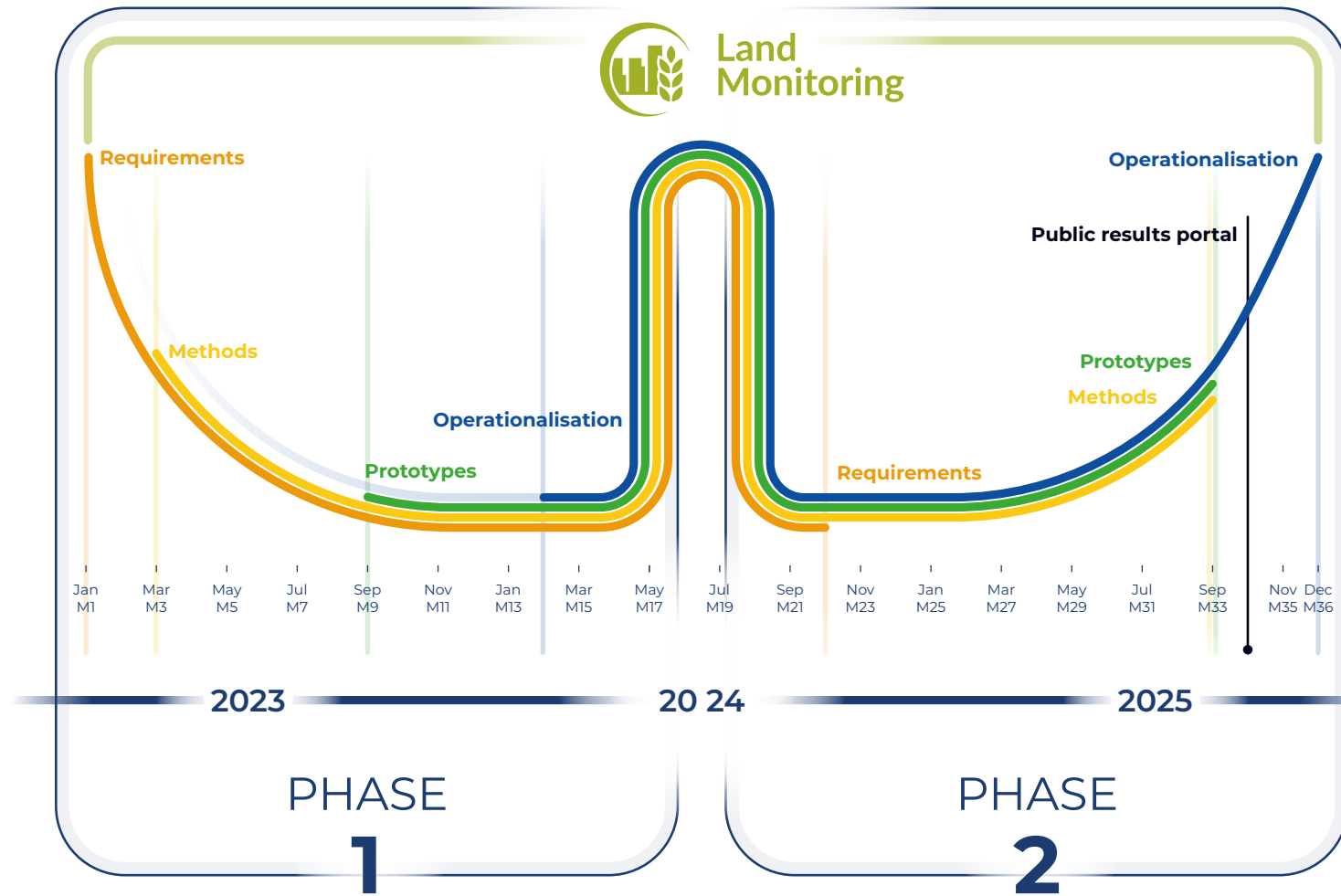
contact@evo-land.eu  
evo-land.eu



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# The EvoLand concept



## Requirements

- User needs & Policy

- EO & in-situ/ancillary data
- Infrastructure

## Methods

- Novel EO data
- Data fusion
- AI

- Novel IT
- Biomass mapping
- Novel in-situ data
- Continuous monitoring

## Prototypes

- Agriculture
- Forest

- General land cover
- Urban
- Water

## Operationalisation

- Stakeholder consultation
- Service roll-out analysis