



**EvoLand**

LAND MONITORING EVOLUTION



# **EvoLand at a Glance**

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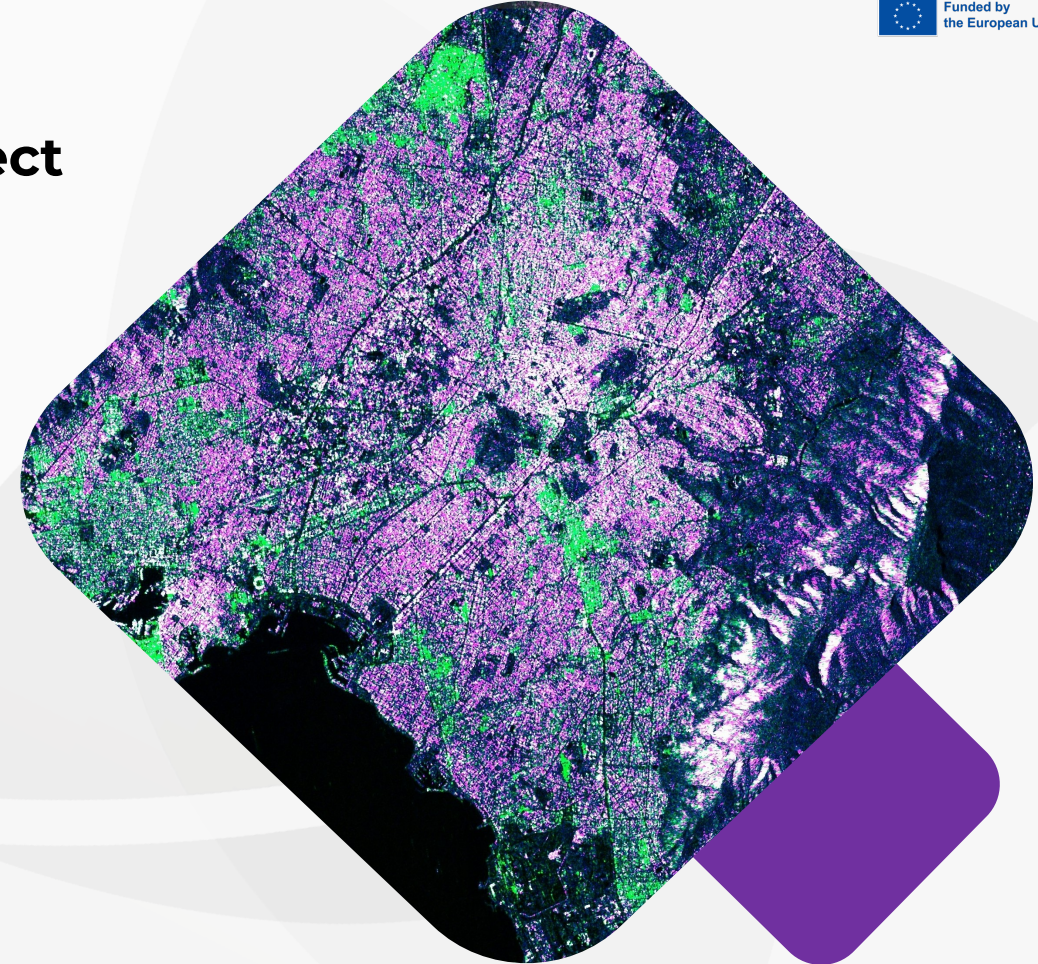
# EvoLand Key Facts



EvoLand



- 36 months (2023-2025) long **Horizon Europe project**
- **Enhance quality & efficiency** of the CLMS
- Development of **new products chains**
- **Preserve continuity**
- Keep the service **modern and attractive**
- To respond to **European policy needs**





EvoLand



# A unique consortium of experts in:

- Remote sensing
- Operational processing
- Machine Learning
- Novel EO/in-situ/IT
- Science communication
- User engagement

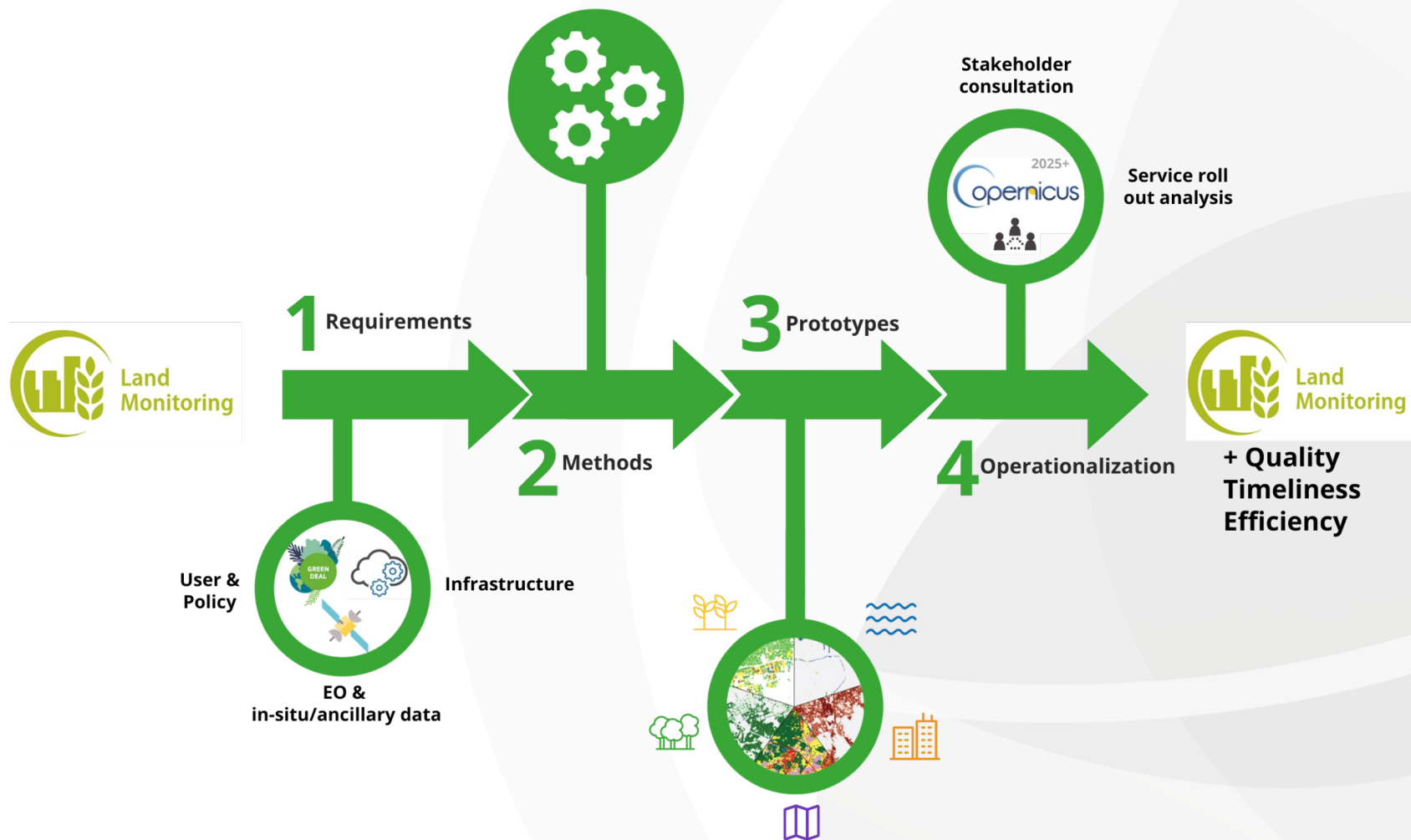




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# EvoLand at a Glance

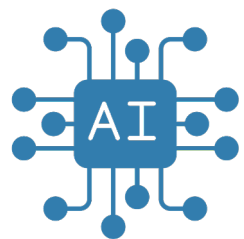


# Methods Overview



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**Artificial intelligence**



**Biomass mapping**



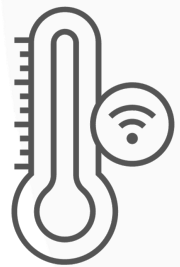
**Novel EO data**



**Data fusion**



**Novel IT**



**Novel in-situ data**



**Continuous monitoring**



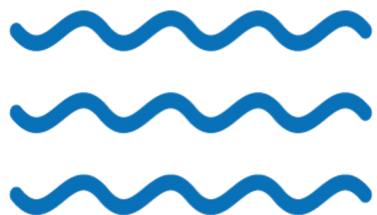


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# Prototypes

## Water



- Improved water bodies mapping

## Urban



- Continuous imperviousness monitoring
- Automated land use mapping

## General Land Cover



- On-demand land cover mapping
- Continuous mapping of land surface categories

## Agriculture



- Cover crop type mapping
- Cropland/grassland GPP monitoring
- Small landscape features mapping

## Forest



- Continuous Forest Monitoring
- Forest Disturbance Mapping
- Forest Biomass Mapping

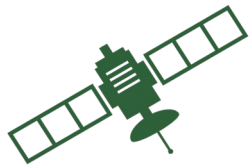


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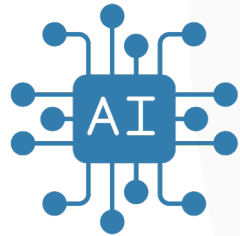
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# Example of a prototype and method

Finer spatial resolution for **improved water mapping** by means of novel EO-data and super resolution.



Novel EO  
data



Artificial  
Intelligence



Improve water  
mapping



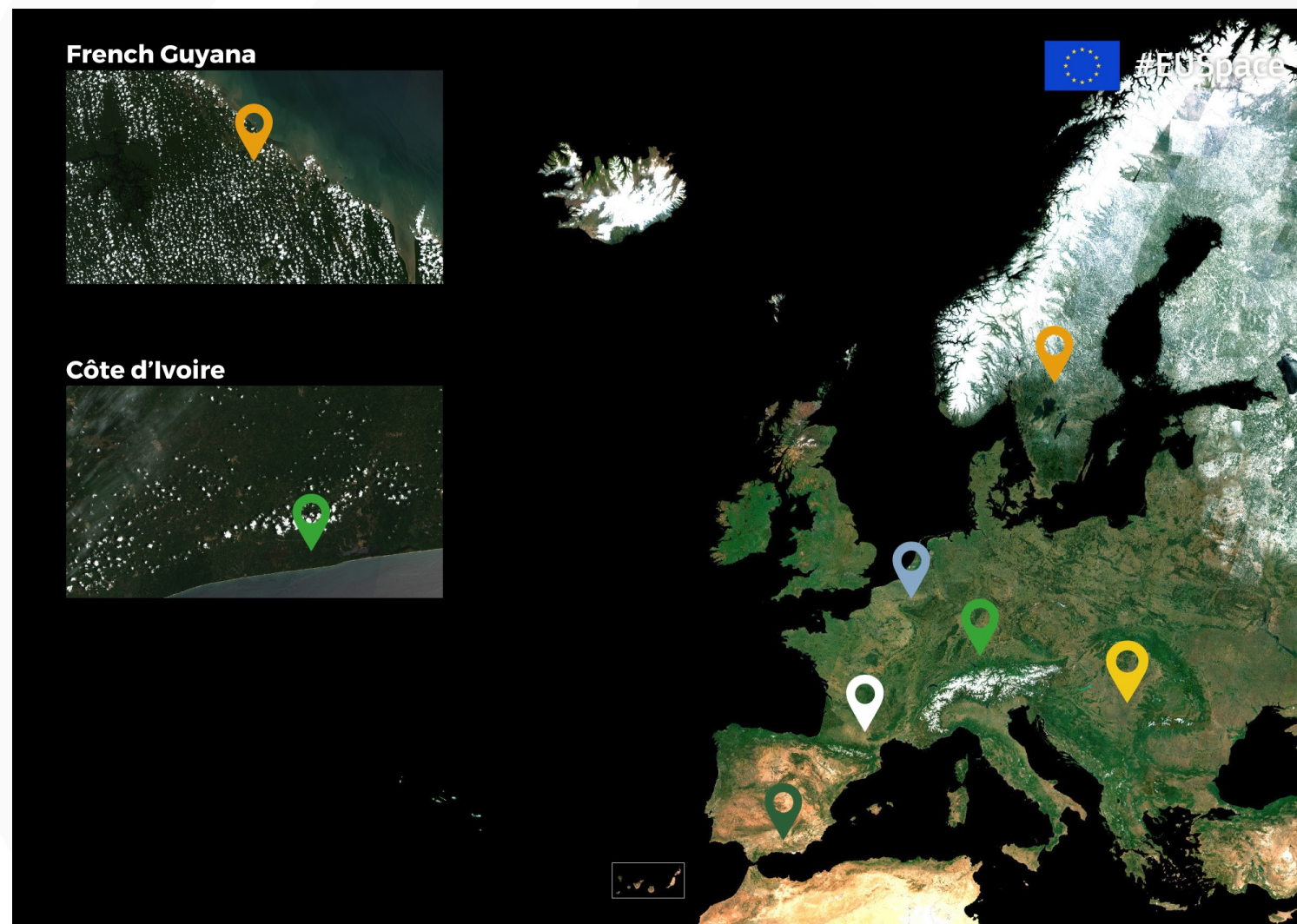


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# Prototype testing sites

The methods and algorithms developed will be **demonstrated** and **assessed** on test sites located both within and outside Europe.





# Be part of EvoLand!



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EvoLand (CLMS)



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# THANK YOU!

Any questions?

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