

# MISLAND

## MONITORING INTEGRATED SERVICES FOR LAND DEGRADATION



### North-Africa Consortium needs

#### Needs

How much forest area is lost due to forest fires?

Where are my land degradation hotspots?

Where are my vegetation loss /gain hotspots?

Are we achieving land degradation neutrality?

Can we monitor urban extension over agricultural lands?

How does my forest evolve over time?  
Risk? Vulnerability?

Capitalization of experiences in North-Africa with respect to land degradation monitoring

End-users needs assessment (national studies, meetings, etc.)

North-Africa specific context (climate, vegetation, etc.)

- SDG 15.3.1 Indicator (land degradation neutrality) according to UNCCD guidelines
- Kit of Indicators to support and complement SDG 15.3.1 indicator
- Integration of high resolution datasets (Landsat 30m and Sentinel-2 10m) to capture a more accurate picture of land degradation / restoration



Access link:  
<http://misland.oss-online.org>

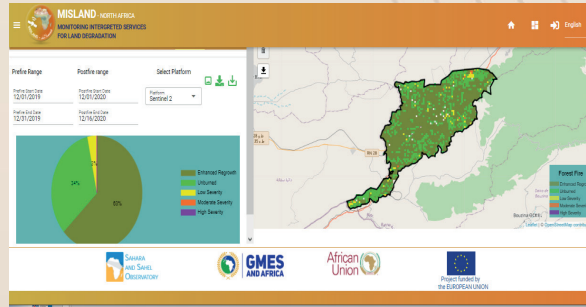
# Answers provided by the MISLAND platform

[www.misland.oss-online.org](http://www.misland.oss-online.org)

Vulnerability to desertification (MEDALUS)

Forest fire risk assessment

Assessment of land susceptibility to wind and water erosion



Assessment of forest carbon emissions

Evolution of forest cover

Vegetation loss/gain trends

Burnt areas quantification

Assessment of coastal erosion

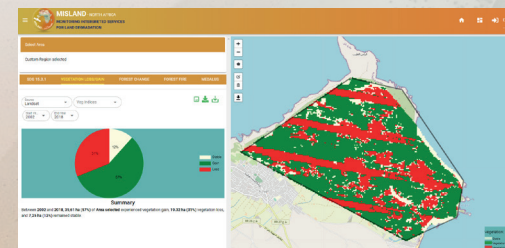
+ Intensified trainings on the MISLAND use  
(+ 12 sessions + 1 000 trained)

## MISLAND ADDED-VALUE - NORTH AFRICA

- Disseminates simplified information for decision making, and customizable resources for technical experts
- Guides policies and decisions (design/implementation) in North-Africa and monitors SDGs (especially 15.3.1)
- Integrates Kit of indicators for land degradation / restoration assessment, suitable for the North-Africa context
- Integrates high spatial resolution data (10m, 30m)
- Dynamic feedbacks from end-users : iterative loops for MISLAND operationalization and ownership
- Involves the Joint Research Commission (European Commission) in algorithms reviewing and optimization, training kit (video recording of sessions, online training materials, etc.)



Optimised access via various tools



Intuitive, interactive and easy to use

