



Food and Agriculture  
Organization of the  
United Nations

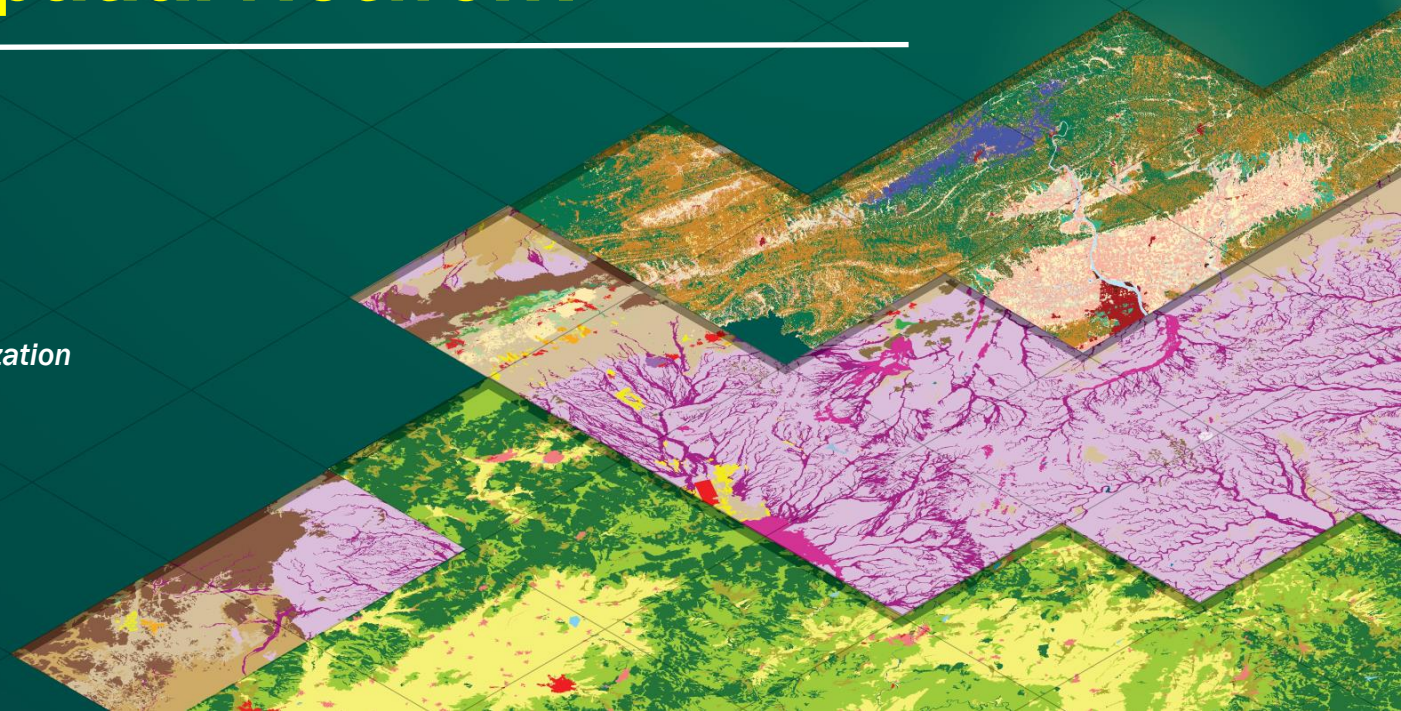
# FAO and Collaborators – UN Geospatial Network

---

*Douglas Muchoney  
Matieu Henry*

*Geospatial Unit  
Land and Water Division  
Food and Agriculture Organization*

*01 August 2022*



# Collaboration is the Key



Food and Agriculture  
Organization of the  
United Nations

**PUBLICATION LAUNCH**

## West African Land Cover Reference System

**TUESDAY 26 JULY | 14:00 - 16:00 CEST**

The banner features a background image of a savanna landscape with a tent. On the right side, there is a 3D rendering of the book cover for the 'West African Land Cover Reference System'. The cover is dark green and features a colorful map of West Africa with various land cover types represented by different colors. The text on the cover includes the FAO logo and the title 'West African Land Cover Reference System'.

# UN-GGIM: 14 Fundamental Geospatial Data Themes



Global Geodetic Reference Frame



Addresses



Buildings and Settlements



Elevation and Depth



Functional Areas



Geographical Names



Geology and Soils



Land Cover and Use



Land Parcels



Orthoimagery



Physical Infrastructure



Population Distribution



Transport Networks



Water



# Land cover monitoring for different purposes/sectors



**WATER**  
Water resources / quality  
Land + water use pattern

**CLIMATE**  
Land change / GHG emissions  
Water + energy exchanges

**WEATHER**  
Land surface climate interactions  
Vegetation characteristics

**ENERGY**  
Bio-energy / biomass  
Wind / hydro power assessments

**ECOSYSTEMS**  
Change environment conditions  
Services + accounting

**HEALTH**  
Land change / diseases  
Vectors / boundary conditions

**AGRICULTURE**  
Cultivation pattern + forestry  
Land degradations

**DISASTERS**  
Fire monitoring  
Land degradation assessments

**BIODIVERSITY**  
Ecosystem characteristics  
Habitats + fragmentation

# Various international frameworks which require terrestrial Earth observation and land cover



PARIS2015  
LEU WITH CLIMATE CHANGE  
COP21-CMP11



Convention on  
Biological Diversity



United Nations  
Statistics Division



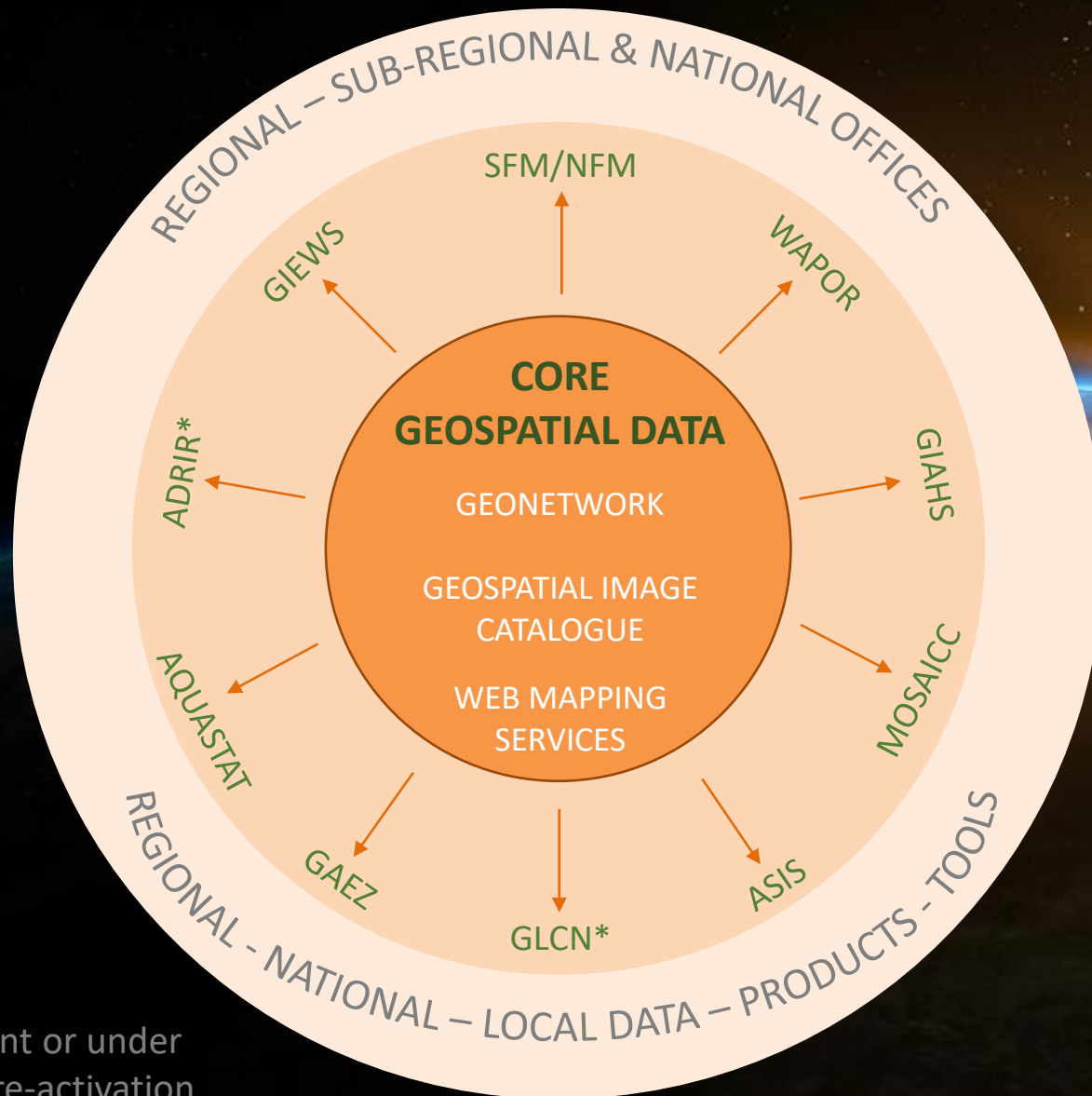
United Nations  
Framework Convention on  
Climate Change



United Nations  
Convention to Combat  
Desertification



# GEOSPATIAL PLATFORMS, TOOLS & DATA



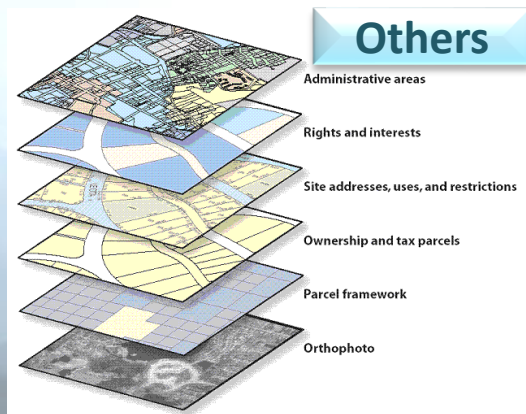
\* Under development or under consideration for re-activation



# Land cover and the SDGs



(+)



# Supporting documents

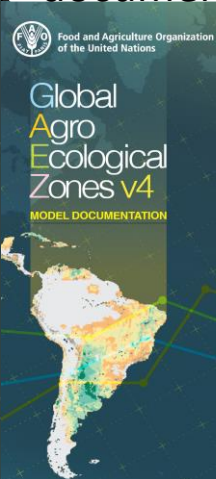
## GAEZ v4 Web-platform



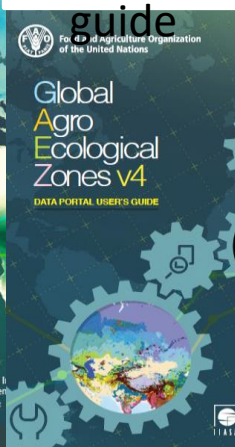
## Hand-in-Hand initiative Geospatial platform



## Model documentation



## User guide



## Brochure



## User cases



## Video





*Thank you!*



Douglas Muchoney: [douglas.muchoney@fao.org](mailto:douglas.muchoney@fao.org)  
[www.fao.org/geospatial/en/](http://www.fao.org/geospatial/en/)