### Integrating Earth Observations into the Formulation and Implementation of

# **National Adaptation Plans:**

# **Agriculture and Food Security**



Climate change, increased disaster risk and unsustainable practices have huge implications on food security particularly in the lowand middle-income regions.

National Adaptation Plans (NAPs) provide a means for countries to identify and implement adaptation measures, including in agriculture. Beyond adaptation, NAPs involve co-benefits to help achieve Paris Agreement goals for mitigation, the Sustainable Development Goals, and disaster risk reduction objectives.

Established in 2001 under the United Nations Framework Convention on Climate Change (UNFCCC), the Least Developed Countries Expert Group (LEG) provides technical guidance and support for implementing the Convention and the Paris Agreement.

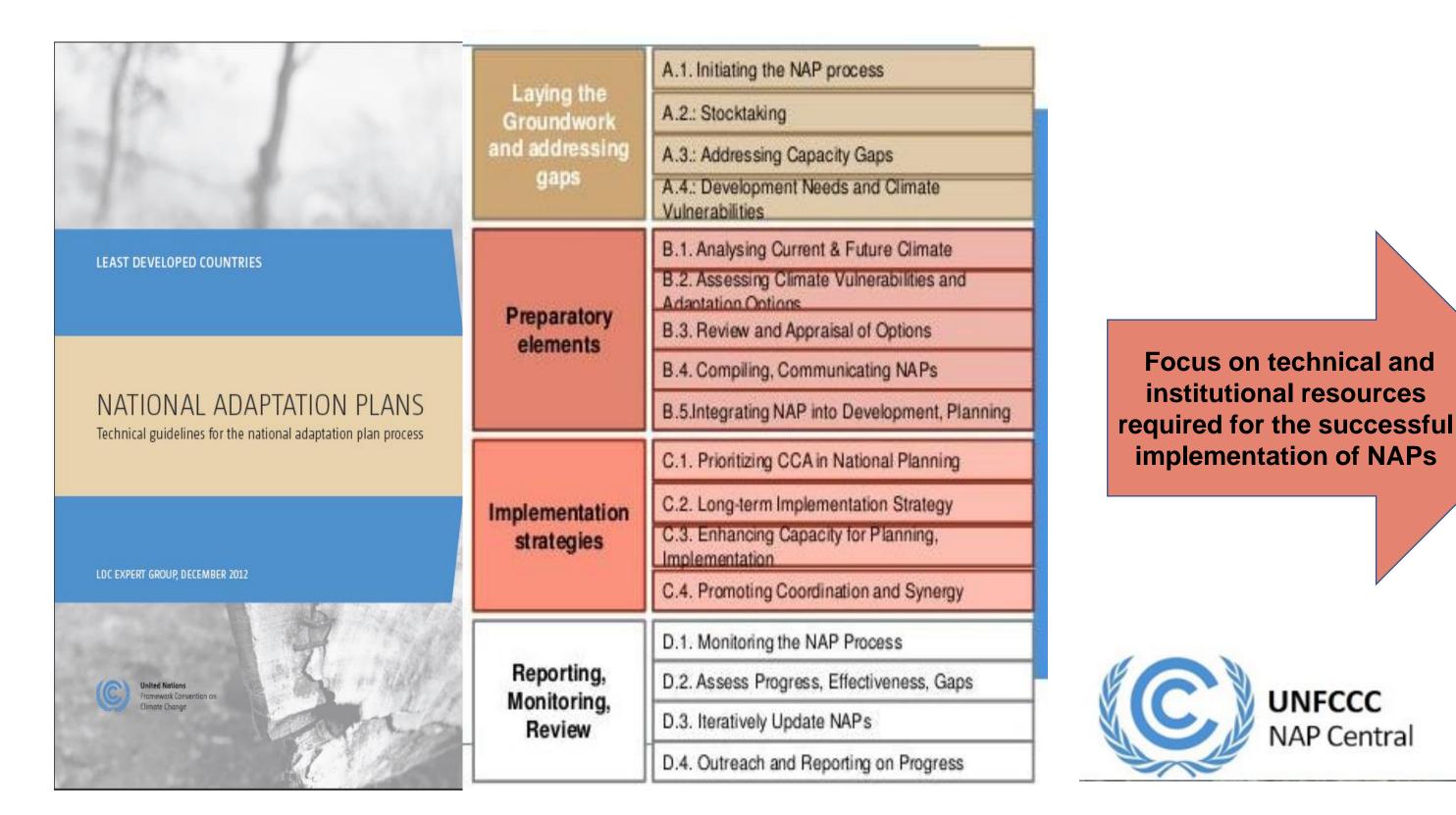
**GEDGLAM** 

**Global Agricultural Monitoring** 

"The focus on agriculture and crop monitors is particularly timely given the importance of food systems in NAPs, and the potential that this offers in meeting the Secretary General's call for access to early warning systems by all by 2025.

The technical details in this supplement will be useful to the countries as they envision implementation of their NAPs including through relevant programmes under the Green Climate Fund, and other channels, related to food systems and climate information and early warning systems"

New 2022 GEO Supplement to the UNFCCC NAP Technical Guidelines provides practical approaches to drive the implementation of NAPs based on the work of the GEO Global Agricultural Monitoring (GEOGLAM) initiative

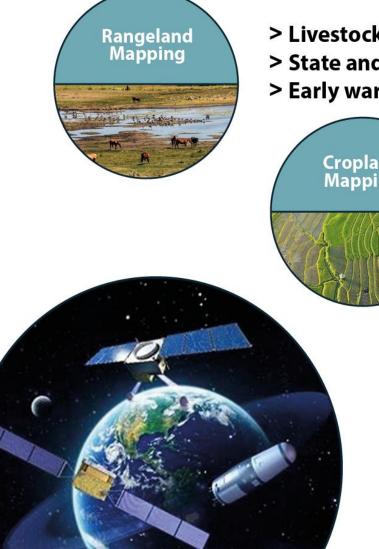






Integrating Earth Observations into the Formulation and Implementation of National Adaptation Plans: Agriculture and Food Security

#### Earth Observations support agriculture adaptation with timely and accurate information for food security programs and policies



> Livestock production potential
 > State and changes in land used for livestock production
 > Early warning for food security

Crop Type Mapping

> Food production potential
> State and changes in land used for food production

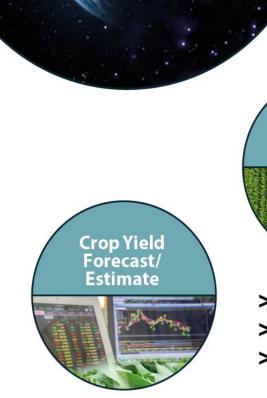
> Crop production potential
 > State and changes in land used for food production
 > Farm support programs
 > Greenhouse gas reporting

> Food production estimation

**GEO Supplement to the UNFCCC NAP Technical Guidelines** 



Key steps needed to establish a National Agriculture Monitoring System based on



**Crop Condition** 

Assessment



> Early warning for food security
 > Crop pest and disease surveillance
 > Inform markets and trade
 > Targeting mitigation measures

> Early warning for food security
> Inform markets, trade and humanitarian activities
> Targeting potential mitigation measures

Earth Observation Application

**Policy Application** 

Countries can access GEOGLAM for technical assistance and capacity development Contact: geoglam@geosec.org

#### Earth Observations:

Establish the institutional framework
 Establish the technical framework
 Accessing capacity (co-)development
 Accessing financial support



GLOBAL AGRICULTURAL MONITORING

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Official Development Assistance (ODA)