

EO 4 Ecosystem Accounting 2022



Land Account SENEGAL

Ndeye Khoudia Laye SEYE
National Agency of Statistics and Demography

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ECONOMIC AND ENVIRONMENTAL ACCOUNTING FOR EVIDENCE-BASED POLICY IN SENEGAL:

Aim: Remove the technical and institutional obstacles relating to the establishment of economic and environmental accounts at the national level.

MAIN ACTIVITIES

- Capacity building
- Development of a national plan for the advancement of environmental economic accounting
- Compilation of SEEA accounts



In 2021-2022, the land cover account of Senegal 2010-2015 was compiled

1. ESTABLISHMENT OF A TECHNICAL COMITEE

- National Agency of Statistics and Demography (ANSD);
- Department of Planning and Environmental Monitoring (DPVE);
- Department of Water and Forests, Hunting and Soil Conservation (DEFCCS);
- Ecological Monitoring Center (CSE);
- National Agency for Spatial Planning (ANAT);
- Department of Water Resources Management and Planning (DGPRE);
- Institute of Environmental Sciences (ISE)

2. CAPACITY BUILDING AND WORKSHOPS

- Training workshop on the **ARIES for SEEA Explorer tool** from August 24 to 25, 2021;
- 4 internal technical working meeting on the harmonization of the national classification to be retained, on October 12 to October 27, 2021;
- Workshop for the build of the land account from 08 to 12 November 2021;
- Online capacity building sessions on the ARIES for SEEA Explorer tool, every Thursday over the period from February to April 2022;
- Land cover account report consolidation workshop, July 25-27, 2022

3. DATA SOURCES

Two land cover maps produced by different operators (ANAT 2010, CSE 2015)

Year	2010	2015
Structure	ANAT	CSE
Resolution	30m	30m
Land cover classes	13	24
Period	November-December	November-December
Image	Landstat, Sentinel-2	Landstat 8
Field check	No	Yes
Source for classification	Occ_sol_FAO 1984, REP-SAHEL, CSE	Yangambi nomenclature, topographic maps

4. HARMONIZATION OF LAND COVER CLASSES

1. Adoption of a national nomenclature based on the CSE nomenclature that was field check and adapted to the need of Aries: **19 classes**
2. Disaggregation of ANAT's nomenclature
3. Correction of topologic and geometrics errors on the maps
4. Implementation in ARIES

5. Consistency of the results

Difficulties: Missing data in some pixels, Different spatial context boundaries between 2010-2015, unlikely transitions

- Working with the UNSD expert to correct inconsistencies
- Analysis of some unlikely transitions with the technical committee
- Implementation in ARIES and compilation of the results and SDG 15.1.1



- Year 2023: Implementation of the **ecosystem extent account**

MAJOR STEPS:

1. Definition of ecosystems at national level
 2. Use of the land cover account
 3. Implementation in ARIES
- Study case: Carbone account
 - National plan for implementing the SEEA-EA in Senegal

THANK YOU FOR YOUR ATTENTION

Ndeye Khoudia Laye SEYE
National Agency of statistics and demography
(ANSD)
+221 77 317 80
khoudia.seye@ansd.sn
SENEGAL