



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 economic and environmental accounting
- Compilation of SEEA accounts







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)















METHODOLOGY



2. CAPACITY BUILDING AND WORKSHOPS

- Training workshop on the ARIES for SEEA Explorer tool, August 24 to 25, 2021
- 4 technical work meeting to harmonize the classification,
 October 12 to 27, 2021
- Workshop for the build of the land account, November 08 to 12, 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





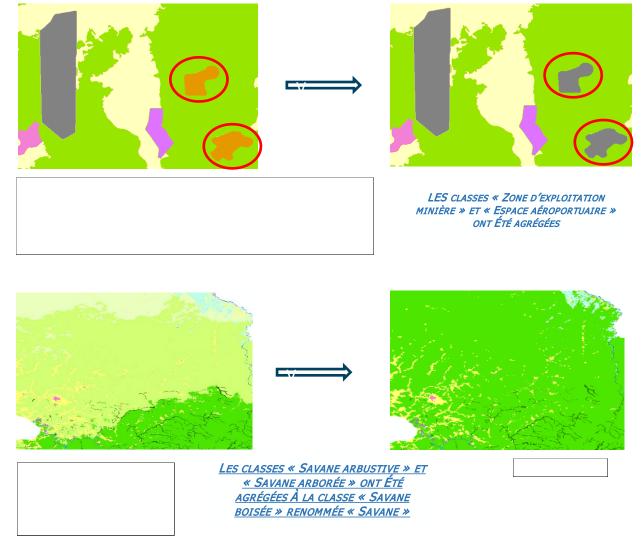
3. DATA SOURCES

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 oli
Field check	No	Yes
Source for classification	Occ_sol_FAO 1984, REP-SAHEL, CSE	Yangambi nomenclature, topographic maps

4. HARMONIZATION OF LAND COVER CLASSES

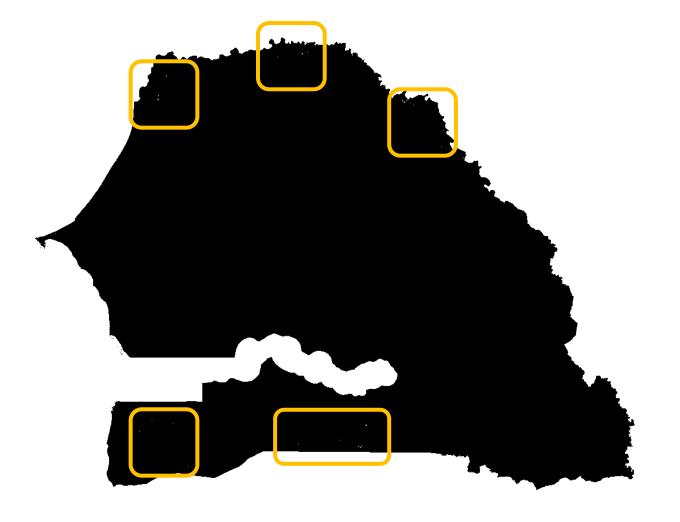
- Adoption of a national nomenclature based on the CSE nomenclature that was field check and adapted to the need of ARIES: 19 classes
- Correction of geometric deviation
- Implementation in ARIES



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 unlikely transitions with the technical committee
- Implementation in ARIES and compilation of the results and SDG 15.1.1

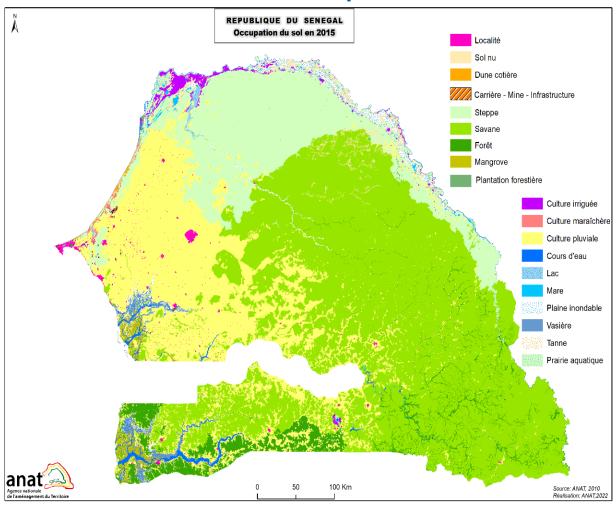




Harmonized land cover class

Category	Classes	
Artificial surfaces	Urban	
Altificial Sulfaces	Industrial commercial transport	
Bare area	Beach dune and sand	
Darc area	Bare area	
	Non irrigated arable land	
Cultivated area	Permanently irrigated arable land	
	Legume arable land	
	Open deciduous broadleaf forest	
	Closed savanna	
Wooded area	Open savanna	
	Sparse vegetation	
	Mangrove	
	Permanent cropland	
	Watercourse	
	Still water body	
Water region	Seasonal water body	
	Inland wetland	
	Intertidal flat	
	Vegetated still water body	

Land cover map 2015



NEXT STEPS



- Year 2023: Implementation of the ecosystem extent account

MAJOR STEPS:

- 1. Definition of ecosystems types at national level
- 2. Use of the land cover account
- 3. Implementation in ARIES
- Study case: Carbon account
- Validation of the National plan for the advancement and promotion of economic and environmental accounting in Senegal



THANK YOU FOR YOUR ATTENTION

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SENEGAL

LAND COVER MAPS



