



# ***First Africa Drylands Week: Towards a global vision and partnership on the Sustainable Land and Climate Risk Management for the Sahara and Sahel Initiative***



**Mandate (rem.): Targeted research to contribute to development and poverty alleviation, in line with MDG, Partnership as a modus operandi, Africa a Priority**

**Revamped strategy > 6 Priority Lines of Research as a CIRAD & scient partnership framework**

- **Ecological intensification (env services, AF, CA...)**
- **Biomass energy**
- **Food (accessible, safe and varied food supplies)**
- **Animal health and emerging diseases (eg. transfronteer diseases in West Africa)**
- **Public policy – including land tenure (reducing inequality, alleviating poverty)**
- **Rural areas (relationships between Nature & Society, Conservation and Production)**

**Implementation > concentrating efforts on the long run through Research Platforms and networks of regional dimension > + 20 Research Platforms, cobuilt in Partnership - of which, in W Africa**

- **Pôle Pastoral Zones Sèches (PPZS): Sénégal & sub-region (Sahel) : BF, Mali, Tchad...**
- **Intensification écologique et conception des innovations dans les systèmes agro-sylvo-pastoraux de l'Afrique de l'Ouest (ASAP): Burkina & sub-region (Sahelo-soud. Zone)**
- **Système d'information spatialisé, territoires et observatoires en Afrique de l'Ouest (SISTO) : Burkina, Mali, Sénégal & sub-region + CILSS/Agrhymet**
- **Diversification des systèmes de culture et gestion agro-écologique des bio-agresseurs en Afrique de l'Ouest (DIVECOSYS) : Bénin, B Faso, Mali, Niger, Sénégal + CORAF**



Pôle  
Pastoral  
Zones  
Sèches



## PPZS, a Research Platform on Pastoralism

### Objectives

- Understand and act for the Development of pastoralism systems and their integration in national economies
- More specifically : how pastoral communities adapt to climatic changes? demographic pressure, decentralization process & economic libéralization?

### Main partnerships

- Regional Platform, located in Dakar, federating Agricultural and Environmental Research Centres & Universities in Sénégal (research & education/cap. building)
- CILSS/Agrhymet, CIRDES-Burkina Faso, CNERV-Mauritanie, LVZ-Tchad, notably, trough a large portfolio of projects



Pôle  
Pastoral  
Zones  
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## PPZS, a Research Platform on Pastoralism

### Some major domains of studies and projects on pastoralism

- Vulnerability & resilience of ecosystems and pastoral communities to climate change in Dryland Africa (ANR ECLIS/French Aid)
- Diagnostic and Monitoring on vulnerability of pastoral ecosystems through Information Systems/SIG (SIPSA, FAO/Fonds français)
- Mobility and Development in Arid Zones: Interactions Livestock-Man-Territories in the context of ecological intensification (ANR MOUVE/Fr Aid)
- Integration of Mitigation and Adaptation options for sustainable Livestock production under climate change (Animal Change, EU Funds)
- Popularization of feed techniques/ complementation to improve milk production in dry season in ZSP of Senegal (FNRA Funds)

## **Some important projects related to Agroforestry, Environmental services and Integrated management of NR**

- ACACIAGUM EU Project « Innovative management of Acacia Senegal trees to improve resource productivity and gum arabic production in arid and semi-arid sub-Saharan Africa”
- FUNCITREE EU Project: “Functional diversity : an ecological framework for sustainable adaptable agro-forestry systems in landscapes of semi-arid and arid eco regions”
- INNOVKAR EU Project “Innovative tools and Techniques for Sustainable use of the Shea Tree (karité) in Sudano-Sahelian zone”
- ESCAPE Project « Environmental and Social Changes in Africa : past, present and future » (ANR/Fr Aid)
- EMPRES/FAO +FFEM : Traitement environnemental de la lutte anti acridienne en Afrique de l’Ouest et du Nord Ouest /amélioration de la prévention et de la gestion des crises acridiennes (locust fight)
- CASCADE Project : Carbon Credits for Agriculture, Silviculture, Conservation and Action to fight Deforestation in Africa –CDM (FFEM /MAEE, PNUE)
- Shrubs initiative/SCAP project



THE EARTH INSTITUTE  
COLUMBIA UNIVERSITY

The MDG Centre  
West and Central Africa



Millennium Villages



THE GLOBAL MECHANISM  
UNITED NATIONS CONVENTION  
TO COMBAT DESERTIFICATION



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# A ce titre l'IRD soutient en Afrique de l'Ouest et dans les champs thématiques « Zones sèches »



## Main founding and supporting organizations



## Programmes





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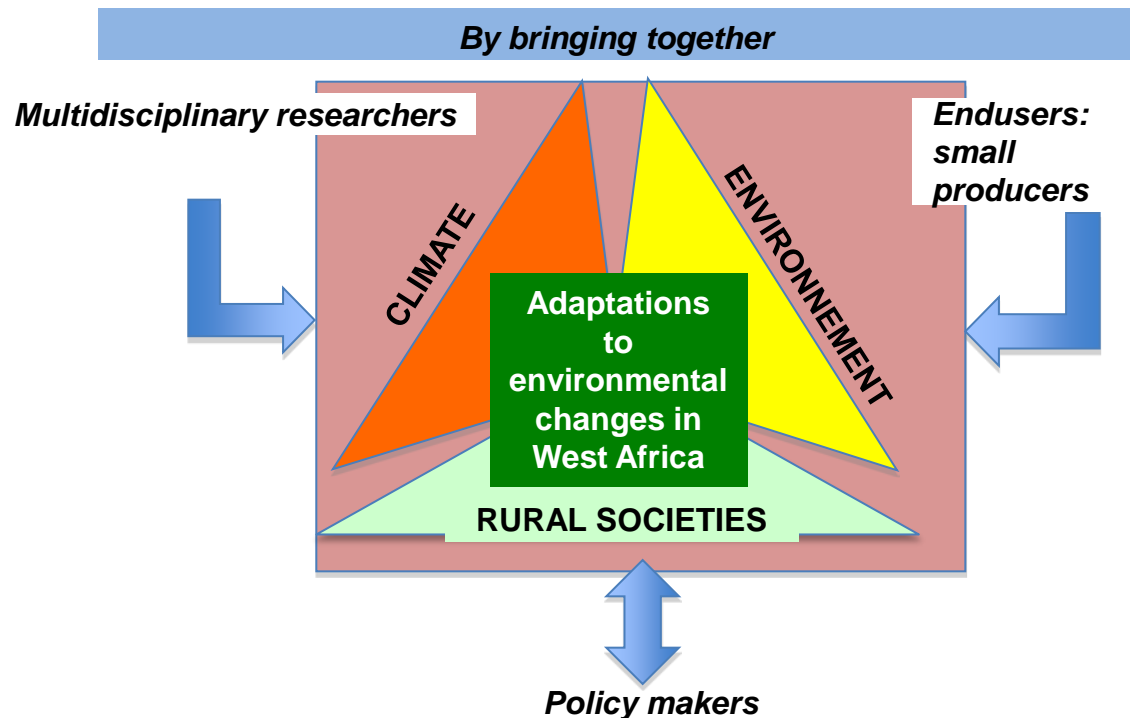
RIPIECSA

**Recherche Interdisciplinaire et Participative sur les Interactions entre les Ecosystemes et le Climat et les Sociétés d'Afrique de l'Ouest.**

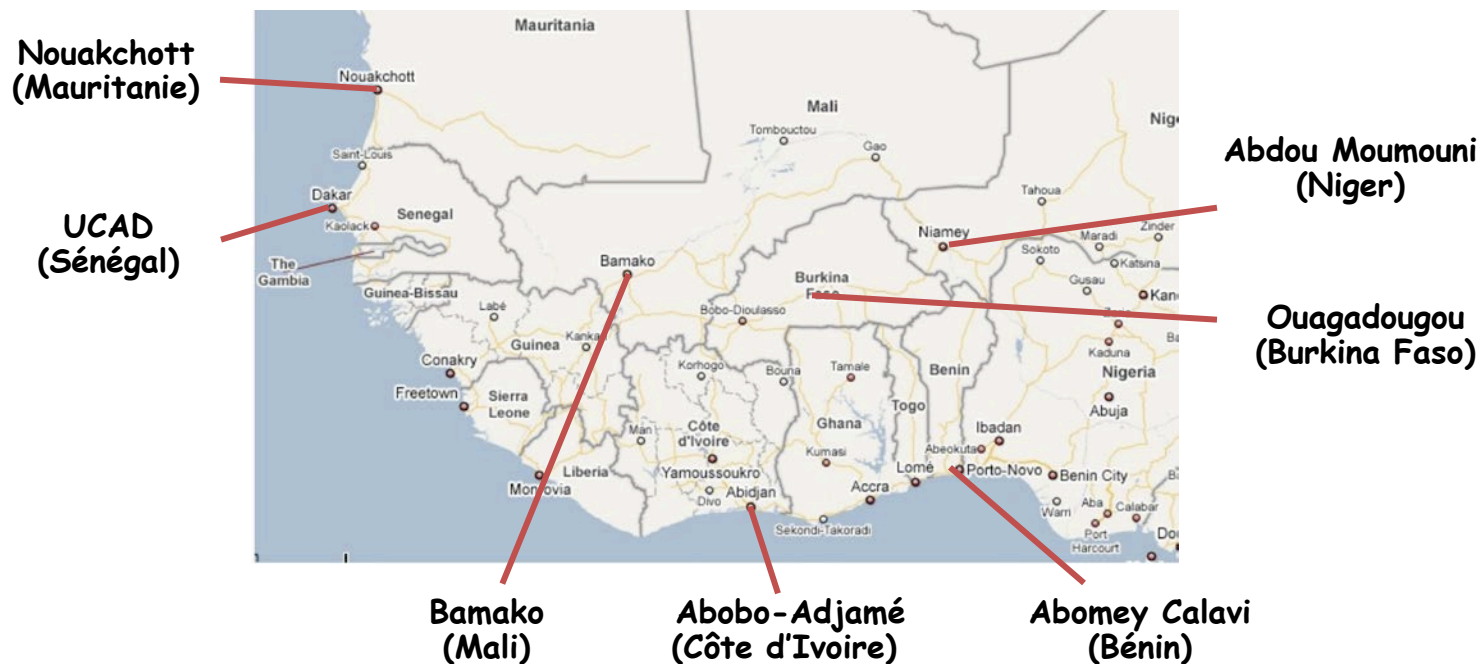


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The Regional Programme « Interactions between Rural Societies, Environment and Climate in West Africa: What action should be taken to ensure the sustainability of natural resources and rural communities? » (PPR-SREC)



## ↗ MIBioT, Master International de Biotechnologies Tropicales

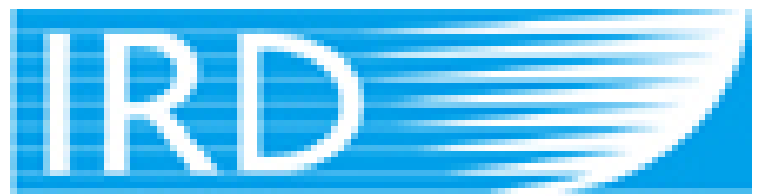


**Enseignement socioconstructiviste essentiellement à distance  
M1 et M2, cinq parcours (BV, BA, BMAE, BAA et BS)**

- Sept universités ouest-africaines
- Quatre institutions françaises : Montpellier II, SupAgro, IRD, CIRAD
- Appui financier et logistique : IRD, UCAD, AUF, CORAF et CEDEAO
- Insertion institutionnelle : CRUFAOCI et CPU



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LA RECHERCHE AGRONOMIQUE POUR LE DÉVELOPPEMENT



**A Consortium of French Research Organizations acting together for the  
Development of Southern Countries, through scientific cooperation**

- **Includes notably : CIRAD, CNRS, IRD, Institut Pasteur**
- **Research, training & capacity building, valorisation, expertise, information**
- **Brings support to dedicated projects (through calls)**

**1. Programme for Tropical Agroforestry Research, an AIRD Call –just launched**

- **Agro-ecological Zones & Thematic based : in Drylands, AF parklands (sust. management, ecological intensification...) could be a major entry point**
- **CIRAD and IRD with reg/international specialized centers, CATIE and ICRAF**
- **Bridging Research, Education and Capacity Building in Agroforestry**

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Development of Southern Countries, through scientific cooperation

## 2. AIRD-Agence Panafricaine de la GMV

- **Signed in March 2011: A Coop Prg with Steering & Scientific Commitees**
  
- **Objectives**
  - **Center of scientific and technological experimentations dedicated to the  
GGW project (Plateau Scientifique et Technique)**
  - **Scientific data dissemination (success stories and faillures)  
(web site, scientific journal on line, etc)**
  - **Training, capacity building, etc**

## Research Platform in Agroforestry for Dryland Africa A CIRAD-IRD-ICRAF initiative

- **Combined approaches and concepts: Evergreen agriculture, Fertilizer Trees, Ecological intensification (of production systems ), Ecological services, CA...**
  
- **Could include**
  1. **Shrubs and system productivity, in a context of AF parklands**
  2. **Livestock, trees and agriculture interactions**
  3. **Soil management and fertility of cropping systems**
  4. **Hydrological aspects (studies at catchment level)**
  5. **Tree cover assessment (Remote sensing studies and ground inventories)**
  6. **Modeling of tree structure (density, crown cover, including management)**
  7. **Economical, social and anthropological aspects of evergreen agriculture**
  8. **Vulnerability & resilience of smallholder farming systems /adaptation to clim changes**
  
- **WGroups to be constituted, CN to be written up; fund rising/call submission**