# **PPZS** Pastoralism and Drylands in West Africa. Understanding and acting to develop pastoral systems and their integration in regional economies

- Develop knowledge about pastoral systems in dry tropical areas.
- Innovate on diagnostic and management tools for these systems.
- Support pastoral management structures in natural resource management.
- Facilitate multidisciplinary training for researchers and rural development professionals, while collaborating on research projects and communicating their results.



training (dP in French) is a long-term strategic alliance made up of a critical mass of partners and researchers around a shared program and portfolio of projects. Managed collectively, the platform is open to

members of civil society to facilitate its impact and also interacts with public policy decision makers in order to generate changes and



# MEMBER PARTNERS



ISRA is an institute of applied scientific and technical research, established in 1974 to design, organize, and conduct all research related to the rural sector in Senegal (www.isra.sn).



The Cheikh Anta Diop University of Dakar (UCAD) hosts nearly 70,000 students and comprises six autonomous faculties, four national higher schools of vocational training, and twelve research and training institutes. UCAD hosts PPZS doctoral students in its doctoral schools (www.ucad.sn).



The Centre de Suivi Ecologique of the Ministry of Environment, Sustainable **Development, and Ecological Transition** of the Republic of Senegal is a Centre of Excellence leveraging geomatics for environmental management, applying space technologies for sustainable management of natural resources (www.cse.sn).



Cirad is a French research centre that, along with partners in Southern countries, addresses international challenges of agriculture and development to support agricultural development and contribute to the debate on the major global issues of agriculture, food, and rural territories (www.cirad.fr).

In West Africa, in particularly challenging environments, we will have to address multiple ecological, climatic, economic, social, political, security, and health-related issues, which determine the future directions of pastoral practices.

The Pastoralism and Drylands Pole (PPZS) aims to promote sustainable pastoral livestock farming that is better integrated into national and regional economies and well connected to other production systems in dry areas. It brings together multidisciplinary expertise from national and international institutions to address major questions related to the future contribution of livestock farming to the agricultural sector, the environment, livelihoods, and food security of the region's population.

The PPZS partnership fosters dialogue among various stakeholders, particularly at the level of national and regional policies, with ECOWAS, CILSS, UEMOA, FAO, EU, MEPA, MAER, MEED, ASRGMV, etc.

# ■ ID CARD

- Established in 2001
- 35 researchers and teaching-researchers assigned to the dP + 9 associated CIRAD researchers and 6 honorary members
- 15 ongoing projects
- 700 hours of university courses (Bachelor's and Master's degrees)
- 15 PhD students & 15 Master students supervised per year
- 40 scientific publications annually

# ■ ASSOCIATED INSTITUTIONS

ENSA, National School of Agriculture-Thiès: ENSA, integrated since 2006 into the University of Thiès where it constitutes the agronomic centre, trains agronomic engineers and specialists capable of understanding the scientific, technical, socioeconomic, human, and cultural factors that characterize the agricultural environment, which is both complex and changing.

UASZ, Assane-Seck University of Ziguinchor: UASZ is a public institution of higher education established in 2006 and located in Ziguinchor in Casamance, southwest Senegal. It has four training and research units, two doctoral schools, and eight research laboratories.

UGB, Gaston Berger University-Saint-Louis: UGB is a university in Senegal located in Saint-Louis and established in 1990. It has eight training and research units, two doctoral schools, and six research laboratories.

# SOME ASSOCIATED PARTNERS

Civil society (NGOs, farmers' organizations, etc.): APESS (Association for the Promotion of Livestock in the Sahel and in the Savannah), Acting For Live, ARED (Association in Research and Education for Development), RBM (Billital Maroobé Network), GIZ (German cooperation), AVSF (Agronomists and Veterinarians Without Borders), GRET (Solidarity development professionals), CERFLA (Centre for African Language Studies, Research, and Training).

Private sector: Dairy industry (Laiterie du Berger, Kirene Group), Agro-industry in the Senegal River Valley (CSS, SCL, Valagri).

### Research institutions: CORAF, ILRI, INERA.

**Donors:** European Union, French Development Agency, World Bank.





## EXPERTISE AND TECHNICAL SKILLS

- Participatory design of land management and pastoralismadapted policies.
- Multi-scale assessment of herd mobility impacts on nutrient cycles.
- Analysis of transhumance and cross-border trade in the Sahel.
- Analysis of animal product value chains in West Africa.
- **¬** Risk analysis and food security.
- Design of ecosystem services for sustainable intensification of extensive livestock systems.
- Development of decision support tools and modelling frameworks in the Sahelian zone.

Higher education and accompanying research: GIS, pastoral economics, ecology, socio-economics, sociology (practices, local knowledge), and geography.



### BENEFICIARIES

Producers can sustainably strengthen their pastoral activities.

**Policymakers** and **local communities** have access to knowledge, tools, and methods to reconcile economic development, social peace, and the growth of pastoral activities.

**Students, future executives,** and **researchers** enhance their skills in all disciplines and domains related to pastoralism.

**Scientific partners** enhance their reputation through regular publications in international journals and increased visibility with development partners.

## ■ SCIENTIFIC AREAS AND PROJECTS

#### **Axis 1: Environment and Pastoral Ecosystems**

# Question: What are the impacts of global changes on pastoral ecosystems and their ecosystem services?

To enhance the ecological aspect of this axis, the PPZS pole has developed the CaSSECS project (EU-Desira/led by ISRA/€5.5M, 2020-2024), «Carbon Sequestration and Greenhouse Gas Emissions in (Agro)Silvopastoral Ecosystems in the Sahelian CILSS States».

#### **Axis 2: Governance and Territory Dynamics**

# Question: What is the role of livestock today and in the future at the territorial level?

Under this axis 2, the PPZS participates in the Health & Territories project (EU-AFD/led by Cirad/€9.5M, 2021-2025), «Health as a Development Lever in the Context of Agroecological Transition», focusing on «Integrated Territory Management» aspects.

### **Axis 3: Animal Products and Value Chains**

Question: In (agro)pastoral territories, how can we produce and sell more and better, provide income to producers, and address extra-African imports of animal products?

For Axis 3, the flagship project is AfricaMilk (EU-LeapAgri/led by Cirad /  $\notin$ 0.9M, 2018-2022), «Promote ecological intensification and inclusive value chains for sustainable African milk sourcing».



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