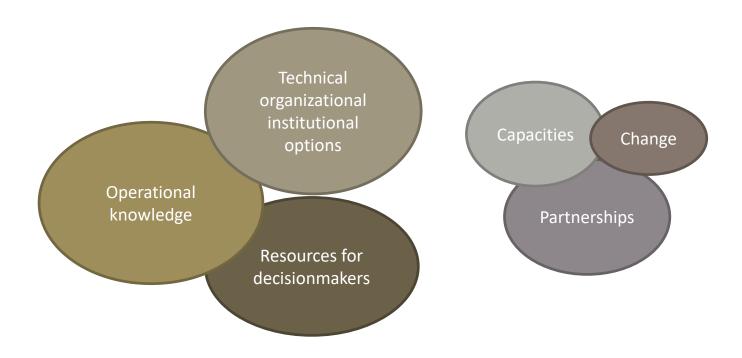




Dr. Sylvain Perret, Director – Dept Environments & Societies sylvain.perret@cirad.fr



5 research units potentially involved



ArtDev: Actors, Resources, Territories in Development processes

Areas: Geography, economics, sociology, political sciences

Focus: Socioeconomic, political, territorial processes at play in development; linkages between

global transitions and local dynamics

Objects, methods: public policies, asymmetries, family farming, structural transformation, governance, labour and employment, migrations, climate change, energy transition,

agroecology, value chains, anticipation

G-Eau: Water Management, Actors, Uses

Areas: Geography, economics, sociology, agronomy, political sciences, hydrology

Focus: Water resources management and governance at different levels

Objects, methods: irrigation, ground water, reuse, public policies, governance, collective action,

multiple use, water basins, innovation processes, water-food-energy nexus, modelling,

participation and decision processes



Actors, Resources and Territories in Development

Global question: how the change processes rely on the generation and utilization of both material and immaterial resources by various stakeholders?

Main challenges:

- African structural transformation in the context of global change (with a focus on territorial dynamics and development strategies)
- Making local governance more future-oriented and more inclusive
- Labour migration and effects on regional development

Activities:

- Study and action-research on governance processes (local, multi-level governance and future-oriented emancipatory governance)
- Research on the potential of territorial approaches for increased stakeholders' ownership (with a specific attention to food systems governance and relocalization of value chains)
- Research on how to mainstream migration and rural urban linkages in policy design



Water Management, Actors, Territories

Global question: Managing water (quantity and quality) and water-related ecosystems in a context of increasing water scarcity and global changes

Challenges / Activities

- Governance of water and water-related ecosystems
 - Integrated and multi-scale approach to analyze water resource management and water governance
 - Accompanying water stakeholders in adapting to global changes (participatory approaches, support design of water policies and governance)
 - Research on the debate about water quality issues
- Alternative sources of water
 - Acceptability of re-used water (farmers and consumers' perspectives)
- Management of water resources by farmers
 - Policy instruments to promote sustainable intensification

5 research units potentially involved



MOISA: Montpellier Interdisciplinary center on Sustainable Agri-food systems

- Social sciences and nutrition

Areas: Economics, sociology, political sciences

Focus: Sustainability and innovation in food systems; food security and nutrition; bioeconomy

Objects: public policies, regulations, institutional settings, risks, consumption, production, food

markets, food safety, governance, value chains, strategies at play, collective action, family

farming, food supply, urban food systems

TETIS: Territorial decision processes: spatial information, support and evaluation, impacts

Areas: Geography, economics, geomatics, data sciences

Focus: Food production, health, territorial development, land governance,

Objects: decision-making processes, risks and anticipation, ecosystem services, territorial

governance and change, observatories, digital solutions

Methodo: action-research, modelling, landscape shaping, metrics, data mining



MolSA: Montpellier Interdisciplinary center on Sustainable Agri-food systems

Global question: What regulations, public or private, to support transition towards sustainble food system?

- Main challenges:
 - Multiplication of global and systemic risks that affect the food systems (Food crisis, Emerging diseases...):
 - Need for innovative, global, cross-sector and multilevel governance
 - New coordination in the agri-food system.: multiplication of public and private instruments
 - Impacts on stakeholders practices (farmers, consumers...)
- Activities:
 - One Health: Supporting the National Committees on Antimicrobial resistance (Mozambique, Madagascar, Burkina Faso, Ivory Coast,) in implementing the National Action Plans on Antimicrobials in the agricultural sector (Roadmap and Safe projects)
 - Food and nutrition security: Analyzing inter-sectoral coordination between Agriculture and Nutrition (Burkina Faso), policy options to address micronutrient deficiencies in West Africa (dietary diversity, (bio)fortification), evidence-informed decision-making in nutrition programs and policies (EU partner countries)



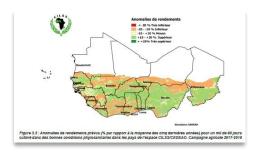


Geoinformation & Earth Observation for Territories and the Environment

Global question: under what conditions can spatial information contribute to sustainable and inclusive territorial development?

Challenges/ Activities

- To improve Food security
 - Production of early warning systems and global assessment based on spatial and territorial information about agricultural systems



- To co-construct sustainable and inclusive territorial development paths
 - Development of Integrated and multi-scale approach to analyze natural resources management, agricultural systems and governance modes
 - Improvement of methodologies accompanying social changes (concertation, platforms)
 - · Capacity building and expertise
- To innovate for appropriate policies and governance modes focus on territorial and land policies



 Co-construction of territorial observatories and information systems (monitoring at multi-scale, feeding policy debates)

5 research units potentially involved



AIDA: Agroecology and sustainable intensification of annual crops

Areas: Agronomy, ecology, eco-physiology, mathematics & computing applied to modelling

Focus: Farming system design and assessment

Possible interface with Govinn: AIDA collaborates with environmental and social sciences to assess the sustainability of crop and production systems. As such it produces knowledge and knowledge-mobilization tools oriented towards improved governance of agricultural and food systems.

Platforms in partnership for research and training (dPs)

