



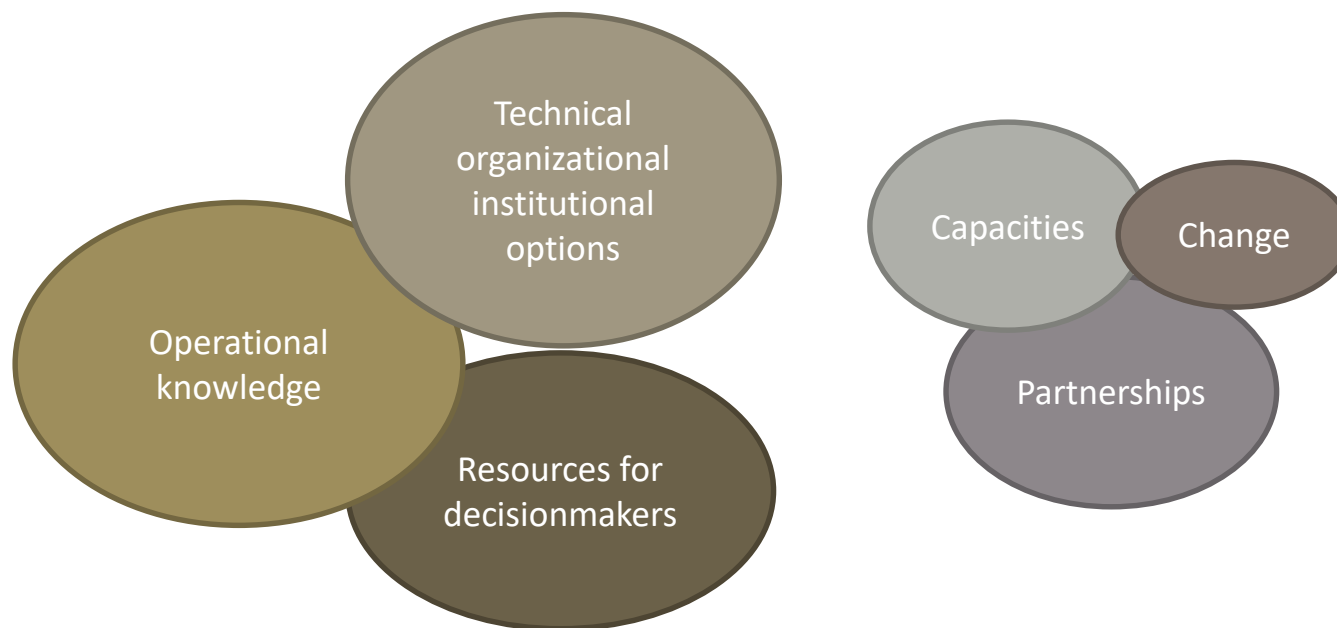
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RÉPUBLIQUE FRANÇAISE



AGRICULTURAL RESEARCH
FOR DEVELOPMENT

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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

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

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.

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

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

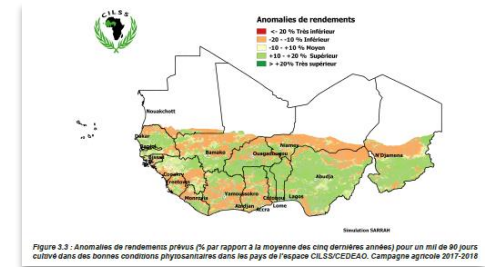
Global question: What regulations, public or private, to support transition towards sustainable food system?

- **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)

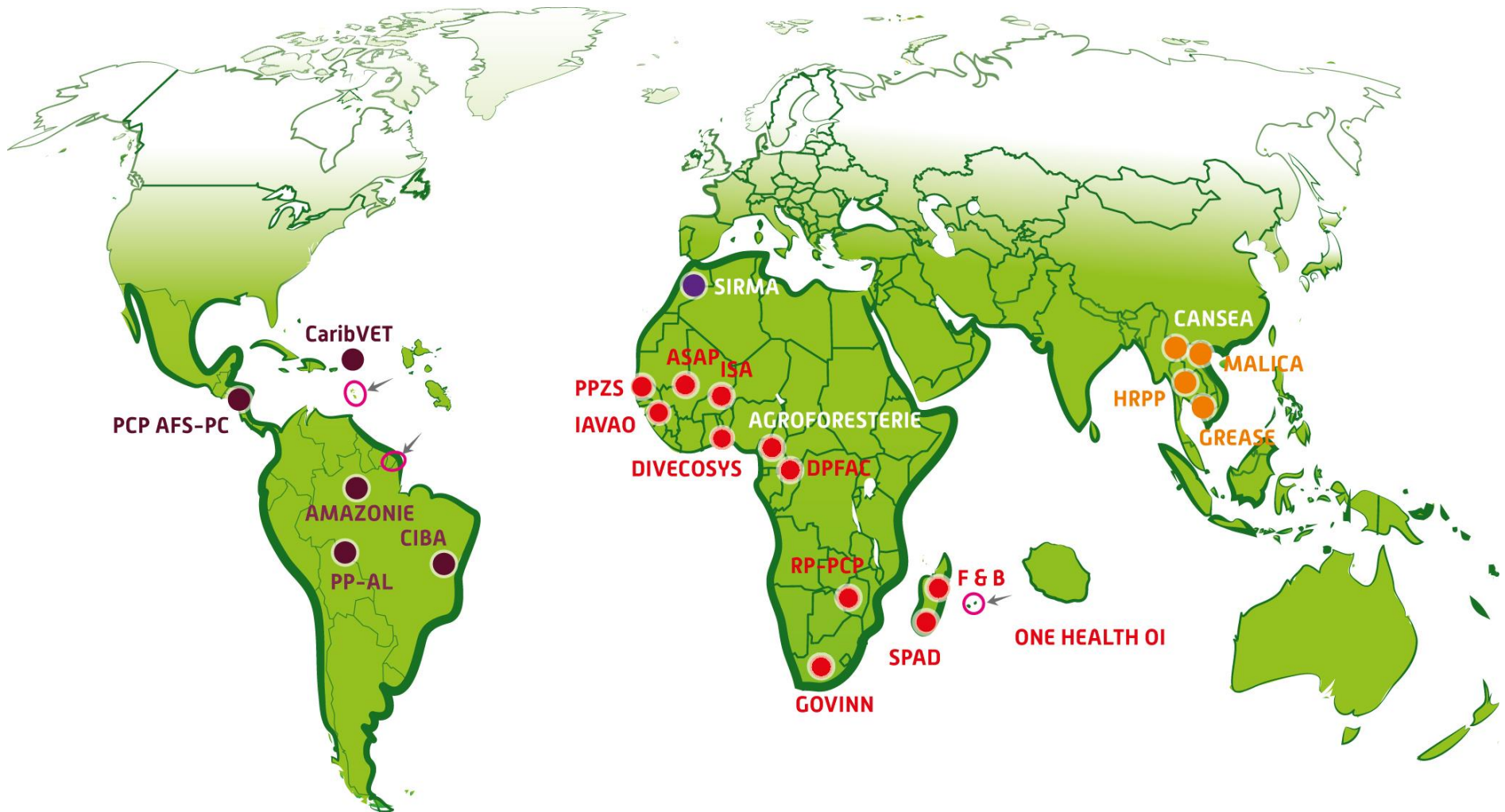
Global question : under what conditions can spatial information contribute to sustainable and inclusive territorial development ?

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)



Platforms in partnership for research and training (dPs)



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