



National Center of Specialization for Livestock (NCOS)

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SUMMARY

1. Introduction
2. West African Agricultural Productivity Program
3. National Center of Specialization For Livestock (NCOS)
4. NCOS Activities
5. Forage Legume cultivation Tests
6. Examples of Multiple Use Legumes

Brief overview of the agro-sylvo-pastoral Resources

- Landlocked country, in the heart of the Sahel, Niger has an area of 1 267 000 km²

- Only 15 000 000 ha are exploitable for agro-sylvo-pastoral activities

- 7 000 000 ha are currently used for rain fed and irrigated crops and the other parts is mainly used for livestock raising

- Agro-sylvo-pastoral activities play a major socio-economic role in Niger
 - 42.8% to the national GDP
 - Livestock contribute for 12% to the GDP

What are the constraints?

Various factors limit today agro-sylvo-pastoral productions:

- Poor management and use of natural resources
- Overexploitation of land because of high population growth (3.3%) and increasing animal numbers
- Recurrent drought due to global climate change
- Low technological and strategic production innovation
- Low processing and marketing of agro-sylvo-pastoral products

Land degradation and decline in productivity

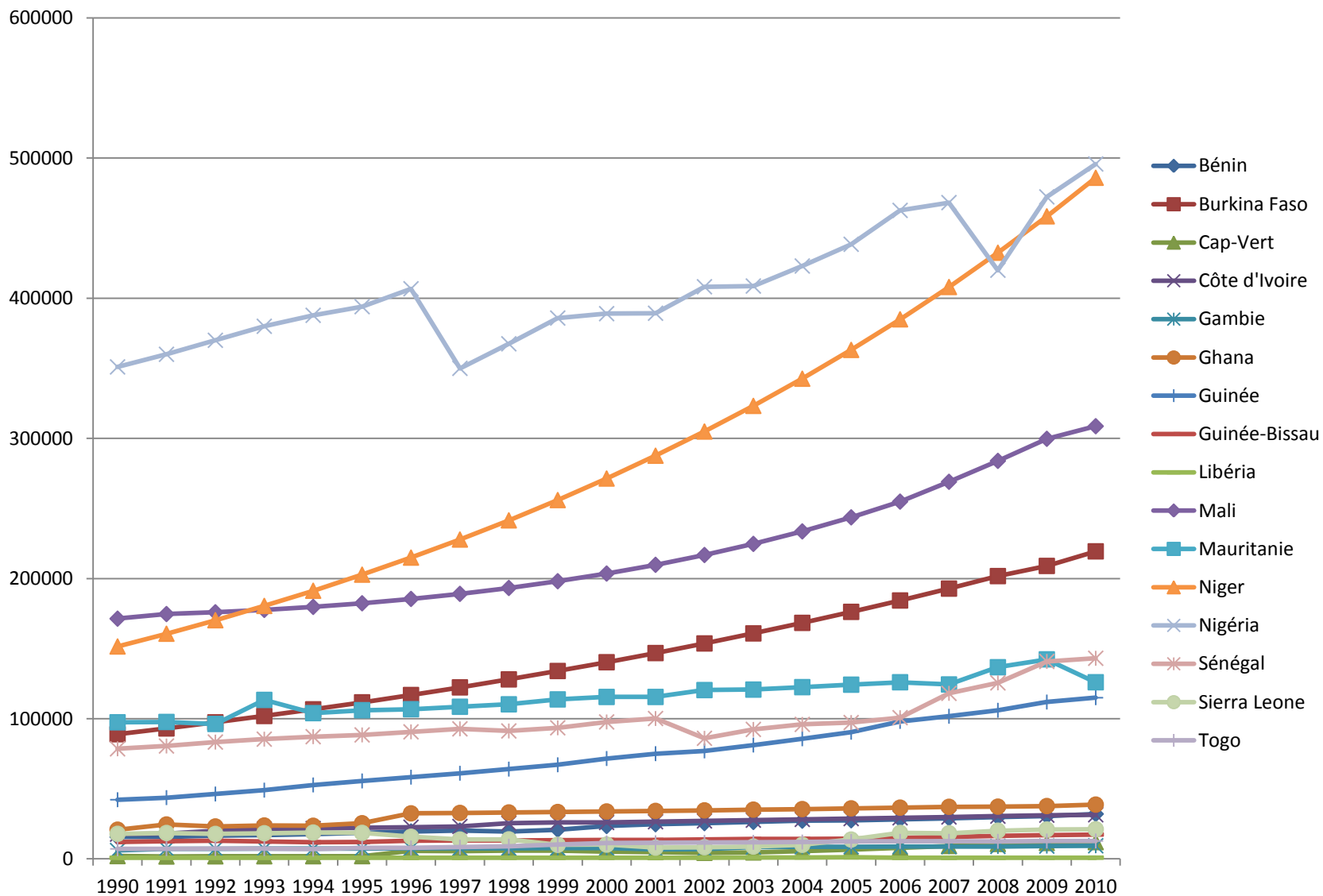
→ Food insecurity, poverty, migration, etc.

Challenges and Opportunities

There is a need to :

- Increase agricultural production to meet a growing population need
- Diversify and modernize agro-sylvo-pastoral productions
- **Mobilize adequate resources to improve the productivity of the agricultural sector en general, particularly the livestock for which Niger has a comparative advantage**

NCOS designed to improve livestock productivity in Niger and ECOWAS member countries



Evolution de la production de viande dans les pays d'Afrique de l'ouest

Presentation of West African Agricultural Productivity Program (WAAPP)

WAAPP development goal : Generate and accelerate the adoption of improved technologies in areas of **priority for agricultural sectors**, in accordance with the priorities identified by **CORAF**

Components

- Conditions conducive to regional cooperation for development and diffusion of technologies (9%)
- Funding on demand, generation, dissemination and adoption of technologies (46%)
- **National Center of Specialization for Livestock (36%)**
- Monitoring, Evaluation and Program Management (9%)

CNSEL Presentation

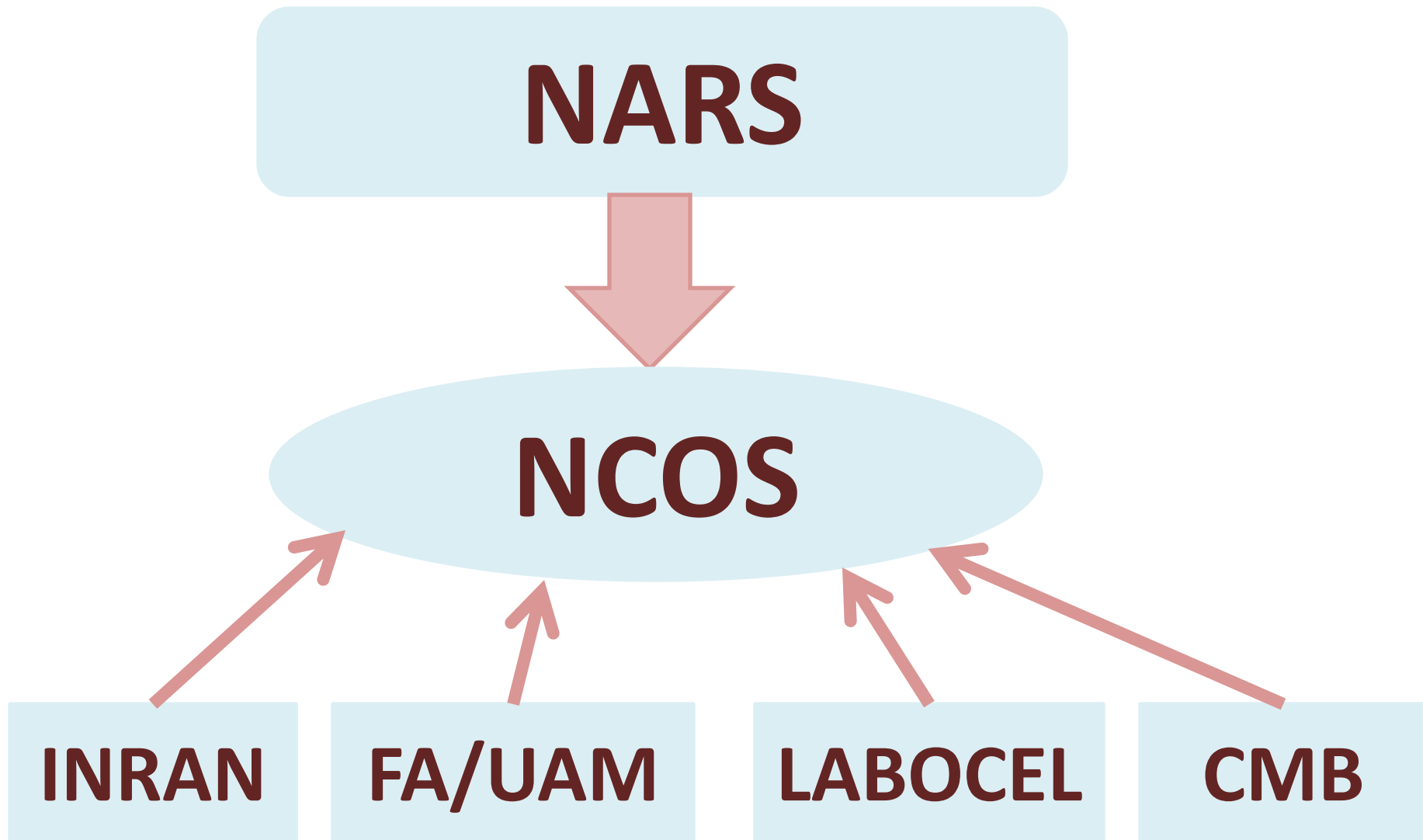
- ❖ Arrêté Conjoint (MAG/MEL) N ° 01 20 Septembre 2012
- ❖ National Institute of Agronomy Research (NARI)

Missions

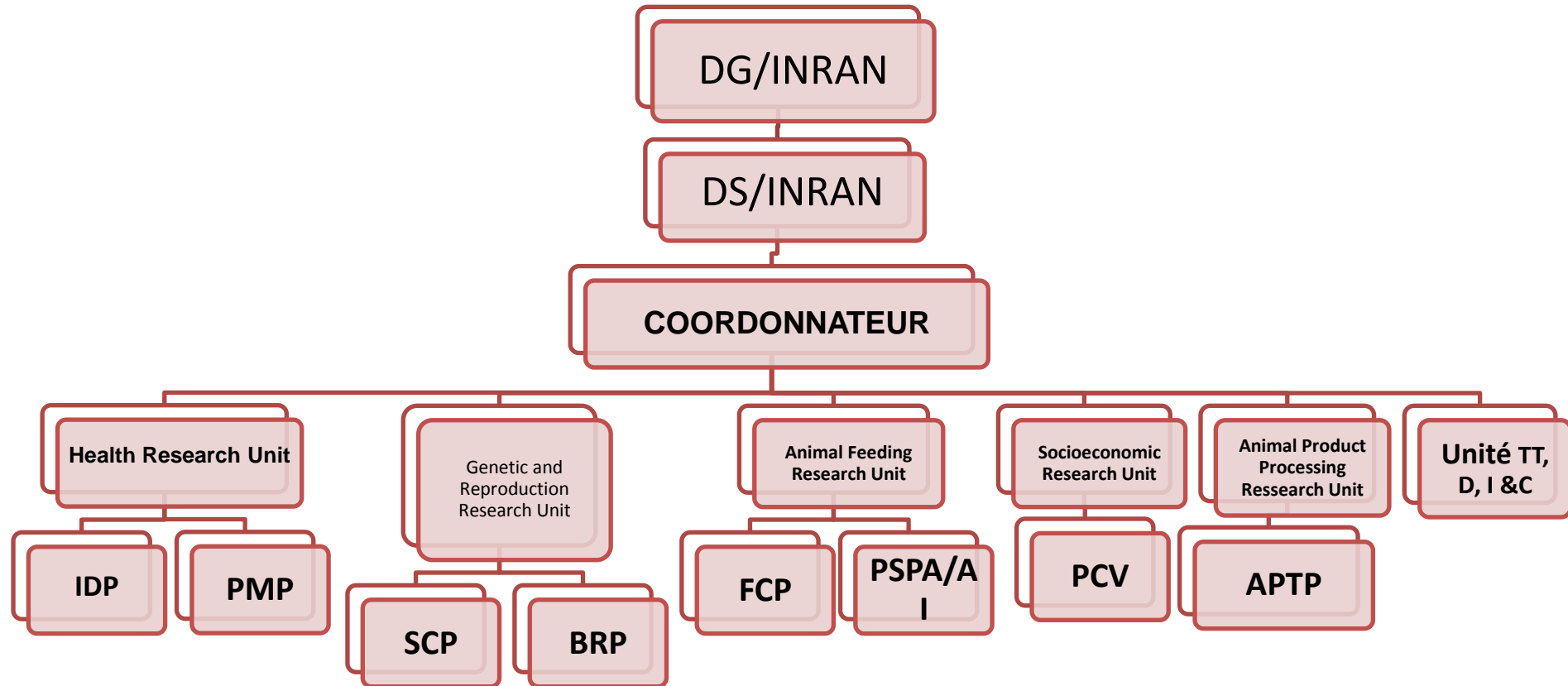
Strengthen the National Potentials and those of West African Countries for the Development of the livestock sector

1. Contribute through research development to improve the productivity and the competitiveness of the livestock sector in **Niger and in West Africa (ECOWAS COUNTRIES)**
2. Inform and train the different actors of the livestock sector
3. Collaborate with regional and international institutions engaged in research in the field of livestock
4. Share results of research with other countries

NCOS IMPLEMENTATION AGENCIES



Organigramme du CNSEL



CNSEL Research programs revolve around value chains relative to cattle/meat, milk and family poultry raising

Livestock and Meat value chain

Four (4) Major Themes :

▪ **Increase productivity by:**

1. Genetic improvement of local breeds
2. Control of reproduction
3. Improving nutrition
4. Control of infectious and vector diseases

▪ **Increase the added value of animal products by :**

1. Improving the processing and packaging of meat
2. Upgrading to standards and standardization of products

Livestock and Meat value chain

Four (4) Majors Themes (continued)

- **Improvement of the political aspects and market access**

1. Improvement of the market opportunities for the inputs and products
2. Improvement of the effects of interventions and financing of the sector

- **Improvement of the effects of interventions and financing of the sector**

1. Analysis of value chain and baseline productions live animals and meat systems
2. Evaluation (Identification of indicators of impact) of the impact of the interventions and knowledge management

Milk Value Chain

Five Major Research Themes:

- Improvement of Milk Production :
- Improvement of value added dairy products
- Improvement of policies to support the sector
- Improvement of market access for dairy products
- Strengthening of the value chain

Family Poultry Raising Value Chain

Four (4) Major Research Themes:

- Increase productivity by
 1. Control of avian diseases
 2. Improvement of feed and habitat
 3. Genetic improvement of local breeds

- Increase the added value of poultry products
 1. Improving the processing and packaging of meat
 2. Upgrading to standards and standardisation of avian products

- Improvement of market opportunities and policies

- Characterization of the value chain for its reinforcement

Priorities to consolidate

1. Constructions and Renovation

- a. Siège du CNSEL
- b. LABOCEL, ANL et AIL
- c. INRAN de Kollo et Tahoua (research stations)
- d. CMB de Maradi et Toukounous

2. Capacity Development

- a. Long term training
 - Ph D
 - Master
- b. Short term training
 - Researchers mobility
 - Producers Training
 - Exchange of Experience between producers

Priorities to consolidate (continued)

3. Activities to be consolidated by the CNSEL

- a. Forage legume integration in production systems
- b. Forage legume use in degraded pasture land reclamation
- c. Legume trees fruit use in poultry ration formulation

Quelques exemples de cultures de légumineuses

- Essais en cours



Niébé fourrager en culture pure



Dolique en culture pure

Exemples de cultures de légumineuses

Associations mixtes, fourragères et vivrières



Mil-Niébé



Sorgho-Moringa



**Stock de chaume
et fane de niébé**

- Mil-arachide, mais–niébé, sorgho-arachide, dolique-sorgho etc.

Quelques légumineuses herbacées à usage multiple au Niger



Mucuna



Niébé



Dolique



Arachide



Stylosanthes



Sirato

Quelques légumineuses ligneuses à usage multiple au Niger



Acacia tortilis



Tamerindus indica



Acacia laeta



Prosopis africana



Acacia nilotica



Acacia ehrenbergiana



Acacia senegal



Piliostigma reticulatum

THANK YOU

Merci de votre aimable attention