

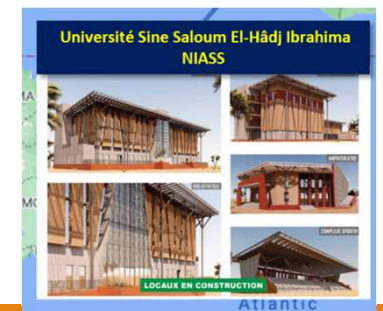


Senegal Case Study

EXPERIENCE OF UNIVERSITY SINE SALOUM EL HÂDJ IBRAHIMA NIASS

Pr NDEYE COUMBA TOURE KANE RECTOR

5th September 2023
***"Applied Sciences as drivers
for regional innovation ecosystems in Africa"***



Atlantic

Senegal's Presentation

196,722 km² western extremity of African continent.

Senegal's population at 17.7 million in 2022,

compared to 16.2 million in 2019 and 13.5 million in 2013 (ANSD, 2022).

A quarter of population live in the Dakar area (0.3% of the territory)

Main economic sectors :

Primary Sector - raw materials,

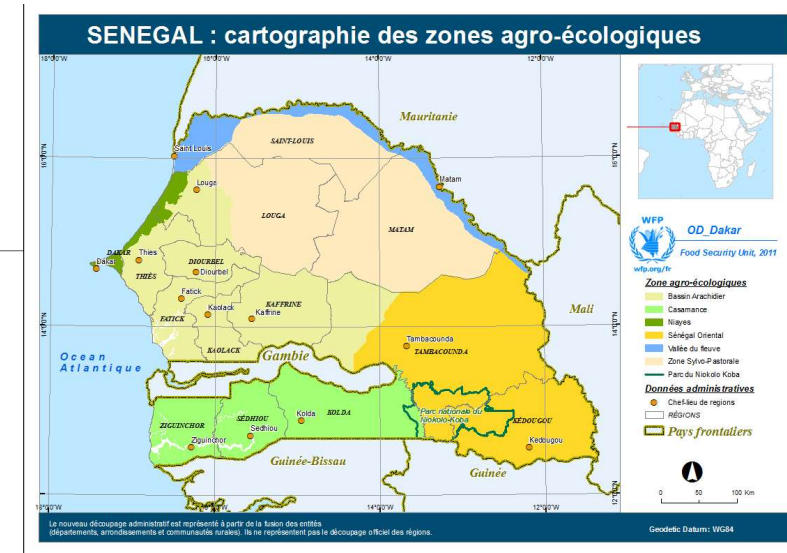
Secondary Sector – manufacturing,

Tertiary Sector - services and

Quaternary Sector – knowledge

Industries : food processing, mining, cement, artificial fertilizer, chemicals, textiles, refining imported petroleum, and tourism.

•Agriculture is one of the dominant parts of Senegal's economy (17% of GDP).



Senegal's Presentation

Senegal's startup scene  in 2023 (10 spots)
Regional Ranking 4th In Western Africa and
Global Ranking 82nd « *Global Startup Ecosystem Index! 2023* »



Popular for entrepreneurs and investors in West Africa

- Favorable business climate and robust institutions.
- Senegalese startup ecosystems +++++
- innovation funding, and programs such as accelerators and incubators
- Incubators at universities +++

==> plagued by high rates of pollution, a highly informal economy, difficulty in accessing finance and funding, low female participation and high costs of living.

Senegal's Presentation

- **Agriculture is one of the dominant parts of Senegal's economy (17% of GDP).**
- **Senegal continues to rely on rain-fed agriculture. Only 5% of the land is irrigated**
- **Agriculture occupies about 75% of the workforce.**

Climate : alternation of two seasons; a rainy season from July to October.

Rainfall : deficient and poorly distributed over time and space



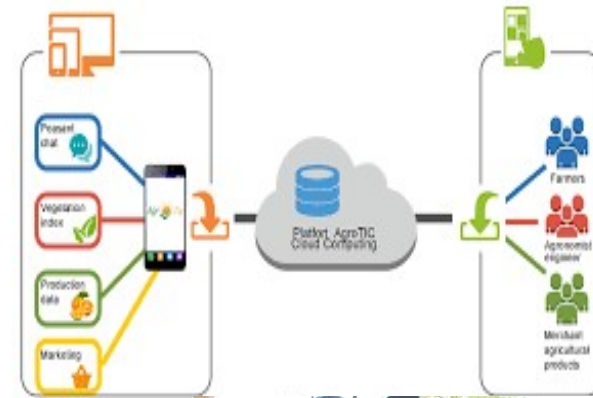
Challenges : Poor soil, weather conditions, a lack of infrastructure and access to quality seeds and fertilizer.



**CHALLENGES IN AGRICULTURAL ENTREPRENEURSHIP
→ USSEIN's CONTRIBUTION**

PRODUCTION CHALLENGES

- Access to land
- Access to water and its optimization
- Access to quality inputs
- Access to new equipments
- Access to Technical knowledges of innovative farming practices and moderne agriculture



TRANSFORMATION CHALLENGES

Conservation

Packaging

Normalisation (Characterization, labelling, quality..)

Prototyping

modern Equipments



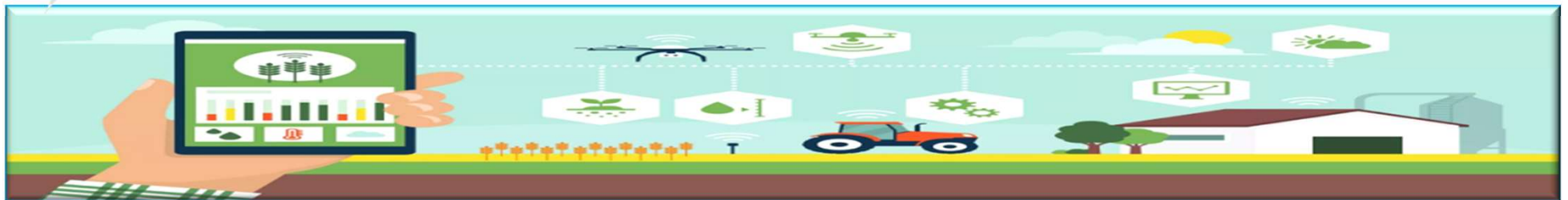
CROSS-CUTTING CHALLENGES

Formalization

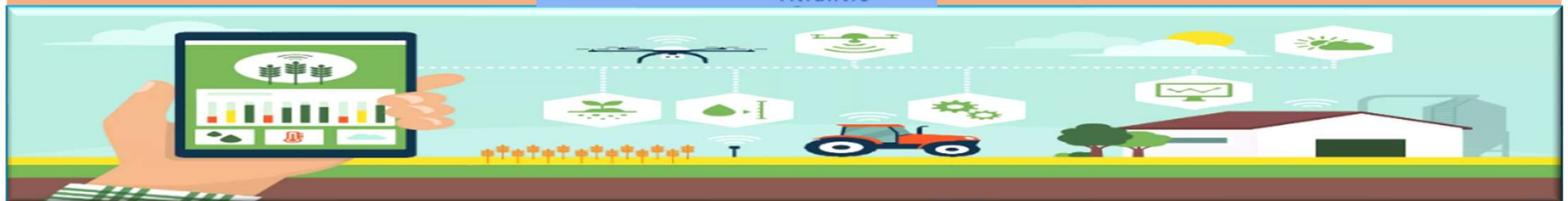
Funding

Digitization/ automating

Scaling up
quality competitiveness



TRAINING SECTORS AT USSEIN : A FAVORABLE OFFER FOR AGRICULTURAL ENTREPRENEURSHIP

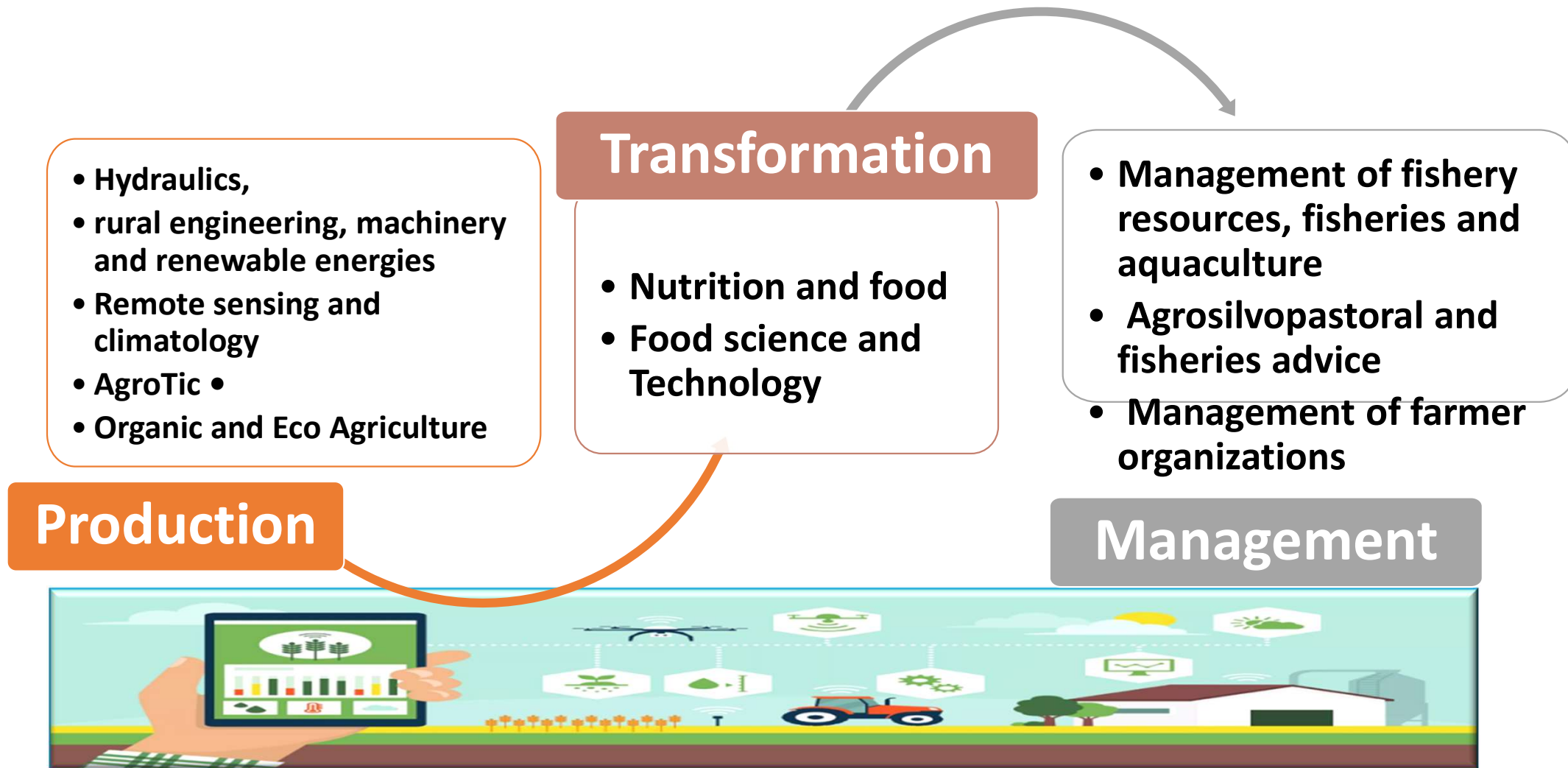


Academic project contribution in human capacity building

- Cover **large sectors of the agricultural value chain**
- Standard system of LMD and bioengineering
- **Competency based approach** : Emphasis on **vocational degrees** (30 Bachelor and masters) of agriculture-related jobs,
- Promote the use of **scientific parks and incubators** in order to encourage self-employment
- A new university oriented towards **learning by doing and entrepreneurship**
- **Community service projects** are counted as training modules



Academic project contribution in human capacity building



STRATEGIES AND INITIATIVES TO SUPPORT INNOVATIVE ENTREPRENEURSHIP

INCUBATORS-PARTNERSHIPS-POLICIES

FabLab
Living Lab/studios
Coworking spaces

Fundraising support Sourcing
of projects Promotion of research
results through entrepreneurship



Preincubation
Incubation
challenge
networking
Events

Training and coaching Support for
research and
development hosting of Project



PARTNERSHIP DEVELOPMENT & POLICIES

Partnership	Policies
NATIONAL <ul style="list-style-type: none">• Farmers organisations• Industries• local authorities• Development of linkage University territories Businesses	Senegalese Startup Act Creation of DER/FJ and BCE Student entrepreneur status
INTERNATIONAL <ul style="list-style-type: none">• AFD,• Enabel,• DAAD, HSWT, GIZ• USAID - World Bank	PROJECT FOR SUPPORT TO SKILLS DEVELOPMENT AND YOUTH ENTREPRENEURSHIP IN GROWTH SECTORS (African Dev Bank)

visible boosts to the startup scene, business registration period, financial support youth and women entrepreneurship

STUDENT'S INITIATIVES

ILLUSTRATIVE INITIATIVES

P2E2A DAYS

INNOVATION AWARDS

CLIMATHON

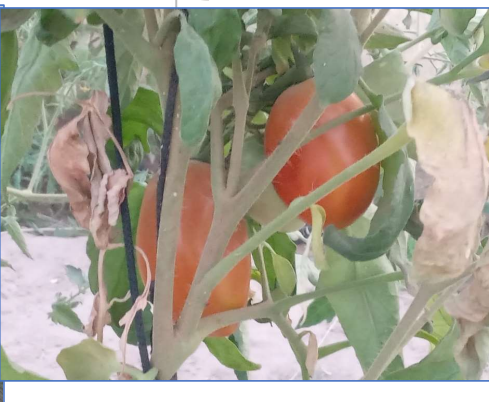
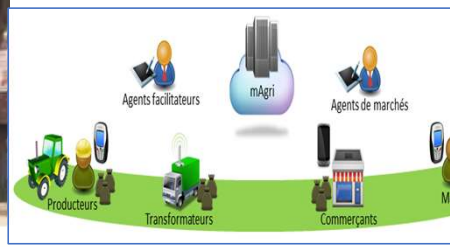
STUDENT'S COOPERATIVES

AGRINUM
automation of agricultural tasks with an on-board system (Rebot).

INNOV DIGITECH AGRO
detection of plant diseases and decision support

SMART SERRE (GREENHOUSE9
• control of climatic parameters in the greenhouse

BISMILAH DELICE
biscuits made from local cereals





UNIVERSITE DU SINE SALOUM
EL-HÂDJ IBRAHIMA NIASS



La recherche au service du développement du secteur de l'agroalimentaire



CEA-AGRISAN

CENTRE D'EXCELLENCE AFRICAIN EN AGRICULTURE
POUR LA SÉCURITÉ ALIMENTAIRE ET NUTRITIONNELLE



**THANK YOU
FOR YOUR ATTENTION**

