



Challenges and opportunities for a sustainable socio-ecology in the Katangese Copper Arc (Haut-Katanga and Lualaba Provinces)



Project 5. Climate smart agriculture for sustainable food systems

Local agriculture is characterised by:



- Low quantitative and qualitative production level: food insecurity
- Lack of fertilisers /low nutrient use efficiency
- Strong influence of climate change
- Historical industrial pollution
- Pre- and post harvest losses
- Antibiotics in animal feed
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Therefore a center of excellence for scientific research on sustainable crop and animal production and professional training in the KCA is needed



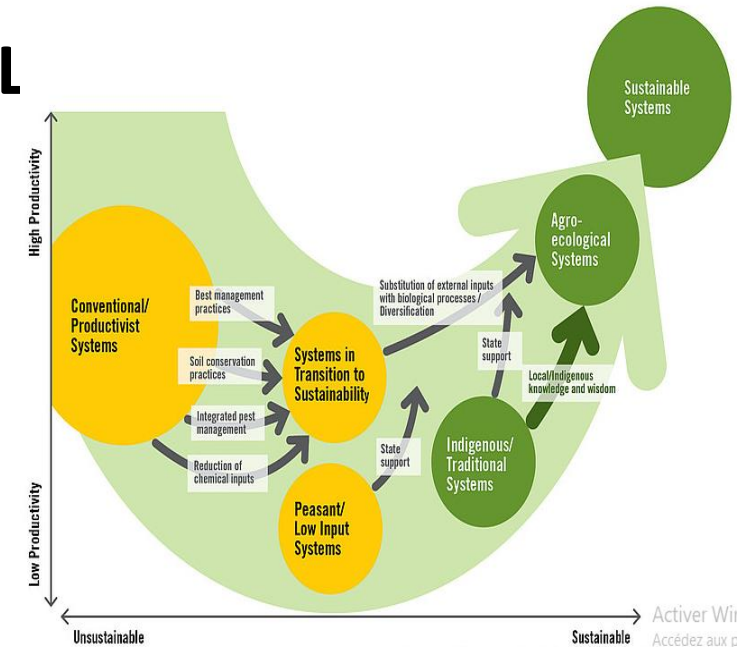
STRATEGY

- **Mind set to sustainable intensification and agroecology**
- **Transition by upgrading education and research at UNIL**

- Upgrading in research facilities
- Training of the next generation of academics (PhDs, post doc researchers, ...)
- Setting up crop and animal experiments
- Master in agroecology

- **Interaction with stakeholders**

- Train the trainer
 - Farmers in food processing technologies based on local agricultural products
 - Teachers secondary schools
 - workshops and demonstration plots in collaboration with local partners (INERA, NGOs);



STRATEGY

- **Service to society**

- Installation of demonstration sites for innovative agricultural practices;
- Providing decision support tools to government technical services and contributing to the development of agricultural and employment policies at the regional level ;
- Support farmers during training sessions ;
- Increase food security and thus poverty reduction through improved agricultural practices ;
- Dissemination of the results obtained to local actors.

- **End User**

- ❖ UNILU;
- ❖ Public services, NGOs and farmers' organizations;
- ❖ Agricultural companies;
- ❖ Mining companies that support farming households in the various concessions where they operate;
- ❖ Population of the ACK.

STRATEGY

Local expertise

Mycology,
Forest Ecology,
Crop Production,
Small Livestock and Poultry,
In Vitro Crops,
Circular Agriculture,
Cereal improvement and Production, Biofertilizers,
Agricultural Production Aquaculture,
Agricultural Sociology,
School and Work Psychology, Clinical Psychology,
Agricultural Product Processing, Pharmacognosy and
Animal Physiology,
History and Sociology of Agriculture.

• Expertise sought

- Edible mushroom production,
- Domestic animal nutrition,
- Pasture improvement and management,
- Domestic animal improvement,
- Integrated agriculture,
- Integrated production systems and integrated crop protection,
- Aquaculture, education,
- Food safety, food technology, food toxicology,
- Natural product and drug discovery,

- Developmental sociology,
- Clinical, occupational and school psychology.



THANK YOU FOR YOUR ATTENTION