BUILDING OF A CONDUCTIVE FRAMEWORK FOR CLIMATE SMART AGRICULTURE IN THE YANGAMBI LANDSCAPE, DRC

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Abstract

Considered as one of the climate change drivers, agriculture is also extremely sensitive to this scourge of time. In general, it is clear that climate change has negative impact on agricultural production. Climate smart agriculture is a palliative approach to this problem. Its agricultural practices can increase productivity, adaptation and resilience in a sustainable manner, reduce greenhouse gas intensity and reduce deforestation. The goal of this work is to come up with a conductive framework for smart climate agriculture in the Yangambi landscape. For this, 250 farm households were surveyed in 3 blocks of the Yangambi landscape. The results show that 98% of the respondents state have observed climatic disturbances in their environment, to which they are vulnerable (83.2% have no adaptation track). The harmful effects of climate change whose the increase of temperature, the overlap between the periods of rains and droughts creating disturbances of the agricultural calendar and the decrease of the quantity of the rains per year; are the main constraints to yield in the region. There are many climate-smart agricultural practices that can be proposed for this environment, including the adjustment of the agricultural calendar, agroforestry, the use of tolerant varieties, crop rotation, irrigation, and the use of bio pesticides. The realization of these practices requires the support of research institutions, non-governmental organizations and state institutions.

Keywords—*Adaptation, Agriculture, Climate change, Yangambi*

Professional Biography (100-150 words)

I'm Lisette Mangaza, a PhD student at the University of Kisangani (DRC) since August 2019. I am 26 years old and I have already done several works in the field of environment, climate change, forestry and agronomy. After achieving my master's degree (2018) in biodiversity management and sustainable forest planning; Department of Forest and Environment at the University of Kisangani (DRC); I continued with research in order to help the congolese peasants to figth against climate change.
Apart from research, I'm also a junior lecturer at the University of Goma (DRC), Faculty of Science, Department of Environment. At the University of Goma, my job consists on assisting the professor and accompanying students in practical work and fieldwork.



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Any Comments:

I would like to know if there is any type of scholarship or grant for students to attend the summit.