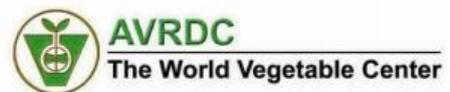


“Diversifying Food Systems: Horticultural Innovations and Learning for Improved Nutrition and Livelihood in East Africa”
(HORTINLEA)

JOINT INTERIM REPORT
(SP8)

01/01/2014 – 31/12/2014
FORMAL REPORT



| Description of activities/milestones |
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| SP8: Climate change and ecological sustainability of horticultural value chains |
| CC1: To identify current and potential future impacts of climate change on horticultural activities in Kenya. To review possible adaptation practices and explore options for the Kenyan horticulture industry. Increased understanding of the current situation and potential future changes in relation to climate change impacts. Compilation of relevant adaptation practices. |
| CC2: To work with case study farmers on the implementation and assessment of adaptation measures. Increased understanding of the implementation and impacts of adaptation measures. |
| CC3: To develop practical recommendations for the adaptation of the horticulture sector using literature data, case studies and expert interviews. Collection of case study data and expert opinion. Development of recommendations for local stakeholders. |
| CC4: To collect data from case study farms representing typical farming systems and crops and calculate GHG emissions per unit of product for these case studies. Collection of case study data and provision of new results on the GHG emissions from different horticultural systems. |
| CC5: To identify mitigation opportunities and efficiency gains and calculate potential GHG savings for the case studies, coupled with potential cost savings where possible. Assessment of the impacts of possible mitigation measures using real case study examples |
| CC6: To develop location-specific recommendations for mitigation practices. Set of recommendations for local stakeholders, evidenced by real data from the region. |
| CC7: To identify potential synergies and trade-offs under local circumstances, e.g. on the case studies farms. Review and assessment of synergies between adaptation and mitigation. |
| CC8: To evaluate the effects of changing nitrogen management on GHG emissions. Assessment of the impacts of improved nitrogen management on GHG emissions. |
| CC9: To contribute to the analysis of institutional arrangements and governance within output 5 as appropriate. Supporting the analysis of climate change mitigation and adaptation policies. |
| CC10: To consider other chosen indicators of ecological sustainability and identify hotspots of environmental impacts of the horticulture sector in Kenya. Putting the results on climate change into a broader context by also considering other environmental hot spots. |

On the German side, the implementing partner institution within HUB has been altered to the Centre for Rural Development (SLE) in May 2014 due to personnel changes within the Faculty. Therefore the project did not start its work in July 2013, but instead with a one year delay. The part-time postdoc position has been filled with Dr. Silke Stöber as of August 2014. The project partnership was launched in December 2014 in Nakuru, after having developed and signed a project contract, Two Kenyan scholars have been selected out of 139 candidates. The conceptual framework, proposed methodologies and a general work and time plan has been described in the research design. A professor for supervision of both PhD scholars has been elected (Prof Dr Hermann Lotze Campen of the Potsdam Institute for Climate Impact Research), (**CC1 CC9 CC10**).