**Proposal for possible contribution to Unesco Water Security project**

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AGRICULTURAL WATER RESOURCES MANAGEMENT IN HIGHLAND COMMUNITIES

experience with crop response to water in Northeast Thailand (dry and wet season)

* workshops on: Capacity development for farm management strategies to improve crop-water productivity using AquaCrop for local researchers and extenionists
* field experiments (maize, soybean, sweet corn)
* calibration/fine-tuning of AquaCrop
* computing deficit irrigation scenarios with AquaCrop

P4 – WATER AUGMENTATION TECHNIQUES FOR INCREASED CLIMATIC RESILIENCE

experience with conventional Water Harvesting in Chile, Niger and Iran;

* evaluation of techniques with hydrological models (HydroGeosphere, Hydrus) (Chile, Niger and Iran)
* socio-economic study on constraints (Niger)
* field experiments (Niger, Iran) and watershed impact studies (Chile)

P5 – ADAPTIVE WATER AND SOIL CONSERVATION MEASURES

experience with water and soil conservation in Ethiopia, China, Kenya, Malawi, Niger;

* evaluation of techniques with hydrological models (HydroGeosphere, Hydrus) (Ethiopia, Niger)
* socio-economic study on constraints (Kenya, Niger)
* field experiments (Ethiopia, China, Kenya, Malawi, Niger)

Proposals in same line: socio-economic study, field experiments, modelling for deficit irrigation strategies, design optimisation and impact assessment.

New project start in Feb-April 2016 with San Francisco Xavier University in Sucre, Bolivia on raising awareness against soil compaction. So far, impact of soil compaction on soil hydrology/link with agricultural drought is not foreseen in that project. Could be an option?