

PROJECT PROGRESS & OBSTACLES



Strengthening
**Agricultural Water Efficiency
and Productivity**
on the African and Global level



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Progress on Outputs-1

Output	Activity	Achievement
	<p>1.1 Regional and national Training Programmes to enhance crop water productivity (AquaCrop)</p> <p>1.2 Apply and monitor the application of practical tools to enhance crop water productivity (AquaCrop)</p>	<ul style="list-style-type: none"> • One regional training programme on AquaCrop (Cordoba, Spain) • Two national inception workshops-Including water productivity enhancement including introduction • National on-job training on the application of AquaCrop at field level • Three identification missions are fulfilled and three country assessment reports are produce • Three sites are identified with plans of actions; <ul style="list-style-type: none"> • Burkina Faso: Sourou • Morocco: Moyen Sebou • Uganda: Mubuku
	<p>2.1 Regional and national training in the use of tools to analyze and evaluate the performance of irrigation systems (MASSCOTE)</p> <p>2.2 Apply practical tools to analyze and evaluate performance of irrigation system in pilot cases</p>	<ul style="list-style-type: none"> • One regional training programme on AquaCrop (Cordoba, Spain); • Two national inception workshops-Including water productivity enhancement including introduction; • National on-job training on the application AquaCrop at field level • Three identification missions are fulfilled and three country assessment reports are produce • Three sites are identified with plans of actions <ul style="list-style-type: none"> • Burkina Faso: Sourou • Morocco: Moyen Sebou • Uganda: Mubuku

Progress on Outputs-2

Output	Activity	Achievements
	<p>3.1 Carry out an assessment of the status, performance and scope of improving water harvesting in agriculture</p> <p>3.3 develop and implement a training programme on water harvesting to build capacity of farmers, agricultural water extension agents, technical experts</p>	<ul style="list-style-type: none"> • Three in-country water harvesting assessments are developed; • Three stakeholders consultations for validation are conducted; • Three training of Training of Trainers (ToT)- Guided Learning on Water Harvesting (GLOWH) at National level (one for each country: Burkina Faso, Morocco, and Uganda) are prepared;
	<p>4.1 Define scale and select the sites (larger river basin; watershed) for conducting water accounting in the three countries with a problem solving focus, together with a stocktaking of what is already available and is needed</p> <p>4.2 Prepare /updated national land and water resources database supported by adequate performing water data processing and GIS software and hardware;</p> <p>4.3 Conduct a training programme for relevant personnel on the operation and maintenance of the land and water resources database, according to specific requirements/if it is assessed necessary</p>	<ul style="list-style-type: none"> • Three identification missions are fulfilled and three country assessment reports with stocktaking are produced • Three sites are identified with plans of actions; <ul style="list-style-type: none"> • Burkina Faso: Sourou • Morocco: Moyen Sebou • Uganda: Mubuku • Adjusted plans based on stocktaking missions are prepared in two countries(Burkina Faso and Uganda) to primarily install a GeoNetwork node and develop/maintain a structured database • Training programme on GeoNetworking is prepared



Summary of Achievements-1

- 1. Institutional Setting at national level has been set in place**
 - **Taskforces** are composed and functional
 - **National Coordinators** are in place
 - Technical assistants (as required) **are recruited**
 - **Logistics** are provided

- 1. Knowledge on main themes is established - Core teams from the three countries are trained (to act as resource person at national level)**
 - **Crop water Productivity-** AquaCrop
 - Water Efficiency-**MASSCOTE**
 - **Water Auditing**



Summary of Achievements-2

3. International expertise by theme are brought in
 - **Crop Water Productivity** - Letter of Agreement with University of Cordoba is signed
 - Water use efficiency - **International consultant is recruited** plus FAO/TSS is in place
 - Water Harvesting - Letter of Agreement with **Spate Irrigation Network** is signed
 - **Water Auditing** - FAO expertise is brought in - TSS



Letter of Agreements

Cordoba University

1. Diagnosis of current agricultural productivity levels:

- Current situation of major cultivated crops on
 - yield & variability
 - Irrigation regime (dates & amount)
 - Relevant agronomic practices (soil management, fertilization, crop protection etc.)
- The production of blueprints of good agricultural practices (GAP) for the main crops
 - Considering socio-economic and technical conditions

2. Field calibration of the FAO AquaCrop simulation model, the following services will be provided:

- On-farm observations of:
 - crop development
 - canopy cover,
 - biomass,
 - yield.
- Water use observations and records in coordination with the Water Efficiency project components
- Characterization of the soil properties with past studies, field surveys, and soil analyses.
- Climatic data acquisition and collection for current season and past seasons.



Letter of Agreements

Spate Irrigation Network

1. Carry out an assessment of the status, performance, and scope for improving WH for Agriculture in Burkina Faso, Morocco and Uganda:

- **Prepare and conduct WH Potential Assessment for Burkina Faso, Morocco, and Uganda:**
 - **The assessment will be built based on a collected bio-physical and socio-economic data;**
- **Identify and pre-assess partner/ and co-owner of Practical Guides**

2. Developing a training program on water harvesting to build the capacity of farmers, agricultural water extension agents and technical experts at relevant ministries by providing:

- **Prepare three Training of Trainers (ToT) Guided Learning on Water Harvesting (GLOWH) at national level;**
- **Prepare three Training Package of WH for each of the 3 countries;**
- **Carry out the GLOWH-3R trainings in the three countries.**
- **Organize exchange visits with model farmers and extension agents to learn and be inspired by successful WH experiences**



OBSTACLES

✓ **Technical:**

- ✓ Selection of pilot sites combining the major conditions/integrating major components of project;
- ✓ The link between knowledge (innovation) and national actors, institutions or individuals (learning done) and application;

✓ **Institutional:**

- ✓ Recruitment/procurements procedures
- ✓ Common understanding of TORs of national technical assistants aligned to the timeline of the implementation;
- ✓ Common understanding of the TORs with the NPC and the rationale of the project implementation;

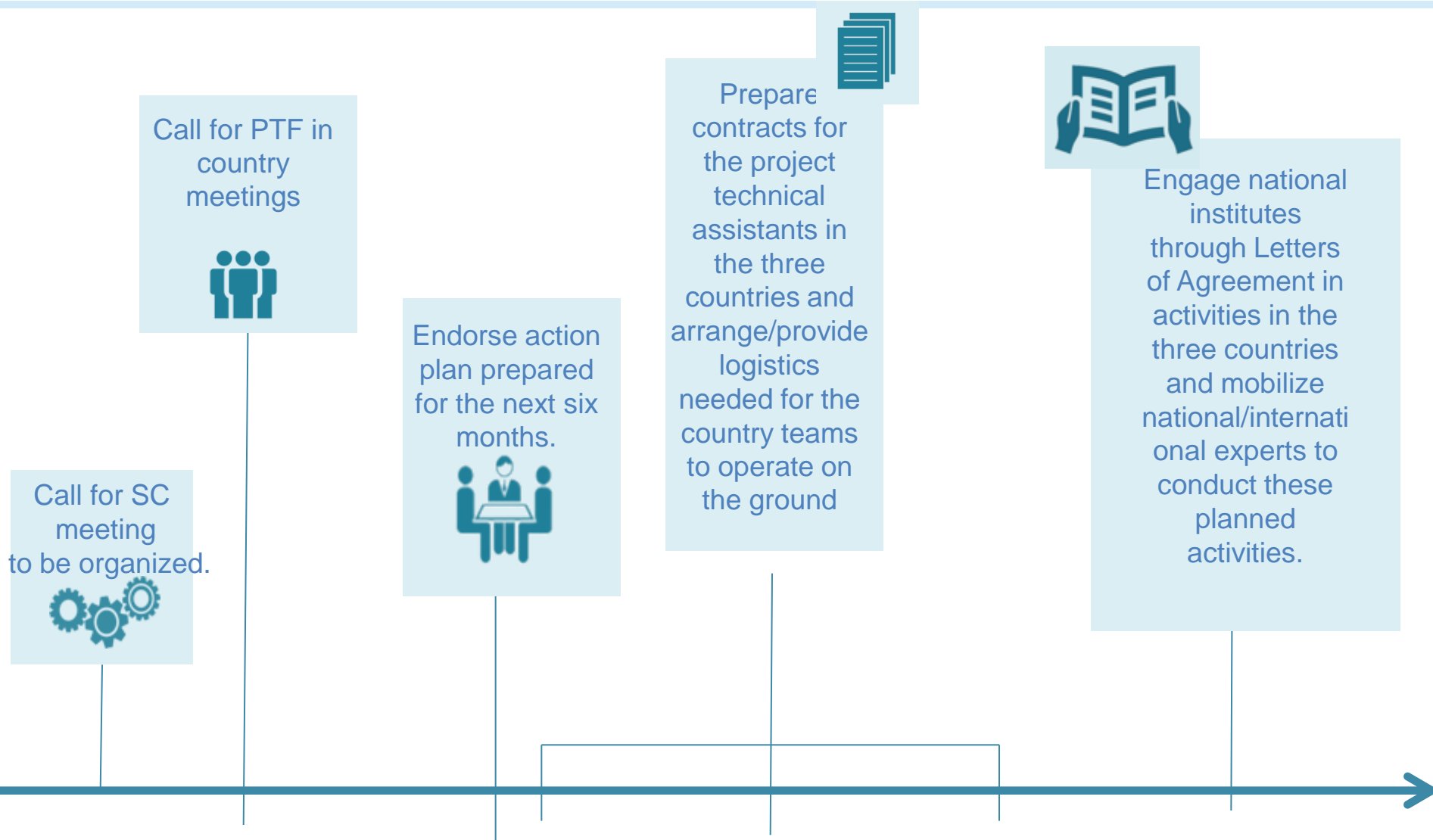
✓ **General:**

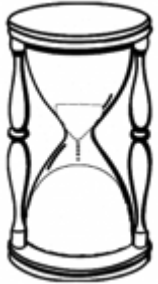
- ✓ Social conditions in the countries
- ✓ Strengthening communication link with AgWA-FAO



THE PROCESS

Follow Up Actions (2015-16)





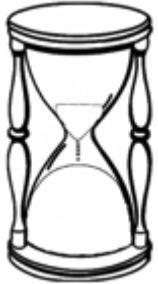
Slight adjustment to national training programmes

Action

dividing them into **introducing the theory/some practice in the inception workshops**, inception missions and the **multi-disciplinary team missions**, while the full training will be conducted, assisted by the country core teams established, when tools' application is carried out



PROBLEM ENCOUNTERED and ACTION TAKEN



Slight delay occurred to the time needed to establish project at the country level:

Delay in inception workshop in **Burkina Faso**



Combining presenting results of first year with inception to **wider audience**

THANK YOU FOR YOUR
ATTENTION!!!

