



***Rainwater harvesting irrigation management for sustainable dry land agriculture, food security and poverty alleviation in Sub-Saharan Africa***

***National kick-off meeting  
August 5, 2014  
Ras Amba Hotel***



Funded by the European Union

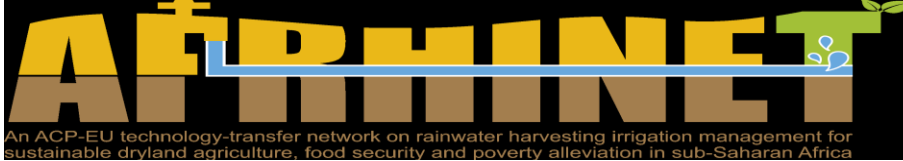


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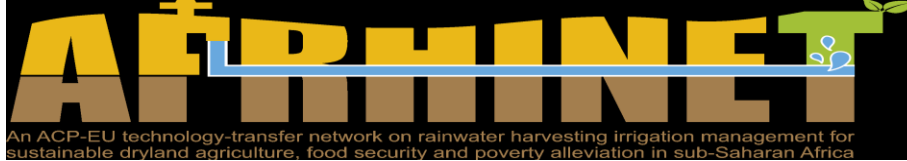
Hochschule für Angewandte  
Wissenschaften Hamburg  
Hamburg University of Applied Sciences

University of Nairobi (Kenya),  
Eduardo Mondlane University  
(Mozambique), and University of  
Zimbabwe (Zimbabwe)



- **Objective of the kick-off meeting:**
  - to introduce the project,
  - learn from stakeholders experience and
  - establish partnership in the implementation of the project
  - Design a strategy on the implementation



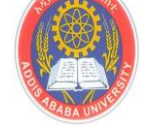
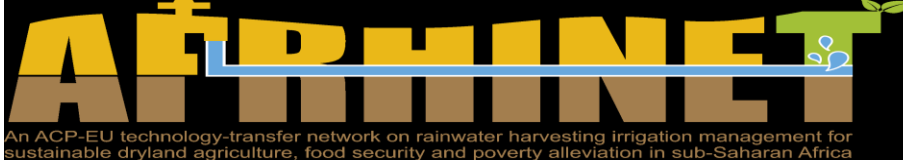


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An ACP-EU technology-transfer network on rainwater harvesting irrigation management for sustainable dryland agriculture, food security and poverty alleviation in sub-Saharan Africa

Implemented by the ACP Secretariat

- **Amount of Grant:**
  - Total Approved EUR= 475,968.93;
  - Ethiopia share EUR= 162,020.00
- **Project Leader: Ethiopia**
  - Dr. Belay Simane, AAU (Project coordinator)
  - Prof. Tafa Tulu (Project manager)
  - Ato Desalegn Dawit (Research administrative assistant)
- **Project Associate:**
  - WaterAid Ethiopia
  - ??

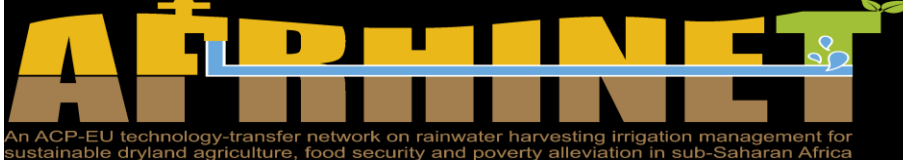


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- Objectives:
  - Foster science and technology capacities on rainwater harvesting & irrigation (RWHI) management;
  - Setup a market-oriented research and technology transfer framework to better capitalize and disseminate innovative and efficient research results;
  - Develop the capacity of the stakeholders;
  - Strengthen the link of science and technology communities with the regional market, micro-enterprises, non-governmental and public sectors;
  - Establish a long term trans-national ACP – EU network on RWHI; and
  - Disseminate, transfer and replicate the project activities and outcomes.



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- **Work Packages:**

- **WP 1 – Project Management and Monitoring;**
- **WP2: Base-Line Study on the Needs, Potential and Market-Oriented Products;**
- **WP3: Developing S&T Capacities on RWHI management for Sustainable Dryland Agriculture, Improved Food Security and Poverty Alleviation;**
- **WP4: Research and Technology-Transfer Centres on RWHI and Sustainable Dryland Agricultural Water Management;**
- **WP5: Building Food, Poverty and Climate Resilient Communities: Demonstration of Innovative RWHI Projects;**
- **WP6: Networking, Communication, Dissemination and Promotion**

# WP 1 – Project Management and Monitoring

## Activities

- National kick-off meeting at the partner countries
- Establishment of a Project Steering Group (PSG)
- Set up and adopt a binding consortium agreement
- Organise regular PSG meetings
- Internal project monitoring
- External project evaluation
- Compiling interim and final technical and financial reports
- Specific monitoring and evaluation of the work packages
- Final Evaluation Report

## Outputs

- 1 ACP-EU Regional kick-off meeting
- 1 Project steering group implemented
- 1 Consortium agreement
- 5 project management meetings incl. PSG sessions (incl. Regional Kick-off)
- 4 National kick-off meetings
- 3 internal project monitoring reports
- 3 external project evaluation reports
- 2 interim reports
- 1 evaluation report of AFRHINET's work packages
- 1 final evaluation report

# WP2: Base-Line Study on the Needs, Potential and Market-Oriented Products

## Activities

- **Organisation of regional and national multi-stakeholder workshops** to debate on capacities, needs and potential of RWHI management, its market development and stimulation of local entrepreneurship in dryland areas of sub-Saharan Africa
- **Development of baseline studies** focusing on the state-of-the-art, demands and expertise, potential for market development and local entrepreneurship, and needs for technology-transfer, in the field of RWHI management in the partner countries
  - Comparative analysis of **political and institutional frameworks**
  - Assessment of **research and innovation needs**
  - Assessment of **capacities and training needs** of the partner institutions
  - Assessment of the **technology-transfer and market development needs**

## Outputs

- **5 Multi-Stakeholder workshops:** Regional and national level
- **4 National and 1 Regional Base-line studies**
- **Publication: 1 Base-line study** on the Needs, Potential and Market-Oriented Products in the field of RWHI at the national (partner country) and regional level (sub-Saharan Africa and ACP region) (ca. 50 pages)

# WP3: Developing S&T Capacities on RWHI management for Sustainable Dryland Agriculture, Improved Food Security and Poverty Alleviation

## Activities

- Advanced capacity-building and train-the-trainer programme focusing on the **scientific and theoretical dimension of RWHI; project management and funding, for multipliers** (S&T communities, businesses/micro-enterprises, and other private, non-governmental and public institutions) **(phase 1)**
- Organisation and conduction of an advanced capacity-building and train-the-trainer programme in RWHI focusing on the **technical capacity to practically implement RWHI, for multipliers (phase 2)**
- Series of **publications** for international recognised journals
- Development of **advanced training materials in the field of RWHI** at national and regional level (rural drylands of sub-Saharan Africa)
  - Focus on the **scientific and theoretical dimension (phase 1)**
  - Focus on the **technical and practical dimension (phase 2)**
  - Focus on the **local communities** (farmers, local entrepreneurs, women and youth)

## Outputs

- Output 3.1: **4** Advanced capacity-building and train-the-trainer programme focusing on the **scientific dimension of RWHI; project management and funding, for multipliers (phase 1)**
- Output 3.2: **4** Advanced capacity-building and train-the-trainer programme on **technical capacities** to practically implement RWHI management, for multipliers **(phase 2)**
- Output 3.3: **4 publication to journals**
- Output 3.4: **3 sets of capacity-building and train-the-trainer materials**
  - Output 3.4.1: 1 set of training materials on **phase 1**
  - Output 3.4.2: 1 set of training materials on **phase 2**
  - Output 3.4.3: 1 set of training materials on **RWHI for local communities**



# WP4: Research and Technology-Transfer Centres on RWHI and Sustainable Dryland Agricultural Water Management

## Activities

- 4.1 Establishment of **Research and Technology-Transfer Centres** at each of the partner institutions
- 4.2 Implementation of **Technology-Transfer Pilot Projects**
- 4.3 Development of a local and regional **research and technology-transfer strategies** in the field of RWHI
- 4.4 Formulation of **RWHI policy-guidelines and recommendations**, and a market-oriented framework
- 4.5 **Transnational recommendation reporting**

## Outputs

- Output 4.1: **5 Research Technology-Transfer Centres** at the applicant and partner institutions
- Output 4.2: **4 Technology-Transfer Pilot projects** in the field of RWHI in the partner countries
- Output 4.3: **4 National and 1 Regional Research Technology-Transfer strategies**
- Output 4.4: **4 National and 1 Regional RWHI policy-guidelines** and market-oriented frameworks
- Output 4.5 : **1 Final transnational recommendation report** for the sub-Saharan Africa-ACP region

# WP5: Building Food, Poverty and Climate Resilient Communities: Demonstration of Innovative RWHI Projects

## Activities

- 5.1 Feasibility Study of viable RWHI projects
- 5.2 National/Regional Dialogue: Round-tables and information events
- 5.3 Demonstration of innovative RWHI management
- 5.4 Capacity Building for Local Communities
- 5.5 Organisation and conduction of study visits linked to project activities
- 5.6 Best-practices compilation

## Outputs

- Output 5.1: **4 Feasibility studies** reports
- Output 5.2: **4 national and 1 regional round-table** and information events
- Output 5.3: **4 Demonstration of innovative RWHI projects**
- Output 5.4: **4 Capacity-Building and Train-the-Trainer Workshops for local communities**
- Output 5.5: **4 study visits** linked to the demonstration trials and RTT pilot projects
- Output 5.6: **1 Best-practice compilation** of adequate and innovative RWHI management for rural drylands of sub-Saharan Africa and ACP countries

# WP6: Networking, Communication, Dissemination and Promotion

## Activities

- **Communication, Visibility and Sustainability Strategy**
- **Promotional Material**
  - AFRHINET Website, brochures, Poster , Newsletters
- **Public Dissemination and Networking**
  - **AFRHINET network** on “science and technology for rainwater harvesting irrigation (RWHI) and sustainable dryland agricultural water management”
  - **Expanding with already existing networks**
  - International Networking, dissemination and promotion events

## Outputs

- **Communication, Visibility and Sustainability Strategy**
- Promotional Material
- Public Dissemination and Networking
- **1 Wrap-up event in Mozambique**



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## • Activities

- Baseline studies to assess capacity needs, potential and market oriented products in the field of RWHI.
- Development of self-replicable capacities on RWHI management.
- Research and technology-transfer centres to serve as hubs and expertise in the field of RWHI.
- Demonstration of innovative RWHI management.
- Enhancing networking capacity of academic and scientific institutions with other relevant stakeholders at national and international levels.
- Dissemination, promotion and awareness to serve as a platform for cooperation and exchange of experience in RWHI management.

# Institutional arrangement

- Steering committee
- Technical task force

# List of stakeholders

- The stakeholders are categorized into four
  - Government
  - Universities and research institutes
  - Development partners
  - CSOs
  - Private sector

# Government

- Ministry of Water, Irrigation and Energy
- Ministry of Agriculture
- Ministry of Environment and Forest
- Ministry of Science and Technology
- Cooperatives Agency
- Ethiopian Meteorological Agency
- Parallel regional governments

# Academics and research institutes

- Addis Ababa University – CDS, Climate Science Center, Ethiopian Institute of Water Resources, Department of Earth Sciences
- Regional universities – Arba Minch, Haramaya, Hawassa, Mekele, Bahir Dar
- EIAR
- Regional agricultural institutes



# Development Partners and CSOs

- WaterAid
- Rainfall water harvesting association
- Water action
- Rain foundation
- RiPPLE
- Ethiopian Academy of Sciences
- Ethiopian Geological Society
- DICAC
- CCRDA
- IWMI
- USAID
- UNICEF

# Responsibilities of stakeholders

- Federal government
  - Guidance and direction in relation to existing policies and avoidance of duplication of activities
  - Facilitation of implementation works
  - Provision of data
- Regional government
  - Monitoring, supervision, implementation, and evaluation of project activities
  - Coordination of activities
  - Collection, compilation, and provision of data
- The main actors of the project are those at the woreda level.

# Responsibilities...(cont'd)

- Academics and research institutes
  - Addis Ababa University
    - Coordination of overall research works
  - Research institutes
    - Identification of research areas
    - Designing of research methods
    - Compilation of best practices
    - Capacity building

# Responsibilities...(cont'd)

- Development partners
  - Technical support
  - Facilitation of project implementation
  - Participation in implementation of project activities
  - Financial support

# Responsibilities...(cont'd)

- Civil societies
  - Technical support from professional associations
  - Community mobilization at a grass root level including problem identification and project planning
  - Provision of local experiences

# Responsibilities...(cont'd)

- Private sector
  - Encouraging the private sector to be engaged in water harvesting activities
  - Efficient use of water resources

# Baseline study

- Needs assessment
- Capacity assessment
- Potential assessment

# Roles of stakeholders in baseline study

- Roles of universities and research institutes
  - Problem identification
  - Developing research methods
  - Data analysis and interpretation
- Roles of government offices
  - Providing data – secondary data, publications, compiled experiences
  - Facilitation of data collection



# Implementation methods

- Collection of existing data and compilation of evidences
- Designing research methods
- Data collection and validation
- Data analysis

# Implementation sites

- Selection of study sites shall be made based on the consideration of the following points
  - Water stressed and food insecure areas
  - Agro-ecology
  - Livelihood types



Funded by the Europe:

- **Group Activities**

- **What kind of project/institutional arrangement is needed?**
  - **Steering committee,.....**
- **Which stakeholders are relevant to the specific research issues?**
- **How do we implement the research/ Methodology?**
- **Where do we focus to implement the research/ potential sites? Indicators?**
- **Others.**