AFERIA PROJECT MULTI -STAKEHOLDER FORUM

Activities Implementation in the Mt. Kilimanjaro region
Pangani Basin – Tanzania

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Presentation Outline

❖ Overview of Pangani Basin
❖ Project Description
❖ Focus Areas
❖ Opportunities and Achievements
❖ Monitoring and Evaluation
❖ The Way Forward
Overview of Pangani Basin

I  Pangani Basin
II  Wami und Ruvu Basin
III  Rufiji Basin
IV  Ruvuma and the Southern Coast Basin
V  Lake Nyasa Basin
VI  Internal Drainage
VII  Lake Rukwa Basin
VIII  Lake Tanganyika Basin
IX  Lake Victoria Basin
Overview.....

- **Area**: 56,300 Km² (5% in Kenya)
- **Administratively** found in: Arusha, Kilimanjaro, Manyara and Tanga Regions (20 DCs)
- **Transboundary Basin** (Lake Chala – Jipe & Umba River, shared with Kenya)
- **Population**: About 4 Millions (census 2012)
- **Rainfall**: Bimodal basin - long rains (March-June) & short rains (Oct –Dec)
Overview……

The Basin is led by Basin Water Board (10 members)

• Roles and Responsibilities accord. Sect 23 of Water Act No. 11 of 2009 include:
  – Water Resources monitoring and assessment
  – Water Allocation (issuing and managing of water permits)
  – Strengthen community participation in WRM
  – Coordinate water resources management and development planning
  – Water quality monitoring and pollution control
  – Water use conflict management
  – Water sources protection and conservation
Project Description

**Development project:** coordinated by *icipe*

**Funded:** by the Ministry for Foreign Affairs of Finland

**Duration:** January 2016 – December 2017

**Geographical coverage:**
- Ethiopia (Jimma)
- Kenya (Taita Hills & Murang’a)
- Tanzania (Kilimanjaro)
Project Description

• **Outcome:** Improved capacity of public and private actors to gather information on and to adapt to the effects of climate change in eastern Africa.

• **Purpose:** Disseminate and communicate the research results of CHIESA project for rural communities and professionals working with climate change-related issues, and to strengthen their capacities to monitor and adapt to the impacts of climate change on ecosystem services.

Uparo P/School at Uparo village, Uparo ward in Moshi District Council
Focus Areas

• Water resources (e.g. rainwater harvesting & efficient irrigation systems)
• Environmental conservation i.e. trees nurseries establishment
• Pest & disease control and management
• Coffee, maize, avocado & crucifers
Focus Areas

• **Rainwater harvesting systems**
  - 2 sites identified & installed with the roofs systems
  - Uparo P/Sch. & TAG church

• **Efficient irrigation systems**
  - 10 sites identified & 6 installed with the drip systems
  - 2 drip systems/zone i.e. Highland (Kirua), Middle (Uchira) and Lower (Miwaleini)
  - 6 farms installed are from Yam Makaa, Kisangesangeni, Kanango, Marua, Miwaleini & Kawawa villages

Roof rainwater harvesting at Uparo Primary School

Drip irrigation system at Benedict Marando’s farm – Miwaleini village
Focus Areas

• Environmental conservation i.e. trees nurseries establishment
  - 4 sites identified & trees nurseries established in all sites
  - Trees nurseries established at 3 P/Schools (Mwangaria, Ngasini & Kanji) and one Env. Group (Muungano)
  - These 4 sites are from Mwangaria, Kanji, Ngasini & Koresa villages

Tree nursery establishment at Mwangaria Primary School
Focus Areas

- Pest & disease control and management i.e. coffee
  - About 63 coffee farms were surveyed for presence of coffee berries infestation with coffee berry borers (CBB)
  - 9 farms selected & installed (one farm per village) with CBB traps by use of Brocap trap
  - Farms installed are from Marua, Kanango, Nduoni, Kanji, Iwa, Kwamare, Manu, Yama and Uparo villages (medium and high altitudes)

- Pest & disease control and management i.e. maize, avocado & crucifers
Opportunities and Achievements

*Participation on World Environmental Day, Kifaru-Mwanga, Kilimanjaro:*
- PBWB collaborate with TaCRI.
- Event ran for 6 days (1-6/6/2017)
- Technologies like drip systems & CBB traps were displayed to visitors
- Various project brochures were disseminated to visitors
- 800+ people participated in the event, 65 people visited our exhibition place (36 males and 29 females)

*Participation on Nane Nane, Njiro - Arusha:*
- PBWB collaborate with TaCRI, NIC and Ngurdoto Fluoride Research Inst.
- Event planned for 8 days (1-8/8/2017) but extended to 13/8/2017 by Guest of Honour
- Our exhibition win 3rd place among Government Institutions

**2 Extension Officers on IPM in Nairobi**
Monitoring and Evaluation of Project Sites

• 2 missions of team from ICIPE, Nairobi visited our project sites
  1. On 23 – 25 April 2017 and
  2. On 26 May 2017

• Some of actions aired during the two missions for sustainability of the project are;
  ✓ Regular follow-up to all activities implemented
  ✓ Capacity training to local people/farmers for activities implemented by the project i.e. roof rainwater harvesting, drip irrigation and integrated pest management
  ✓ Participate to events related to our project i.e. World Environmental Day & NaneNane Event, 2017
  ✓ Multi-stakeholder forum

Monitoring and evaluation of drip irrigation system at Kawawa village
Way Forward

• Installation of 4 remain drip irrigation systems.
• Monitoring and assessment of installed 4 roofs rainwater harvesting and 6 drip irrigation systems
• Monitoring and assessment the effectiveness of Brocap trap for Coffee Berry Borer management in installed 9 farms
• Farmer field schools for training on integrated pest management of avocado, maize and crucifers for field assessments of the selected farms
• Awareness creation on technologies and scientific research results to local farmers
• Climate variability and change assessment and adaptation
Thank you for your attention!!!

Asanteni!!!