



Water and
Environment Centre



PARTICIPATORY WATERSHED MANAGEMENT PROJECT DHAMAR PWMP

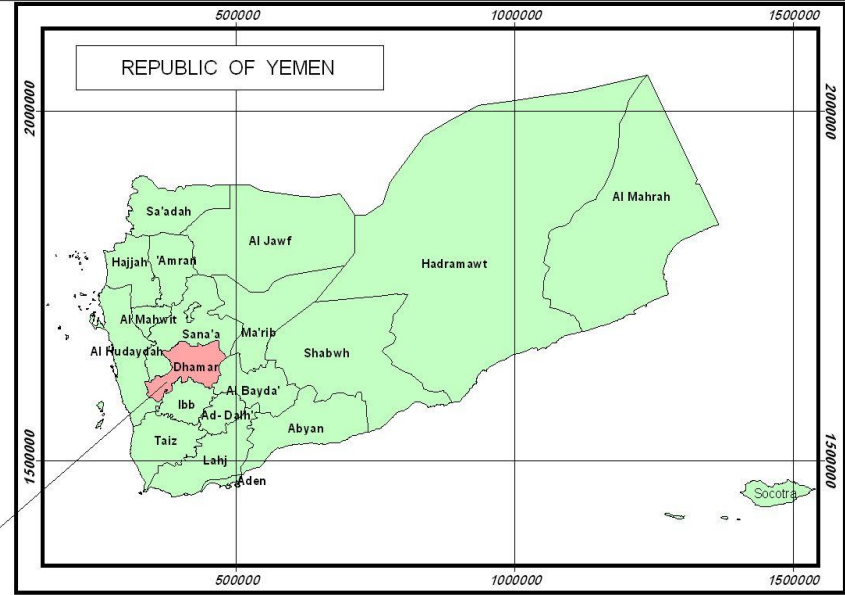


Dr. Naif Abu-Lohom
PM

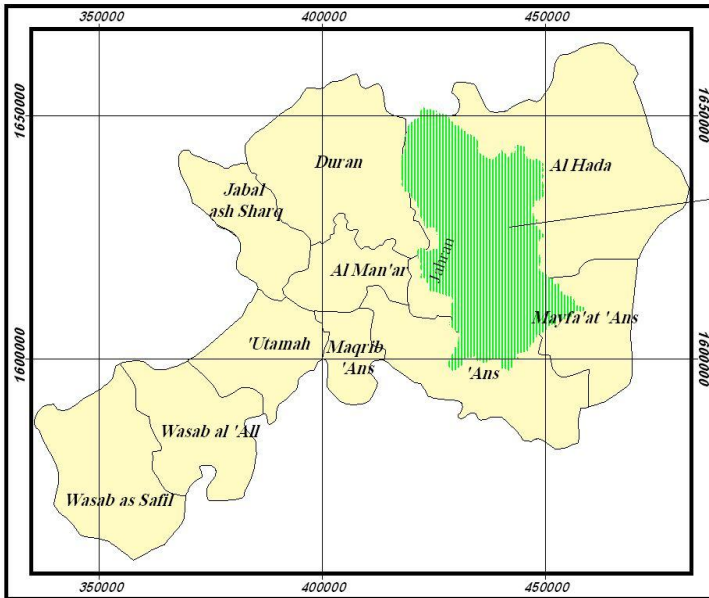




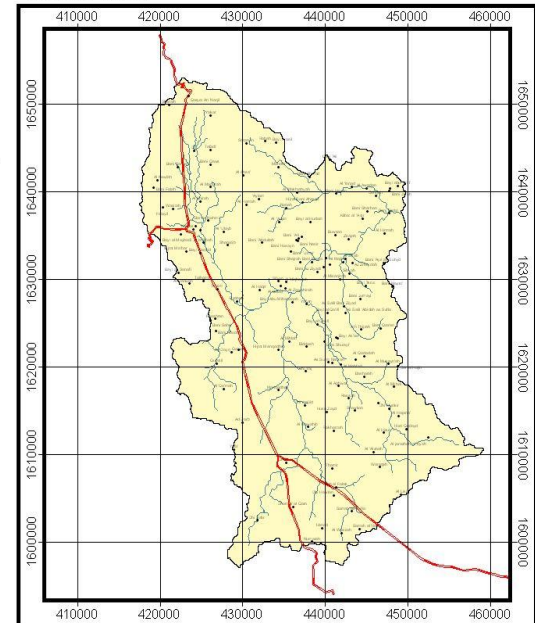
LOCATION MAP OF THE PROJECT AREA IN YEMEN



DHAMAR GOVERNORATE



PROJECT AREA



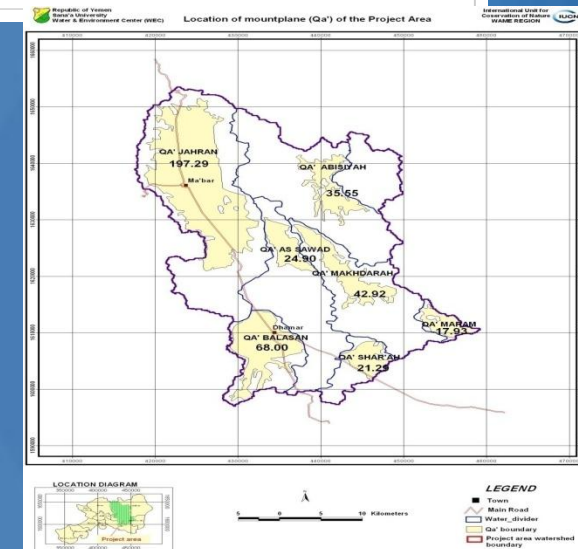
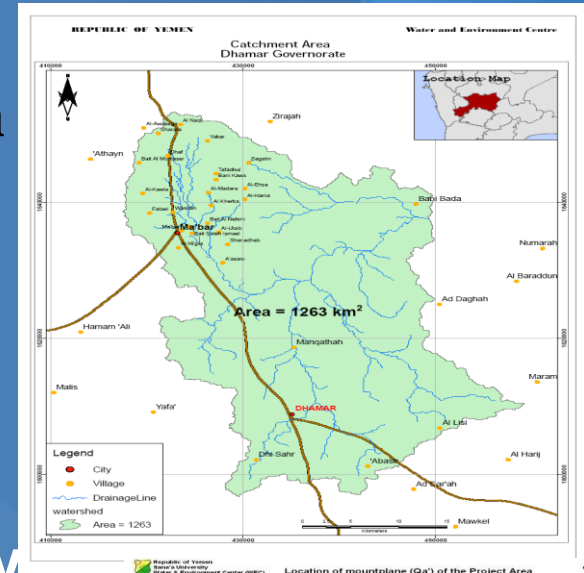


Project Overview

- The watershed has an area of **1263 sq.km**

- The watershed is occupied by:

- Several mountains
- Several valley/ broad plains (locally called Qa'a's) and intervening area





PWMP

Long Term Goal:

Security of rural people's and livelihoods in Dhamar catchment

This will be enhanced through:

- the demonstration of watershed management and
- sustainable management of water resources and ecosystem services





- **Main Partners**

- MWE

- MAI

- SFD

- Agricultural office - Dhamar

- Agricultural Extension Research Authority

- Participatory Rural Development Project

- Local Councils

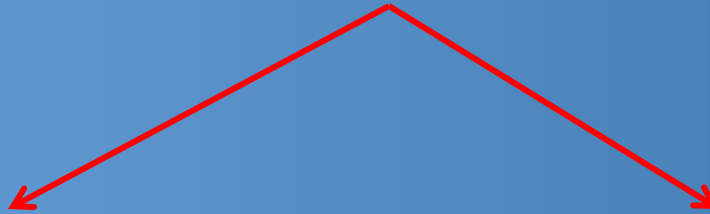
- Local governmental offices

- Public Works





PWMP



INCEPTION PHASE



(3 MONTHS PERIOD)
Jan. – March, 2009

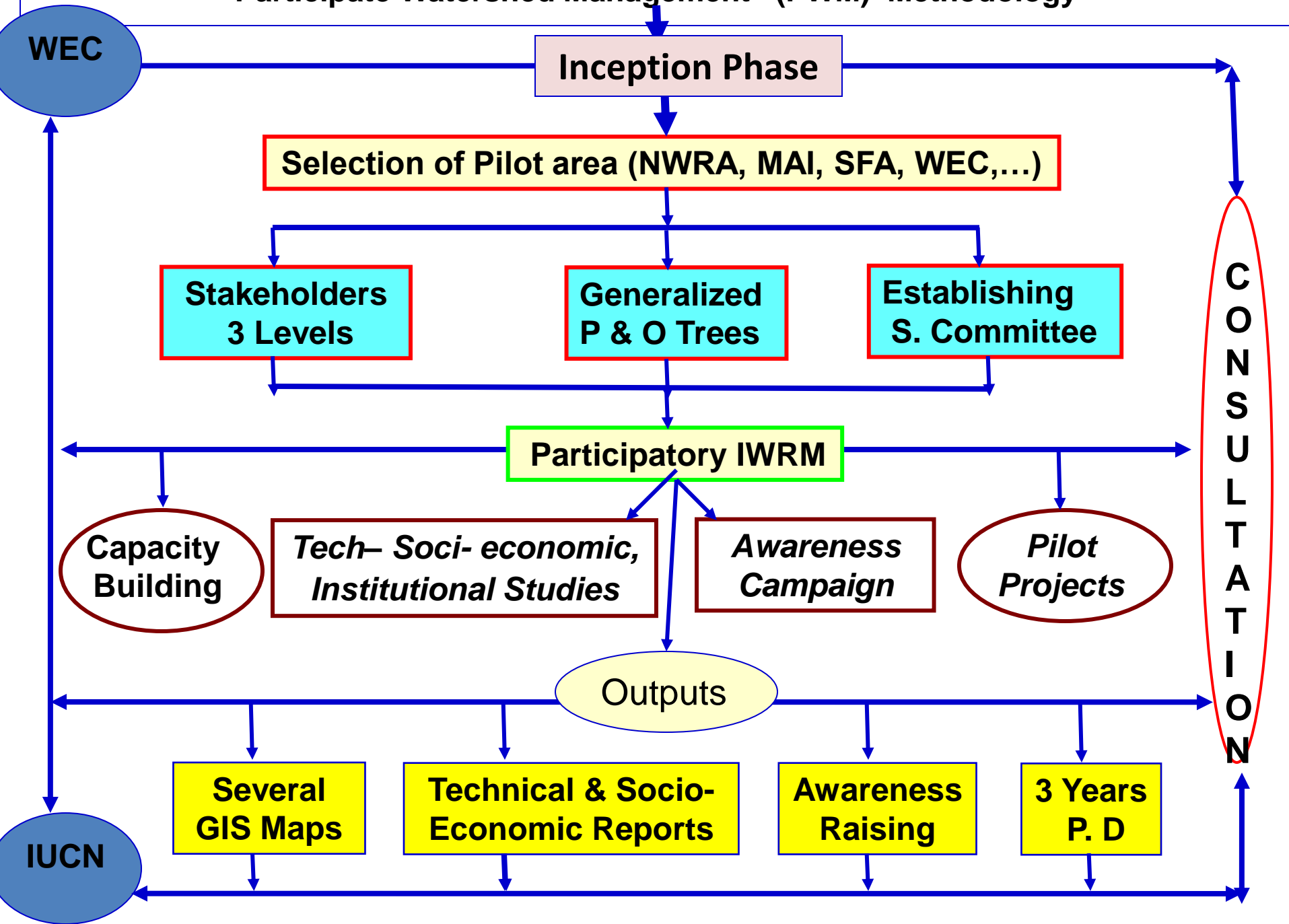
IMPLEMENTATION PHASE



(3 YEARS PERIOD)
2009 - 2012



Participate Watershed Management (PWM) Methodology



PWM MAIN COMPONENTS



Components

Component 1:

Stakeholder consultation, participatory planning and project coordination

Component 2: Conducting Studies:

Water resource, environmental and socio-economic impact assessment, etc.

Component 3:

Development of system analysis tools (possibly DSS).

Component 4:

Development of an integrated master plan for the targeted watershed

Component 5:

Development and implementation of different pilot projects to test solutions for Watershed management

Component 6:

Empowerment of local communities and their organizations, private sector, NGOs and local government agencies.

Component 7: Documenting the learning process and sharing information and knowledge at different levels (local, national and regional).



Water and
Environment Centre

Implementation Phase:



Duration: 3 Years

(MAY, 2009 – APRIL, 2012)

Donor: DGCS

(Italian Foreign Ministry)

Supporting and supervising:

IUCN

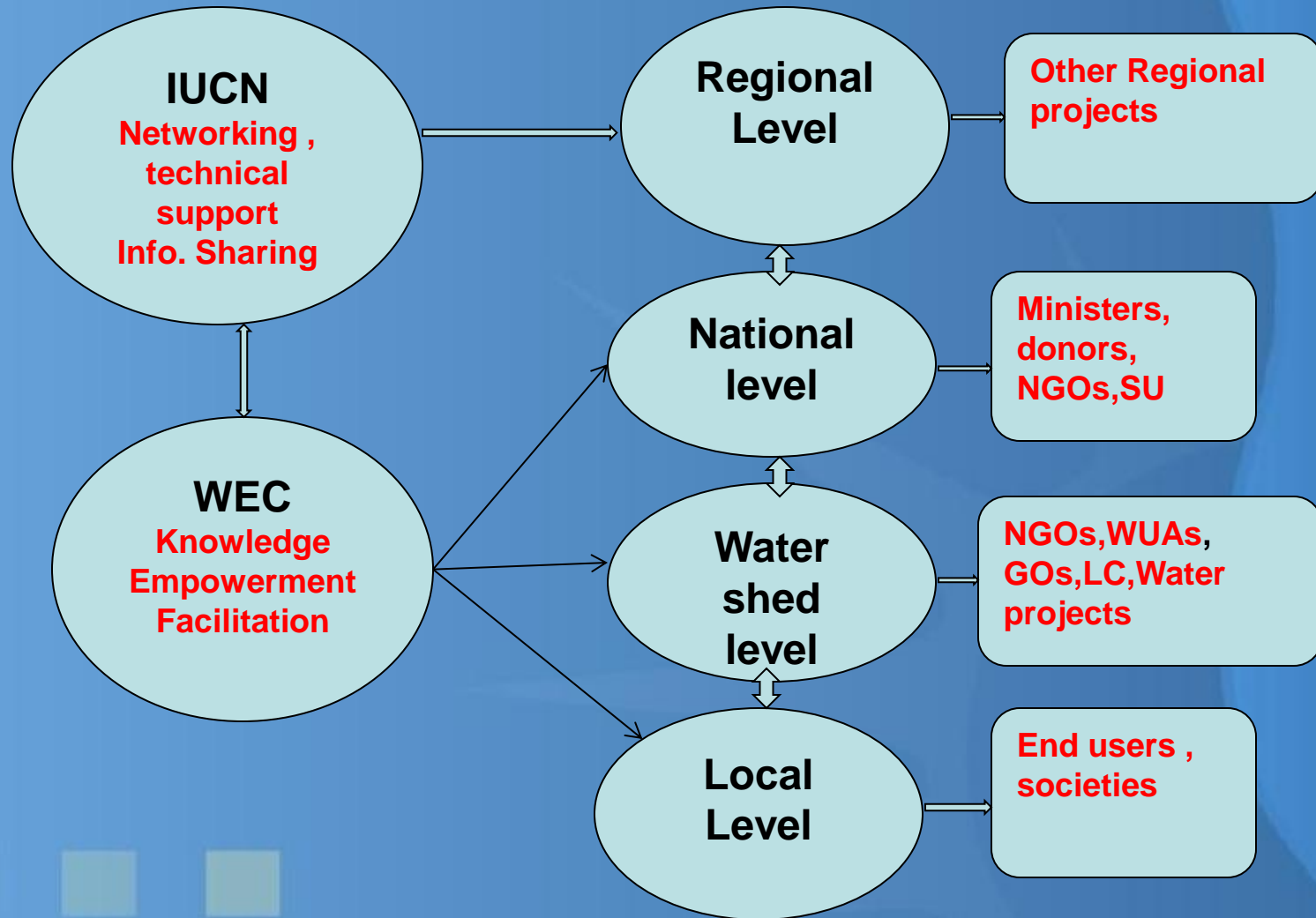
Implementing Agency:

WEC, SU





Project communication Platform





Component 1

Stakeholder consultation, participatory planning and coordination

Main Outputs

A. Planning and Project Coordination

- Preparation of work plans according to the project components
- Open project office in Dhamar city
- Establishing technical committee at governorate level
- Follow up meetings with project team and Communities

B. Stakeholder Consultation :

- Identification of stakeholders at governorate and local levels
- Identification problem and objective trees.
- Consultation meetings and workshops with relatives offices





• **CONSULTATION WORKSHOP**

- **1st Consultation Workshop with government offices of Dhamar**
- **2nd Consultation Workshop with Technical Committee**
- **3rd Consultation Workshop with NGO of Dhamar.**
- **4th Consultation Workshop with representatives of WUGs**

• **CONSULTATION MEETINGS:**

- 1. With core staff**
- 2. With local communities**
- 3. With different associations**





Component 2: Conducting studies

Technical Studies:

- Literature review, analysis and identification of the main information gaps
- Technical report for entire Watershed
- Detail Technical report for the new catchment (5 villages)

Socio - economic Studies:

- Literature review, analysis and identification of the main information gaps
- Prepared questionnaire to collect social and technical data (PRA Survey)
- Implement field survey in representative villages of project area
- Inventory of 23 Non Government Organization (NGO's) in Dhamar city
- Socioeconomic baseline report for entire Watershed
- Detail Socioeconomic baseline report for the new catchment (5 villages)





PRA Survey and Awareness Campaign

Field survey and collection data



Awareness campaign and identification of community problems and needs





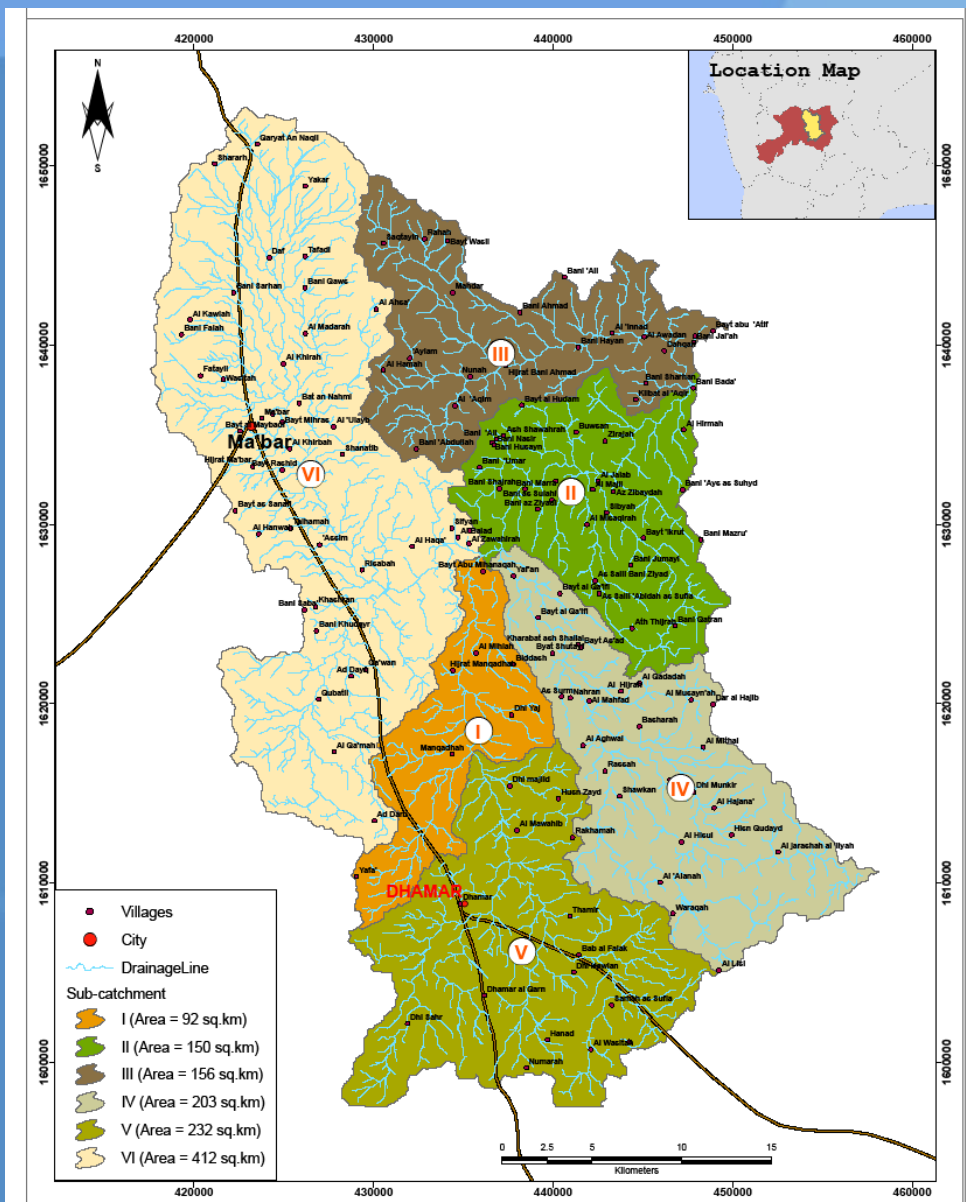
Water and
Environment Centre

Component 3 :

Development of system analysis tools (IWMIS + PMC and possibly DSS)

Main Outputs

- DSS meeting has been conducted on Amman (6-16/11/2009) to discuss DSS activity in Yemen Project.
- Identification the targeted area for applying DSS with full consultation with IUCN-ROWA





Water and

Selection Criteria for sub-catchment selection for Implementation of DSS

N	Sub-Watershed	Criteria							Total Scours (100)	Ranking
		Water Divide (10)	Water Scarcity (20)	Environ-mental risks (20)	Community Participation (15)	Availability of Data (15)	Agriculture Activities (10)	Presence of WUG's / NGO's(10)		
1	Sub-watershed I Manqtha.	10	10	15	7	10	10	5	67%	V
2	Sub-watershed II. Zirajah	10	15	10	10	10	5	5	65%	III
3	Sub-watershed III. Nonah	10	15	10	8	10	5	5	63 %	IV
4	Sub-watershed IV. Qa'a Jahran	10	15	10	20	20	10	10	95 %	II
5	sub-watershed V. W. Al-Mawaheb	10	15	20	20	15	10	8	98 %	I
6	Sub-watershed VI. Jabal Al-Lisi	10	10	10	8	8	5	5	56%	VI



Water and
Environment Centre

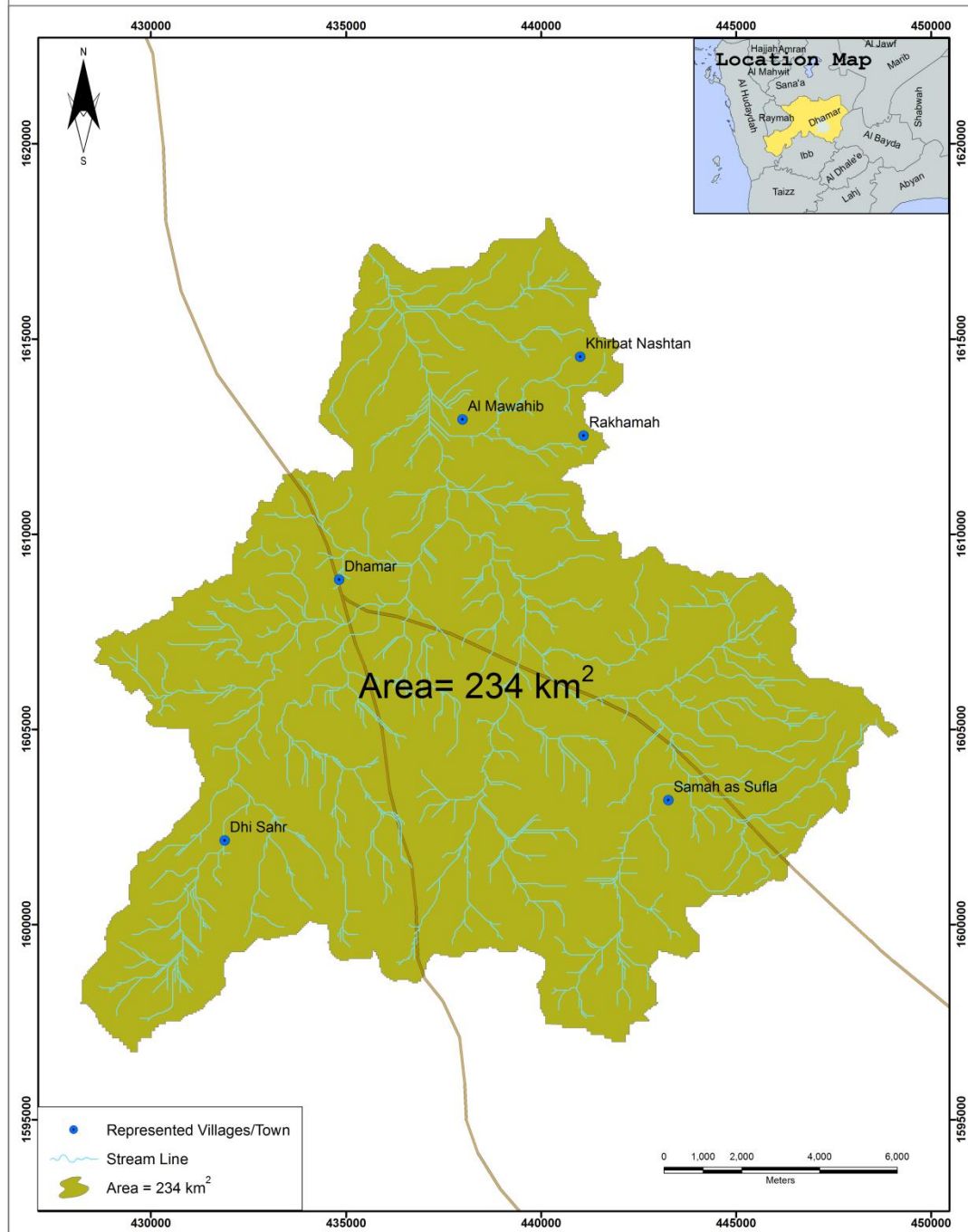
- Approval of the new selected sub-watershed by :

- The Technical Committee
- The Steering Committee
- IUCN-ROWA

- Collection of technical and socio-economic data for DSS, in participatory way according to RIDA approach

(Resources, Infrastructure, Demand and Access)

Sub-watershed Pilot Area - Dhamar





Water and
Environment Centre

Component 4

Development of an integrated master plan for the targeted watershed in the Dhamar Governorate as a model for replication locally and regionally .

Main Outputs

consultation Workshops have to be conducted for water resource specialists and Community representative at governorate and national levels





Water and
Environment Centre

Component 5:

Development and implementation of different pilot projects

Main Outputs (Inception Phase)

- Two pilot projects of rain water harvesting have been implemented in:

- Wasta and
- Zrajah villages

in Jahran and Al-Hadda Districts respectively





(Implementation Phase)

- ጠቅላይ ሚኒስትር ጋራ ግብርና ጥቅም
 ግብርና ጥቅም ግብርና ጥቅም ግብርና ጥቅም
 ግብርና ጥቅም ግብርና ጥቅም ግብርና ጥቅም
 ግብርና ጥቅም ግብርና ጥቅም ግብርና ጥቅም
 ግብርና ጥቅም ግብርና ጥቅም ግብርና ጥቅም
 ግብርና ጥቅም ግብርና ጥቅም ግብርና ጥቅም
 ግብርና ጥቅም ግብርና ጥቅም ግብርና ጥቅም
 ግብርና ጥቅም ግብርና ጥቅም ግብርና ጥቅም
 ግብርና ጥቅም ግብርና ጥቅም ግብርና ጥቅም



- ግብርና ጥቅም ግብርና ጥቅም ግብርና ጥቅም
 ግብርና ጥቅም ግብርና ጥቅም ግብርና ጥቅም
 ግብርና ጥቅም ግብርና ጥቅም ግብርና ጥቅም
 ግብርና ጥቅም ግብርና ጥቅም ግብርና ጥቅም
 ግብርና ጥቅም ግብርና ጥቅም ግብርና ጥቅም



Water
Environment Centre

Component 6:

Empowerment of local communities and their organizations, private sector, NGOs

Main Outputs

- Design and conduct an Awareness program
 - Lectures:

Several Lectures were given during Ramadan to the local community .
 - Preparation of brochures, awareness messages (stickers and 3A posters)
 - Preparation of Evaluation form
 - Attending the T. O. T InWent workshop for water awareness in Sana'a held in the period 3-8/10/2009.



Formation of Water User Groups In Dhamar city from different (8 WUG's)

Target group	Description
Imams of Mosques	One WUG (Men)
Local council of Dhamar city	One WUG (Men)
NGO's	Two WUG (Men)
Schools managers	One WUG (Men)
Schools teachers	Two WUG (Men)
	7



Formation WUG's in 5 villages.

Village	Description
Al-Mowaheb	3 WUGs (2 men and 1women)
Kharbh Nashtan	2 WUGs (1 men and 1women)
Rakhamah	2 WUGs (1 men and 1women)
Samah Al-Sofla	2 WUGs (1 men and 1women)
Themer	One WUG (Men)





- Empowerments Community Training program (Theoretical and Practical) for representatives WUGs (Men & Women) has been implemented

- Preparation of a Training Package for WUGs empowerment:

- ✓ Hydrogeological Training Manual

- ✓ Manual Of Irrigation Water Management

- ✓ Training Manual of Participatory Water Management (PWM)





Water and
Environment Centre

Component 7:

Documenting the learning process

Main Outputs

All project activities have been documented covering

- **Minute of Meetings:**

- Regular staff meetings
- Steering committee meetings
- Technical committee meetings

- **Consultation meetings and Training Workshop Reports**
(Regional, National & Local)

- **Technical and Socio-economic Reports**

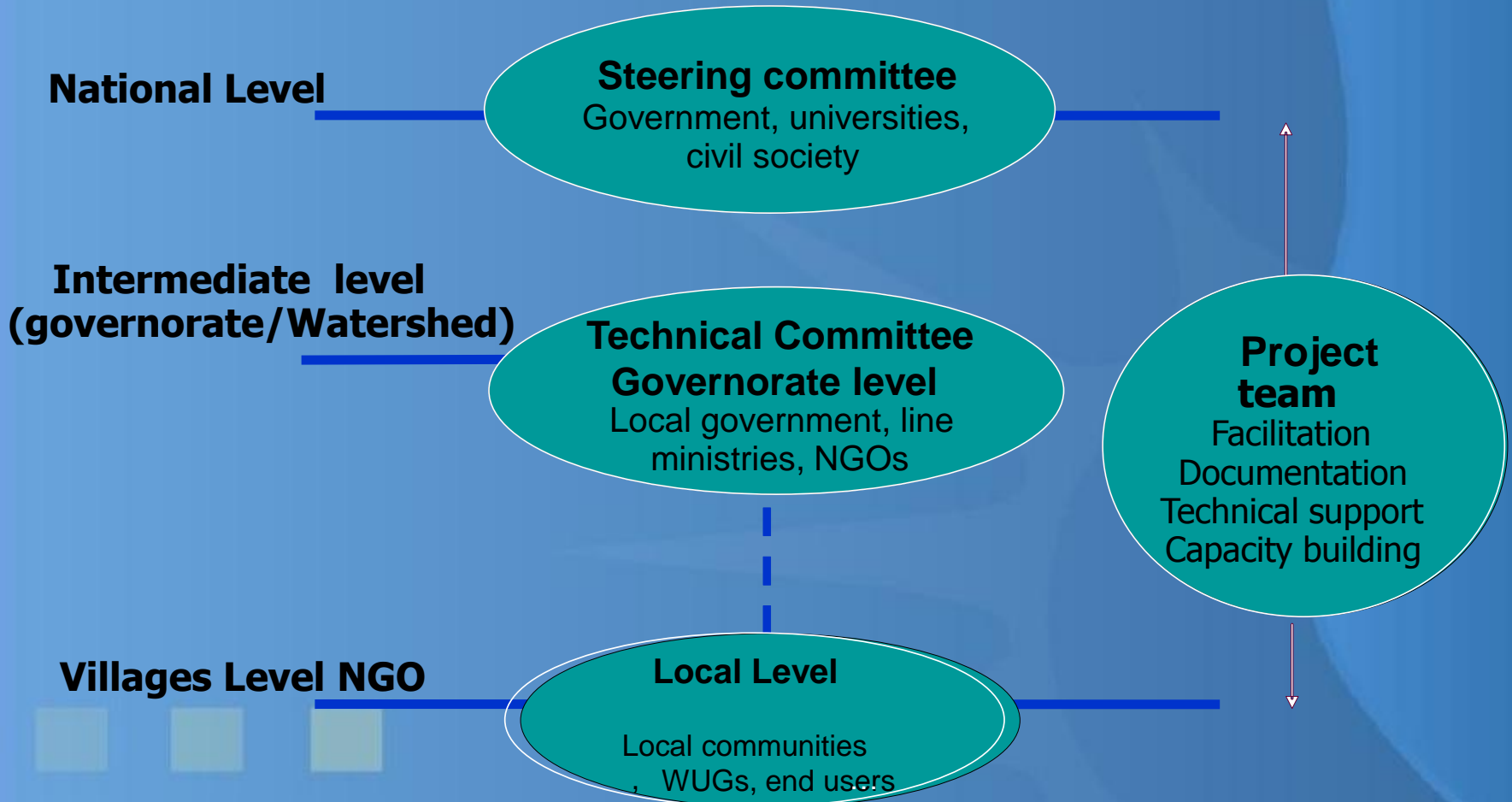
- **Awareness activities**

- **Monthly and Quarterly progress Reports**





Development of participatory platforms at different levels





Achievements

1. Partnerships at different levels (Regional, National, Governorate and Local)
 - Establish cooperation with stakeholders
 - Share information
 - Exchange knowledge and expertise
 - Regular meeting (Training workshops)
2. Awareness increased amongst farmers and local community
3. Establishment of WUGs (Men and Women)
4. Development participatory platforms
5. Documentation of activities
6. Technical and Socio-economic data base
7. Development of Training manuals





**THANKS FOR
ATTENTION**

