

Project of Adaptation to Climate Change – Oases AreasPACCZO



SUMMARY

- Objectives
- PROJECT SUMMARY
- Operational planning
- Project components
- Achievements

OBJECTIVES

*The objective of the project is to help reduce the vulnerability of people and oasis agro-ecosystems in Morocco to climate change by **increasing the adaptive capacity of local actors, increasing the resilience of the target ecosystem and by disseminating knowledge management***

PROJECT SUMMARY



5 years
Start : 2016



\$ 9,970,00



Localization
Morocco



Implementation

Milestones	Expected Dates
Start of Project Implementation	2016
Mid-term Review	2018
Project/Programme Closing	2020
Terminal Evaluation	Dec 2020

PROJECT SUMMARY



5 years
Start : 2016



\$ 9,970,00



Localization
Morocco



Implementation

Source : Adaptation to Climate Change Fund.

Type of Funding : Donated.

- **Total Project cost : USD 8,315,990**
- **Project execution cost : USD 872,950**
- **Implementing Fee : USD 781,060**

PROJECT SUMMARY



5 years
Start : 2016



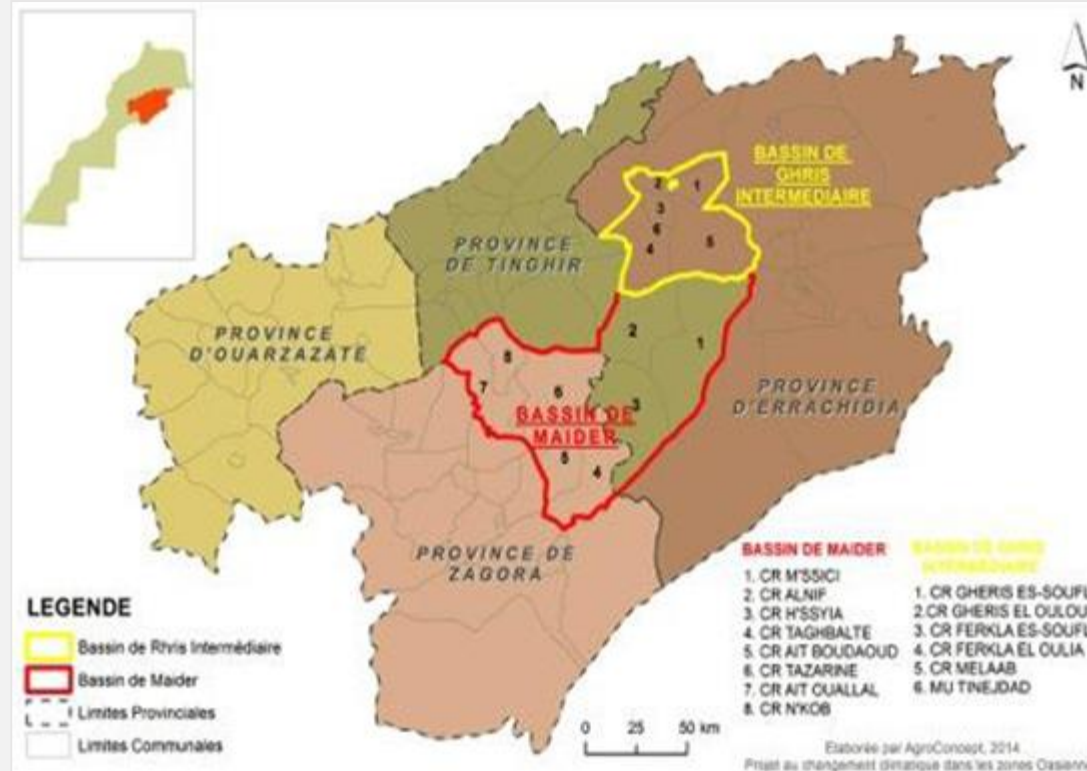
\$ 9,970,00



Localization
Morocco



Implementation



PROJECT SUMMARY



5 years
Start : 2016



\$ 9,970,00



Localization
Morocco



Implementation

- **National Implementing Entity:** Agency for Agricultural Development (Agence pour le Développement Agricole – **ADA**)
- **Executing Entity:** National Agency of Development of Oases and Argan Tree Zones (**ANDZOA**).

PROJECT COMPONENTS

The project is built on five main components, namely :

1. Improving adaptive capacities of the water sector.
2. Diversifying income sources and improving the living conditions of populations vulnerable to climate change in the targeted areas.
3. Improving the ecosystems' resilience in response to climate change and variability.
4. Improving stakeholder awareness through the management and exchange of knowledge.
5. Strengthening the capacities of participants in the design and implementation of adaptation measures.

ACHIEVEMENTS

Component 1 : Improving adaptive capacities of the water sector

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Component 1 : Improving adaptive capacities of the water sector

**Construction of groundwater
replenishment structures**

**21 Khetaras &
Undergrounds
Dams**

4640 ml

**Construction of Structures
for perimeter protection**

7 protective walls

1230 ml

**Feasibility studies for the
exploitation of deep water
resources**

3 Studies

- ✓ **2 Explorations**
- ✓ **4 Piezometer**

**Rehabilitation of irrigation
networks**

**Construction of 23
irrigation canals**

9520 ml

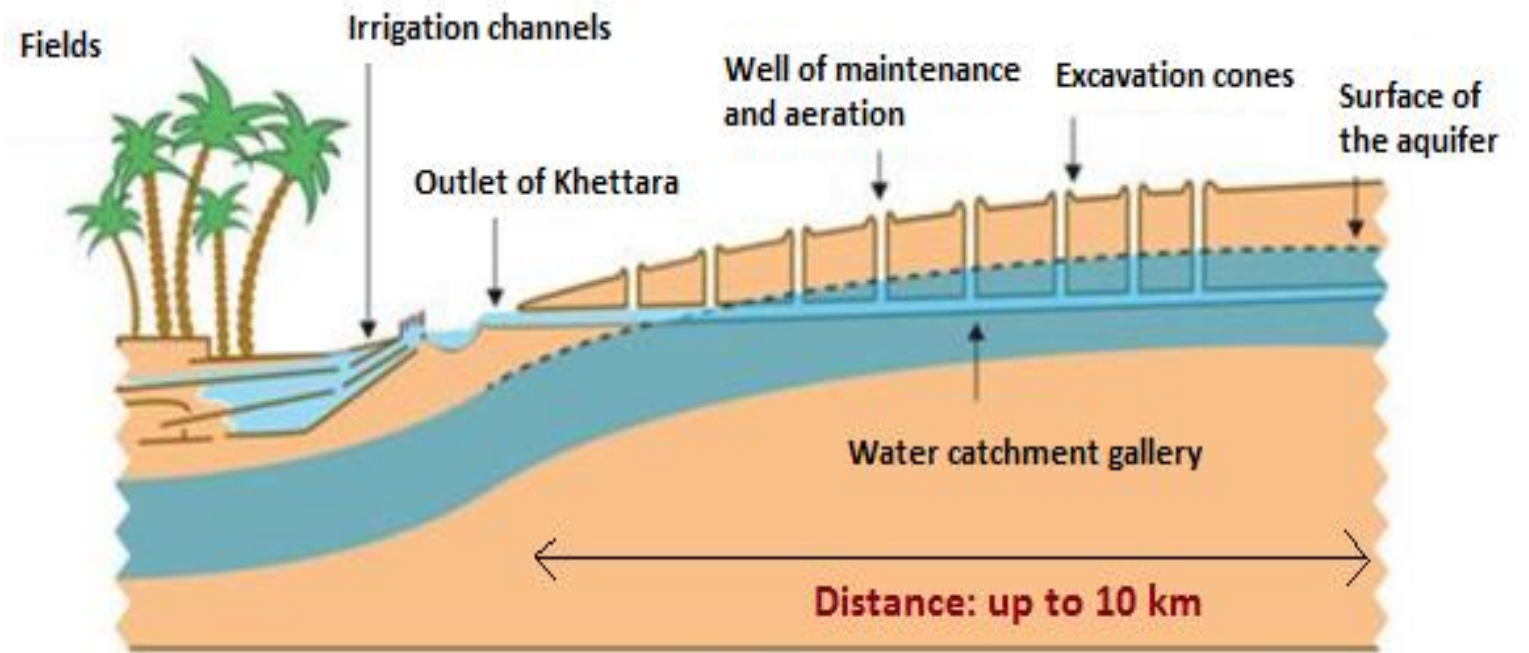
ACHIEVEMENTS

Component 1 : Improving adaptive capacities of the water sector

**Construction of
groundwater
replenishment structures**

**21 Khetaras &
Undergrounds
Dams**

4640 ml



How khattara works ?

ACHIEVEMENTS

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4640 ml



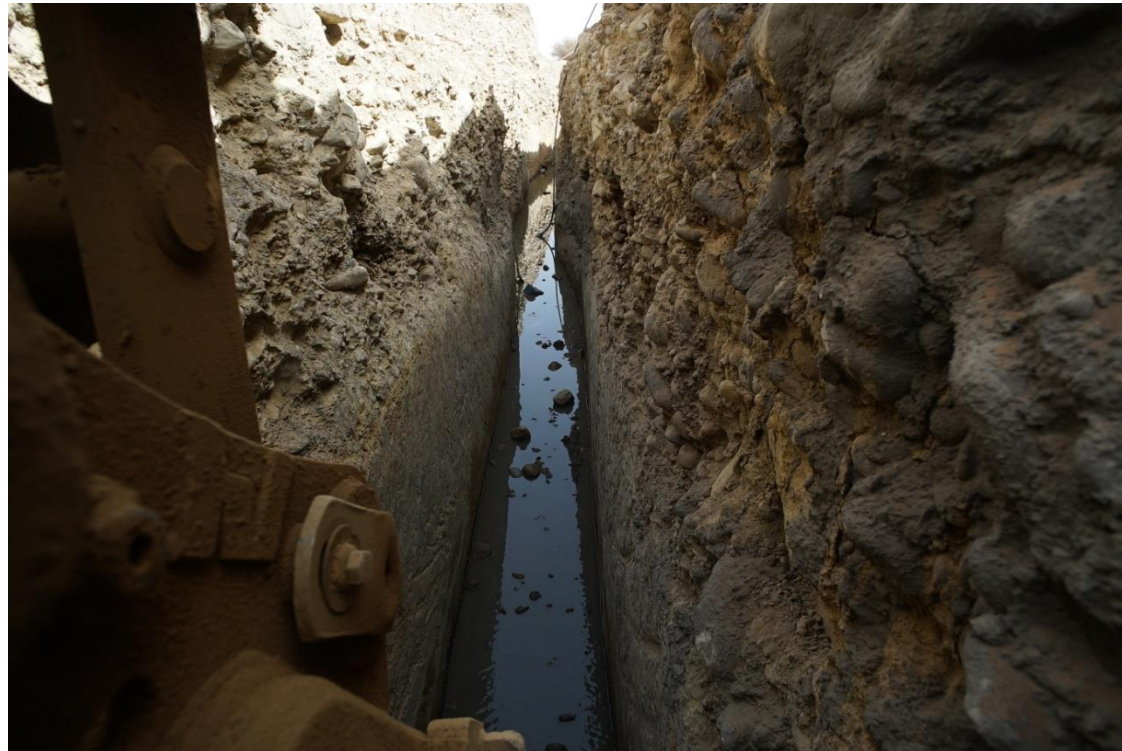
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Component 1 : Improving adaptive capacities of the water sector

**Construction of
groundwater
replenishment structures**

**21 Khetaras &
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4640 ml



Cleaning works of a khetara

ACHIEVEMENTS

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**Construction of
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Rehabilitation works of a khetara

ACHIEVEMENTS

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**21 Khetaras &
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4640 ml



Implementing Entity Director on an « Khetara Access Shaft »

ACHIEVEMENTS

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**Construction of
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Undergrounds
Dams**

4640 ml



Undergrounds Dams

ACHIEVEMENTS

Component 1 : Improving adaptive capacities of the water sector

**Construction of
Structures for
perimeter protection**

7 protective walls

1230 ml



Protection wall (protection structure) of a palm grove

ACHIEVEMENTS

Component 1 : Improving adaptive capacities of the water sector

**Construction of
Structures for
perimeter protection**

7 protective walls

1230 ml



Perimeter protection structure

ACHIEVEMENTS

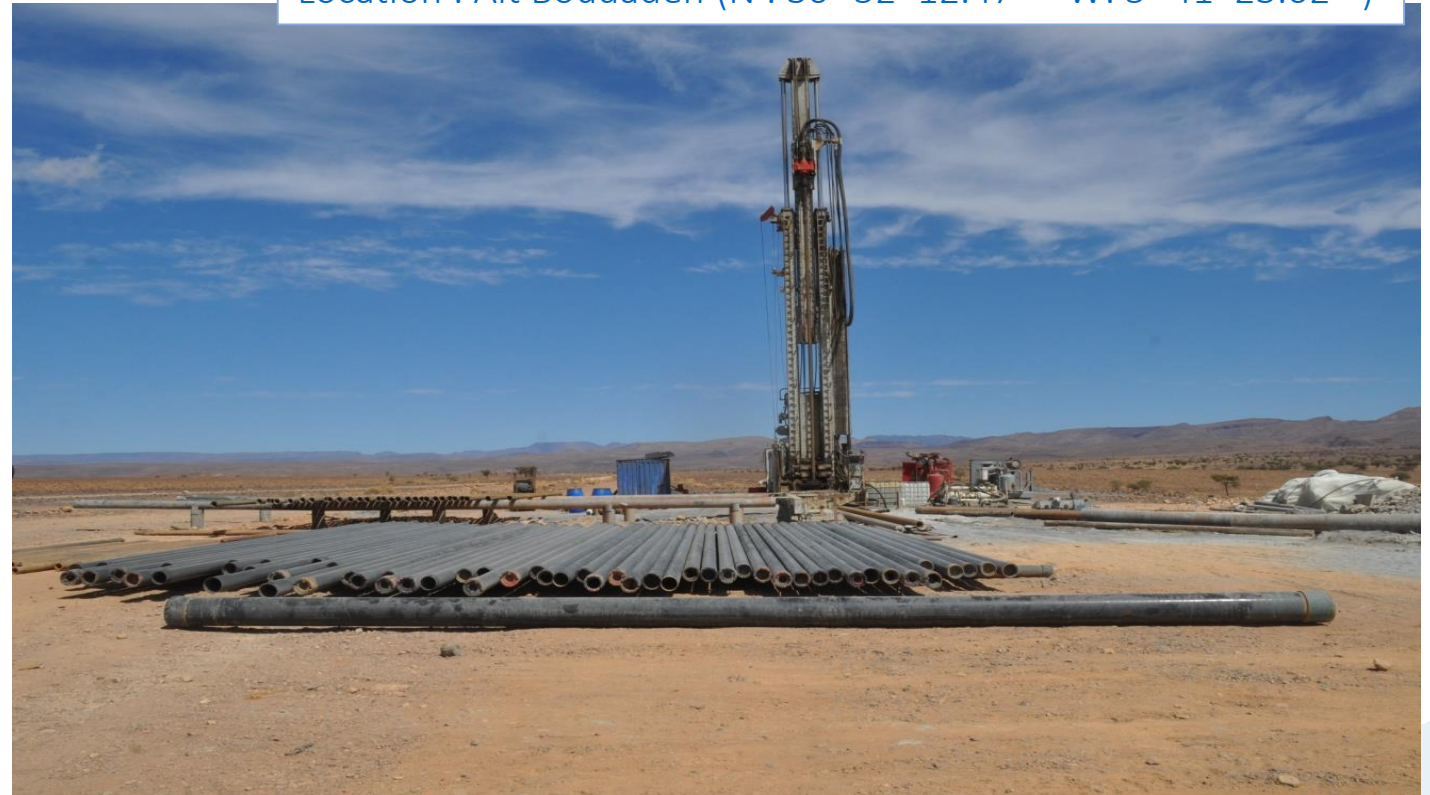
Component 1 : Improving adaptive capacities of the water sector

**Feasibility studies for
the exploitation of deep
water resources**

3 Studies

- ✓ **2 Explorations**
- ✓ **4 Piezometers**

Location : Ait Boudaden (N : 30° 52' 12.47 ' - W: 5° 41' 23.02'')



***Carry out an exploration/reconnaissance study through
drilling for deepwater resources***

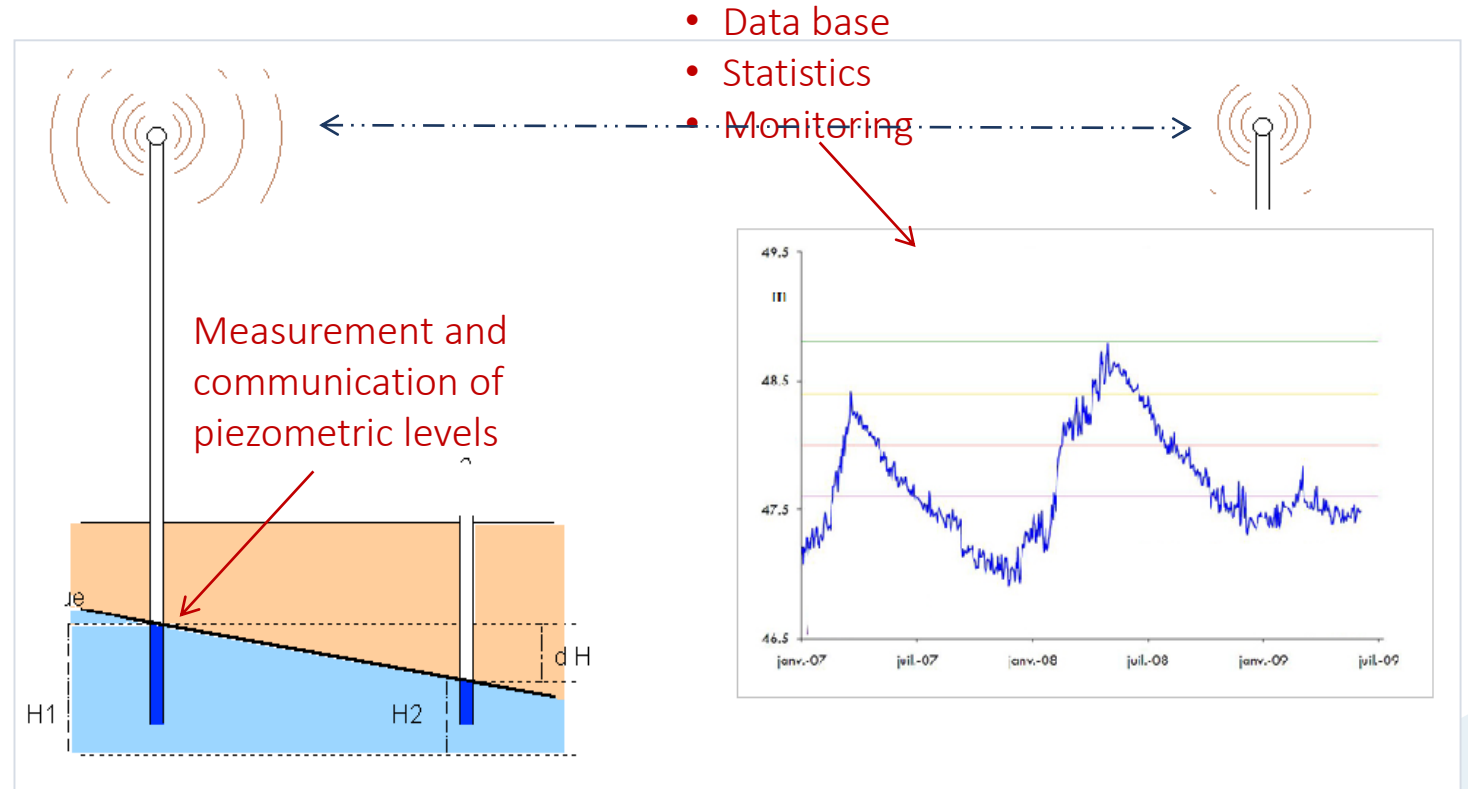
ACHIEVEMENTS

Component 1 : Improving adaptive capacities of the water sector

Feasibility studies for the exploitation of deep water resources

3 Studies

- ✓ 2 Explorations
- ✓ 4 Piezometers



Monitoring the groundwater level by the Piezometer

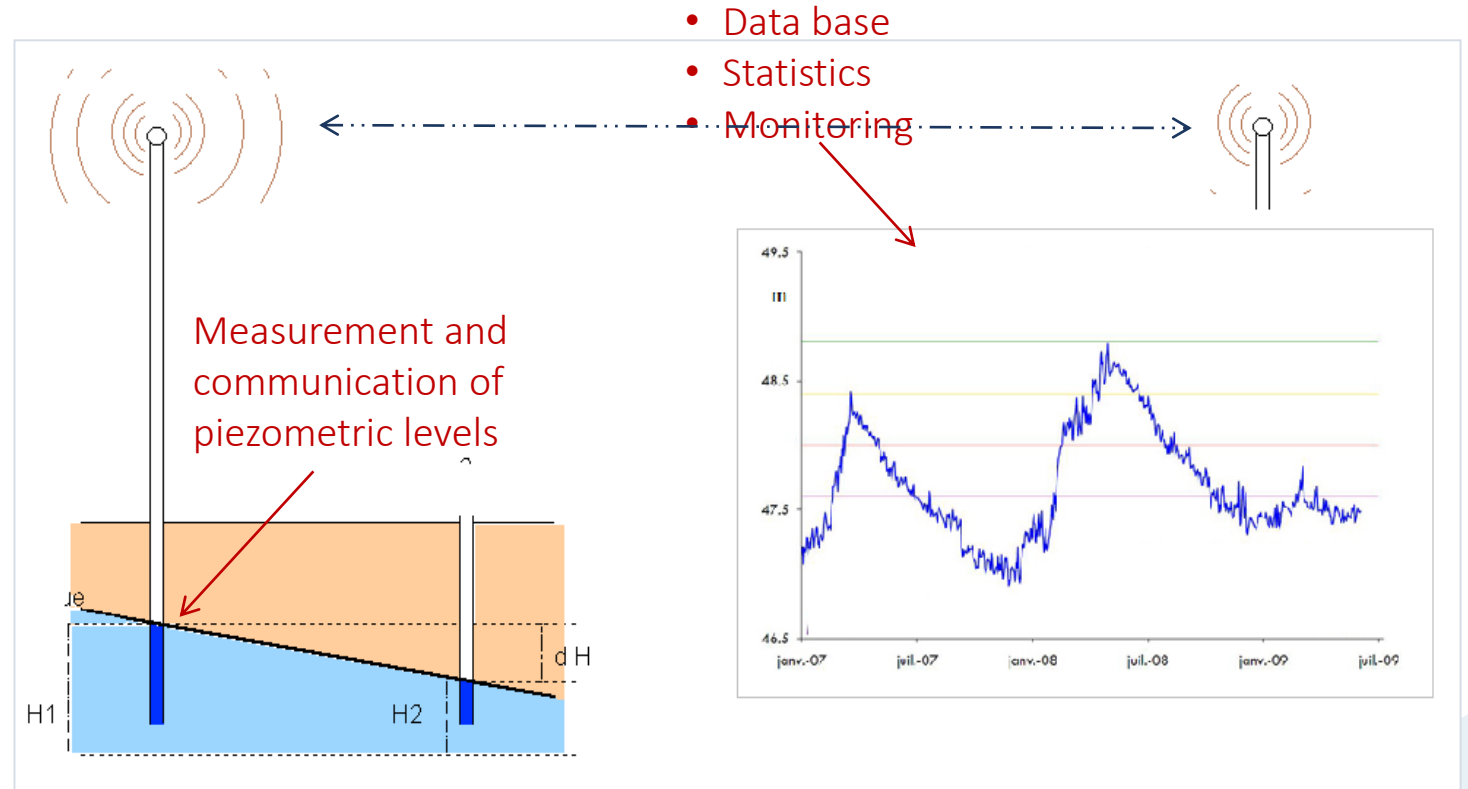
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Monitoring the groundwater level by the Piezometer

ACHIEVEMENTS

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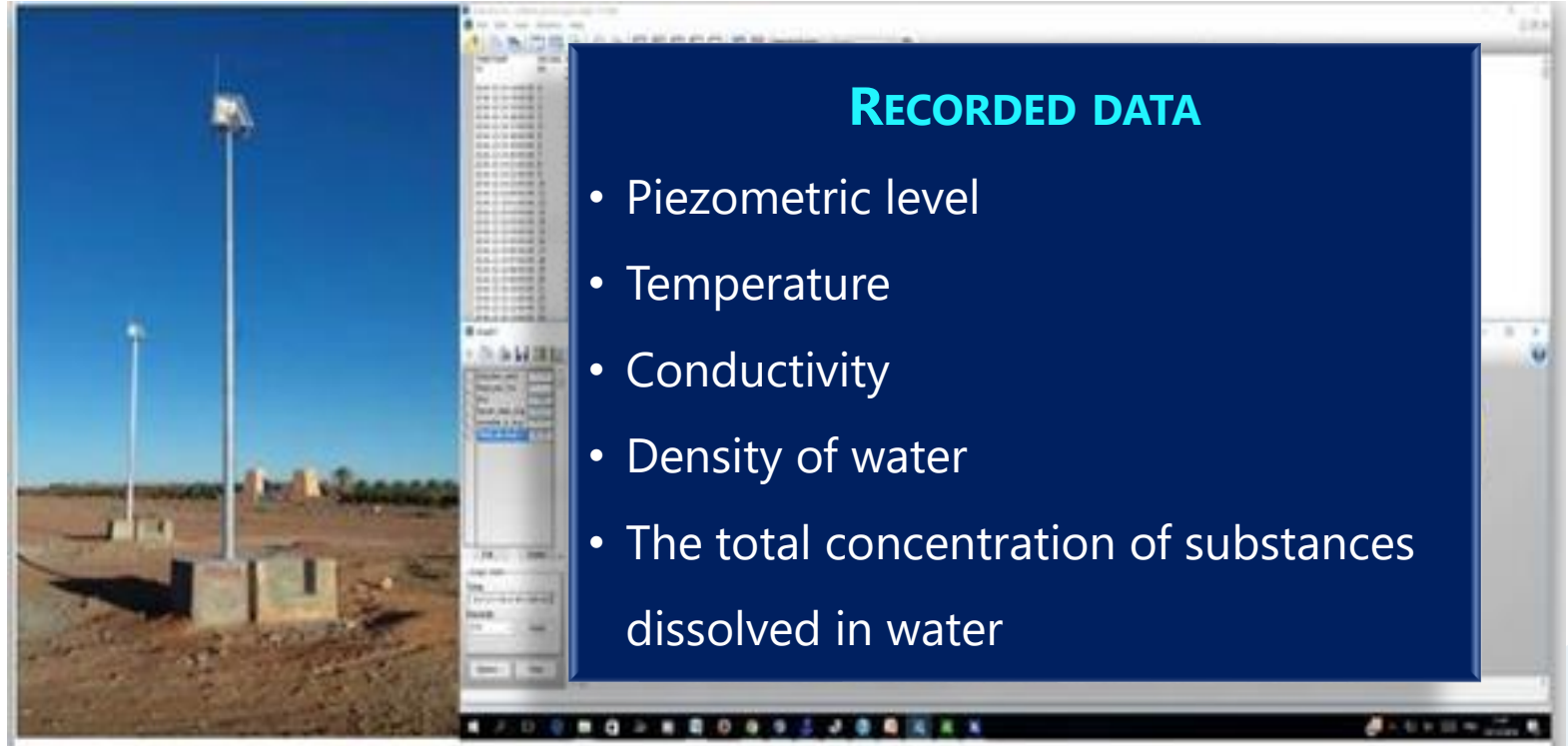
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Monitoring the groundwater level by the Piezometer

ACHIEVEMENTS

Component 1 : Improving adaptive capacities of the water sector

**Rehabilitation of
irrigation networks**

**Construction of 23
irrigation canals**

9520 ml



Restore the vulnerable infrastructure allowing the improvement of water distribution efficiency

ACHIEVEMENTS

Component 1 : Improving adaptive capacities of the water sector

**Rehabilitation of
irrigation networks**

**Construction of 23
irrigation canals**

9520 ml

Location : Tizra (N : 31 ; 31 ; 31.08 - W: 5 ; 0 ; 30.33)



Restore the vulnerable infrastructure allowing the improvement of water distribution efficiency

ACHIEVEMENTS

Component 1 : Improving adaptive capacities of the water sector

Component 2 : Diversifying income sources and improving the living conditions of populations vulnerable to climate change in the targeted areas.

ACHIEVEMENTS

Component 2 : Diversifying income sources and improving the living conditions of populations vulnerable to climate change in the targeted areas.

Improve livelihoods of families due to the development of more resilient small scale agriculture

**344 Farmers
(objective 800)**

Women : +20%

Develop non-agricultural economic activities & help increase resilience of the Oasis population

**21 projects
(Objective 20)**

**Women & young +
25%**

ACHIEVEMENTS

Component 2 : Diversifying income sources and improving the living conditions of populations vulnerable to climate change in the targeted areas.

Improve livelihoods of families due to the development of more resilient small scale agriculture

**344 Farmers
(objective 800)**

- Carry out studies on the experiences already undertaken in the zone or in similar zones abroad.
- Train new farmers on the conservation techniques and promote their circulation
- Support producers in the certification process for their products.
- Promotion of oasis agricultural products.
- Carry out a study on endemic species and their uses.

ACHIEVEMENTS

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**344 Farmers
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Development of small scale agriculture

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Development of small scale agriculture

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Improve livelihoods of families due to the development of more resilient small scale agriculture

**344 Farmers
(objective 800)**



Study on the use of Acacia Gum

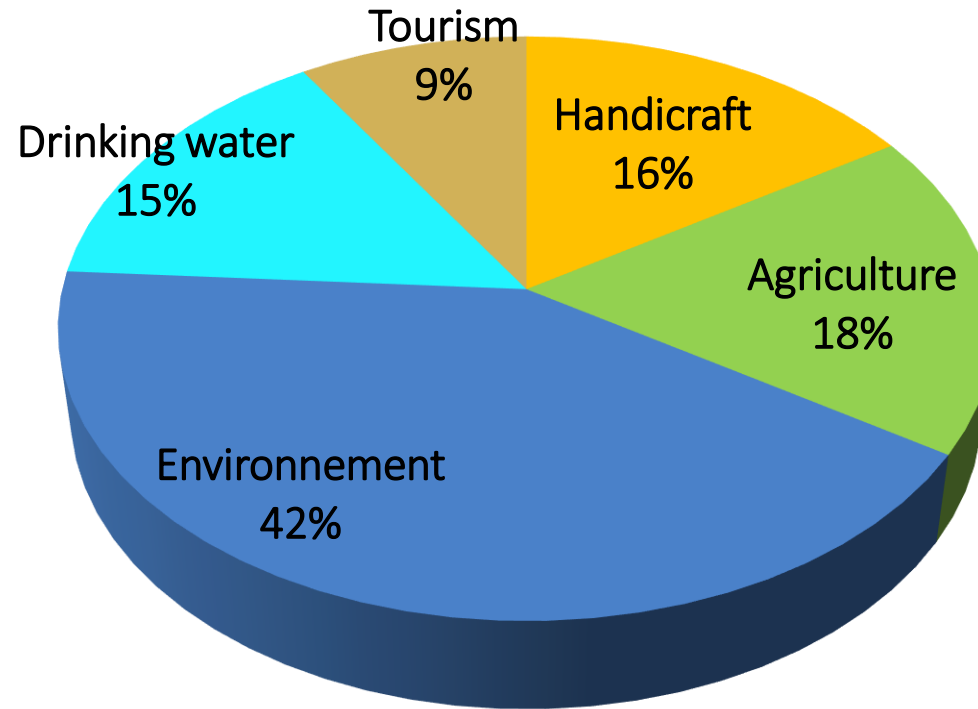
ACHIEVEMENTS

Component 2 : Diversifying income sources and improving the living conditions of populations vulnerable to climate change in the targeted areas.

Develop non-agricultural economic activities & help increase resilience of the Oasis population

**21 projects
(Objective 20)**

**Women & young +
65%**



Support small-scale local economic projects (2016 and 2017) : USD 300 000,00

ACHIEVEMENTS

Component 2 : Diversifying income sources and improving the living conditions of populations vulnerable to climate change in the targeted areas.

**Develop non-agricultural
economic activities
&
help increase resilience of
the Oasis population**

**21 projects
(Objective 20)**

**Women & young +
65%**



***Support small-scale local economic projects / Women's Cooperative
(more than 30 women)***

ACHIEVEMENTS

Component 2 : Diversifying income sources and improving the living conditions of populations vulnerable to climate change in the targeted areas.

Develop non-agricultural economic activities & help increase resilience of the Oasis population

**21 projects
(Objective 20)**

**Women & young +
65%**



Support small-scale local economic projects
Collective laundry (protection of the environment)

ACHIEVEMENTS

Component 2 : Diversifying income sources and improving the living conditions of populations vulnerable to climate change in the targeted areas.

**Develop non-agricultural
economic activities
&
help increase resilience of
the Oasis population**

**21 projects
(Objective 20)**

**Women & young +
65%**



Support small-scale local economic projects
Handicraft (Women project)

ACHIEVEMENTS

Component 2 : Diversifying income sources and improving the living conditions of populations vulnerable to climate change in the targeted areas.

**Develop non-agricultural
economic activities
&
help increase resilience of
the Oasis population**

**21 projects
(Objective 20)**

**Women & young +
25%**



Support small-scale local economic projects
Handicraft (Women project)

ACHIEVEMENTS

Component 2 : Diversifying income sources and improving the living conditions of populations vulnerable to climate change in the targeted areas.

**Develop non-agricultural
economic activities
&
help increase resilience of
the Oasis population**

**21 projects
(Objective 20)**

**Women & young +
65%**



Support small-scale local economic projects
Solar Energy for pumping

ACHIEVEMENTS

Component 1 : Improving adaptive capacities of the water sector

Component 2 : Diversifying income sources and improving the living conditions of populations vulnerable to climate change in the targeted areas.

Component 3 : Improving the ecosystems' resilience in response to climate change and variability

ACHIEVEMENTS

Component 3 : Improving the ecosystems' resilience in response to climate change and variability

**Fight against
desertification**

**50 ha
(objective 40 ha)**

Achievement : +100%

**Developement of
techniques for
environmental cleanup**

**4 internships &
study trips**

**Women & young +
50%**

ACHIEVEMENTS

Component 3 : Improving the ecosystems' resilience in response to climate change and variability

Fight against desertification

**50 ha
(objective 40 ha)**

Achievement : +100%



Fight against desertification

ACHIEVEMENTS

Component 3 : Improving the ecosystems' resilience in response to climate change and variability

**Fight against
desertification**

**50 ha
(objective 40 ha)**

Achievement : +100%



Fight against desertification

ACHIEVEMENTS

Component 3 : Improving the ecosystems' resilience in response to climate change and variability

Developement of techniques for environmental cleanup

4 internships & study trips

Women & young + 50%

Trainings and Internships

- Pollution control and water treatment techniques.
- Phyto-purification techniques.
- Recycling techniques.
- Organization of guided visits to sewage treatment plants in Ouarzazate, Agadir, Tinjdad and Fez.

ACHIEVEMENTS

Component 3 : Improving the ecosystems' resilience in response to climate change and variability

Development of techniques for environmental cleanup

4 internships & study trips

Women & young + 50%



Trainings and Internships : For youth

Pollution control and water treatment techniques.

ACHIEVEMENTS

Component 3 : Improving the ecosystems' resilience in response to climate change and variability

Development of techniques for environmental cleanup

4 internships & study trips

Women & young + 50%



Trainings and Internships : For women
Recycling techniques.

ACHIEVEMENTS

Component 1 : Improving adaptive capacities of the water sector

Component 2 : Diversifying income sources and improving the living conditions of populations vulnerable to climate change in the targeted areas.

Component 3 : Improving the ecosystems' resilience in response to climate change and variability

Component 4 : Improving stakeholder awareness through the management and exchange of knowledge

ACHIEVEMENTS

Component 4 : Improving stakeholder awareness through the management and exchange of knowledge

**Organize public debate
on water and climate
change**

**6 regional thematic
conferences
(objective 6)**

Achievement : +100%

**Support and develop
local initiatives for
communication**

**+ 5 Mass communication
(objective 4)**

**More than 19 press
releases**

ACHIEVEMENTS

Component 4 : Improving stakeholder awareness through the management and exchange of knowledge

**Organize public debate
on water and climate
change**

**6 regional thematic
conferences
(objective 6)**

Achievement : +100%

6 Regional thematic conferences

- Setting up a Documentary Fund
- Elaboration of charter on water and Climate change in the oasis environment
- Organization of thematic conferences on water and climate change
- Development of a Communication Strategy and organization of Awareness Campaigns
- Climate Change Awareness Conferences
- Awareness conferences: Preservation and saving of water resources

ACHIEVEMENTS

Component 4 : Improving stakeholder awareness through the management and exchange of knowledge

Support and develop local initiatives for communication

+ 5 Mass communication (objective 4)

More than 19 press releases

More than 19 press releases

- Tv / Radio
- Newspapers
- Internet
- Conferences

ACHIEVEMENTS

Component 1 : Improving adaptive capacities of the water sector

Component 2 : Diversifying income sources and improving the living conditions of populations vulnerable to climate change in the targeted areas.

Component 3 : Improving the ecosystems' resilience in response to climate change and variability

Component 4 : Improving stakeholder awareness through the management and exchange of knowledge

Component 5 : Strengthening the capacities of participants in the design and implementation of adaptation measures

ACHIEVEMENTS

Component 5 : Strengthening the capacities of participants in the design and implementation of adaptation measures

**Consolidate and develop
adaptive
capacities for climate
change**

**6 Training workshop +
10 Study trips
(objective 12)**

**Beneficiaries : 401
Women : +12 %**

**Strength coordinated
management
capacities for climate
change projects**

**26 workshops
(objective 24)**

**Beneficiaries : 1562
Women : +15 %**

ACHIEVEMENTS

Component 5 : Strengthening the capacities of participants in the design and implementation of adaptation measures

Consolidate and develop adaptive capacities for climate change

6 Training workshop & 10 Study trips (objective 12)

**Beneficiaries : 401
Women : +12 %**

6 Training workshop & 10 Study trips

- Governance of water and sanitation services in the oasis
- Integrated water resources management
- Project Cycle Management
- Project financing
- Participatory approach applied to adaptation measures
- Mediation & Conflict Management

ACHIEVEMENTS

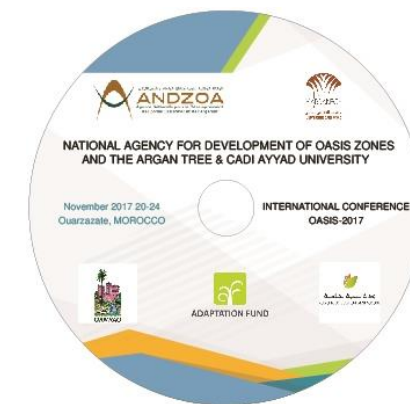
Component 5 : Strengthening the capacities of participants in the design and implementation of adaptation measures

Consolidate and develop adaptive capacities for climate change

6 Training workshop & 10 Study trips (objective 12)

**Beneficiaries : 401
Women : +12 %**

6 Training workshop & 10 Study trips



Archiving and documenting

ACHIEVEMENTS

Component 5 : Strengthening the capacities of participants in the design and implementation of adaptation measures

Strength coordinated management capacities for climate change projects

**26 workshops
(objective 24)**

**Beneficiaries : 1562
Women : +15 %**

26 workshops

- Training (for operators and beneficiaries) in the designing and financing projects **(772 people)**
- Training (for operators and beneficiaries) on the implementation and joint management of projects **(790 people)**



- Thank You -