KINGDOM OF MORROCO

AGENCY FOR AGRICULTURAL DEVELOPMENT

Climate Changes Adaptation Project in Oasis Zones (PACCZO)

Accelerating Implementation of the Paris Agreement through Concrete and Innovative Adaptation Projects in Vulnerable Communities

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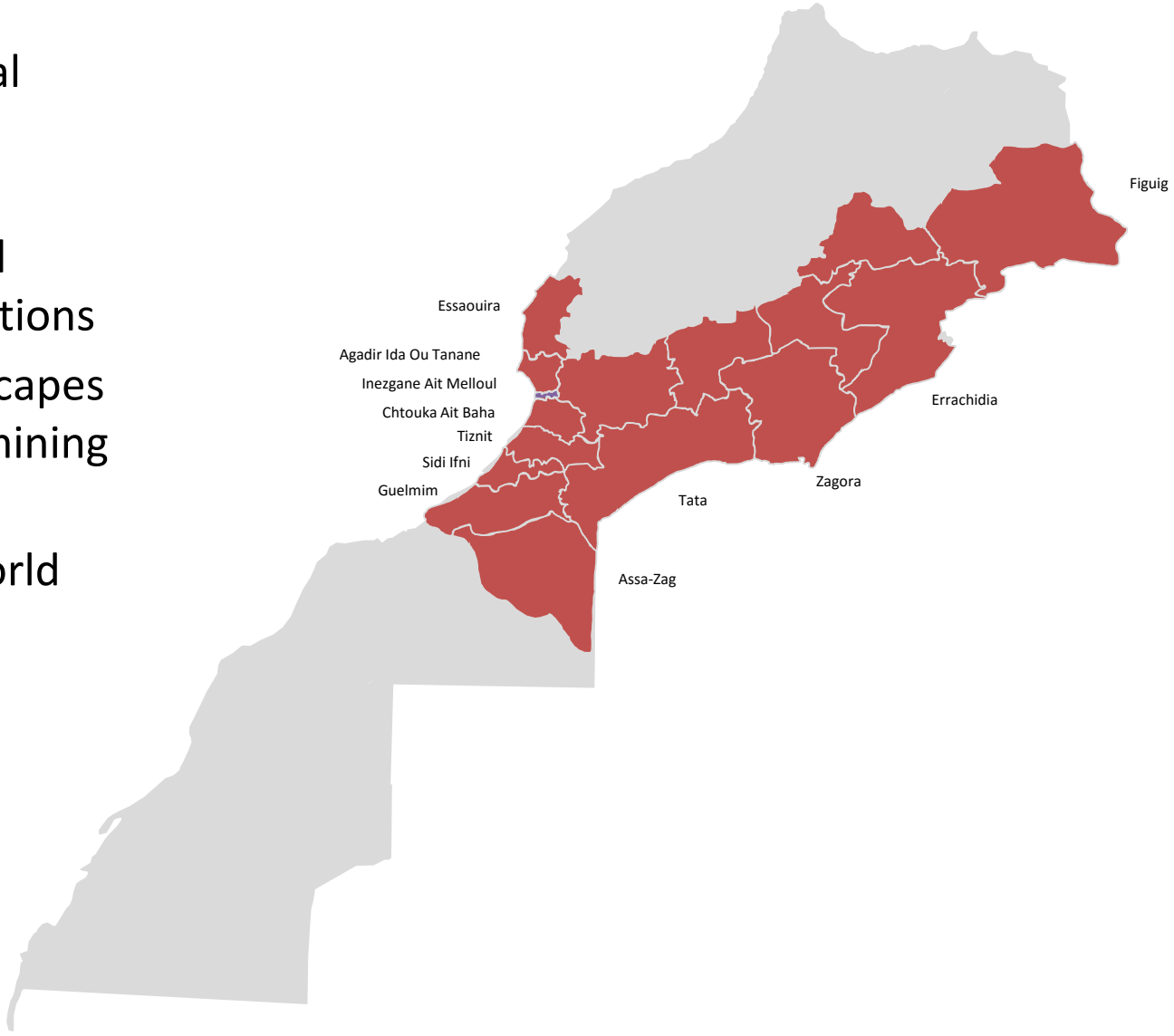
Bonn | 11 May 2017

PACCZO, help reduce the vulnerability of people and oasis agro ecosystems in Morocco to climate change

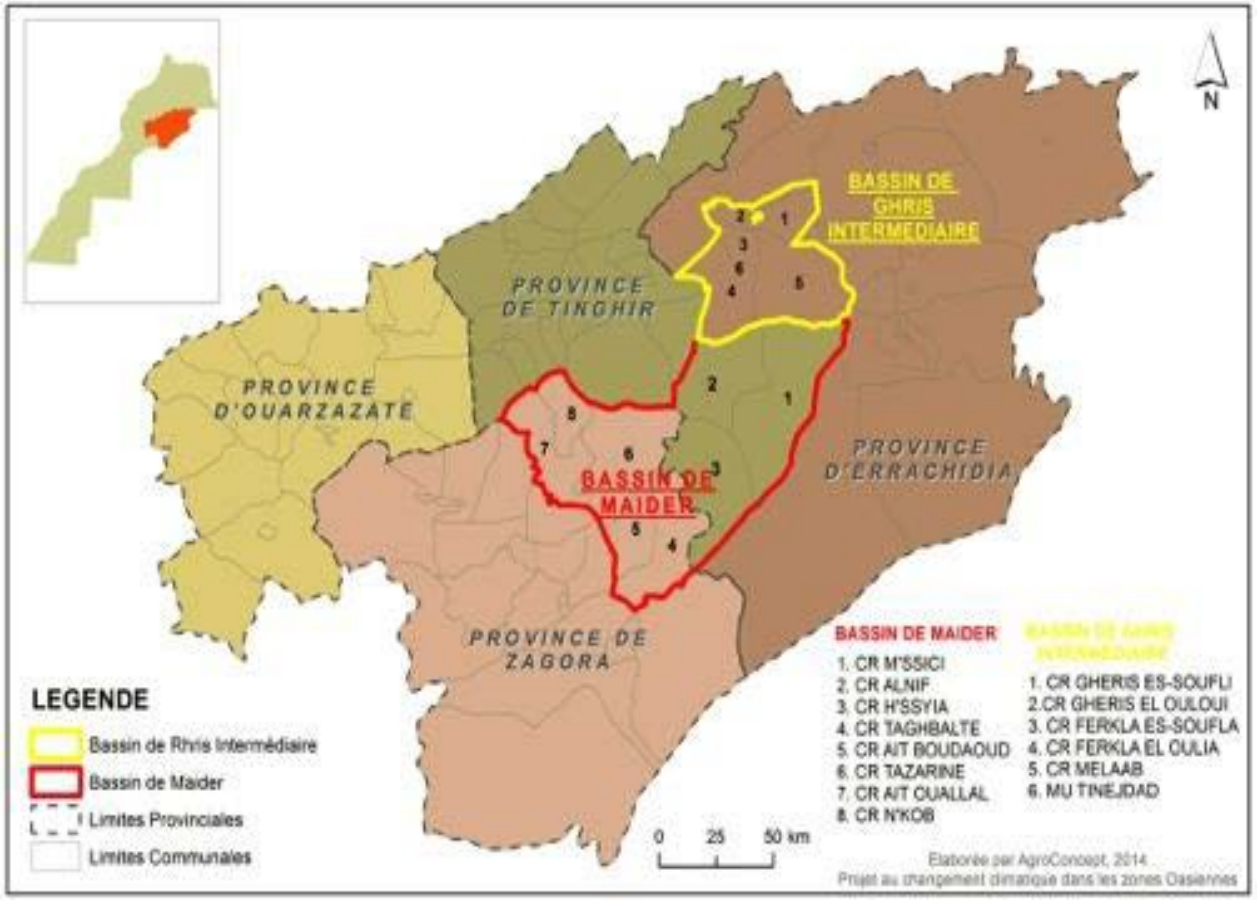
- Almost 32% of national territory
- Last barrier against desertification but still difficult climatic conditions
- Unique Natural Landscapes and Agricultural and mining resources
- Biosphere Reserve World and Heritage Site by UNESCO



PACCZO, help reduce the vulnerability of people and oasis agro ecosystems in Morocco to climate change

PROJECT SUMMARY

Project location



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PROJECT SUMMARY

Project location

The project concerns the Gheris and Maïder basins:

1. **Intermediary Gheris Basin**: area located in the intermediary part of a catchment where water resources can still be mobilized for saving the palm groves with a potential for agricultural production.

2. **Maïder Basin**: area located downstream of a catchment where the availability of water resources must be protected to ensure the preservation of the drinking water supply.

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PROJECT SUMMARY

Institutional data

- ✓ **Start** : 2015
- ✓ **Time**: 5 years (Closing : 2020).
- ✓ **National Implementing Entity**: Agency for Agricultural Development (**ADA**)
- ✓ **Executing Entity:** National Agency of Development of Oases and Argan Tree Zones (**ANDZOA**).
- ✓ **Project Area** : Draa-Tafilalet Region (Gheris et Maider)
- ✓ **Financing Requested (**USD 9,970,000**) :**
  - **Total Project cost: USD 8,315,990**
  - **Project execution cost : USD 872,950**
  - **Implementing Fee: USD 781,060**

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PROJECT SUMMARY

Project : Climate change adaptation project in oasis zones- PACCZO

Objective : The objective of the project is to help ***reducing the vulnerability of oasis' people and 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***.

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EXPECTED ''PACCZO'' PROJECT OBJECTIVES

The overall objective of project is **to improve the adaptability of populations in Oasis areas in the face of climate change.**

Through following the subsequent specific objectives

1. Improve the adaptive capacities of the water sector
2. Diversify income sources and improve living conditions populations vulnerable to climate change in the targeted areas
3. Improve the ecosystem's resilience in response to climate change and variability
4. Improve the awareness of all stakeholders though the management and sharing of knowledge
5. Strengthen the capacities of participants in the design and implementation of adaptation measures

PACCZO : 2016 Achievements

Component 1 : Improving adaptive capacities of the water sector

- **1.1 Improve joint regulation of ground and surface water through new sustainable hydraulic and protective structures**

⇨ **Location : TZARINE (** N : 30° 46’ 44.34’’ - W: 5° 34’ 5.34’’)

⇨ **Installation of the follow-up equipment (4 Piezometers).**

PACCZO : 2016 Achievements

Component 1 : Improving adaptive capacities of the water sector

- **1.1 Improve joint regulation of ground and surface water through new sustainable hydraulic and protective structures**

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

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

PACCZO : 2016 Achievements

Component 1 : Improving adaptive capacities of the water sector

- **1.1 Improve joint regulation of ground and surface water through new sustainable hydraulic and protective structures**

⇨ **AL KHOUBART**

⇨ **Protect perimeters and replenishment groudwater**

PACCZO : 2016 Achievements

Component 1 : Improving adaptive capacities of the water sector

- **1.2 Restore the vulnerable infrastructure allowing the improvement of water distribution efficiency**

⇨ **Location : Tighfart (N : 31 ; 31 ; 31.08 - W: 5 ; 0 ; 30.33)**

⇨ **Restore Khettaras**

PACCZO : 2016 Achievements

Component 1 : Improving adaptive capacities of the water sector

- **1.2 Restore the vulnerable infrastructure allowing the improvement of water distribution efficiency**

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

⇨ **Restore Saguias**

PACCZO : 2016 Achievements

Impacts / Component 1

- **Regular monitoring of the groundwater level (Analysis and monitoring of data received from piezometers)**
- **Carry out complementary studies of groundwater recharge structures**

PACCZO : 2016 Achievements

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

- **2.1 Improve livelihoods of families due to the development of more resilient small scale**

⇨ **Location : Tinjdad (N : 31 ; 31 ; 19.93 - W: 5 ; 2 ; 22.68)**

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

PACCZO : 2016 Achievements

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

- **2.1 Improve livelihoods of families due to the development of more resilient small scale**

⇨ **Location : Kaser Azkour (N : 31; 0; 33.82 - W: 5; 43; 19.19)**

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

PACCZO : 2016 Achievements

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

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

⇨ **Location : ALNIF**

⇨ **Support small-scale local economic projects / Women's Cooperative – Handicraft**

PACCZO : 2016 Achievements

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

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

⇨ **Location : ALNIF**

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

PACCZO : 2016 Achievements

Impacts / Component 2

- **Income improved**
- **Development of small economic activities**
- **Search for outlets (customers) of oasis products**
- **Creation of employment**

PACCZO : 2016 Achievements

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

- **Communicating with stakeholders to improve awareness of climate change management**

PACCZO : 2016 Achievements

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

- ✓ Publication on the website "www.lemag.ma" dated April 16, 2014 an article about the adaptation fund and PACCZO project:
- ✓ http://www.lemag.ma/emarketing/1ere-levee-de-fonds-par-l-ADA-aupres-du-Fonds-d-adaptation_a124.html
- ✓ Publication on the website " www.massolia.ma" dated April 17, 2014 an article about the adaptation fund and PACCZO project:
- ✓ http://www.massolia.com/bio-durable/adaptation-aux-changements-climatiques-de-loasis-un-premier-financement
- ✓ Broadcast a television report on the "AL OULA" TV on December, 14 2015 about the PACZZO startup workshop.
- ✓ Publication on the website " www.mapexpresse.ma" dated December 14, 2015 an article about the adaptation fund and PACCZO project:
- ✓ Publication on the website "www.lematin.ma" dated December 15, 2015 an article about Project Startup Workshop :
- ✓ http://lematin.ma/journal/2015/projet-d-adaptation-a-errachidia/237492.html
- ✓ Publication on the website "www. tanmia.ma" dated December 17, 2015 an article about the adaptation fund and PACCZO project:
- ✓ http://www.tanmia.ma/?s=atelier+de+d%C3%A9marrage+PACCZO
- ✓ Publication on the newspaper "Tajdid" dated January 18, 2016 an article reporting an interview with the director of the ANDZOA on PACCZO project.
- ✓ Publication on the newspaper "LE MATIN" dated MARS 03, 2016 an article about the execution of the PACCZO project.
- ✓ PACCZO Project participation at the International Workshop on Integrated and Sustainable Management of oasis Territories held in Zagora on April 12-15, 2016.

PACCZO : 2016 Achievements

Impacts / Component 4

- **Partners (ABH, ORVAO, ORMVAT) participated with 44% (1.130.269 USD)**
- **Stakeholders are well aware of the PACCZO objectives**
- **The mobilization of all external services in the success of the project**

PACCZO : 2016 Achievements

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

- **5.1 Consolidate and develop adaptive capacities for climate changes**

- **5.2 Strengthen coordinated management capacities for climate change project**

PACCZO : 2016 Achievements

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

Training themes (capacity building)
Governance of water services
Integrated Water Resources Management
Project Cycle
Project financing
Participatory approach
Conflict management and mediation

PACCZO : 2016 Achievements

Impacts / Component 5

- **Officials are well trained on climate change management**
- **Participants are trained in different themes related to the Project.**

Type of present (beneficiaries)	NO of beneficiaries
Cooperatives	138
Associations of agricultural water users (AUEA)	207
Representatives from 6 administrations	344
Elected	295
Total	**984**