



## TN-Oases Ecosystems and Livelihoods Project (P132157)

MIDDLE EAST AND NORTH AFRICA | Tunisia | Environment & Natural Resources Global Practice |  
Global Environment Project | Investment Project Financing | FY 2014 | Seq No: 10 | ARCHIVED on 28-Nov-2018 | ISR34847 |

Implementing Agencies: Government of Tunisia, General Directorate for the Environment and Quality of Life

### Key Dates

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Bank Approval Date: 11-Jun-2014

Effectiveness Date: 04-Aug-2014

Planned Mid Term Review Date: 15-Jun-2017

Actual Mid-Term Review Date: 28-Jun-2017

Original Closing Date: 30-Nov-2019

Revised Closing Date: 30-Nov-2019

### Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The Project Development Objective/Global Environmental Objective is to improve sustainable natural resources management and promote livelihoods diversification in the selected oases.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

### Components

Name

Strengthening Capacities for Sustainable Management of Oasis Ecosystems:(Cost \$1.31 M)

Supporting the Implementation of the PDPOs:(Cost \$4.67 M)

Project Coordination and Management:(Cost \$0.36 M)

### Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	● Highly Satisfactory	● Highly Satisfactory
Overall Implementation Progress (IP)	● Highly Satisfactory	● Highly Satisfactory
Overall Risk Rating	● Substantial	● Substantial

### Implementation Status and Key Decisions

The project results underline the high commitment of key partners at all levels and the excellent performance of the project team : Execution rates of PDO indicators are very positive.

The project continues its dynamic through: (i) strong communication initiatives that have strengthened trust and collaboration among all actors (ii) the successful completion of a significant number of micro-projects; and (iii) the very satisfactory achievement of indicators.

To date, the project has supported 105 sub-projects that have had a remarkable and visible socio-economic and environmental impacts on the ground through :



1. Number of created jobs: 735 jobs,
2. Number of micro-enterprises (ME) created/supported: 104 ME (i) 13 ME in the area of sustainable land and water management practices and biodiversity conservation; (ii) 45 ME oriented toward income generating activities; (iii) 13 in the valorization of oases sub products, (iv) 26 in the craft area; and (v) 18 microenterprises in the oases ecotourism development
3. Cleaning of 405 Ha of oases areas for the benefice of 1052 farmers, and cleaning of 6 linear km of drains, establishment of drainage systems, management of 290 linear meters of buried channels for the release of waste waters ;
4. Improvement of irrigation systems and techniques through: (i) the construction of 2738 linear meters of new seguias, the rehabilitation of about 500 ml of existing seguia, (ii) the development of a basin of storage of irrigation water (550 m<sup>3</sup>); (iii) implementation of a new localized irrigation water saving system;
5. Integrated biological control of crop pests through the promotion of at least 6 different techniques,
6. The fight against the ravages of wild boars through the protection of an area of 172 Ha to the benefit of 559 farmers, which has remarkably encouraged the practice of market gardening;
7. Biodiversity restoration and oasis productivity improvement through the acquisition and distribution of 5000 date palm discards, 16265 fruit tree seedlings, and 1050 kg seed. These interventions cover a total area of 96 ha benefiting to 383 farmers.

Activities of Component 1 (Strengthening Capacities for Sustainable Management of Oasis Ecosystems) are all completed remain only the biodiversity protection research activities which are conducted by two national institutions, their completion rate is 80%.

Activities of Component 2 (Supporting the Implementation of the Oasis Participatory Development Plans/ (PDPOs). As of 10 November 2018, the Project has signed a total of 105 community micro-projects, including 57 micro-projects in the field of Sustainable Land, Water and Biodiversity Management (GDTE); and 48 micro-projects in the area of Livelihood Diversification (DMS). The current distribution across the six oases covered by the Project is as follows:

- Chbika: a total of 13 micro-projects, of which 6 in GDTE and 7 DMS
- El Guettar: a total of 20 micro-projects, of which 12 in GDTE and 8 in DMS
- Midès: a total of 15 micro-projects, of which 9 in GDTE and 6 in DMS
- Noueil: a total of 15 micro-projects, of which 8 in GDTE and 7 in DMS
- Zarat: a total of 17 micro-projects, including 8 GDTE and 9 in DMS
- Tamerza: a total of 25 micro-projects, of which 14 in GDTE and 11 in DMS.

This situation shows a strong growth in the number of micro-projects implemented from 23 in 2015, to 50 in 2016 and 68 in 2017, to currently reach 105. Through these projects, a total amount of USD2.8 million was injected into these oases allowing to achieve described results above.

Activities of Component 3 (Project coordination and management). To ensure appropriate follow-up of this relatively large number of micro-projects, the PMU organized a total of 18 missions between July 2017 and November 2018, the main objectives of which were: (i) organization of training and capacity building; (ii) consultation and planning of proposed micro-projects for 2018; (iii) technical, administrative and financial monitoring of the micro-projects under implementation; and (iv) participation of the Project in activities and initiatives of other stakeholders at the local level.

## Risks

### Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	--	● Moderate	● Moderate
Macroeconomic	--	● Moderate	● Moderate
Sector Strategies and Policies	--	● Moderate	● Moderate
Technical Design of Project or Program	--	● Moderate	● Moderate
Institutional Capacity for Implementation and Sustainability	--	● Moderate	● Moderate
Fiduciary	--	● Substantial	● Substantial
Environment and Social	--	● Moderate	● Moderate
Stakeholders	--	● Substantial	● Substantial
Other	--	● Low	● Low
Overall	--	● Substantial	● Substantial



## Results

### PDO Indicators by Objectives / Outcomes

Improve sustainable NRM and promote livelihoods diversification in the selected oases				
▶Direct project beneficiaries (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	13,708.00	17,184.00	18,000.00
Date	30-Sep-2014	25-Apr-2018	23-Nov-2018	29-Nov-2019
Comments:	<p>Thanks to the project adopted strategy, to the commitment of key partners, the project reached 17184 direct beneficiaries. The continued commitment at all level will make it possible to reach target value at the end of the project (18,000).</p> <p>The project adopted strategy which include specific criteria for gender dimension, is appropriate and allowed to have 33% women as direct beneficiaries of the Project. This rate will reach the target value at the end of the project</p>			
▲Female beneficiaries (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	33.00	33.00	51.00
▶Land area where sustainable land mgt. practices were adopted as a result of proj (Hectare(Ha), Corporate)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	893.00	893.00	700.00
Date	30-Sep-2014	25-Apr-2018	23-Nov-2018	29-Nov-2019
Comments:	<p>The areas of oases subject of SLM practices are still estimated at 893 ha. This value is achieved thanks to the ownership of beneficiaries of project approach and proposed practices, it exceeds the target of 700 ha by the end of the project. Major practices adopted by farmers are the following: protection against the ravages of wild boars; cleaning activities of oases: fruit tree, palm and vegetable and fodder planting, as part of the improvement of biodiversity; improved irrigation systems; and integrated pest management interventions.</p>			
▶Land users adopting sustainable land mgt. practices as a result of the project (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	5,065.00	5,065.00	3,000.00
Date	30-Sep-2014	25-Apr-2018	23-Nov-2018	29-Nov-2019
Comments:	<p>The number of farmers adopting SLM practices and techniques promoted by the Project is estimated at 5065, well above the target of the end of the Project, i.e., 3000 farmers. This is a direct result of the project approach and high level of beneficiaries' ownership and conviction to adopt project proposed practices.</p>			
▶Number of local species that have been reintroduced in selected oasis (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	32.00	32.00	20.00



Date	30-Sep-2014	25-Apr-2018	23-Nov-2018	29-Nov-2019
Comments:	The number of local species introduced in the targeted oases reaches 32 species, testifying to the considerable effort that has been made to rehabilitate the pilot oases, either within the framework of community projects, or by the rehabilitation actions carried out by the research institutes (IRA and CRRAO). Introduced local species include: date palms; fruit trees; forage crops and vegetables. Reintroduced species are now 2 years old and the survival rate is about 60%			
<b>►Households adopting diversified activities as a result of the project (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	24.00	26.60	30.00
Date	30-Sep-2014	25-Apr-2018	23-Nov-2018	29-Nov-2019
Comments:	<b>The percentage of households with diversified activities is estimated at 26.6% (1091 households out of 4100 households in the six pilot oases). It corresponds in particular to craftsmen and craftswomen who have benefited from diversified activities as part of projects to promote crafts and exhibitors who took advantage of the various socio-cultural events promoted by the project for the marketing of their products.</b>			

### Intermediate Results Indicators by Components

Strengthening Capacities for Sustainable Management of Oasis Ecosystems				
<b>►Validation of the national strategy for sustainable development of Tunisian Oases by the Project Steering Committee (Yes/No, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	30-Sep-2014	25-Apr-2018	23-Nov-2018	29-Nov-2019
Comments:	The strategy and the plan of action for sustainable development of Tunisian oases have been finalized and validated since October 13, 2015. The strategy has been used by the GoT through JICA support to develop the south integrated development program. The program has been finalized and the GoT is requesting Bank support for its implementation.			
<b>►Participants in consultation activities during project implementation (number) (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4,299.00	4,938.00	3,000.00
Date	30-Sep-2014	25-Apr-2018	23-Nov-2018	29-Nov-2019
Comments:	The number of participants exceeds the end project target value. The consultation strategy as undertaken by the project concern any activity, it helped to build important trust among stakeholders which consult each other, not only for the selection of an activity, but also during all steps of its implementation. Gender dimension as considered in the project strategy is also satisfactory and exceed expected end project targets.			
<b>▲Participants in consultation activities during project implementation - female (Number, Custom Breakdown)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	27.80	28.90	20.00



Date	30-Sep-2014	25-Apr-2018	23-Nov-2018	29-Nov-2019
<b>► Tunisian Oases with monographic profiles prepared (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	100.00
Date	30-Sep-2014	25-Apr-2018	23-Nov-2018	29-Nov-2019
Comments:	The monographs have been completed for 126 traditional oases defined in the identification phase of traditional oases (i.e., 7 oases in the Gafsa region, 49 oases in the Gabès region and 29 oases in the Tozeur region and 41 oases in the region of Kebili). These monographs have been also used to develop the first Tunisian Atlas which has been finalized and widely disseminated.			
<b>Supporting the Implementation of the PDPOs</b>				
<b>► Technologies demonstrated in the project areas (number) (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	23.00	25.00	20.00
Date	30-Sep-2014	25-Apr-2018	23-Nov-2018	29-Nov-2019
Comments:	This indicator also exceeds expected end project target. Several technologies have been introduced, demonstrated and owned by project beneficiaries' including the following : 1-Mechanized weeding; 2-Electrification of wells; 3-Mechanical climbing of palms; 4-Biological control of the date moth by trichogrammes; 5-Biological control against <i>Virachola livia</i> (grenadier) by useful insect; 6-Control of the fruit fly by the technique of attract and kill of ceratitis; 7-Fight against <i>Virachola livia</i> (grenadiers) by bio insecticide; 8-Physical control of the date moth via mosquito nets; 9-Biological control of the date moth with mass trapping technology; 10-Mechanized cleaning; 11-Mechanized pollination; 12-Size of fruit trees; 13-Technique of mass trapping against black fly fig tree.			
<b>► Clients who have adopted an improved agr. technology promoted by the project (Number, Corporate)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	377.00	377.00	200.00
Date	30-Sep-2014	25-Apr-2018	23-Nov-2018	29-Nov-2019
Comments:	This number largely exceeds the expected end project target. The last mission value was wrongly calculated. The current value is 377 farmers who improved the following agricultural technologies: Integrated pest management, agricultural products conservation units and irrigation water saving systems. 35.5% of these farmers are women.			
<b>▲ Clients who adopted an improved agr. technology promoted by project – female (Number, Custom Breakdown)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	35.50	35.50	100.00
Date	30-Sep-2014	25-Apr-2018	23-Nov-2018	29-Nov-2019
<b>► Biodiversity tracking tool completed (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	6.00	12.00	12.00	18.00



Date	30-Sep-2014	25-Apr-2018	23-Nov-2018	29-Nov-2019
Comments:	Good Progress achieved under this indicator through : (a) production of biodiversity gains in oasis production systems through the reintroduction of several local species and varieties; (b) replicating of approaches applying positive incentive measures and instruments.			
<b>►Land degradation tracking tool completed (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	6.00	12.00	12.00	18.00
Date	30-Sep-2014	25-Apr-2018	23-Nov-2018	29-Nov-2019
Comments:	Good progress achieved to date through the implementing/up-scaling of GDTE (Sustainable land and water management) practices and interventions to combat land degradation, specifically desertification.			
<b>►Cultivars that are produced, multiplied and distributed (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	151.00	151.00	70.00
Date	30-Sep-2014	25-Apr-2018	23-Nov-2018	29-Nov-2019
Comments:	This excellent result reflects both the successful implementation of community micro-projects and the rehabilitation actions carried out by the research institutes (IRA and CRRAO) aimed at improving biodiversity, and the specific and genetic wealth of agricultural biodiversity in the pilot sites of the Project.			

## Data on Financial Performance

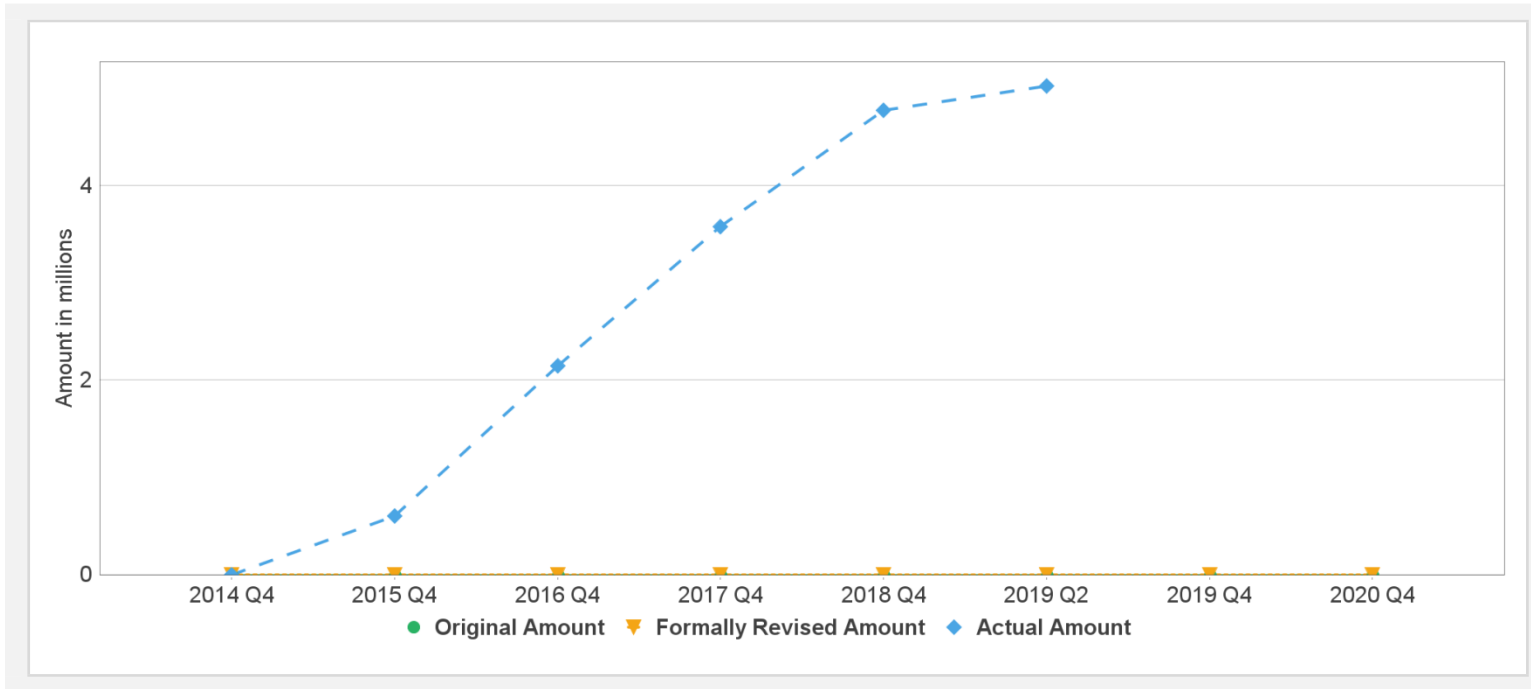
### Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P132157	TF-17362	Effective	USD	5.76	5.76	0.00	5.03	0.74	87%

### Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P132157	TF-17362	Effective	04-Aug-2014	04-Aug-2014	04-Aug-2014	30-Nov-2019	30-Nov-2019

### Cumulative Disbursements



## Restructuring History

There has been no restructuring to date.

## Related Project(s)

There are no related projects.