



## MA-Large Scale Irrigation Modernization Project (P150930)

MIDDLE EAST AND NORTH AFRICA | Morocco | Water Global Practice |  
IBRD/IDA | Investment Project Financing | FY 2016 | Seq No: 1 | ARCHIVED on 01-Oct-2015 | ISR20708 |

Implementing Agencies: Ministry of Agriculture and Maritime Fishery

## Key Dates

## Key Project Dates

Board Approval date:08-Jul-2015

Effectiveness Date:--

Planned Mid Term Review Date:--

Actual Mid-Term Review Date:--

Original Closing Date:31-Dec-2022

Revised Closing Date:31-Dec-2022

## Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The project development objectives (PDO) are: (i) for the Doukkala ORMVA, the Gharb ORMVA, the Haouz ORMVA and the Tadla ORMVA, to provide an improved water service to farmers, and (ii) for targeted farmers in the Project Area, to have better access to improved irrigation technologies.

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

No

## Components

Name

Component 1: Improving Irrigation Network Infrastructure:(Cost \$135.00 M)

Component 2: Supporting Farmers' Access to Improved Irrigation Technologies:(Cost \$6.00 M)

Component 3: Supporting the Project Implementing Entities to Manage the Irrigation Network and to Implement the Project:(Cost \$9.00 M)

## Overall Ratings

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



## Implementation Status and Key Decisions

**RATIONALE** - Farmers in Large Scale Irrigation (LSI) perimeters are often confronted with collective water management, water distribution on rotation, frequent shut-downs, and unequal access to water. The Regional Agricultural Development Offices (ORMVAs), responsible for the distribution of surface water, cannot lift these constraints due to the insufficient cost recovery of the water service. These constraints push farmers to make low-risk but low-return choices. Farmers who want to engage in higher value production to achieve higher returns, have to compensate the unreliable water service of the ORMVAs by using water reservoirs and/or tapping into the groundwater (if available), bearing the pumping costs and adding pressure on the already overexploited aquifers. By providing individual, on-demand, reliable, and equitable access to water, the ORMVAs would allow farmers to invest into higher value agriculture. The more reliable access to surface water would reduce the need to tap into the groundwater. The improved water service, coupled with improved irrigation technologies that can be adopted as a consequence, would allow farmers to use water more effectively (better responding to the crop requirements in water and nutrients through a more precise irrigation scheduling) and efficiently (reducing evaporation and percolation losses), thus increasing yields, increasing cropping intensity, and/or changing cropping pattern towards higher value crops. These changes would translate into increase in agricultural water productivity, in both physical and monetary terms, whereby farmers would improve their income and livelihood. Satisfied with the service provided by the ORMVAs, farmers would be more inclined to pay the water bill. The individualization of the water service would make water metering more transparent and facilitate taking targeted actions towards farmers who do not meet their water bill. The finances of the ORMVAs would improve, allowing for adequate budgeting of the Operation and Maintenance of irrigation networks, thus ensuring long term sustainability. In parallel, farmers would reduce the use of groundwater in favor of cheaper and better quality surface water provided by the ORMVAs, while contributing to environmental sustainability. The project will contribute to this long term process by supporting the ORMVAs in providing individual, on-demand, reliable, and equitable access to water to farmers, and by supporting farmers in accessing improved irrigation technologies.

**STATUS** - The project is not yet effective and it is still in too early a stage for meaningful progress.

## 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	● Low	--	● Low
Technical Design of Project or Program	● Substantial	--	● Substantial
Institutional Capacity for Implementation and Sustainability	● Substantial	--	● Substantial
Fiduciary	● Moderate	--	● Moderate



Environment and Social	● Moderate	--	● Moderate
Stakeholders	● Substantial	--	● Substantial
Other	--	--	--
Overall	● Substantial	--	● Substantial

## Results

### Project Development Objective Indicators

#### ► Direct project beneficiaries (Number, Core)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	9274.00
Date	01-Sep-2015	--	24-Sep-2015	31-Dec-2022

#### Comments

Breakdown of end target by irrigation sector:

- Tadla M: 1,078 (5% women)
- Tadla G: 1,848 (5%)
- Haouz Boudia: 1,002 (1%)
- Doukkala Z0: 2,054 (11%)
- Doukkala EF: 761 (6%)
- Gharb N3: 1,261 (32%)
- Gharb N4: 1,270 (23%)

#### ▲ Female beneficiaries (Percentage, Core Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	12.00

#### ► Area with access to water on-demand in peak period (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	100.00
Date	01-Sep-2015	--	24-Sep-2015	31-Dec-2022



► Area with a request for improved irrigation technologies approved (Hectare(Ha), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	20700.00
Date	01-Sep-2015	--	24-Sep-2015	31-Dec-2022

Comments

Breakdown of end target by irrigation sector:

- Tadla M: 3,600 ha
- Tadla G: 5,600 ha
- Haouz Bouida: 2,500 ha
- Doukkala Z0: 4,400 ha
- Doukkala EF: 1,400 ha
- Gharb N3: 2,200 ha
- Gharb N4: 1,000 ha

Overall Comments

**Intermediate Results Indicators**

► Progress of works on irrigation network (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	100.00
Date	01-Sep-2015	--	24-Sep-2015	31-Dec-2022



► Clients per metering system (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	12.97	--	12.97	0.78
Date	01-Sep-2015	--	24-Sep-2015	31-Dec-2022

Comments

Breakdown of baseline and end target by irrigation sector:

- Tadla M: 12 to 0.95
- Tadla G: 12 to 1.12
- Haouz Bouida: 15 to 1.00
- Doukkala Z0: 7 to 0.49
- Doukkala EF: 7 to 0.69
- Gharb N3: 1,261 to 0.69
- Gharb N4: 1,270 to 1.36

► Outlets with flow in line with technical specifications in peak period (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	--	--	0.00	90.00
Date	01-Sep-2015	--	24-Sep-2015	31-Dec-2022

► Client days of training provided (number) (Number, Core)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	37000.00
Date	01-Sep-2015	--	24-Sep-2015	31-Dec-2022

Comments

Breakdown of end target by irrigation sector:

- Tadla M: 4,400 (220 women)
- Tadla G: 7,400 (370)
- Haouz Bouida: 4,000 (40)
- Doukkala Z0: 8,200 (900)
- Doukkala EF: 3,000 (180)
- Gharb N3: 5,000 (1,600)
- Gharb N4: 5,000 (1,150)



▾ Client days of training provided - Female (number) (Number, Core Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	4460.00
Date	01-Sep-2015	--	24-Sep-2015	31-Dec-2022

► Clients that have formalized their request for improved irrigation technologies (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	70.00
Date	01-Sep-2015	--	24-Sep-2015	31-Dec-2022

► Clients using the irrigation information system (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	--	--	0.00	30.00
Date	--	--	24-Sep-2015	31-Dec-2022

Comments

Breakdown of end target by irrigation sector:

- Tadla M: 40%
- Tadla G: 30%
- Haouz Boudia: 40%
- Doukkala Z0: 30%
- Doukkala EF: 40%
- Gharb N3: 20%
- Gharb N4: 20%



▶ Client days of training provided (number) (Number, Core)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	2400.00
Date	01-Sep-2015	--	24-Sep-2015	31-Dec-2022

Comments

Breakdown of end target by ORMVA:

- Tadla: 600 (60 women)
- Haouz: 600 (84)
- Doukkala: 600 (60)
- Gharb:600 (48)

▲ Client days of training provided - Female (number) (Number, Core Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	252.00
Date	01-Sep-2015	--	24-Sep-2015	31-Dec-2022

▶ Clients that have signed a delivery agreement with the ORMVA (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	62.00
Date	01-Sep-2015	--	24-Sep-2015	31-Dec-2022

Comments

Breakdown of end target by irrigation sector:

- Tadla M: 70%
- Tadla G: 50%
- Haouz Bouida: 50%
- Doukkala Z0: 70%
- Doukkala EF: 80%
- Gharb N3: 60%
- Gharb N4: 60%



► Interruptions in water service in peak period exceeding 48 hours (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	2.75	--	2.75	1.00
Date	01-Sep-2015	--	24-Sep-2015	31-Dec-2022

► Average time required for treating grievances related to water service (Days, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	16.25	--	16.25	10.00
Date	01-Sep-2015	--	24-Sep-2015	31-Dec-2022

Comments

Breakdown of baseline by ORMVA:

- Tadla: 10
- Haouz: 20
- Doukkala: 20
- Gharb: 15

Overall Comments

## Data on Financial Performance

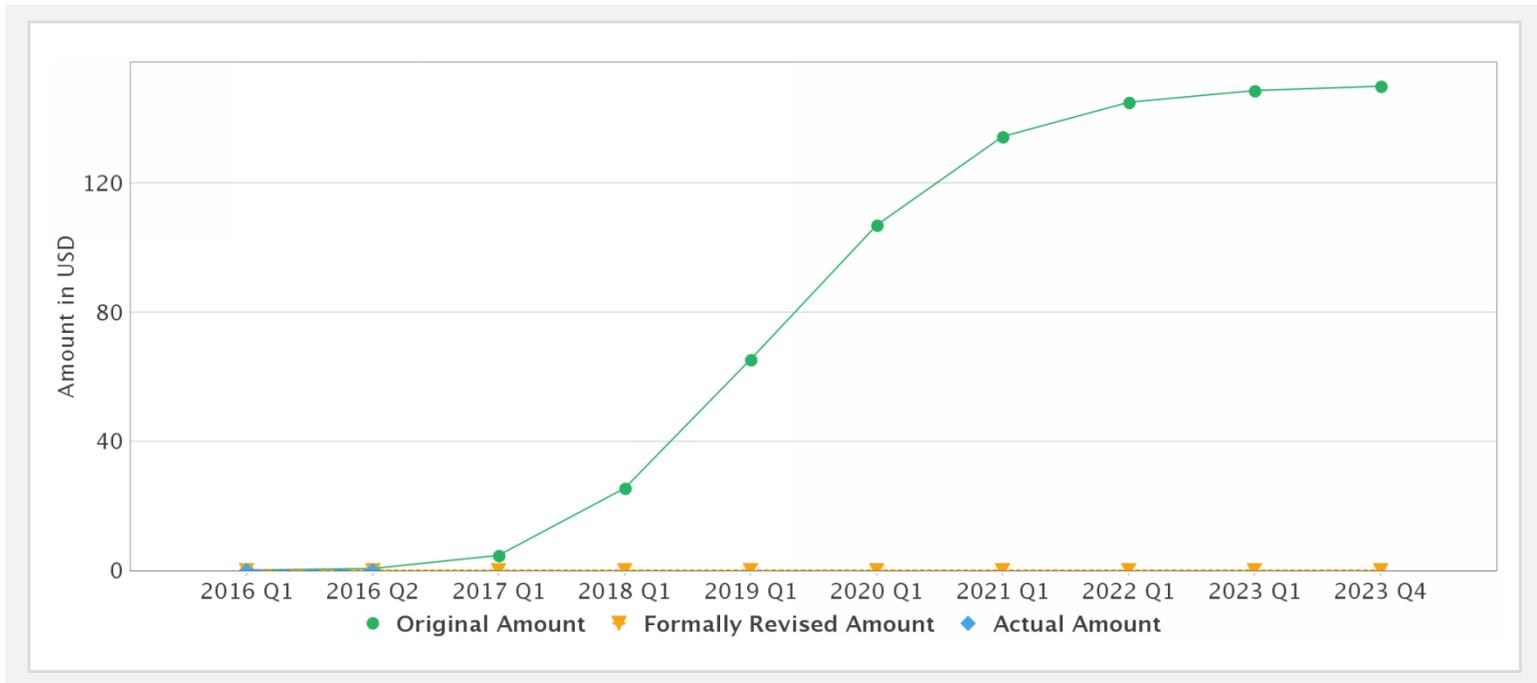
### Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	Disbursed
P150930	IBRD-85140	Not Effective	USD	150.00	150.00	0.00	0.00	150.00	0%

### Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P150930	IBRD-85140	Not Effective	08-Jul-2015	--	--	31-Dec-2022	31-Dec-2022

### Cumulative Disbursements



## Restructuring History

There has been no restructuring to date.

## Related Project(s)

There are no related projects.