

Project Overview

- Project objective: Restoration of ecosystem by cork oak forest restoration
- Project site location: Ain Draham & Fernana (Jendouba Governorate), Tunisia
- Project Period: January 2015 ~ December 2018 (4 years)
- Budget: USD 2 million (Grant) _ Korean government's overseas aid program fund
- Project Execution Agency: KOICA (Korea), INRGREF (Tunisia)
- Project Performer: Suppro Co., Ltd., Seoul, KOREA

Project Overview

Main project contents

- Restoration of cork oak forests: planting (100ha),
 sprouting regeneration (10ha)
- Nursery Modernization
- Seed storage installation
- Residents' income project: Beekeeping promotion, 'Community Center' Building
- Equipment support: for forest restoration, beekeeping and office (PC, etc.)/ vehicles (4WD)
- Invitational training in Korea: 5 courses (34 persons/ for 2 weeks)
- Staff accommodation remodeling

Basic Direction of project

Tunisian cork oak forest restoration pilot project

Cork oak forest restoration

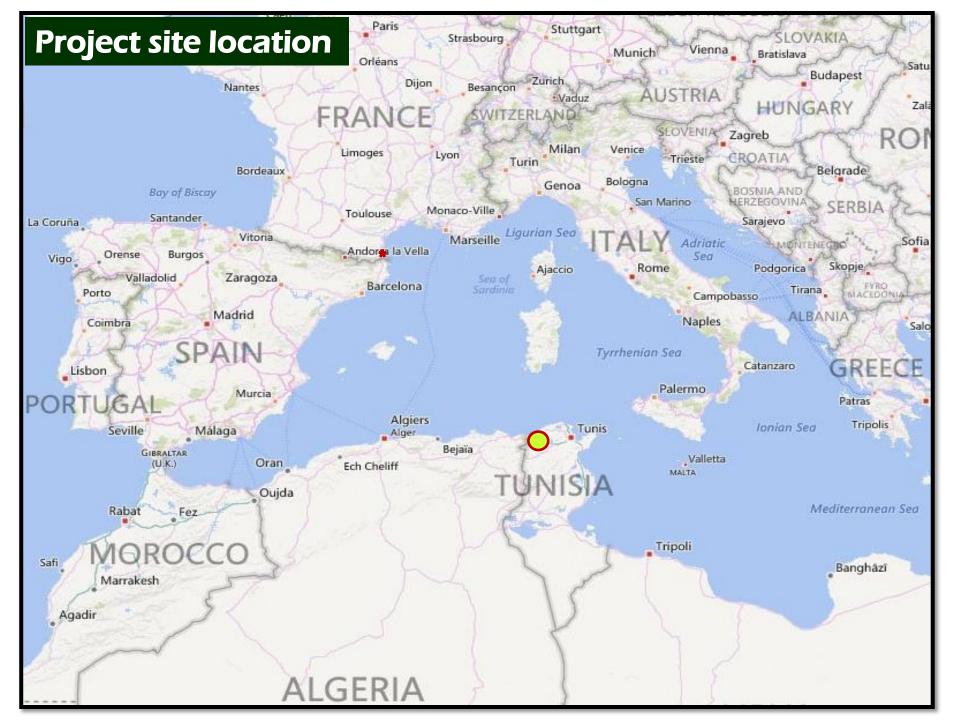
To restore declining cork oak forests thro ugh cork oak plantin g and sprouting rege neration, nursery mo dernization and seed storage

Increase in residents' income

To increase residents' income and protect forest restoration sites by support beekeeping

Capacity building

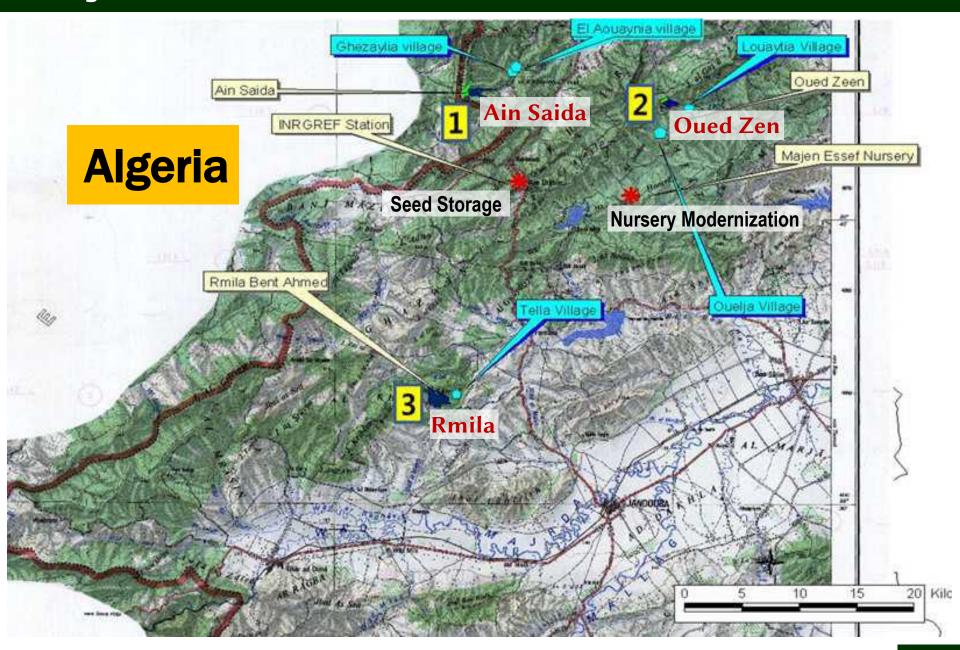
To build capacity thro ugh invitational trainin g of stakeholders such as public officials of related organizations and GDA leaders of 3 villages



Project site location_ Jendouba Governorate, Tunisia



Project site location_ Jendouba Governorate (Ain Draham & Fernana)



Restoration Project by Region _ Scale / GDA in charge of site

	Forest Service	Forest sector	Total area	Planting (ha)	sprouting regeneration (ha)
1	Ain Draham	Ain Saida	45	30 + 5	10
2	Ain Draham	Oued Zen	35	30 + 5	ı
3	Fernana	Rmila	30	25 + 5	-
계	110 ha			100	10

 \times Density per ha: 1,660 trees(3×2m) / + 5: 2,500 trees(2×2m)

GDA in charge of site

Restoration site	Total area	restoration methods	GDA	
Ain saida	45	Planting + sprouting regeneration	Ain saida	
Oued zen	35	planting	Oued zen	
Rmila	30	planting	Tella	

Cork oak forest restoration

Restoration work promotion structure

- Designate the executing entity as the GDA of the nearby village
- Participation of residents in forest restoration project (planting, management , protection of project site)
- Residents' income project support: Beekeeping
- Expected effectiveness
- Encourage preservation for forest
- → Inhabitants' cooperation in prohibiting grazing and taking firewood in the roject site, and taking care of forest fire
- Contributing to the development of the household and local economy by participation in restoration projects and income project
- Responsibility of the implementation, supervision, and supervision about G DA's implementation: Officials of CRDA Jendouba

Cork oak forest restoration _ Signed a contract

- > Place: CRDA Jendouba Meeting Room (Oct. 10, 2016)
- Participants: <Korea> Ambassador of Tunisia, etc.
 <Tunisia> Deputy Minister of Agriculture, etc.
- > Contracting parties: Between PMC (Suppro Co., Ltd.) 3 GDAs

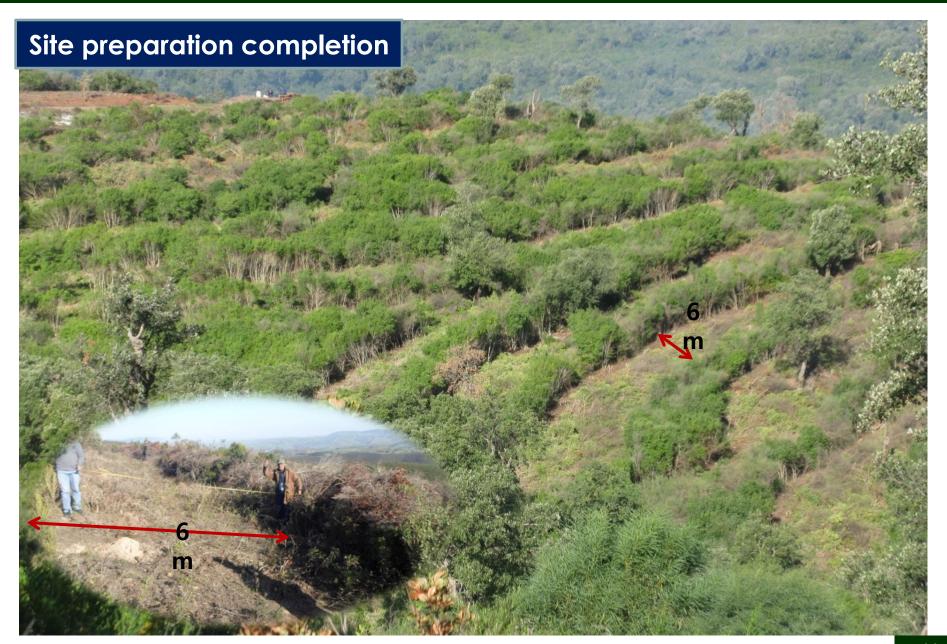


Cork oak forest restoration _ as Planting





Cork oak forest restoration _ as Planting



Cork oak forest restoration _ as Planting

Execution of the planting restoration work



Transporting seedlings for planting

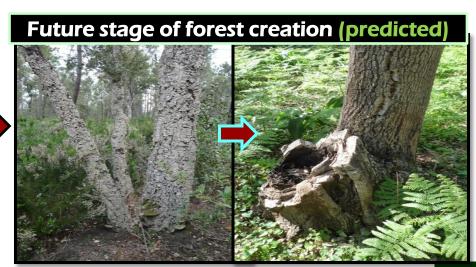
In front of the signboard at the site entrance



Cork oak forest restoration _ as Sprouting

- Location: Ain Saida region (near the Algeria border), where there have already been two previous fires (1994, 2000)
- Background of sprouting regeneration
- When forest fires broke out, logging was performed only on serious fire trees for sprouting regeneration
- This time, it was conducted on rotting trees among the trees left due to the low damage
- Execution of sprouting regeneration: about 200 trees (within 10 ha)
 The date of the logging for sprouting regenerations: March 2017
- Current Situation (April 2018): Beginning sprouting one year after logging, height of sprouting 50cm



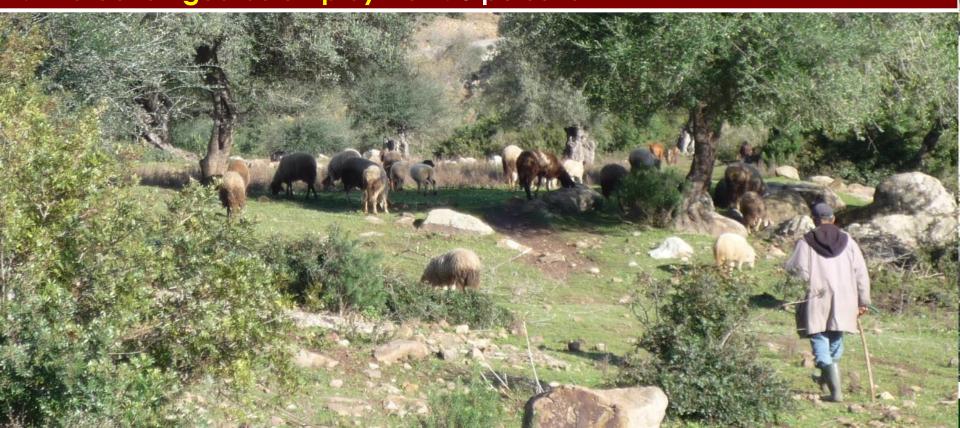


Cork oak forest restoration _ Project site inspection



Project site protection

- Installation of barbed-wire fence: <Purpose> To prevent wild animals (wild boars, elk, etc.) from eating, to prevent access to grazing livest ock and firewood extraction
- **X** (Problem) The opening of the fence for their own convenience
- They have no concept of what the fence is for and why it should be managed
- 2. Protection guards employment: 3 persons



Project site protection



Cork oak forest restoration _ Progress and Problems

Low survival ratio

	Survival ratio (%)		Reason for suspension of	
	July 2017	April 2018	investigation	
Ain Saida	10~80	Stop the investigation	Find out where planting wasn't carried out (2 times)	
Oued Zen	40~50	"	Find out where planting wasn't carried out (1 time, supplementary planning)	
Rmila	80	90		

Causes:

- Planting of poor quality seedlings
- Tunisian argues that: "We implemented enough watering (20 Liter / tree), but due to abnormal high temperature in summer 2017" ???
- **Action:** Perform supplementary planting (Nov. 2017-April. 2018)
- ★ Target survival ratio: 70% 1,166 trees / ha

