

Mangrove Project in Oman

Bader Al Busaidi Environmental System Specialist











Ramsar Sites:

- > Qurm Nature Reserve (Muscat) registered.
- ➤ Al Ansab Wetland (Muscat) registered.
- ➤ Wetlands Reserve <u>under pross to register as Ramsar</u> site.

Classification of wetlands in Oman

 Costal Wetlands: Operated By Environment Authority.

 Internal Wetlands: Operated By Ministry of Agriculture, Fisheries Wealth & Water Resources.

Human Made Wetlands: Companies.



What is Mangrove

Mangrove forests unique are a ecosystem generally found along sheltered coasts where they grow abundantly in saline soil and brackish water.

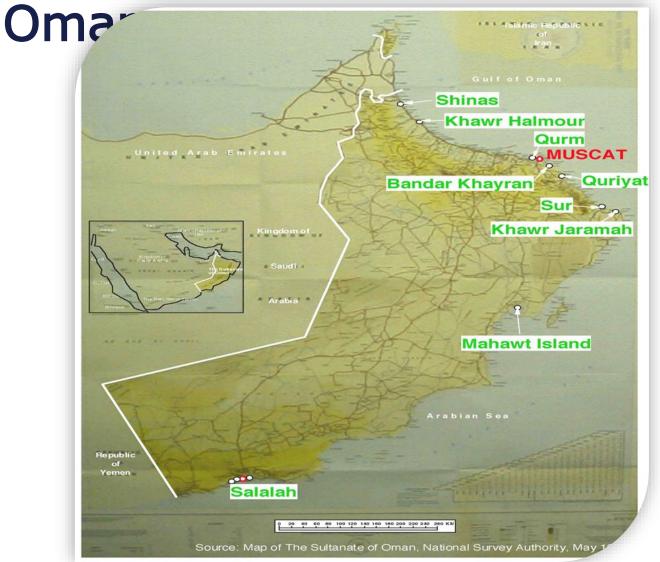


Nature Mangrove Forests in

1. Shinas.

- 2. Khawr Halmour.
- 3. Qurm.
- 4. Bandar Khayran.
- 5. Quriyet.
- 6. Sur.
- 7. Khawr Jaramah.
- 8. Mahawt Island.
- 9. Salalah.

All mangrove forest in Oman is composed of Avicennia marina



Benefits of mangrove

- Mangrove forests one of the biggest environment system to absorb and storage carbon.
- Protect the khawr from flooding and erosion.
- Using their Timber for building house, boats,
 fencing, paper.



- It is major spawning nursery and breeding habitat for commercial fishery species and prawns.
- Important site for habitant birds.









We have four mangrove nursery in Oman







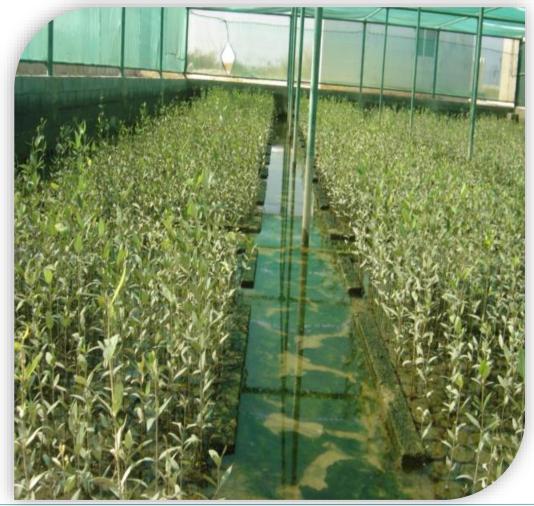


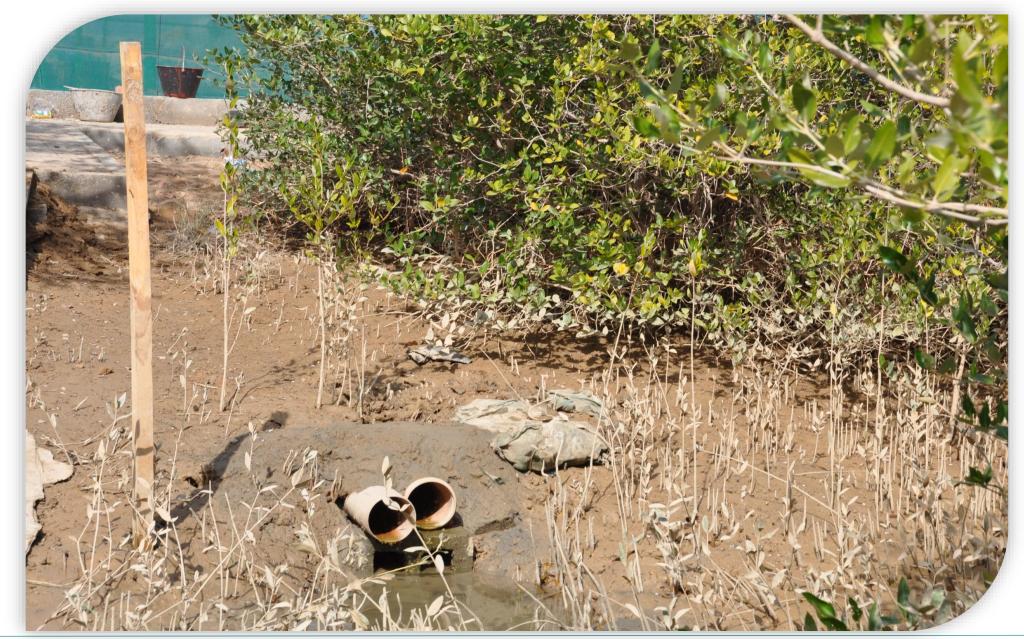




Tidal Irrigation



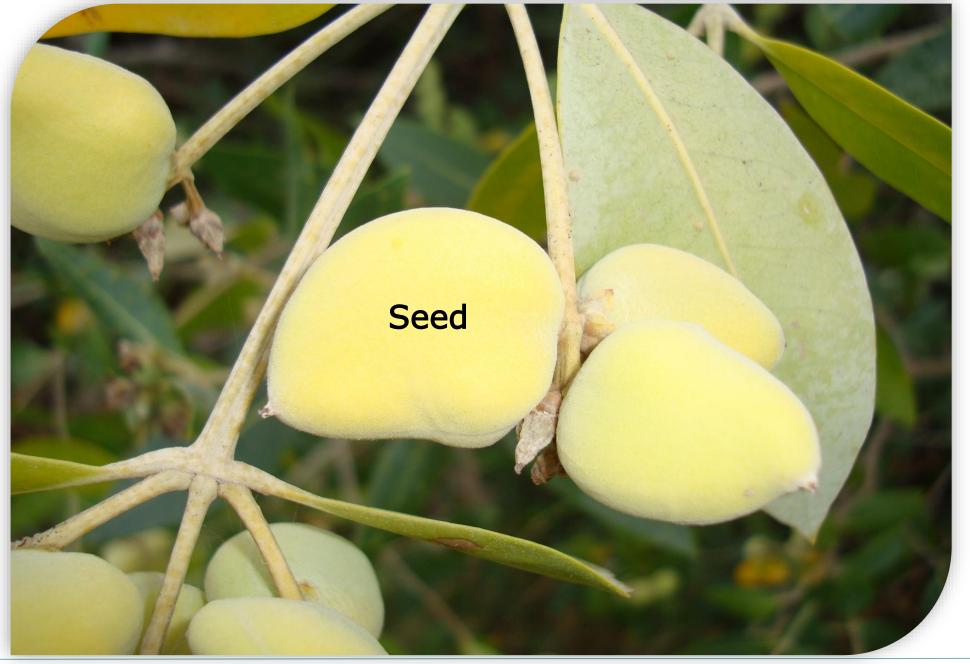


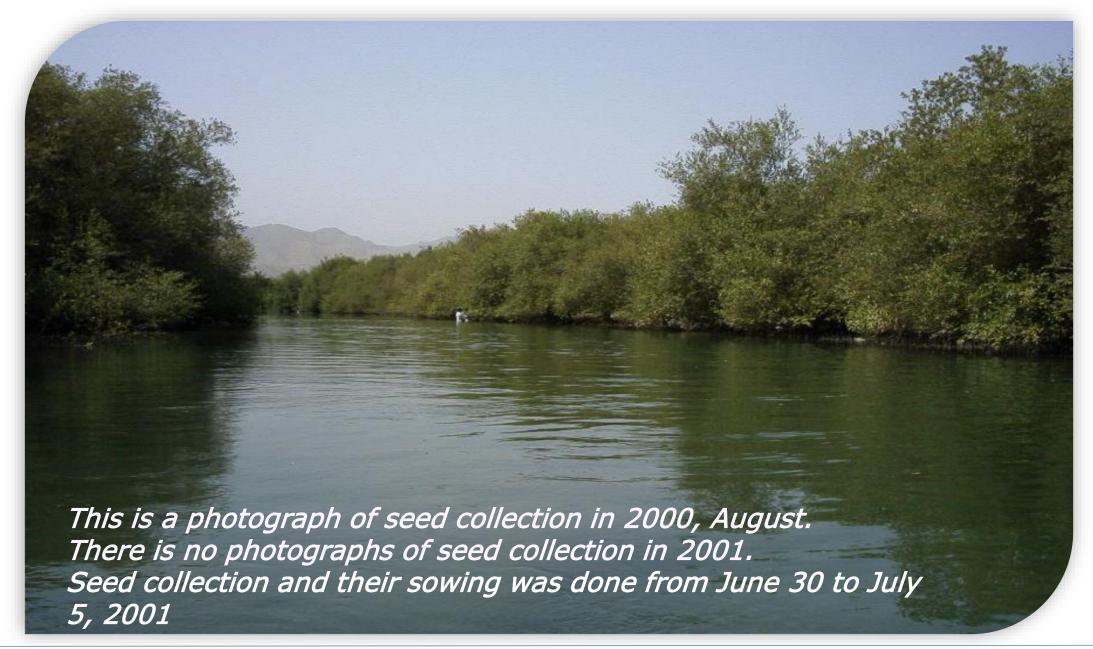














Seed need washed for 6 hours











ENVIRONMENT AUTHORITY

بيئة نظيفة مستدامة

Germination After 14 day



Plantation ways

1. From Nursery





2. Seedling





3. By Drone



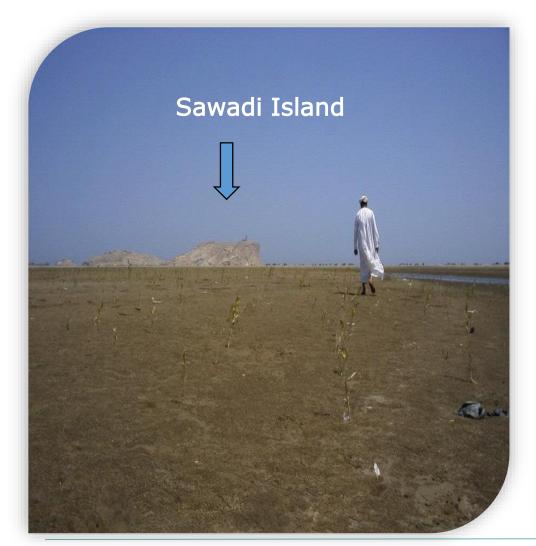


Khwar Al Sawadi -2000









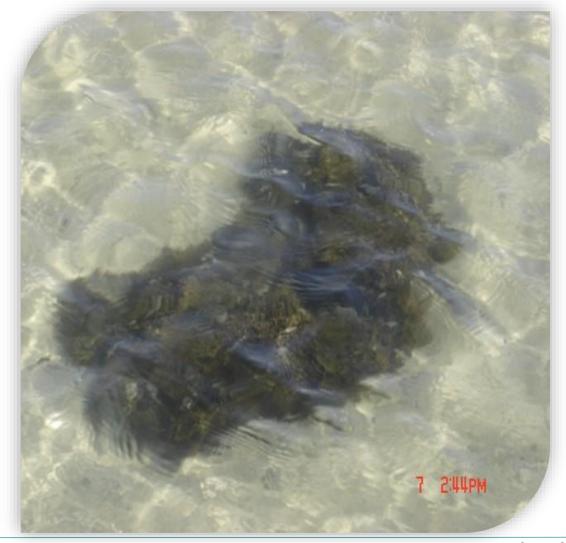




بيئة نظيفة مستدامة

Challenges







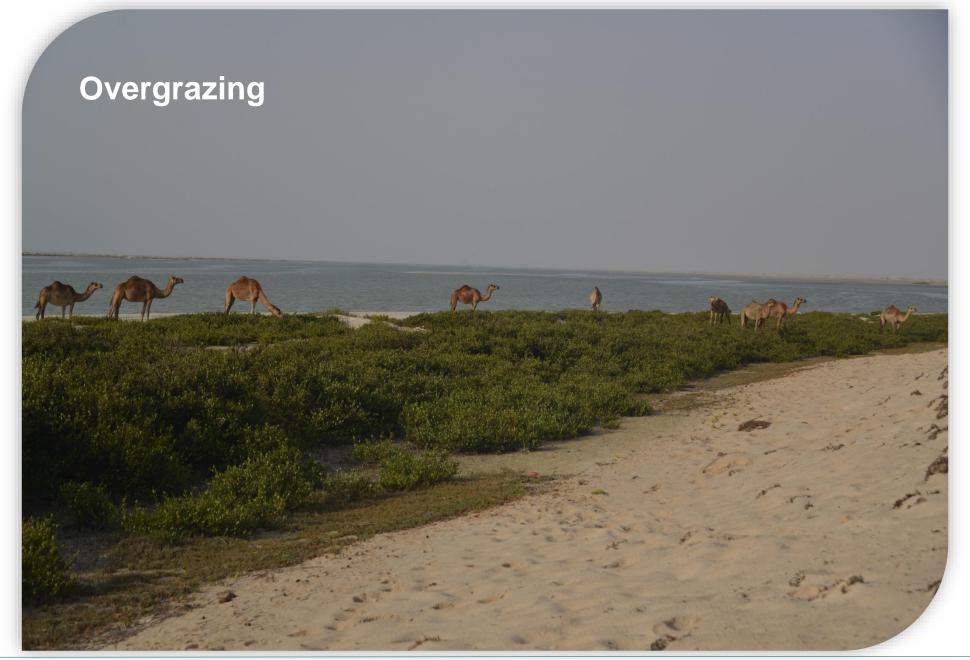
بيئة نظيفة مستدامة







Spraying infected trees with sea water





<u>Up to Sep - 2022</u>

- 32 sites plantation.
- 766,000 Trees.
- More than 800 Ha.

Environmental Education Program in Mangrove













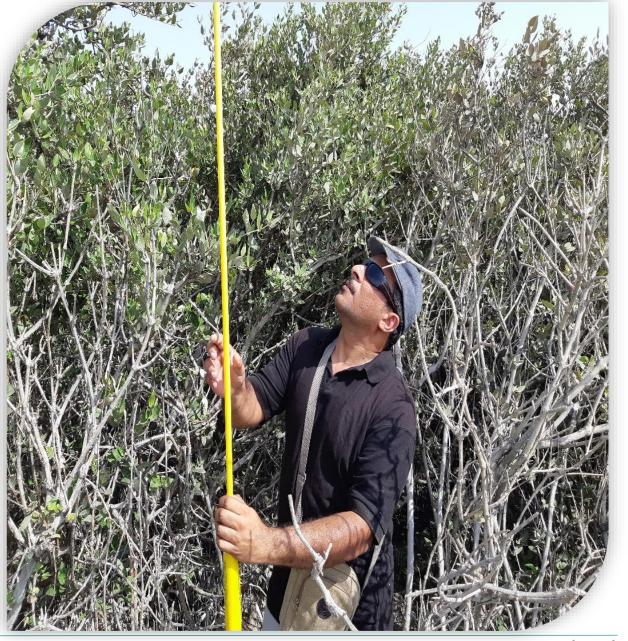




Survey







2021 - 9 meter









