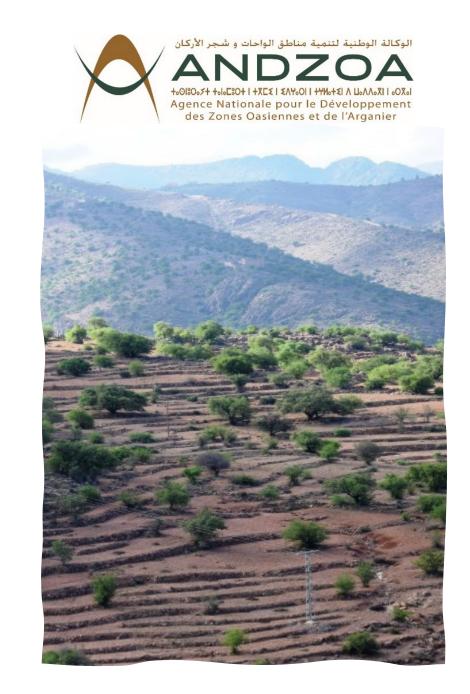


Argan orchards to preserve the argan natural forest

Aitlhaj Abderrahmane

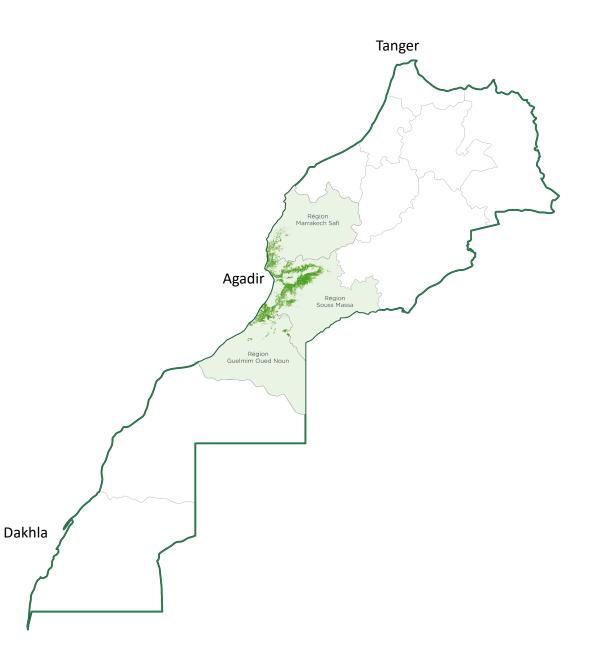
National Agency for the Development of Oasis and Argan Areas

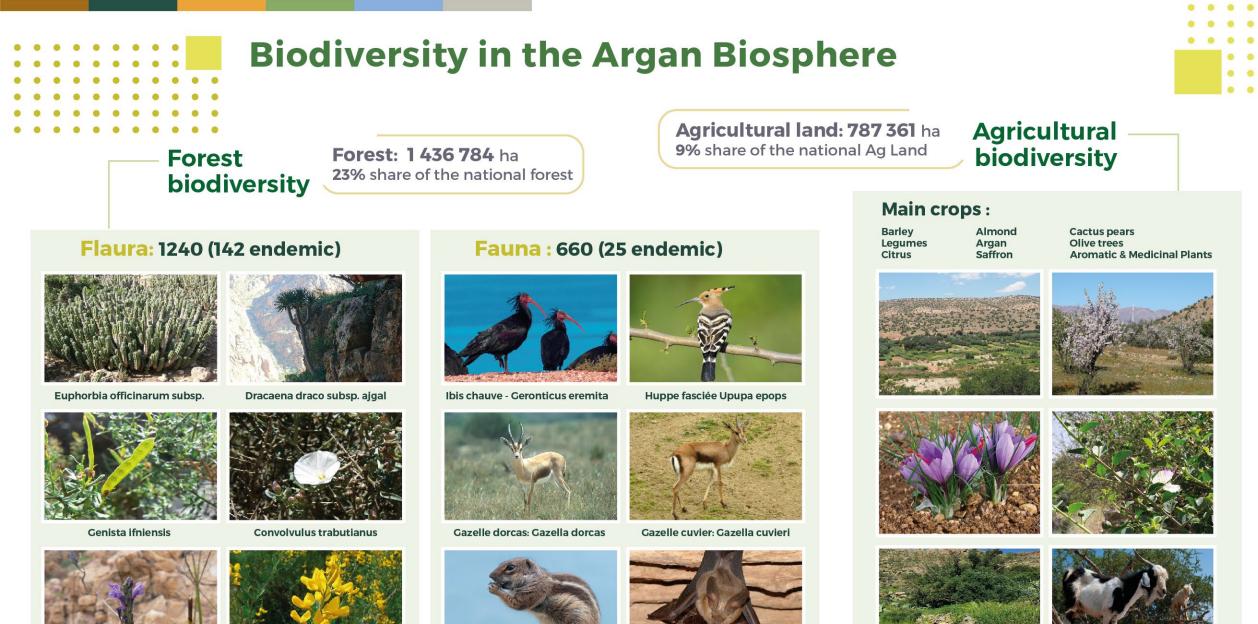
Morocco



Argan Biosphere Reserve

- Argania spinosa an endemic specie
- 830.000 ha
- +3 million inhabitants
- A Biosphere Reserve since 1998
- A GIAHS since 2018
- 11 Ecosystems
- Rich Biodiversity with high endemism (1240 plant species, 660 Animal species)
- High agricultural farming system **diversity** (agro-sylvo-pastoral) mainly on terraces
- great economic interest as it is a multipurpose
- A sector with **multiple uses**
- A corridor against desertification





Ecureuil de Barbarie Atlantoxerus getulus Nyctere de Thebaide:

Nycteris thebaica

Lavandula rejdalii



Hesperolaburnum platycarpum



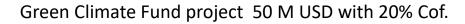
Options

Combining forest **restoration** and agricultural landscape rehabilitation:

- **Restoring forest** 1.
- Planting argan orchards on private land 2.
- Practicing adapted farming system with alley cropping « argan+Aromatic and Medicinal Plants -AMP » 3.

Refarming abandoned agricultural land and terraces Alleviate anthropic pressure on natural forest Improve **Carbone** sequestration Improve resilience





Arganiculture

- Participatory approach
- Agreement with more than 50 NGOs representing the 5000 direct beneficiaries
- Planting **10.000 ha of argan** orchards (90% already established)
- within 2.000 ha as alley cropping (argan trees+ Aromatic and Medicinal Plants-AMP)
- 50 planted sites in the 8 provinces of the argan area









Arganiculture

- Argan seedlings and most of the AMP Species are selected from the natural forest
- Improved nursery production technics
- Adapted cultivation techniques:
 - 200 trees/ha
 - Supplementary irrigation (for the first 36 months)
 - Rainwater harvesting
 - Mulching
 - Organic fertilization (compost)
- Process of On field scientific research to improve technical production package
- Beneficiaries' capacity development and on field Training





Main results

Started 2017:

- Planting 10.000 ha of argan orchards (90% already established)
- within 2.000 ha as alley cropping (argan trees+ Aromatic and Medicinal Plants)
- 50 planted sites in the 8 provinces of argan area









Lessons

- Provide evident beneficial actions in terms of mitigation and adaptation to climate change
- Local population benefit with a direct impact on NDC implementation
- Demonstrate effective participatory approach and coordination among various actors and stakeholders involved in every process
- Demonstrate coordination of policies and sectoral measures
- National capacities to sustain the results



Thank you





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