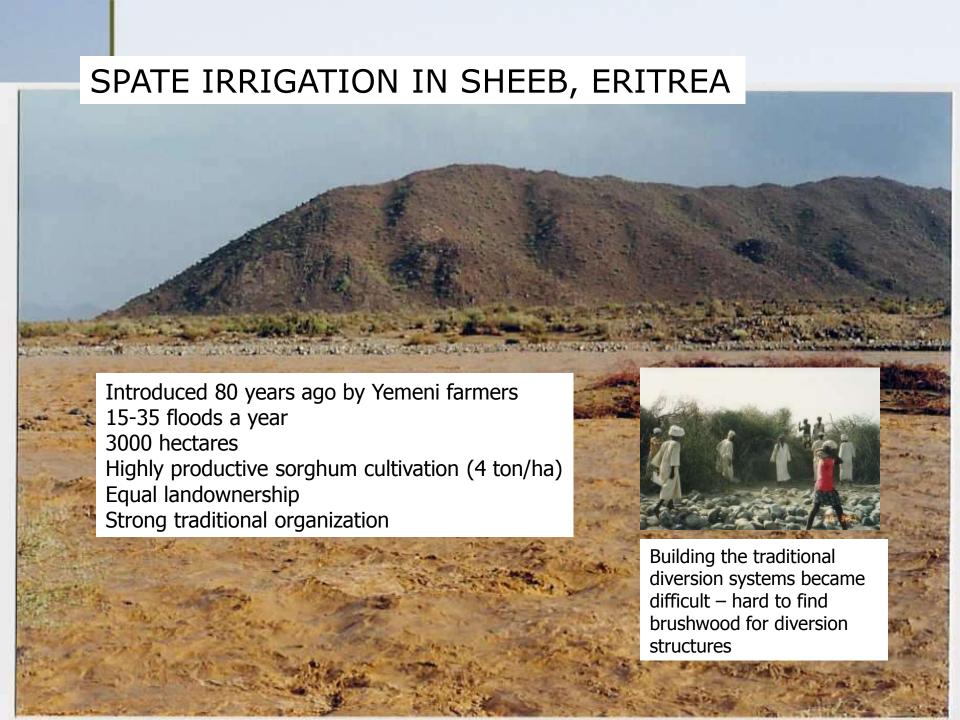
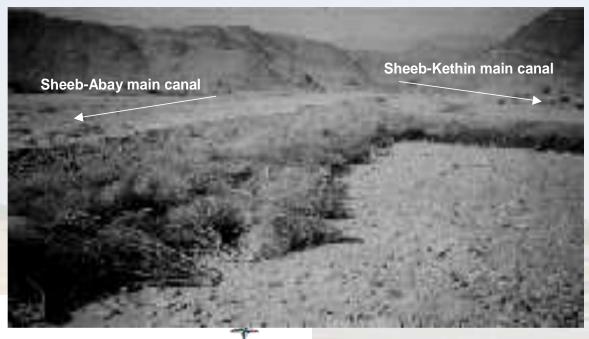
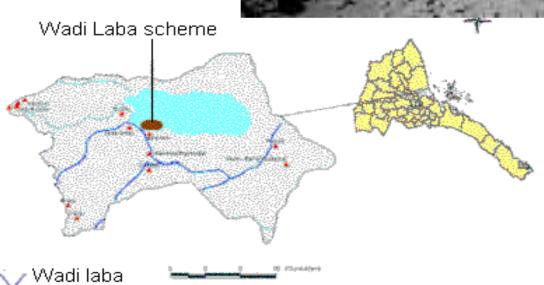
# CASE STUDY: SHEEB FARMERS ASSOCIATION, ERITREA







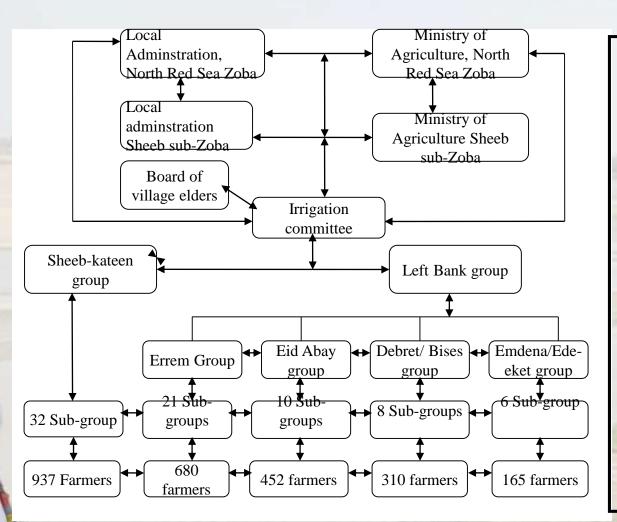


'JELWET',
TRADITIONAL
MAIN FLOW DIVISION
STRUCTURE

....

Sheeb sub-Zoba

## Strong traditional organization

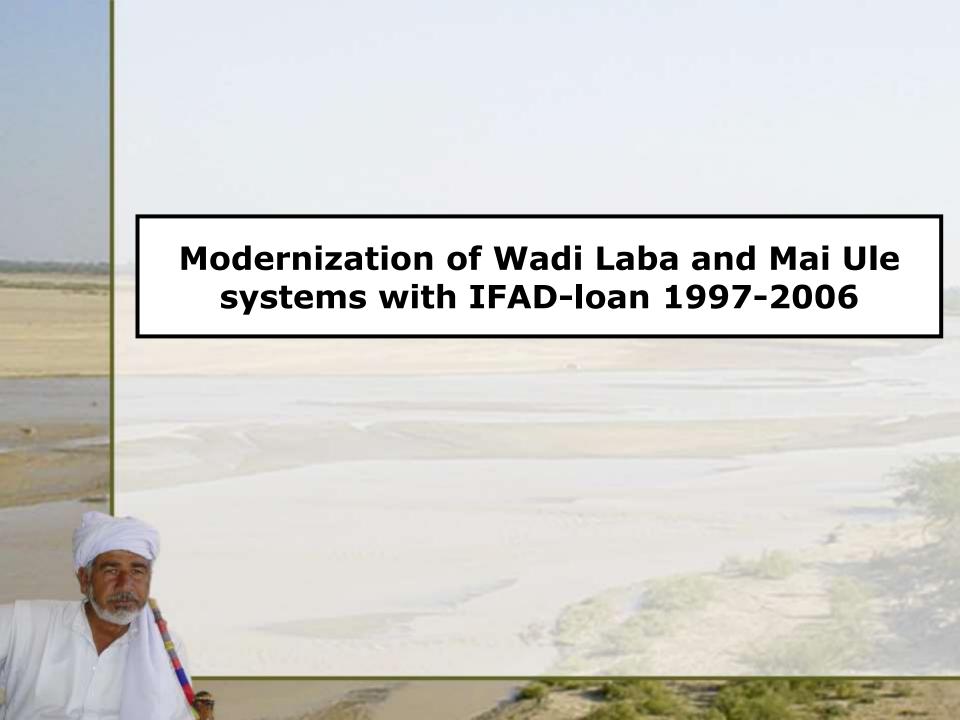


Local leaders: -ternafi (group) -teshkil (subgroup)

Coordination between groups

Relatively egalitarian water distribution

Strong, positive link with government



#### WADI LABA HEADWORKS REPLACING TRADITIONAL 'JELWET'



#### SEDIMENTATION POND

Sedimentation pond is supposed to trap coarse sediment and avoid this enters into the canals and field and cause these to rise too much and become difficult 'to command'

Culvert to right bank takes off from the sedimentation pond

However in Wadi Laba the pond does trap mainly fine sediment and not coarse gravel, because the sluice gate is operated well. This makes it difficult (and less necessary) to operate a bulldozer to clean it out



In later stage of the project local leaders were involved in project management

They were members of the Local Project Steering Committee



## Support was provided to establish Sheeb Farmers Association

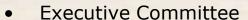
- Based on traditional organization
- New:
  - Manage the headworks
  - Fee collection
- Formal constitution
- Election
- Training
  - Fee assessment
  - Use of bulldozers and frontloader
  - Design and operation of the system
  - Organisation
  - Computer skills

## **Executive Committee**





#### **Sheeb Farmers Association**



- Chairperson
- Secretary
- Treasurer
- Four members
- Representatives of Kebabi Administration (invited)
- Ternafi in each Parta (subcommand)
- Teshkils (groups of 20 farm families)



#### Objective:

to ensure the efficient operation and maintenance of the irrigation system, so that the members can make full use of the spate irrigation development



### Membership is increasing

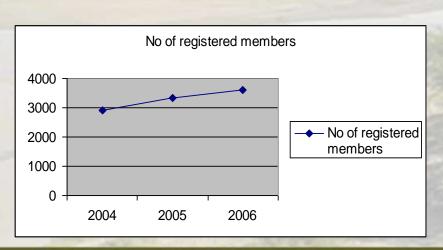
Compulsory

• Admission criteria

• Fee: 10 NfK

• Gone up from 2913 to 3607

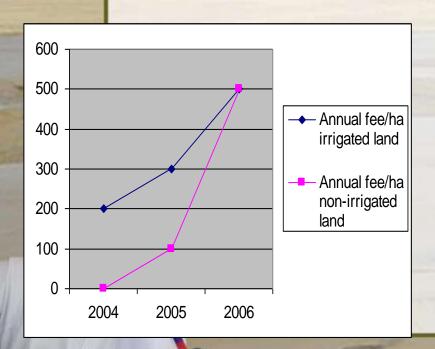






#### Financial performance

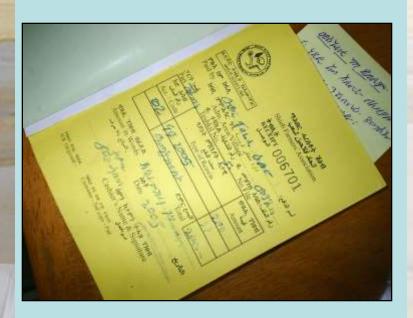
- Annual fee increased to Nfk 500/ha all land (=40 USD/ha)
- Default is low: 8-11%
- Non-payment recouped next year (with fine)



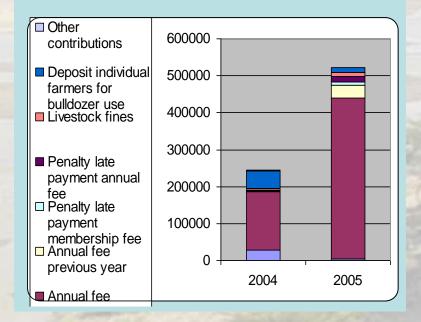


## Financial performance

 Fee collection system is wellorganized



• Different source of income: annual fees, fines, penalties

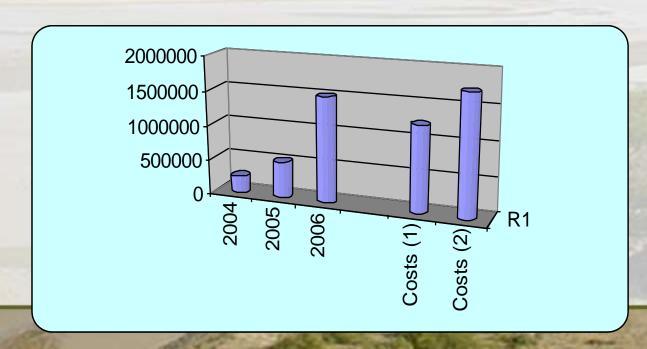




## Financial performance

- Target collection from annual fees: Nfk 1431000 (USD 110,000)
- Expected from fines etc: Nfk 70000
- Costs annual routine maintenance: Nfk 1730000
- Costs (minus sedimentation pond): Nfk 1230000







#### Annual fee to be increased

- Annual fee now covers costs of routine maintenance
- Costs for replacement not included yet



However at 500 NfK annual fee is 2% of gross farm income

There is hence scope to increase the annual fee to cover replacement costs





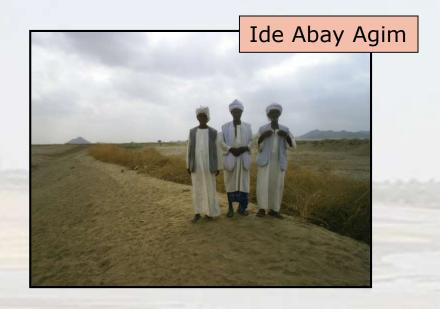
#### Operational performance (2)

- The SFA has also coordinated the several adjustments to the system to accommodate to the new situation (especially capturing the run-away water from the headworks)
- It has resolved the related water distribution problems





## Adjustments to the modernized system



Agim to Sheeb Katin



Mai Ule Intake

