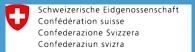
# Switzerland' support to transboundary water cooperation in Central Asia



Olivier Magnin Omina Islamova



# Swiss support for Water Management in Central Asia

- Switzerland supports water management in CA since 2000, cumulative committments - 50 million USD
- Focus of regional program:
  - Testing IWRM approaches in three countries and promoting transboundary cooperation
  - Creating a regional data base for CA water management
  - Working in close partnership with regional water coordination institutions: ICWC and IFAS

• Integrated Water Resources Management Ferghana Valley: improving effectiveness, reliability and equity of water delivery to the farm gate by introducing demand oriented and transparent water allocation mechanims





• Canal Automation: equitable and transparent water allocation thorugh stabilizing and monitoring water flows in canals





• Water Productivity Improvement at plot level: on-plot water management to minimize water consumption



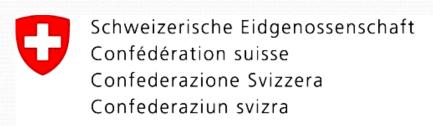
- Rural Enterprises Support Project II: up-scaling IWRM approach with the World Bank
- Water Resources Management Sector Project: up-scaling IWRM approach with the Asian Development Bank



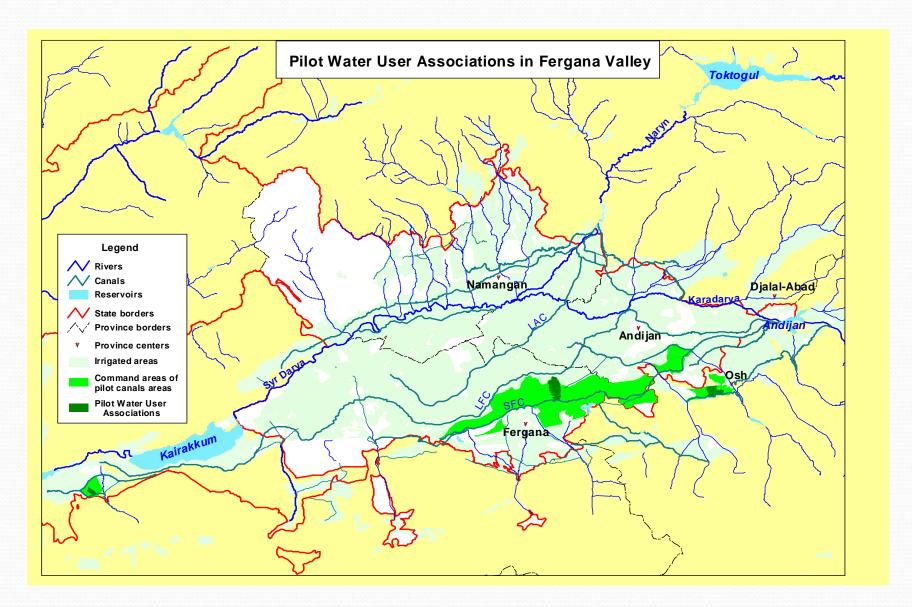


- Data for improved water management
  - Central Asia Regional Water Information Base (CAREWIB)
- Central Asia Energy Water Programme: providing seed funds to the World Bank to launch one of the components « Energy Water Modelling »
  - Aim: « establish a common platform for analysis, accepted by and useful to all countries to support both collective and national dialogue on regionally significant initiatives »

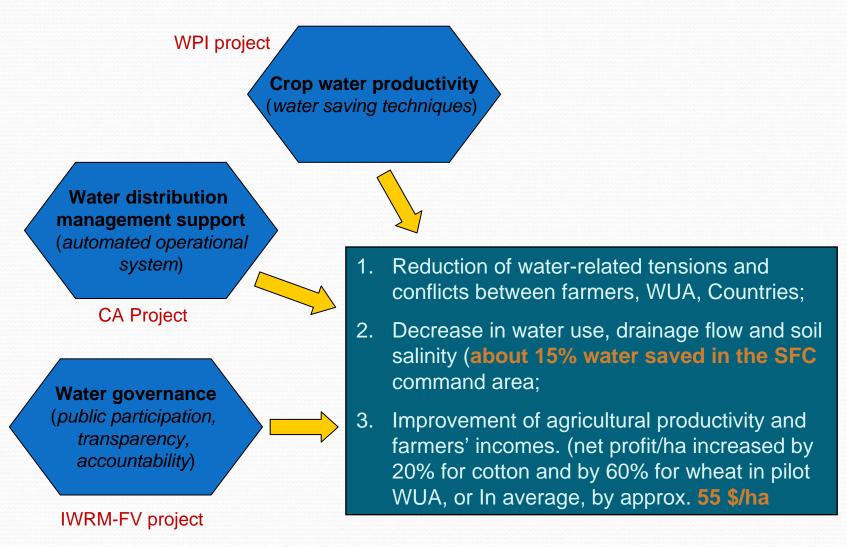
# Potential impact of the Swiss IWRM approach in Uzbekistan



# The projects area



### Combined results of the programme

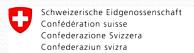


# Project replication (by Donors)

#### Cost estimation

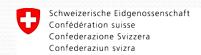
Thanks to the FV Swiss experience, the cost of a replication would be:

- IWRM approach up to Canal level + water productivity improvement :
  - 3 M. USD for 100'000 ha; 4 years
- Canal automation :
  - 1 M. USD for 100'000 ha; 2 years
- Altogether :
  - 4 M. USD / 100'000 ha; 4 years



## From water to energy saving

- The Swiss approach if applied Nation wide in Uzbekistan -
  - 50% of total irrigated area use pumped water,
  - Equivalent to 27 Km3/year
  - costing the government 328 Mil USD/year in electricity
  - The Swiss IWRM approach results in about 15% water saving or 4 Km3 of pumped water, equivalent to 48 Mil USD saving/year in electricity



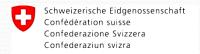
### Cost/benefit of IWRM at national level

- Total irrigated land in Uzbekistan : 4.2 Mil. ha (or 42 x 100'000 ha)
- According to our rough estimation,
  42 x 4 Mil. = 168 Mil USD would be needed, to implement the Swiss IWRM approach at national level (without government input !)
  - → recoverable in less than 4 years, considering only the energy saving!
- But the real cost should be much lower due to the expected strong involvement of the State in this scaling-up

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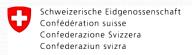
# Cost/benefit of IWRM at national level (2)

- Increased revenues derived from improved yields at plot level :
  - According to conservative estimates, IWRM practices have increased farmers revenues by
    \$ 30 per hectares /year
  - Projected over the 4,2 million ha:
    - → \$ 126 Mil. as additional benefit.



# Ways forward

- Bottom-up consultation mechanism (water governance) needs to be complemented by a top down basin planning.
- It is time now for the governments of the region to define a strategy to implement these IWRM principles nation-wide.
- INBO lessons learned in basin planning and related policy dialogue could be used in Central Asia.



# Ways forward (2)

- Official and transparent data sharing mechanisms have to be established between the data providers and users in CA to facilitate decision making.
- Reform of water and agricultural sectors need to be supported by all stakeholders.
- For this, Donors should join forces and speak with one voice

