Thematic Process Session

Session T 4.3.4 - Building trust: Facilitating data and information exchange between the riparian countries in transboundary basins

Thursday 16 April, 14h40-16h40 - Daegu EXCO, room DEC_304

Round table 1: Developing Innovative monitoring

Innovative monitoring in the frame of the IMoMo project in Central Asia

Pilot project on the Chu basin

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Innovative monitoring in the frame of the IMoMoMo project in Central Asia
Pilot project on the Chu basin

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The land reform in the nineties in the Kyrgyz Republic has fragmented the agricultural economy and to-date there are about 200’000 farmers;

This has fragmented the irrigation network in Kyrgyzstan since some WUA have more 1000 members;

Traditional monitoring system is expensive to introduce and maintain in this new challenging context;

In this context, crowdsourcing becomes a helpful instrument to ease the burden of murabs;

Murabs and farmers equipped by phones can supply data to WUA databases;

However, the integrated system with balance calculation at each level should allow to calculate the wrong inputs
What was a normal monitoring system in the soviet times is considered an innovative tool nowadays in irrigation sector of Kyrgyzstan and other countries of CA;

- SCADA systems integrated in management information online tools;

- Web-based systems save costs related to IT infrastructure and staffing;

However, water accounting should ideally mean money accounting. In other words this means introduction of business logic in the sector so that innovative instruments become sustainable means to achieve efficiency and effectiveness.
Elements of context

- Location of the Chu basin

⇒ A basin with a great need to improve efficiency in water uses and water management
⇒ With more than 90% of water uses in agriculture
Supporting Water User Association (WUA) in data production with innovative solutions

- **Solution 1**: Water Level Measurements through **Smart Sticks** with data sending via SMS to WUA database
Supporting Water User Association (WUA) in data production with innovative solutions

- Solution 2: Flow measurements of an irrigation canal via smartphone video with direct data sending via SMS to WUA database
Integrated application with traditional monitoring at the WUA leve lfor water accounting combined

- Online easy, secure and fully integrated web-based water accounting system for
  - Water flow data archiving
  - WUA-level accounting
  - Rayvodkhoz-level accounting