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## Tradition and Modernity New Ways for an efficient Water Management

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### With a first view traditional water management is

- Antiquated
- Not efficient
- Uncomfortable

### With a second view traditional water management could be

- More sustainable
- Better adapt to the local situations and conditions
- An additional option especially for rural areas
- Helpful for participation and public awareness (regional identity)
- A local alternative to large central networks

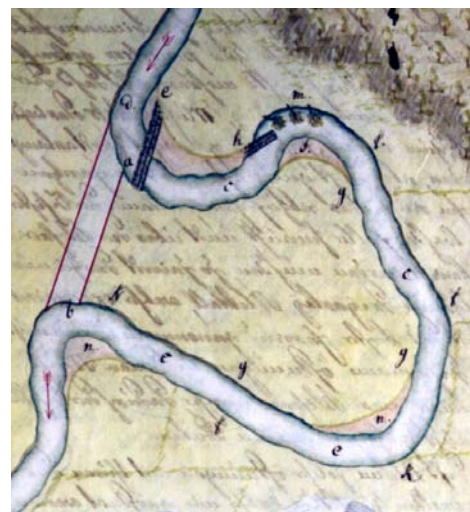
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## Sectors there ideas from traditional water management could be successful used today

- **Water extraction / Water harvesting**  
Quansats, Rainwater harvesting (domestic and rural areas)
- **Water transfer in time**  
Cisterns, Hafire and small Dams, including underground dams
- **Irrigation**  
Flood or flush irrigation (to prevent salinization), Rainwater harvesting, Mist and Dew harvesting
- **Water power**  
lift Water with water, small water power, combination with solar power
- **Repair and reconstruction**  
could be much better and cheaper with a good knowledge of the function
- **Additional aspects**  
Management of Water rights, social limitations, Transfer to other regions/cultures, use of historical water installations and Monument conservation,



Great Knowledge of the past  
300 years old maps explain the  
consequences of different types of work  
at a river




Universitätsbibliothek Kassel, Landesbibliothek  
und Murhardsche Bibliothek der Stadt Kassel

### An idea for modern Bridges?



#### Multifunctional Bridge in Isfahan

- Traffic on two levels
- Small Water power
- Upstream Storage
- Groundwater infiltration
- Distribution to irrigation

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### Rainwater harvesting



#### Flood Protection rebuild in an old style

Petra, Jordan



Linosa, Italy

Institut für Klassische Archäologie, Friedrich-Schiller, M.A.

Suderburg

## Requirements

- A good understanding how the traditional methods has work, not only technical but also in which social context and so on.
- Networking and education to develop solutions together with the users and identify problems early
- Broad political support and a real water price
- Good examples to learn how the idea can work and to convince interested regions and organisations
- A handbook for training of engineers, craftsmen and to inform the public
- Study courses / summer schools for students to learn more about the possibilities and limitations

