The Global Groundwater Monitoring Network

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December 2017, Geneva HydroHub & IAHS-MOXXI Innovation in Hydrometry - from ideas to operation

IGRAC - Global Groundwater Centre

IGRAC is UNESCO's and WMO groundwater centre

facilitates and promotes sharing groundwater information and knowledge required for sustainable groundwater management

Focusing on

- transboundary aquifer assessment
- information & knowledge management and
- groundwater monitoring





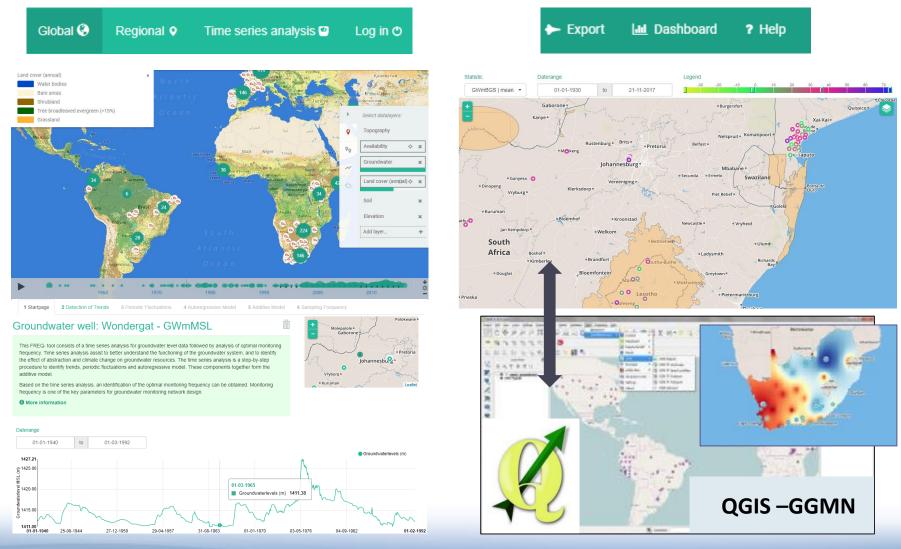


Why Groundwater Monitoring?



- Increased pressure on groundwater and increased need for informed decision-making and management of groundwater
 - Global lack of groundwater knowledge and data
 - Limited accessibility and availability
 - Regional Groundwater Management
 - Scattered and fragmented data among countries / institutes (Involvement of many stakeholders)
 - Diversity of data protocols, regulations, institutional settings
- Global Groundwater Monitoring Network (GGMN) Programme
 - to improve quality and accessibility of groundwater monitoring information and hence the knowledge on the state of groundwater resources.

GGMN Portal functionality





GGMN & Future Innovations

Sensor Observation Service (SOS)

• Direct connection with partners/countries

Groundwater Markup Language (GWML)

• Designed to enable a variety of data exchange scenarios





MyWell app

- Crowd-sourcing data
 - Immediate feedback, visualization of trends





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Educational, Scientific and · Hydrological Cultural Organization • Programme



International



World Meteorological Organization



Government of The Netherlands