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Data and Information

Required for informed groundwater management

Overview

Introduction

Data and information needs and sources

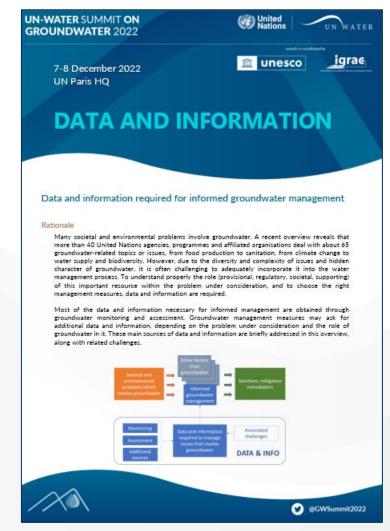
- Groundwater monitoring
- Groundwater assessment

Additional data and information needs

11/30/2022

Challenges

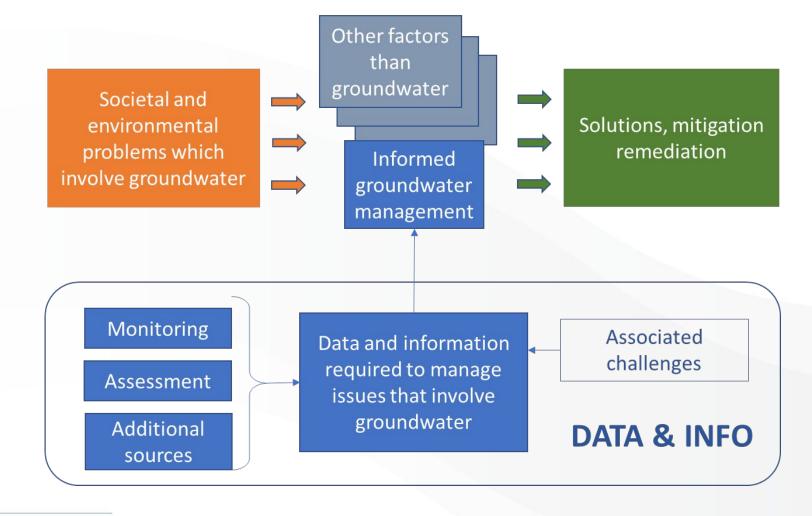
Take home messages



https://groundwater-summit.org/background-documents/



Introduction





Data and information needs and sources (1/2)

• <u>Groundwater monitoring</u>: the systematic measurement/observation and recording of the state of an aquifer.

Purpose

Parameters

Frequency

Traditional and new approaches

Quality assurance and control



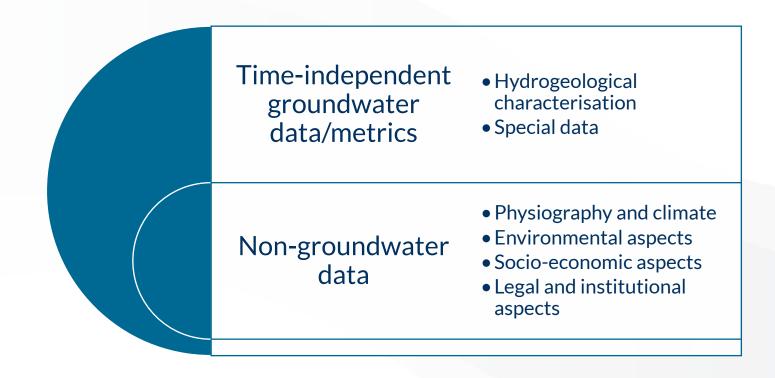






Data and information needs and sources (2/2)

• <u>Groundwater assessments</u> use monitoring outcomes together with all other relevant information to evaluate the status of the groundwater resource.





Additional data and information needs

Measures, tools and instruments

Supply

Demand

Protection

Regulations

Stakeholders' participation







Challenges

Duplicated, contradictory and/or non-existent mandates to collect groundwater data Lack of resources (human and financial) General lack of sharing of data and information Poor data management without proper QA and QC Data collected is not transformed into useful information



Take home messages (1/2)



Current scientific knowledge and methods and tools available are sufficient to address most groundwater management issues.



Groundwater
assessments at field
level are crucial to
enable informed
policies and
management of
groundwater
resources.



No groundwater assessment is complete, and no reliable prediction can be made without an in-depth analysis of historical data.



Data that are findable, accessible, interoperable and reusable (FAIR) will support transforming data into useable information for decision making.







Take home messages (2/2)



Specific data and information are needed to manage societal and environmental issues that involve groundwater.



Multiple challenges need to be addressed to ensure informed (ground)water management.



Raising awareness, increasing citizen participation and lobbying for appropriate monitoring and assessment is crucial for groundwater sustainability.







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