Data sharing
Innovation
Technology

UN-Water Summit on Groundwater 2022
Session – Data and Information
Wednesday, 7th December
11:00 - 12:00

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WMO OMM
World Meteorological Organization
Organisation météorologique mondiale
WMO Unified Policy for International Exchange of Earth System Data
Adopted in October 2021

- Integrated Earth System data policy – weather, climate, hydrology, ocean, atmospheric composition, cryosphere, space weather

- Free and unrestricted data exchange

- “Core” data (shall be exchanged) and “Recommended” data (should be exchanged)

- Implementation of policy via regulatory material regularly updated

- Includes guidelines for national implementation and public-private engagement

https://library.wmo.int/index.php?lvl=notice_display&id=22100#.Y1ZYjHZByUk
Standardization and brokering approaches for facilitating hydrological data sharing

WMO Hydrological Observing System (WHOS)

Standardization approach
is key in making data more
findable, accessible, interoperable and reusable

Compatible and complementary

Brokering approach
addresses technological, data and format layers of interoperability

WaterML2.0: Groundwater page 234
(https://library.wmo.int/doc_num.php?explnum_id=10530#page=234
WMO-OGC Workshop "GroundWaterML2 standard" | HydroHub)
WMO HydroHUB

The Global Hydrometry Support Facility

It strengthens fit-for-purpose and sustainable monitoring capabilities through innovation.

INCREASED CAPACITY
- Capacity and Needs Assessments
- Trainings and Learning Exchanges

OPTIMIZED ENGAGEMENTS
- User-Provider Workshops
- Ministerial Roundtables

OPERATIONALIZED INNOVATION
- Innovation Workshops
- Innovation Calls
There is currently no global system capable of assessing the current status of surface and groundwater systems or predicting how they will change in the immediate future (season and sub-seasonal).

The System will be implemented with/for/by National Meteorological and Hydrological Services (NMHSs), offering simple, accessible hydrological information to the different stakeholders.

When HydroSOS becomes globally operational, it will be a key input to the annual State of Global Water Resources report.
The first WMO State of Global Water Resources 2021 report is limited to the conditions of streamflow, terrestrial water storage and selected cryosphere parameters.

WMO is committed to extending it to include groundwater, soil moisture and water quality in future editions.

Sharing hydrological information in accordance with the WMO Unified Data Policy will help increase the validation process.
Thank you
Merci