



5TH SADC GROUNDWATER CONFERENCE

16 – 18 NOVEMBER 2022, WINDHOEK, NAMIBIA

GROUNDWATER: Making the invisible visible for socio-economic development



Key messages about achieving SDG 6: How can access to water be enhanced by strengthening groundwater governance frameworks?

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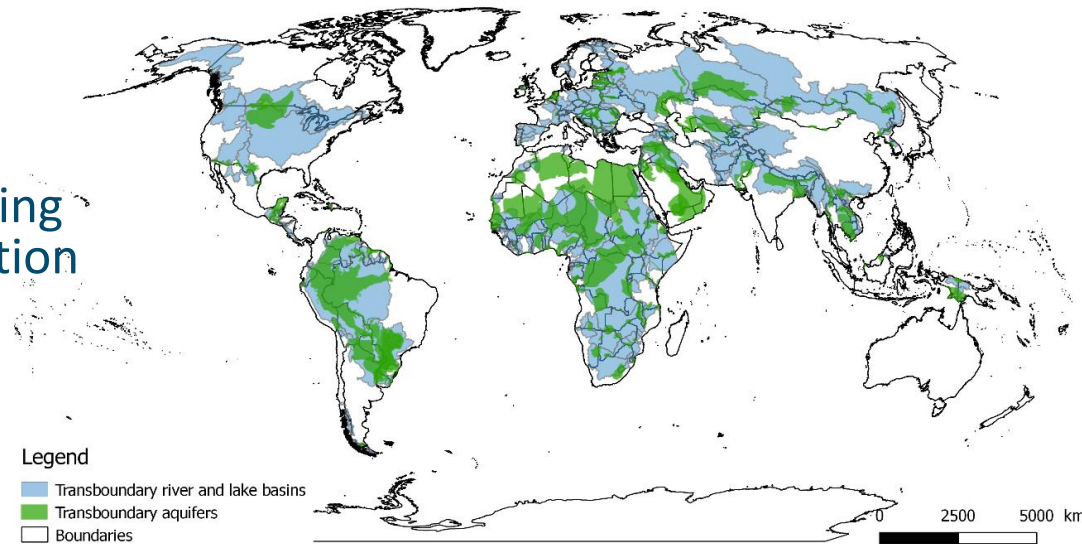


Cooperation is crucial to achieve SDG 6 because most of the world's water resources are shared

SDG 6: Ensure availability and sustainable management of water and sanitation for all



Target 6.5: By 2030, implement integrated water resources management at all levels, including through transboundary cooperation as appropriate.



Indicator 6.5.1 Degree of IWRM



Indicator 6.5.2 Proportion of transboundary basin area with an operational arrangement for water cooperation



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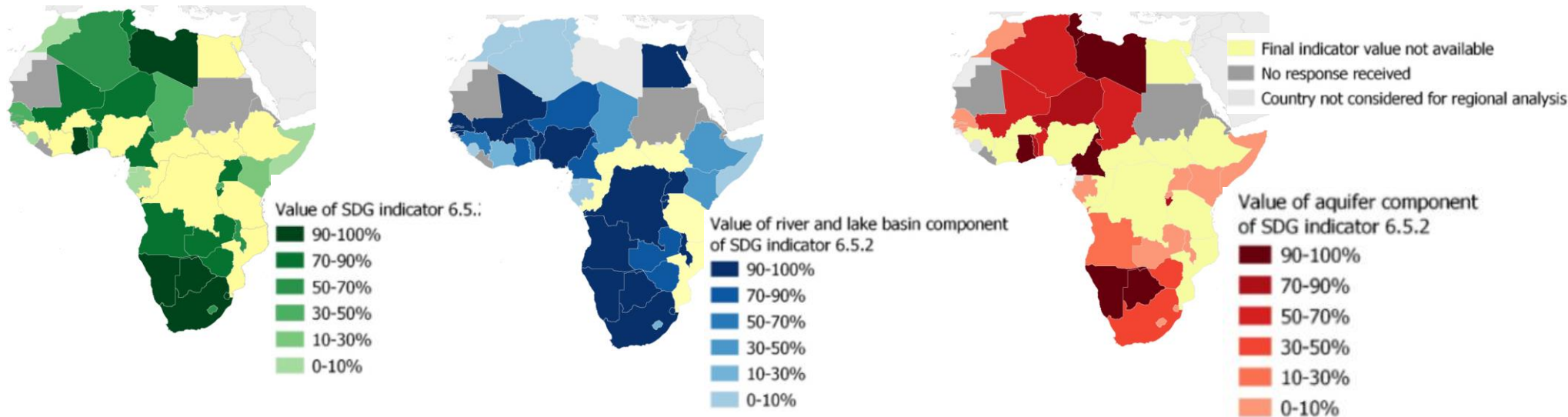
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Results of the 2nd SDG 6.5.2 monitoring in Africa show that more operational arrangements on transboundary waters and more data on transboundary aquifers are needed

- **Increased responses rate and increased quality of the responses**
 - 43 out of 48 countries sharing water resources in African region responded, vs 37 in 2017
 - Indicator 6.5.2 overall value available for 31 countries in 2020, vs 23 countries in 2017
- **Only 2 countries with all transboundary waters covered by operational arrangements**
 - 11 countries with all surface waters covered (rivers and lakes)
 - 3 countries with all aquifers covered
- **There are opportunities to capitalize on existing watercourse arrangements to better account for shared aquifers**



Examples of transboundary water cooperation: Indicator 6.5.2 monitoring helps enhance cooperation

- **Stampriet Transboundary Aquifer System (STAS) – Establishing a Multi-Country Cooperation Mechanism (STAS MCCM)**
 - ✓ Hosted within Orange-Senqu River Commission's (ORASECOM) Ground Water Hydrology Committee (GWHC), which facilitates IWRM application
 - ✓ Long-term vision: move from data collection and exchange to joint strategizing and advising STAS countries
- **Senegal-Mauritanian Aquifer Basin (BASM) cooperation**
 - ✓ progress in cooperation on groundwater in the region
 - ✓ in part triggered by the first reporting exercise on SDG 6.5.2 in 2017
 - ✓ building on the success of surface water cooperation and on the expertise of RBOs
 - ✓ Cooperation initiative and Regional Working Group for Transboundary Cooperation –
 - ✓ consist of riparian States and RBOs
 - ✓ with support from UNECE, IGRAC, Geneva Water Hub, and financial support from the SDC and EU
 - ✓ Momentum: Gambia, Guinea-Bissau, Mauritania and Senegal signed a declaration on the establishment of institutional transboundary cooperation on BASM during MOP9 (29 September 2021)

Key areas to accelerate progress considering that the 3rd round of monitoring takes place in 2023



Address Data Gaps



There has been **strong country engagement** in the monitoring exercise, but data remains a challenge, particularly for transboundary aquifers and countries with no **SDG indicator value**



Strengthen legal frameworks

The water conventions and the draft articles on transboundary aquifers offer a solid basis upon which to **revise or negotiate** new arrangements



Upscale capacity development

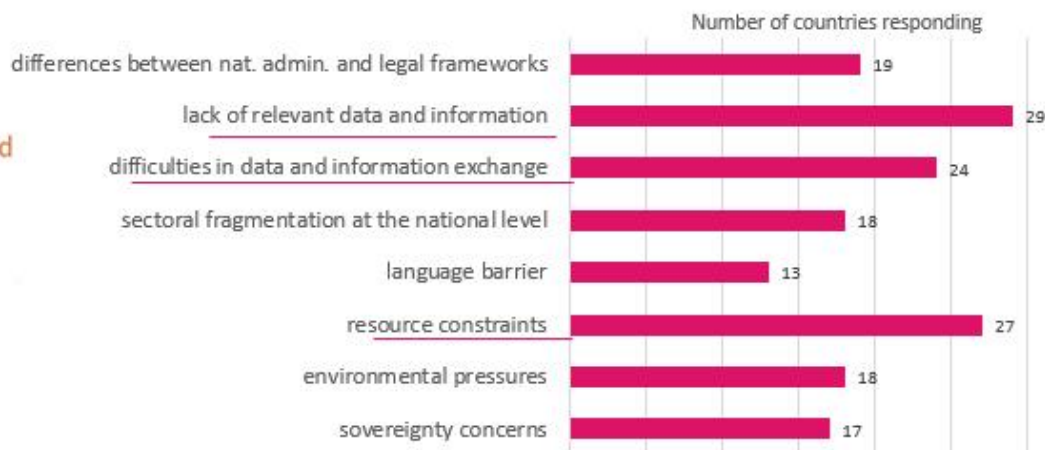
Capacity building is important for negotiating and implementing operational arrangements

Leveraging and mobilizing expertise

There is a need to **upscale and coordinate** the activities of international organizations to **provide targeted support** to countries



Main challenges faced by countries in cooperating on transboundary waters – Sect. IV, Q^o1, African countries



Building political will

addressing **structural barriers** and finding **innovative financing mechanisms** is needed to address current financing shortfalls



SDG 6 Global Acceleration Framework



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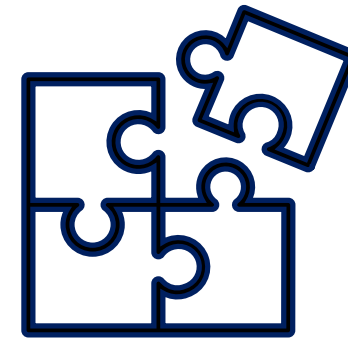
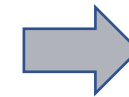
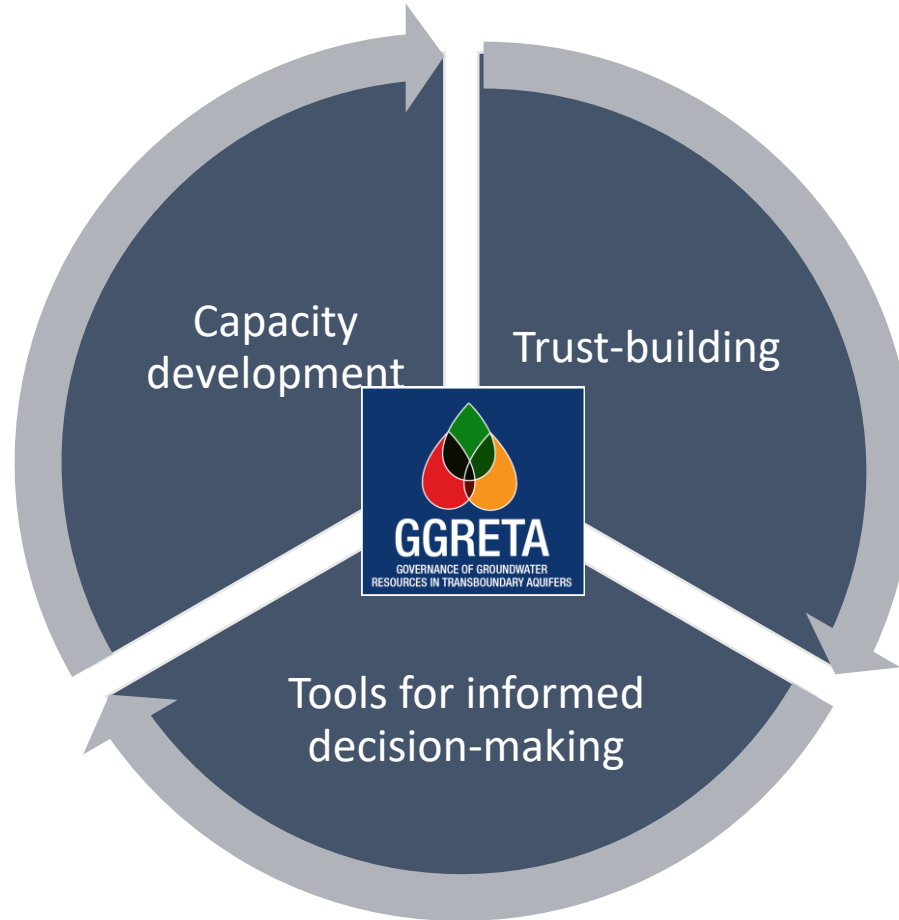
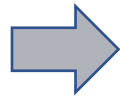
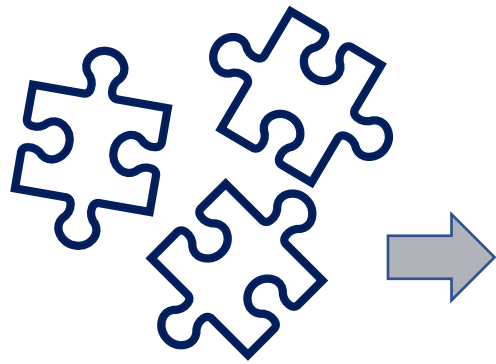
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Strengthening cooperation and governance of transboundary aquifers needs a multi-disciplinary approach



Starting point:

- Limited knowledge of shared groundwater resources
- Lack of dialogue on transboundary aquifers

Achievements:

- Jointly-built understanding of the TBAs
- Strengthened cross-border dialogue and cooperation
- Strengthened governance

Knowledge about transboundary aquifers needs to be developed jointly and including many stakeholders

GGRETA 1: STAS multi-disciplinary assessment (2015)



Stampriet

Transboundary Aquifer System Assessment

Governance of Groundwater Resources in Transboundary Aquifers (GGRETA) - Phase 1

Technical Report



GGRETA 3: STAS strategic action plan (2021-22)

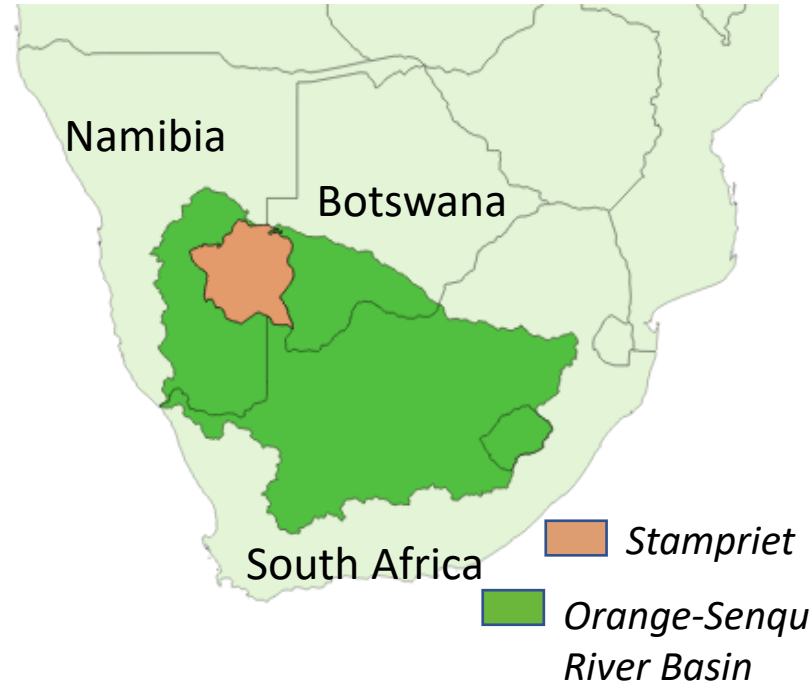


THE JOINT STAMPRIET TRANSBOUNDARY AQUIFER SYSTEM STRATEGIC ACTION PLAN



Strategic Action Plan

August 2021
Report No: ORASECOM 001/2021

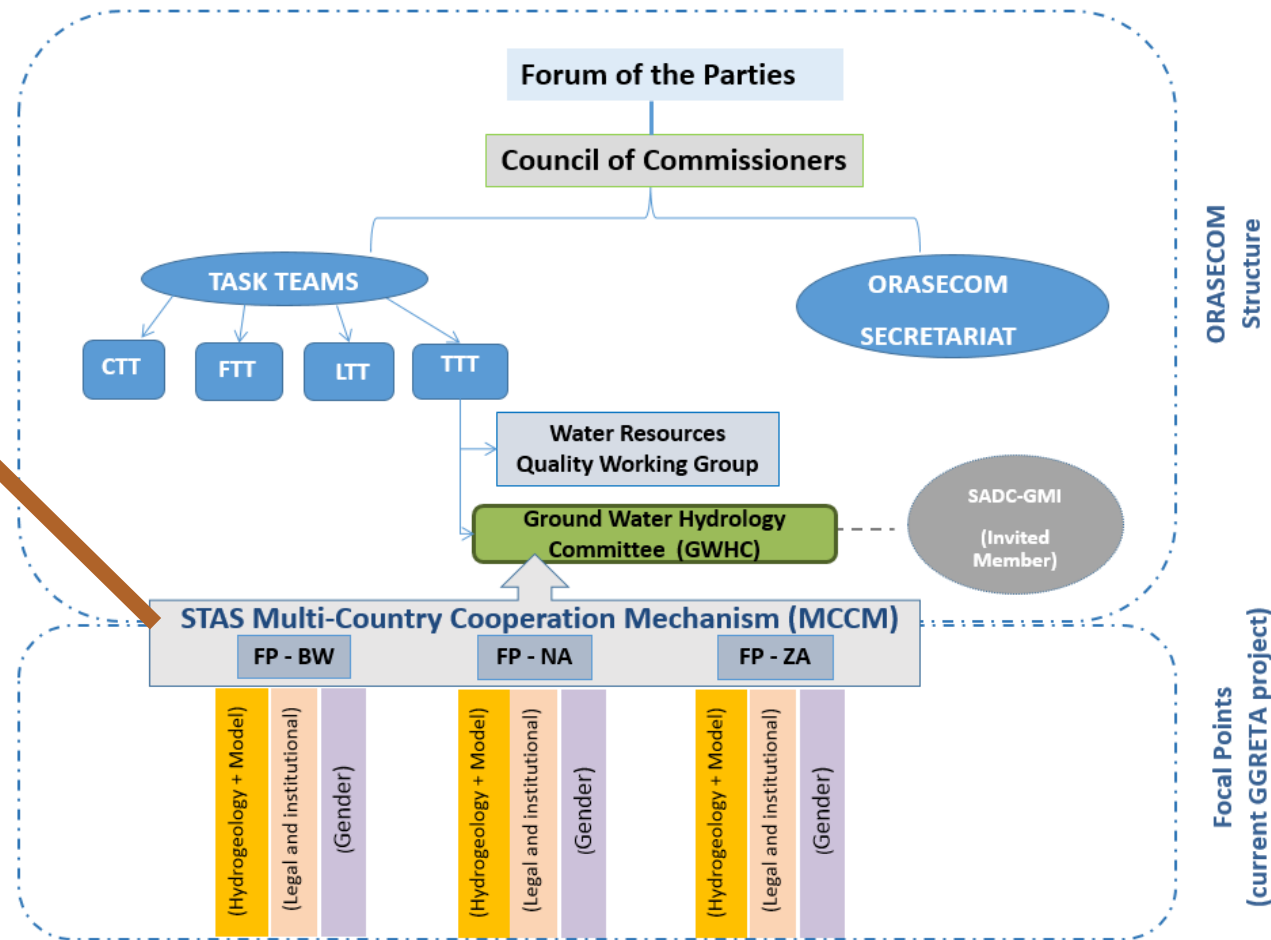


Knowledge-based tools are key for stakeholders to make informed decisions about the management and use of their groundwater resources

River Basin Organizations (RBOs) are key players and provide a favorable institutional framework for cooperation over transboundary aquifers in Africa

In 2017, ORASECOM decided to establish a **Multi-Country Cooperation Mechanism** for the Stampriet (STAS), nested in its Groundwater Hydrology Committee.

RBOs are also a good platform to support actions towards the conjunctive and informed use of surface water and groundwater resources



Capacity development is crucial for stakeholders to lead and participate meaningfully in actions to achieve SDG 6

In the case of the GGRETA project: workshops, webinars and trainings have been delivered to build capacity among key project partners in Africa.

These aimed at supporting them to:

- Internalize important concepts and notions related to TBAs management and governance
- Co-build a joint understanding of groundwater dynamics based on scientific knowledge
- Access and use the tools offered by GGRETA for informed management and cooperation
- Get involved in processes towards improved groundwater management in their shared TBAs



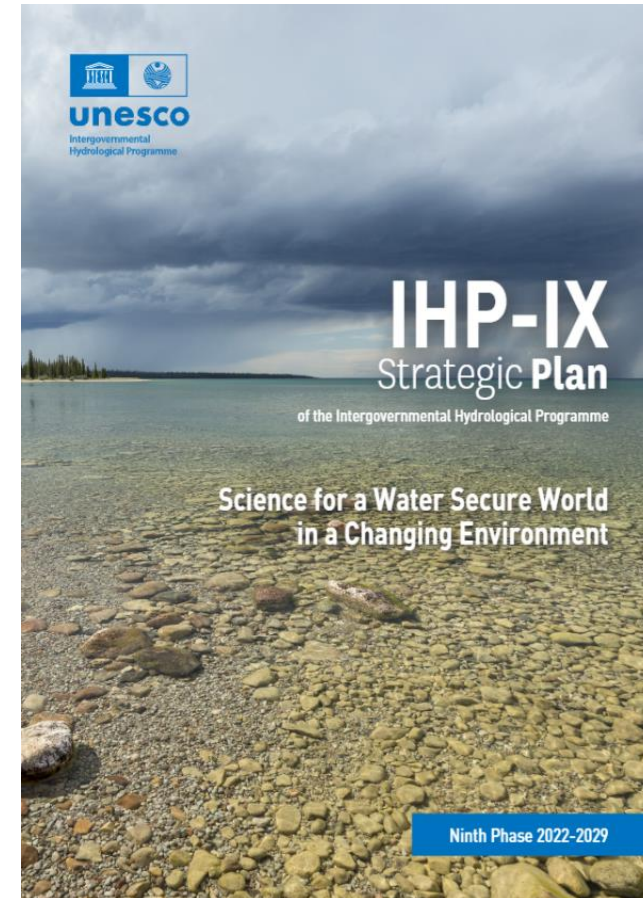
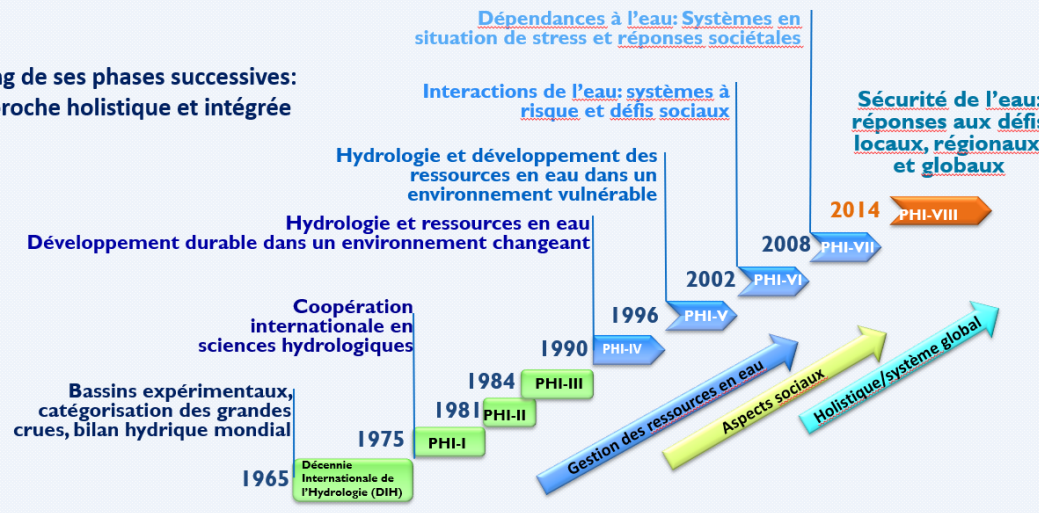
See online courses at:

<https://openlearning.unesco.org/>

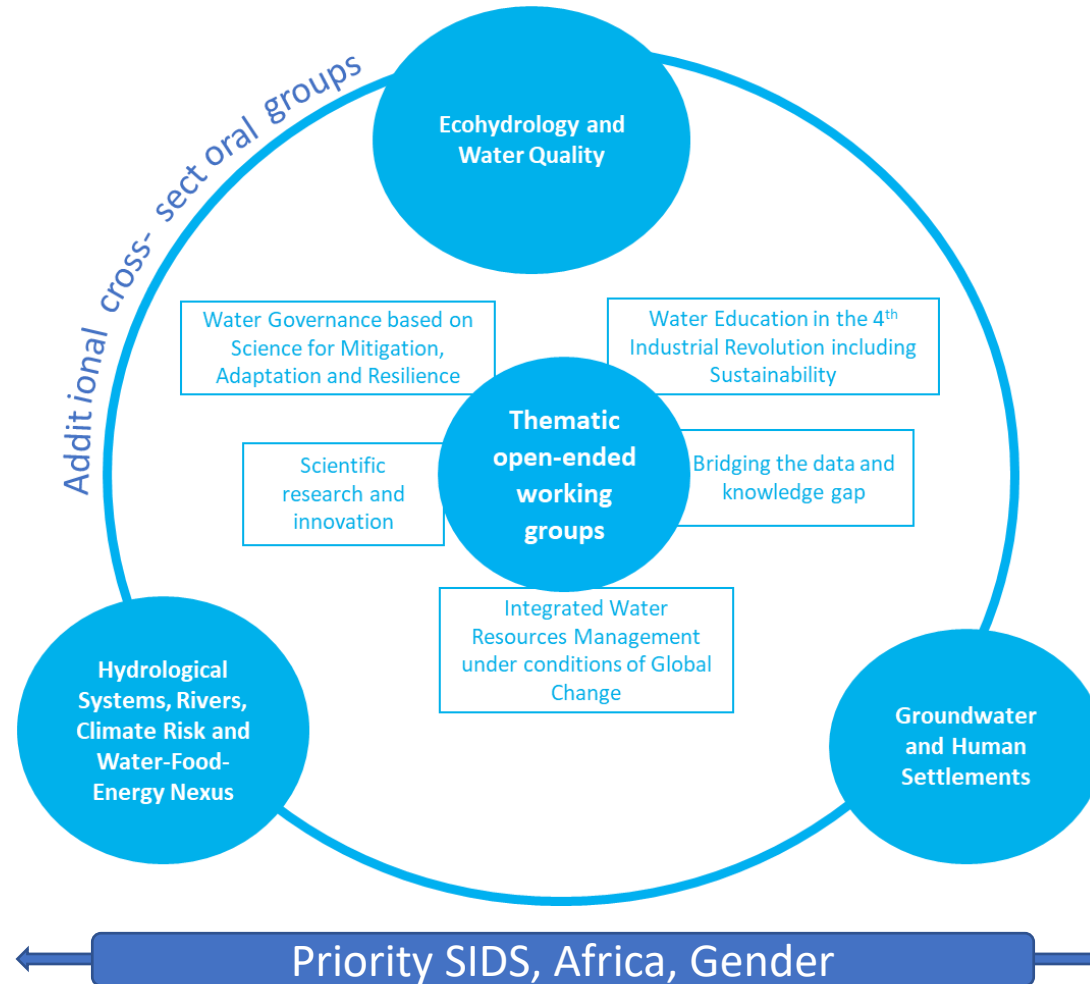


IHP IX (2022-2029) Science for a Water Secure World in a Changing Environment

Le PHI au long de ses phases successives:
vers une approche holistique et intégrée



Groundwater continues to be thoroughly addressed in IHP IX

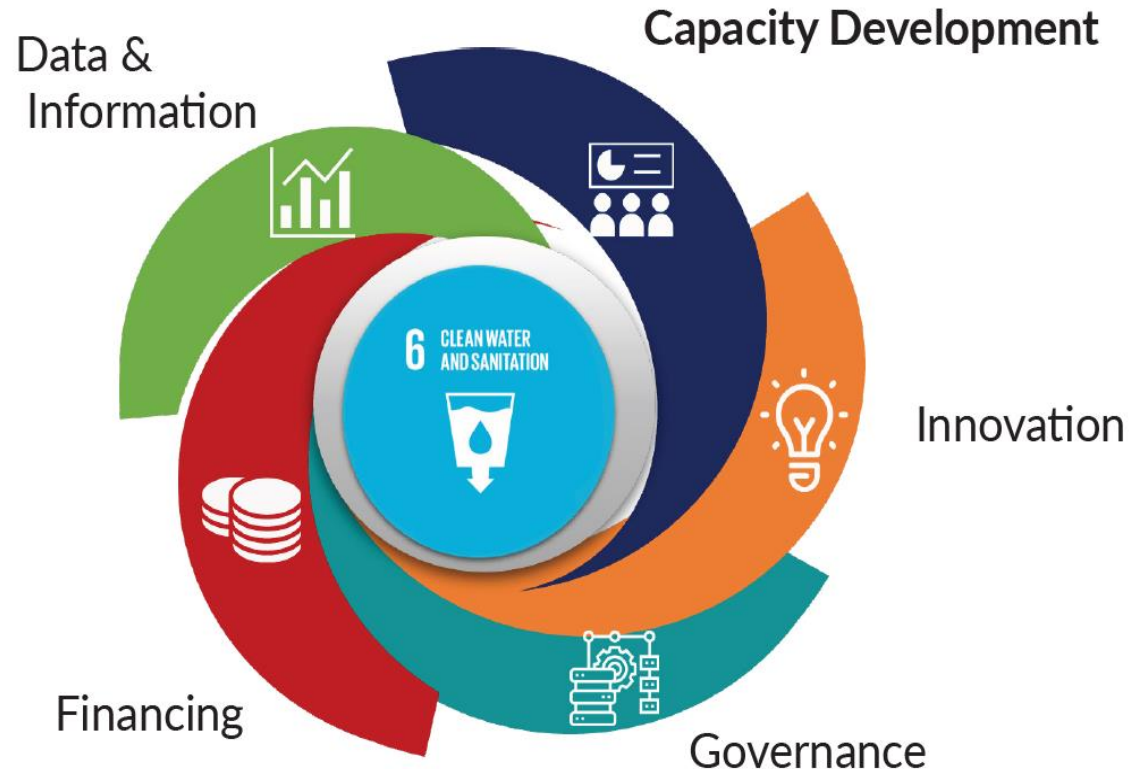


IHP IX (2022-2029) Science for a Water Secure World in a Changing Environment

UN-Water SDG 6 Capacity Development Initiative



The CDI responds to the SDG 6 Global Acceleration Framework, which has capacity development as one of its 5 accelerators:



UN-Water SDG 6 Capacity Development Initiative



The UN-Water SDG 6 Capacity Development Initiative (CDI) serves as the inter-agency coordination platform on freshwater, sanitation and hygiene-related capacity development work.



The Initiative enables the UN system and its partners to align efforts and 'deliver as one' in support to countries in developing capacities to accelerate implementation of water and sanitation-related goals and targets of the 2030 Agenda.



The Initiative is demand-driven, responds to specific country's capacity development needs by facilitating support from the UN system and other development partners, and encourages national-level ownership.

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Groundwater Summit: a milestone event to rise attention on groundwater in Africa

UN-Water Summit on Groundwater, 7-8 December 2022,
Pre-Summit side events: 6 December, UNESCO HQ, Paris, France



6 December
19 side events

7 December
Opening +
5 Plenary
"Accelerators" sessions

8 December
5 Thematic sessions +
Closing

| | Tuesday 6 December Pre-Summit | Wednesday 7 December High-level Plenary Sessions | Thursday 8 December High-level Plenary Sessions |
|---------------|--|--|--|
| 09:00-09:30 | Side Events | Registration and Welcome coffee | Regional Dialogues |
| 09:30-10:00 | | Opening Ceremony | Transboundary Aquifers |
| 10:00-10:30 | | | Coffee Break By Indonesian delegation |
| 10:30-11:00 | | Groundwater and Acceleration Instruments for SDG6 Data and Information | Groundwater: Focus on Africa |
| 11:00-11:30 | | | Lunch |
| 11:30-12:00 | | Groundwater and Acceleration Instruments for SDG6 Capacity development | Strengthening Interface Science-policy Practice |
| 12:00-12:30 | | | Groundwater Youth Forum |
| 12:30-13:00 | | Groundwater and Acceleration Instruments for SDG6 Innovation | Tea Break |
| 13:00-13:30 | | | Closing Ceremony |
| 13:30-14:00 | | Tea Break Vernissage: Water Museums Global Network | Special Event - World Water Forum 2024 Followed by Cocktail organized by the Indonesian delegation to UNESCO |
| 14:00 - 14:30 | | | |
| 14:30 - 15:00 | | Groundwater and Acceleration Instruments for SDG6 Finance | |
| 15:00 - 15:30 | | | |
| 15:30 - 16:00 | | Groundwater and Acceleration Instruments for SDG6 Governance | |
| 16:00 - 16:30 | | | |
| 16:30 - 17:00 | | Special Event - World Water Forum 2024 Followed by Cocktail organized by the Indonesian delegation to UNESCO | |
| 17:00 - 17:30 | | | |
| 17:30 - 18:00 | | Special Event - World Water Forum 2024 Followed by Cocktail organized by the Indonesian delegation to UNESCO | |
| 18:00 - 18:30 | | | |
| 18:30 - 19:00 | Special Event - World Water Forum 2024 Followed by Cocktail organized by the Indonesian delegation to UNESCO | | |
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www.groundwater-summit.org

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Groundwater Summit: a milestone event to rise attention on groundwater in Africa

UN-Water Summit on Groundwater, 7-8 December 2022,
Pre-Summit side events: 6 December, UNESCO HQ, Paris, France



- **Dedicated thematic Session : "Focus on Africa"** organized by AMCOW
- President and Secretariat of AMCOW invited as Speakers and Panelists
- Participation of high-level African countries' representatives expected in several sessions
- Presentation of the results of the African Regional Preparatory Meetings organized within the preparatory process of the UN 2023 Water Conference
- Ceremony to celebrate cooperation of Botswana, Namibia and South Africa on the joint management of their shared Stampriet aquifer system
- "Passing the GW Baton" from Senegal (9th World Water Forum, Dakar, 2022) to Indonesia (10th World Water Forum, Bali, 2024)

2022 Campaign "Groundwater: Making the invisible visible"



UN 2023 Water Conference, March 2023, NY:

An opportunity for countries and stakeholders to make groundwater visible

- **Second intergovernmental Conference on water** since 1977 (46 years...)
- **5 Interactive Dialogues**, Informal Preparatory Groups coordinating inputs for each topic:
 1. Water for Health
 2. Water for Development
 3. Water for Climate, Resilience and Environment
 4. Water for Cooperation
 5. Water Action Decade



- The themes are supported by the **five accelerators of the SDG6 Global Acceleration Framework** (Financing, Data and Information, Capacity Development, Innovation, and Governance) and the three principles of the Conference (Inclusive, Cross Sectoral and Action Oriented).
- **Water Action Agenda**: compilation of **commitments** from countries and stakeholders, an opportunity to make groundwater visible

Thank you!



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