







9TH WORLD WATER FORUM | DAKAR 2022

Moving forward with improved assessment and management of transboundary aquifers

Dr Christina Fraser, World Water Forum 2022









Predicting the future...



What is the future of transboundary aquifer (TBA) assessment and management?

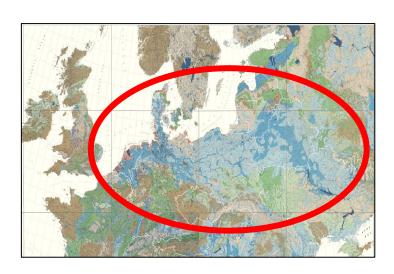






Main TBA challenges

- Data & information harmonization across borders
- Lack of monitoring data (quantity and especially) quality
- Selecting priority areas, issues and/or actions within a TBA
- The establishment of cooperation mechanisms and trust building



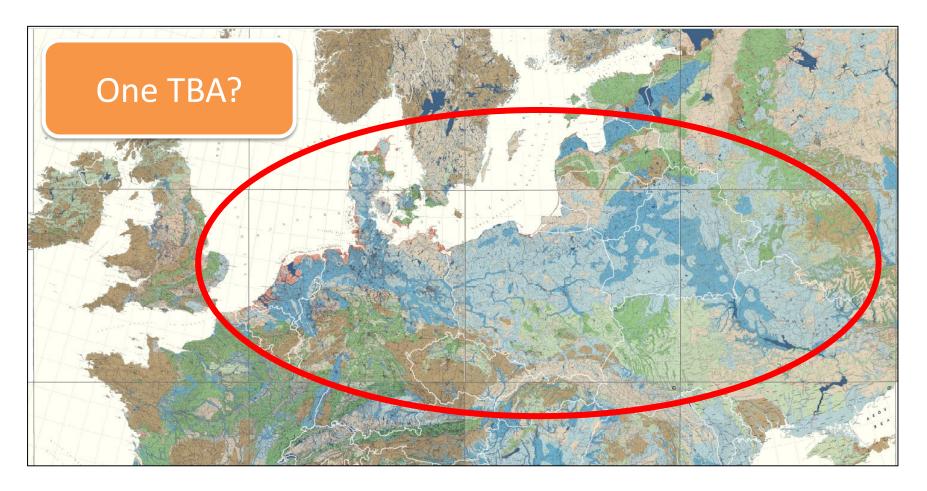








How to define transboundary impact zones?



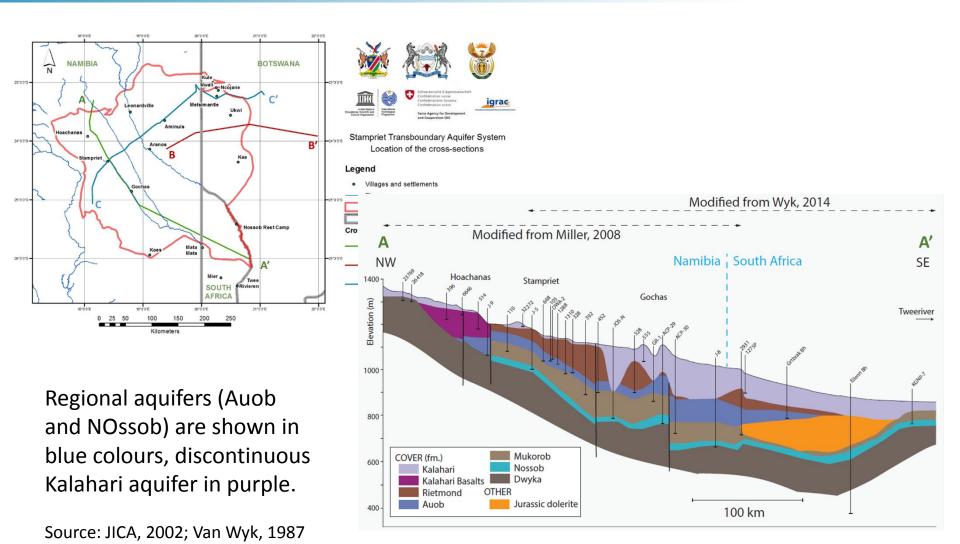
An issue of scale...







How to define transboundary management zones?



in GGRETA Stampriet Report 2017.

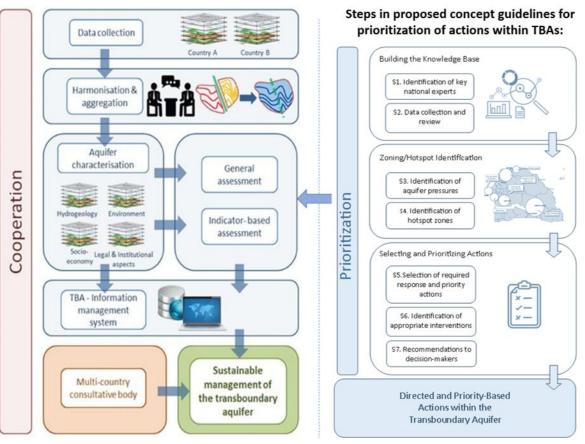






How to prioritise decision making within TBAs?

 Concept guidelines for prioritization of actions within transboundary aquifers







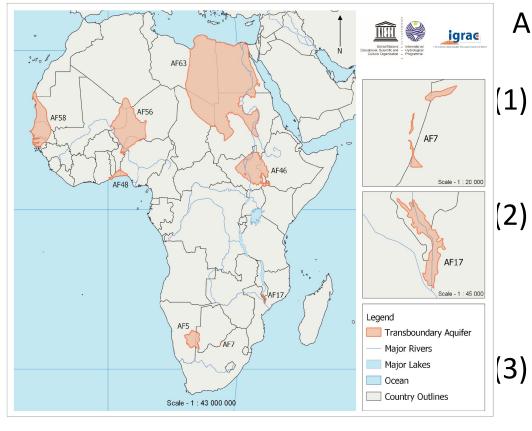








Purpose of the guidelines



A pragmatic approach to:

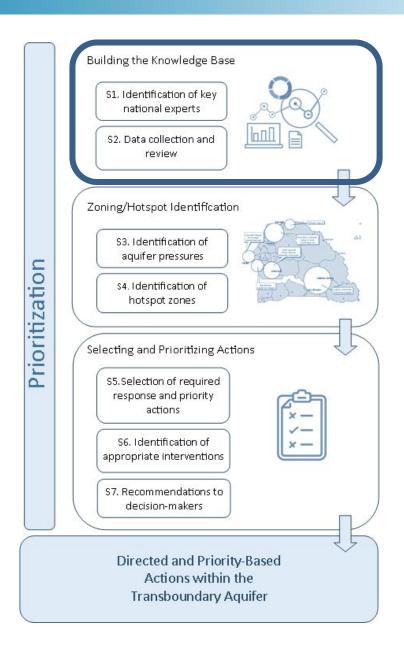
- (1) Identify key pressures and concerns within TBAs
- (2) Assist countries on how to prioritize resources within their TBAs
 - Recommend priority actions and intervention practices

Developed in consultation with national experts from 8 TBAs across Africa









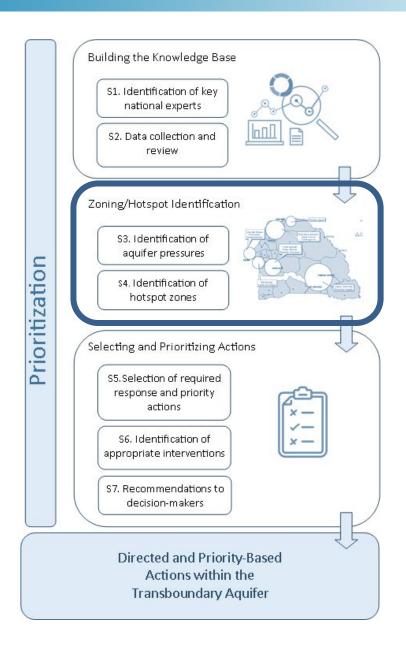
Building the knowledge base

- Step 1: Identification of key national experts
- Step 2 Data collection and review









Building the knowledge base

Step 1: Identification of key national experts

Step 2 Data collection and review

Zoning/Hotspot identification

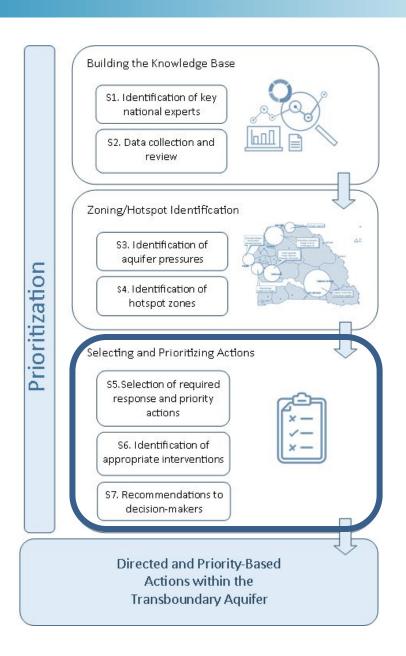
Step 3: Identification of aquifer pressures

Step 4: Identification of hotspot zones









Building the knowledge base

Step 1: Identification of key national experts

Step 2 Data collection and review

Zoning/hotspot identification

Step 3: Identification of aquifer pressures

Step 4: Identification of hotspot zones

Selecting and prioritizing actions

Step 5: Selection of responses and priority actions

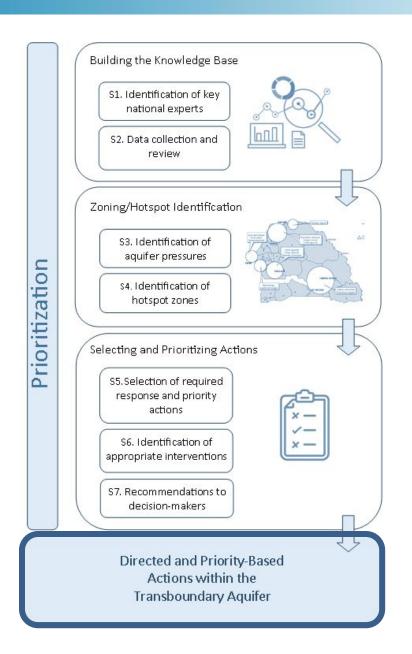
Step 6: Identification of appropriate interventions

Step 7: Recommendations to decision makers









Outcome:

Directed and priority based actions within the transboundary aquifer







Thank you for your attention







