GOVERNANCE of GROUNDWATER RESOURCES in TRANSBOUNDARY AQUIFERS (GGRETA Project)





INTERNATIONAL WATER LAW - A FOCUS ON TRANSBOUNDARY AQUIFERS -

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Programm

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Stefano Burchi, UNESCO Francesco Sindico, University of Strathclyde The law of international watercourses (and most aquifers) is crystallized in the:



UN Convention on the law of the non-navigational uses of international watercourses, adopted by the UNGA (New York) on 21 May 1997, in force since **August 2014** It lays down a number of norms of inter-State behaviour reflecting the practice of States in the matter ("international customary law")

The UN Convention covers - in addition to surface watercourses - all international aquifers which are physically linked to a surface water system



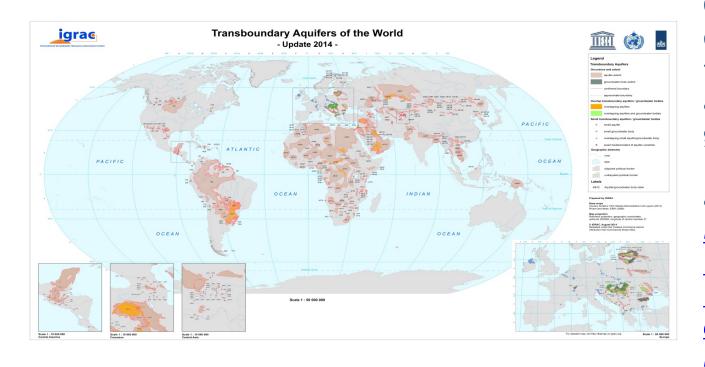
As a result, nonrecharging (also known as "fossil") aquifers escape the scope of coverage of the Convention, and fall in a legal limbo



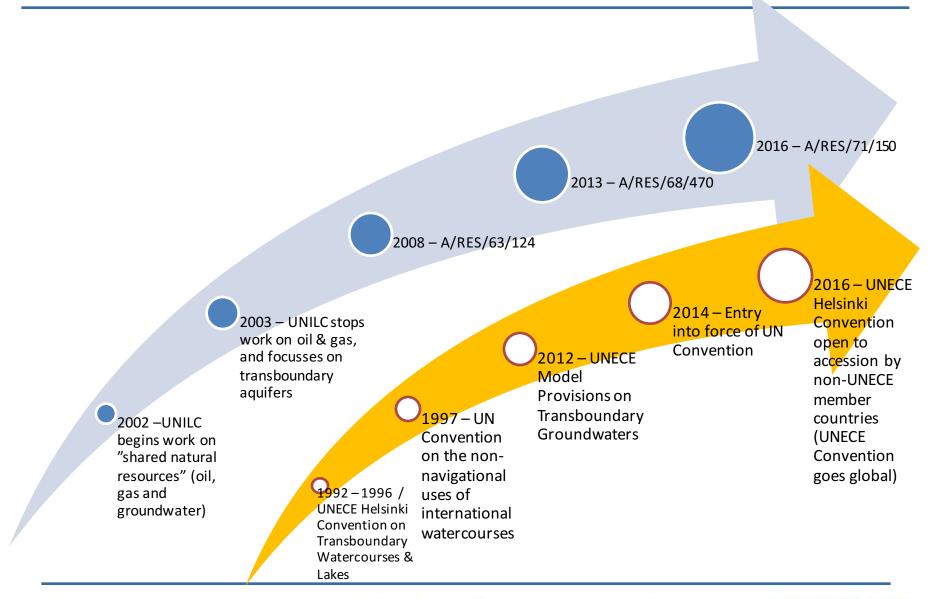


- This is why the UN adopted in 2008 Resolution 63/124, carrying "Draft Articles on the law of transboundary aquifers"
- The Draft Articles carry a body of norms of inter-State behaviour reflecting the practice of States in the matter ("international customary law")
- The Draft Articles are not
 binding except for a few
 "core" norms

Transboundary aquifers & agreements - how many?



Only 6 of the nearly 600 surveyed transboundary aquifers are governed by a legally binding agreement <u>https://www.unigrac.org/resource/</u> <u>transboundary-</u> <u>aquifers-world-</u> map-2015



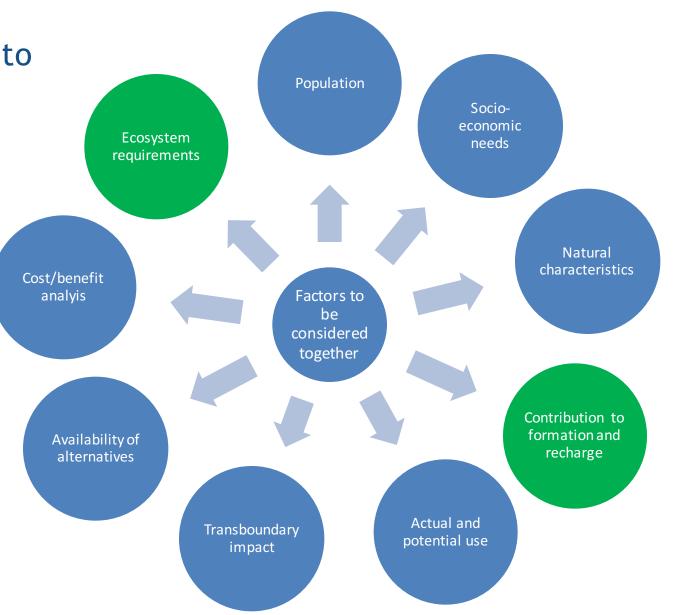
The "core"norms of international water law crystallize the substantive rights and obligations of States



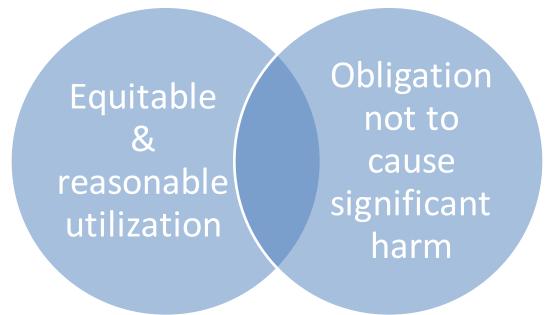
Criteria entering equitable & reasonable utilization determinations



Factors relevant to equitable & reasonable utilization determinations regarding transboundary aquifers

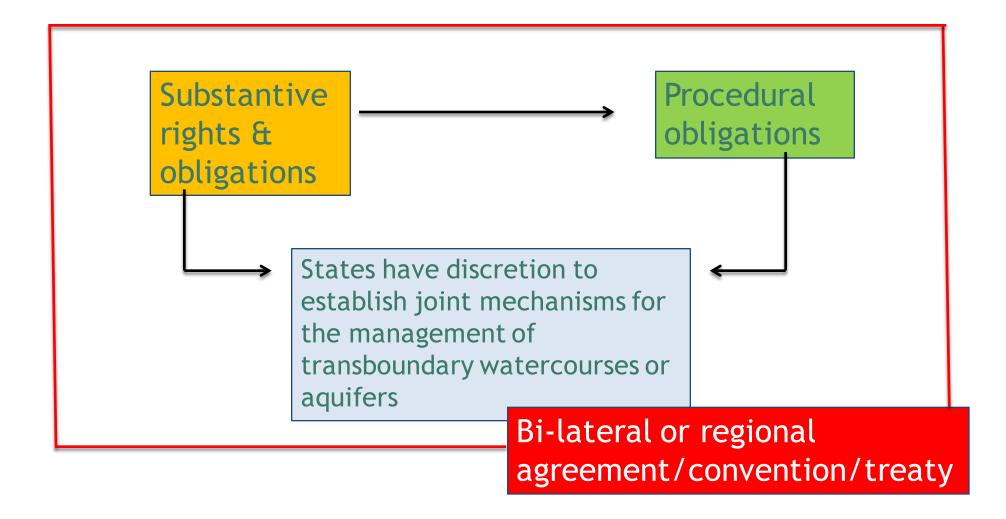


Procedural norms, and relationship to substantive norms



- General obligation to cooperate
- Regular exchange of information & data
 Prior notification of planned measures, consultation and goodfaith negotiation with a view to reaching agreement

These norms give effect to the rights and obligations posited by substantive norms



Agreements on transboundary aquifers

There exist a handful bi-lateral and regional agreements on specific transboundary aquifers



 The Genevese Aquifer Agreement (2008, France, Switzerland)

 The Guaraní Aquifer Agreement (2010, Argentina, Brazil, Paraguay, Uruguay)

 The Joint Authority for the Study & Development of the Nubian Sandstone Aquifer (Chad, Egypt, Libya, Sudan)(1992)

 The Al-Disi Aquifer Agreement (Saudi Arabia, Jordan (2015)

 MOU on a Consultation Mechanism for the Iullemeden Taoudeni/Tanezrouft Aquifer (7 countries in the Sahara-Sahel region) (2014)

 MOU on a Consultation Mechanism for the Northern Sahara Aquifer System (2008, Algeria, Libya, Tunisia)

Local-level arrangements for transboundary aquifers

There exist a few known arrangements between or among units of local-level government or local authorities, concerning a transboundary aquifer



- MoU between the water supply companies of El Paso (Texas) and Cd Juarez (Mexico) re: the Hueco Bolson aquifer (1999)
- In Europe local governments have made arrangements for the management of small transboundary aquifers, based on a Framework Convention on transfrontier local-level cooperation (1980)
- The French contracting Parties of the Genevese Aquifer Agreement are local government units
- MoU between the cities of Concordia (Argentina) and Salto (Uruguay) on the use of Guaraní aquifer (thermal) waters (2015, not signed yet)

Conclusions/1



- The UN Convention on the law of the non-navigational uses of international watercourses (1997) lays down:
 - Substantive rights & obligations
 - Procedural obligations
 - Rules for the settlement of disputes
- The Convention only recently (2014) has come into effect, however it binds only the 36 States which have ratified it - not the others!
- Still, all States are bound by the few "core" norms of the Convention reflecting customary international law

Conclusions/2



 Likewise, the Draft Articles on the law of transboundary aquifers (UNGA Resolution 128 of 2008, re-iterated in 2013 and 2016) lay down:

- \circ Substantive rights & obligations
- Procedural obligations
- $\ensuremath{\circ}$ Rules for the settlement of disputes
- The Draft Articles are not binding, however they serve as authoritative reference in the negotiation and formulation of aquifer-specific treaties and agreements
- Still, all States are bound by the few "core" norms in the Draft Articles which reflect customary international law

Conclusions/3



 In addition, there exist a few arrangements negotiated by local government units/authorities regarding transboundary aquifers

 Such arrangements are based on the constitutional system of the relevant countries, and are valid to the extent permitted by it

 In the EU context, local-level arrangements on transboundary aquifers are based on a specific Framework Convention (1980) enabling local governments and local authorities to make such arrangements

THANK YOU!

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