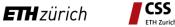


Water Conflicts and Cooperation: Concepts, Tools and Nile Basin Case Study

Dr. Simon J. A. Mason, Center for Security Studies (CSS) ETH Zurich 5 Dec 2024

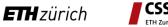
Thanks to Mediation Support Project (CSS ETH Zürich and swisspeace, funded by Swiss Federal Department of Foreign Affairs (FDFA)), https://css.ethz.ch/

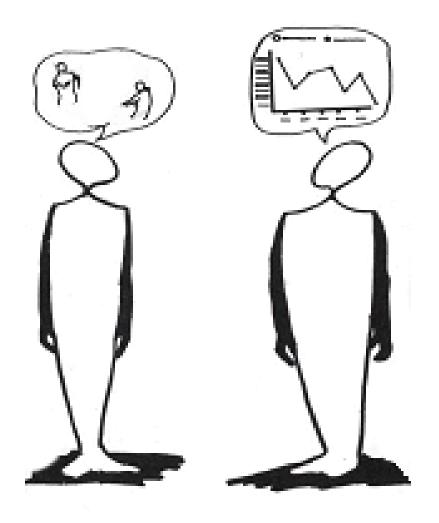


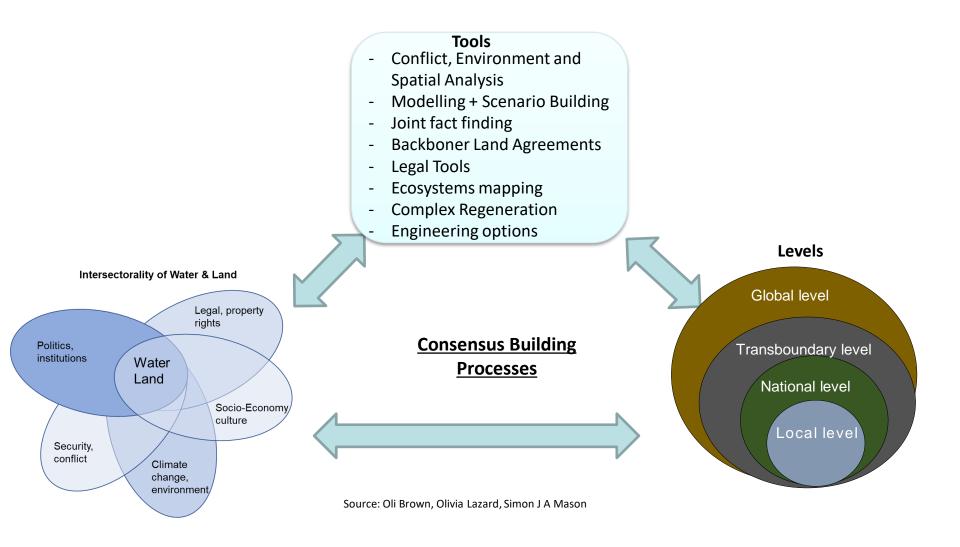
Aim:

Learn about water conflicts and cooperation: concepts, tools and Nile Basin case study

- 1. Water use conflicts
- 2. Water use cooperation:
 - 1. Generic consensus building tools
 - 2. Water related consensus building tools
- 3. Nile Basin case study









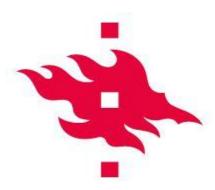
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Block I

Water use conflicts

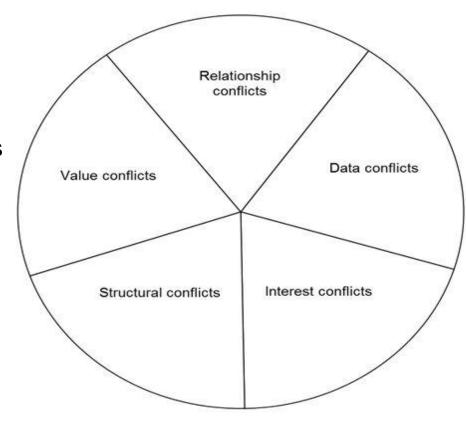




"Moore's Pizza"

Conflict = Struggle between two or more actors over

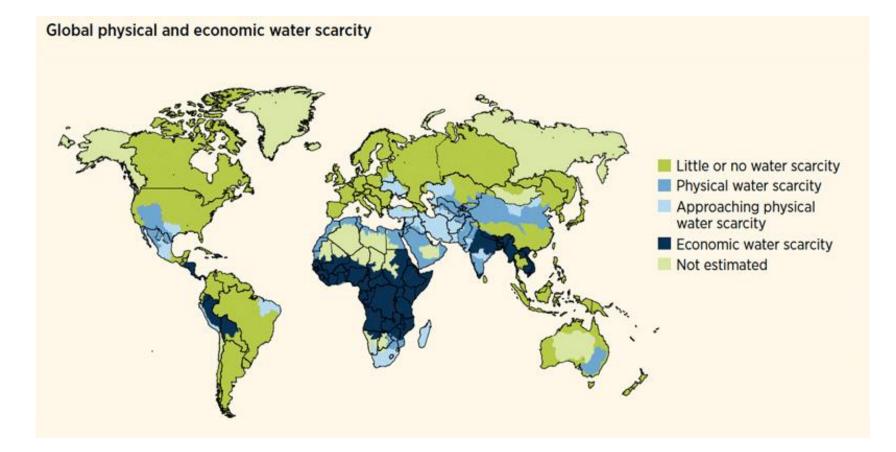
- Relationship
- Values
- Structures
- Interests
- Data



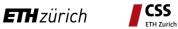
HELSINGIN YLIOPISTO HELSINGFORS UNIVERSITET UNIVERSITY OF HELSINKI

Moore, Chris "The Mediation Process: Practical Strategies for Resolving Conflict" Jossy Bass 2013

Water scarcity



Source: Water scarcity | International Decade for Action 'Water for Life' 2005-2015

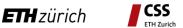


Physical water scarcity: Ca. 1.2 billion people (1/5 world's population), live in areas of physical water scarcity (annual water supplies drop below 1,000 m3 per person)

Economic water scarcity: Ca. 1.6 billion people (1/4 world's population), face economic water shortage (where countries lack the necessary infrastructure to take water from rivers and aquifers).

Multiple uses of water: Ca. 70% water for agriculture, 20% for industry, 10% for domestic

Water scarcity | International Decade for Action 'Water for Life' 2005-2015



Water use conflicts can be understood as a struggle between two or more actors over access, control, management and use of water resources.

Mediating Water Use Conflict 2013.pdf

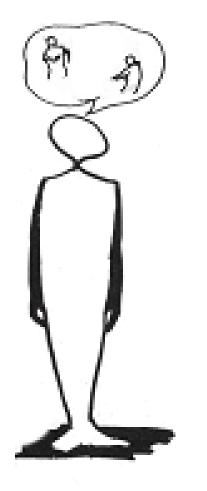


Block II

Water cooperation:

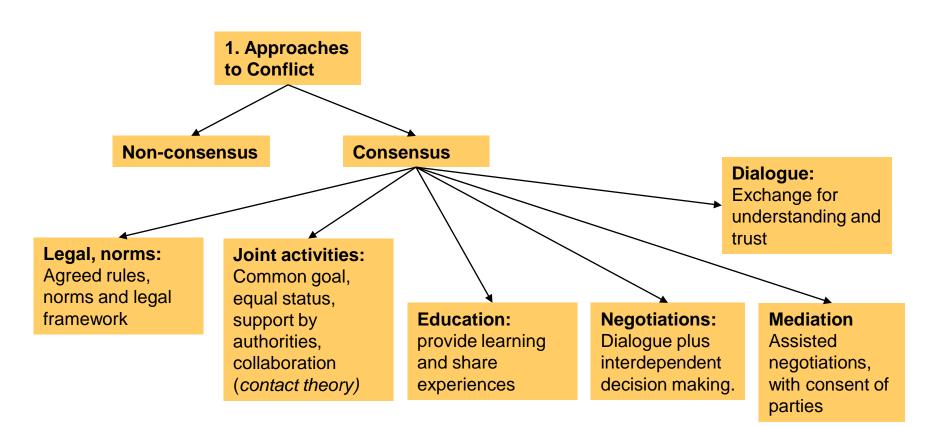
Towards consensus using dialogue, negotiation and mediation



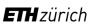


Drawing: Sampark

DGESS







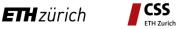
Definition of dialogue, negotiations, mediation

Dialogue = exchange to foster understanding and trust

Negotiation = dialogue & joint decision making focusing on results

Mediation = assisted negotiations

"Mediation is a **process** whereby a third party assists two or more parties, with their **consent**, to prevent, manage or resolve a conflict by helping them to develop mutually acceptable agreements." (UN Guidance for Effective Mediation).



"...**dialogue**—the process of people coming together to build mutual understanding and trust across their differences, and to create positive outcomes through conversation"

- Objective
- Listening
- Groundrules
- Communication skills

Handbook Final AllVersions.pdf

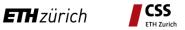
Soft	Hard	Interest based
Relations>Issues	Issues>Relations	Relations & Issues

Ury, Fisher, Patton "Getting to Yes" 2011



- 1) Separate person from problem
- 2) Focus on interests, not positions
- 3) Generate options
- 4) Use criteria independent of will

Ury, Fisher, Patton "Getting to Yes" 2011



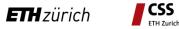
Mediation

Principles and "ethics" of mediation

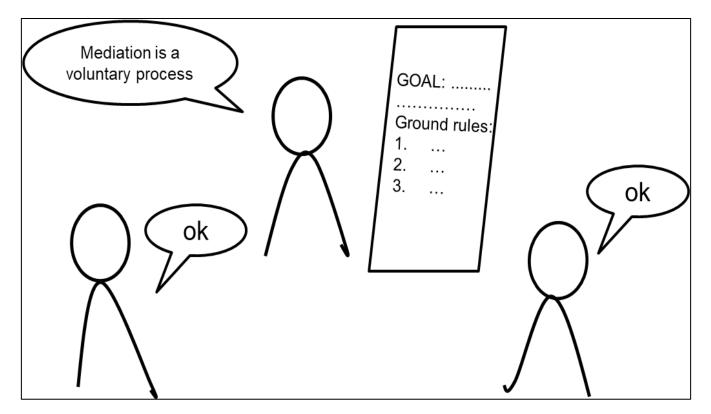
- 1. Consent, voluntary nature
- 2. Pragmatic inclusivity
- 3. Impartiality
- 4. Do no harm
- 5. Content Process

- 1. Setting the framework
- 2. Issue Identification and agenda setting
- 3. Working through issues and clarification
- 4. Brainstorming options and assessing them with criteria
- 5. Agreeing and clarifying implementation

Source: C. Moore "The Mediation Process" See also: The Five Phase Model of Mediation – An Animated Overview



Phase 1: Introduction

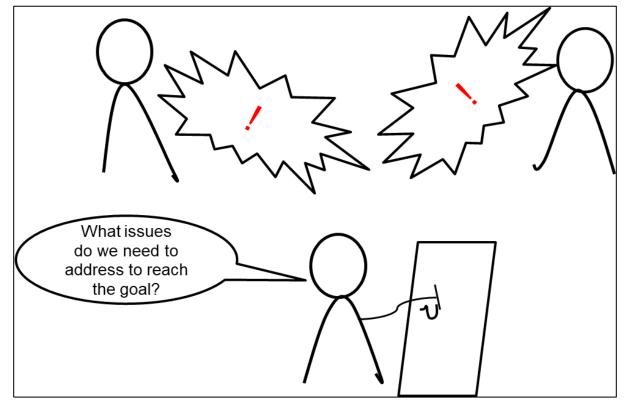


Images: Valerie Sticher, Simon Mason, CSS

- 1. What?
 - Aim of meeting (as identified in pre-mediation)
 - Clarify context: other processes, legal framework?
- 2. Who?
 - Particiaption: is anyone missing who should be at the table?
 - Clarify mediator's role: mandate, process-content, voluntary nature of process
- 3. How?
 - Information management?
 - Decision making procedure?
 - Finances: who pays for the mediation?
 - Monitoring of progress
- 4. When?
 - Frequencing and duration of meetings?
- 5. Where?
 - Neutral, legitimate, safe venue?

Key idea: Set the framework for the talks, before starting to discuss content

Phase 2: Sharing Perspectives

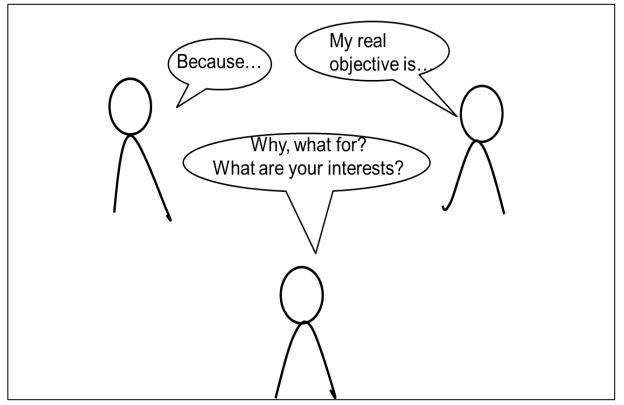


Images: Valerie Sticher, Simon Mason, CSS

- 1. Let the parties tell their 'story'.
- 2. Give more or less equal time to each side
- 3. Make everyone tell their "story" from the beginning
- 4. Summarize each side, but never summarize both sides
- 5. Collect issues to develop agenda

Key idea: Collect issues before working through the issues

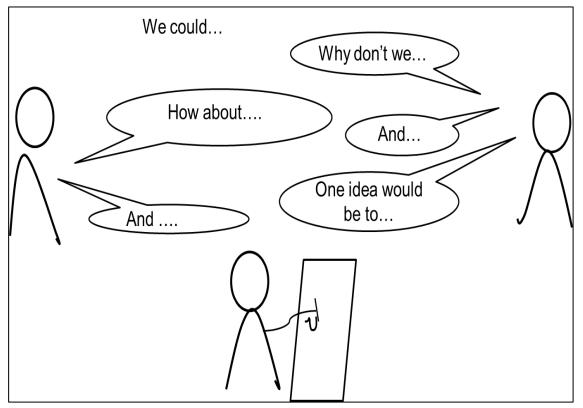
Phase 3: Clarification



Images: Valerie Sticher, Simon Mason, CSS

- 1. Check if parties are OK with agenda, or mediate agenda
- 2. Work through the agenda, issue by issue
- 3. Ask parties questions, to clarify and understand each other's interests and needs.
- 4. Use questions, related to concerns, hopes, expectations, assumptions, priorities, beliefs, fears values
- **Key idea:** Assist each side to understand the other side, before starting to think about solutions!

Phase 4: Value Creation



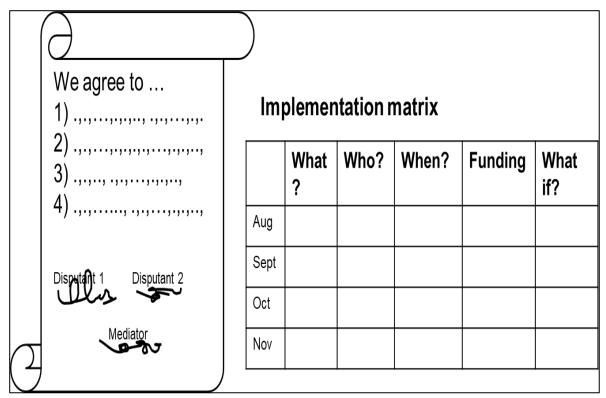
Images: Valerie Sticher, Simon Mason, CSS

Key idea: develop more options, before deciding on one option "enlarge the pie, before sharing the pie"

Rules of brainstorming:

- Anything goes, no reality check, no self census!
- No criticism from anyone!
- Everything is written down (number is more important than quality)
- Work fast, think freely then take a break.

Phase 5: Concluding



Images: Valerie Sticher, Simon Mason, CSS

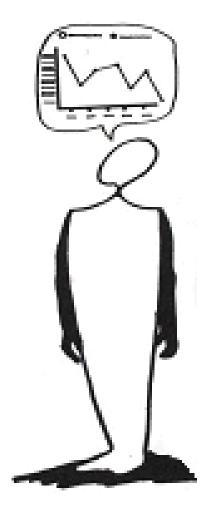
- Jointly assess the options
- Agree on one, or package of options
- If you cannot agree, can you agree to meet again?
- Clarify next steps, who does what, when?

Block III

Water, environmental consensus building tools



ETHzürich



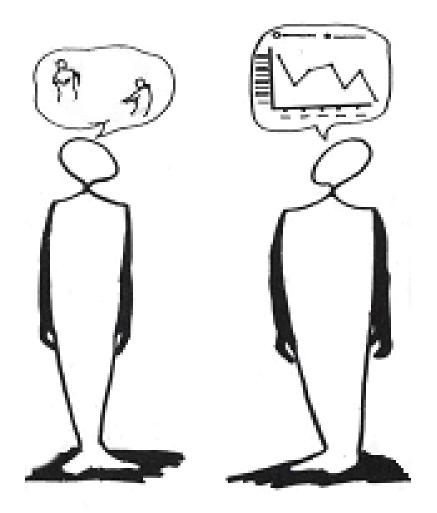
Drawing: Sampark

MAS ETH Mediation in Peace Processes ETH Zürich, Haldeneggsteig 4, 8092 Zürich, Switzerland www.mas-mediation.ethz.ch

DGESS

Some tools and approaches:

- Conflict, Environment and Spatial Analysis
- Modelling + Scenario Building
- Joint fact finding
- Backboner Agreements
- Legal Tools, legal frameworks
- Global criteria on drinking water and agriculture water quality
- Ecosystems mapping
- Complex Regeneration
- Engineering solutions
- Etc.

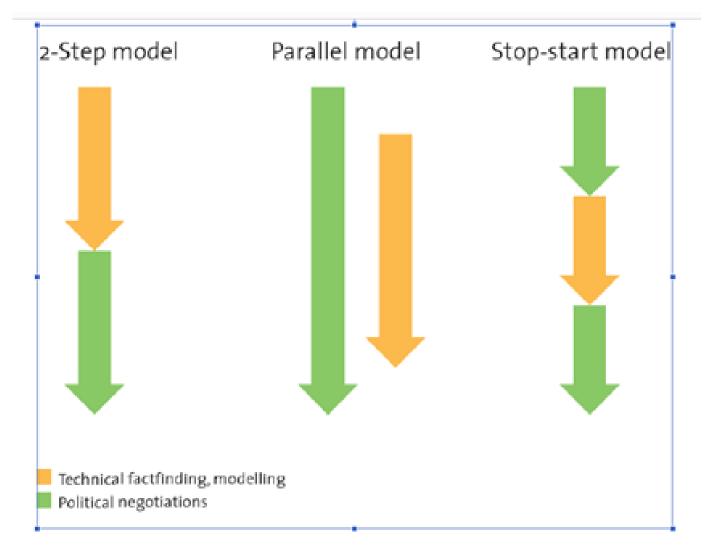


Drawing: Sampark

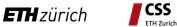
MAS ETH Mediation in Peace Processes ETH Zürich, Haldeneggsteig 4, 8092 Zürich, Switzerland www.mas-mediation.ethz.ch

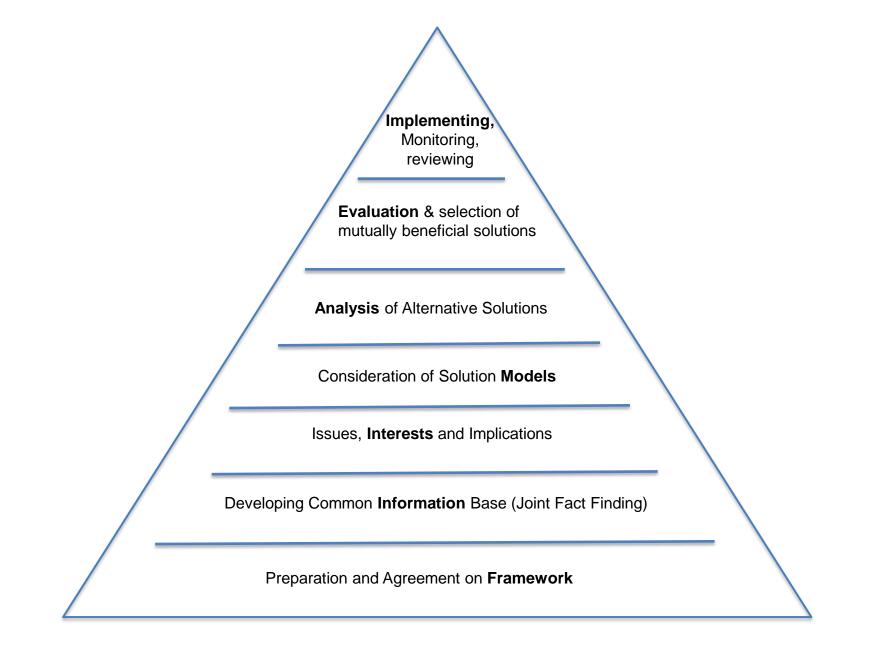


Example of Process Design



Source, Mason, Blank



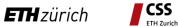


Grzybowski A (2012) "Suggestions for a Framework for Constructive Dialogue on Natural Resources Issues" Working paper. Grzybowski, A. J. L. Kaye, (2013) "Mediating Natural Resource Conflicts" Working paper, for UNEP and UNDP

Example of Process Design

Political	Technical	
1. Prepare a common framework with input from technical and political actors. The technical committee can only start work once it has a mandate from the political actors.		
	2. Develop common information basis regarding biophysical and socio-economic- political data. Technical committee reports to political format.	
3. Identify interests related to environment that should be satisfied in the final agreement. Political format feeds identified interests into technical committee.		
	4. Develop options: Consider solutions and models from other cases and develop case-specific options that fit interests. Technical committee reports to political format	
5. Narrow down possible options: For various non-technical reasons not all options from technical committee may work. Political actors narrow down possible options, and task technical committee to elaborate a select few.		

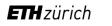
Source: Grzybowski and Kaye 2013, Mason, Blank 2013



Example of Process Design

Political	Technical
	6. Work out details of selected options : More detailed elaborations of implications of selected options are worked out in the technical committee. Modelling and scenario-building. Technical committee reports the more elaborated options, including their potential biophysical impact, to political actors.
7. Final selection of options for agreement: Using advice from technical committee, political actors decide on the most favorable option, also taking into consideration the other issues and trade-offs that the political negotiations are dealing with.	
	8. Monitoring and review mechanisms : Before the final agreement is signed, the implementation modalities (who does what, when, how, funding, and "what if clause") related to resources should be agreed upon.
9. Final agreement signed	

Source: Grzybowski and Kaye 2013, Mason, Blank

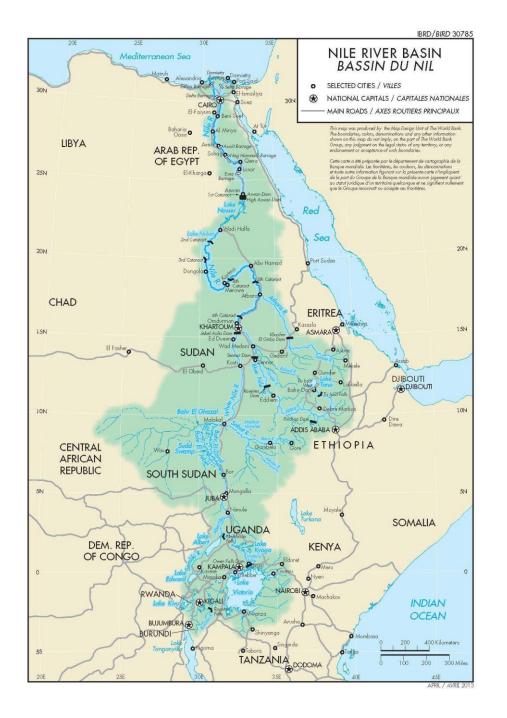




Block IV

Nile Basin Case Study





Source: Nile River Basin

Positions and strategies

Egypt

Acquired use rights, no significant harm

Against unilateral development upstream

Hold on to historic rights rooted in 1959 agreement

Demand side management in Egypt & support supply side management upstream

Cooperation is blocked by internal troubles in upstream countries

Dam in Ethiopia for Hydropower or small-scale

Ethiopia

Equitable use

Unilateral development of Grand Renaissance Dam

Re-negotiate or ignore 1959 agreement

Supply & demand side management in Ethiopia

Cooperation is blocked by downstream holding on to "status quo"

Large-scale dam for irrigation and hydropower

EHzürich

Interests

Egypt: (security)

- Irrigation, living space
- Information exchange
- Pollution control
- Hydropower

Sudan: (development)

- Irrigated agriculture
- Hydropower
- Flood control
- Watershed management
- Information exchange

Ethiopia: (development)

- Irrigation
- Hydropower
- Watershed management



GERD constructed between 2011 and 2023, primary purpose is electricity production

Efforts at cooperation on data: <u>homepage | Nile Basin Initiative</u>

Source of photo: https://en.wikipedia.org/wiki/Grand_Ethiopian_Renaissance_Dam#/media/File:GERD_2.jpg

Take Home Messages



Understand 1) levels, 2) sectors, and 3) tools

- Multiple levels: how is local, regional, national, global interconnected? -> e.g. virtual water (water in form of food)
- Multiple sectors: -> Complexity provides space for cooperation
- Multiple tools: how to combine technical and political, social, economic? -> design process!

Climage change: Impact on water availability over time?* -> adptive agreements

*dppapracticenote-theimplicationsofclimatechangeformediationandpeaceprocesses.pdf

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