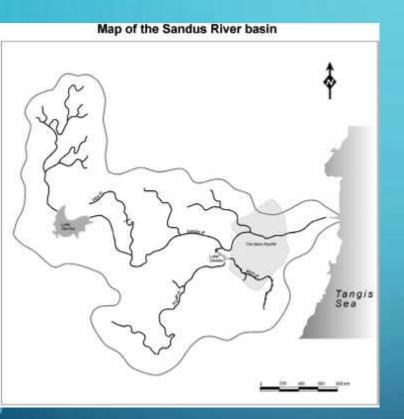
WATER DIPLOMACY AND MULTI-LEVEL GOVERNANCE

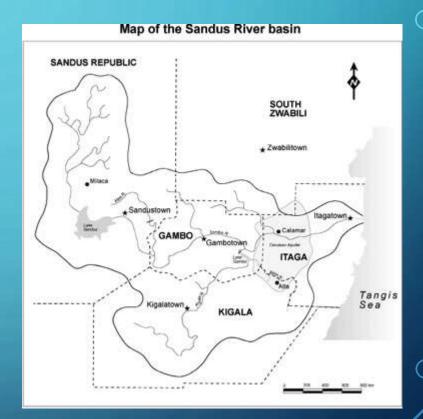
AARON T. WOLF, PHD

PROGRAM IN WATER CONFLICT MANAGEMENT & TRANSFORMATION COLLEGE OF EARTH, OCEAN, AND ATMOSPHERIC SCIENCES OREGON STATE UNIVERSITY, USA EMAIL: <u>WOLFA@GEO.ORST.EDU</u> <u>WWW.TRANSBOUNDARYWATERS.ORST.EDU</u>

> 7TH WORLD WATER FORUM DAEGU, SOUTH KOREA APRIL 2015

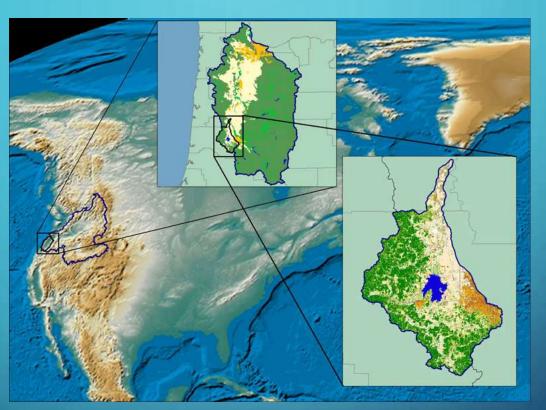
What is Water Diplomacy and Multi-level Governance



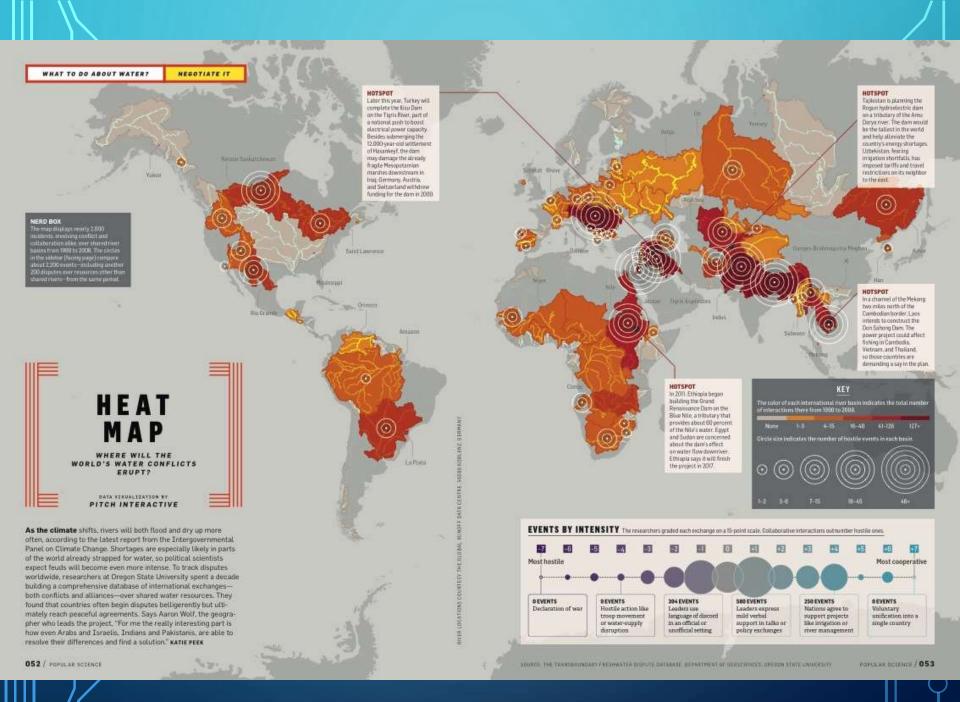


What changes when a border is present? What capacity do we need to address the change?

DIPLOMACY & GOVERNANCE WITHIN AND BETWEEN MULTIPLE SCALES



Diplomacy: How we interact. Governance: The rules and institutions for interaction. P LESSON 1: COUNTRIES DON'T EXIST, BOUNDARIES DO...OR DON'T







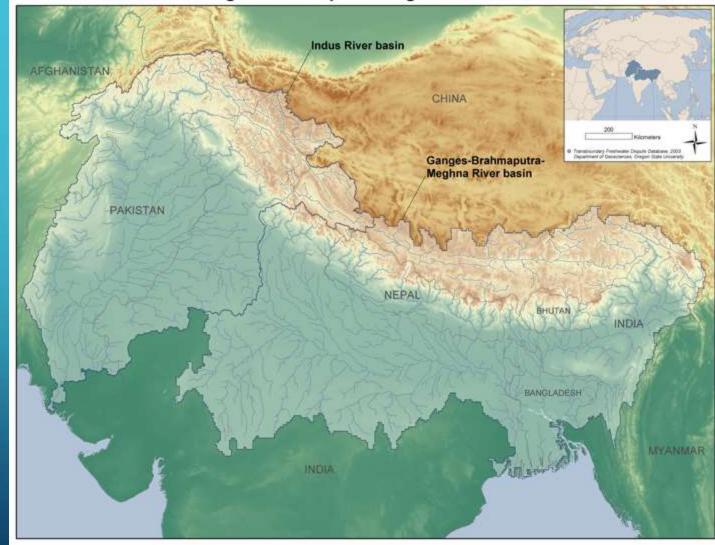




1940's-1960's David Lilienthal & Pres. Dwight Eisenhower

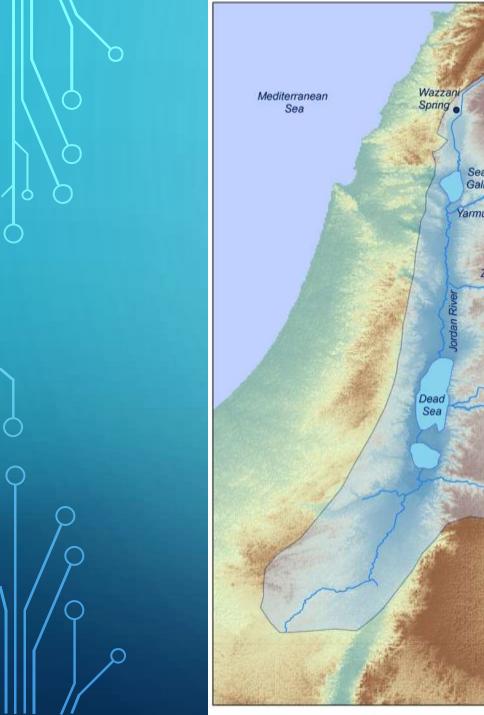






The Indus River and Ganges-Brahmaputra-Meghna River basins

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Operation Candor

- Eisenhower 1953 peaceful use of nuclear energy
- development to combat communism
- reactors in Pakistan & Iran





"... I want to announce the beginning of a Water for Peace Program... Therefore, today I call upon all the nations of the world to join us in the creation of an international fund to bring the fruits of science and technology to all the corners of a parched and thirsty world...."

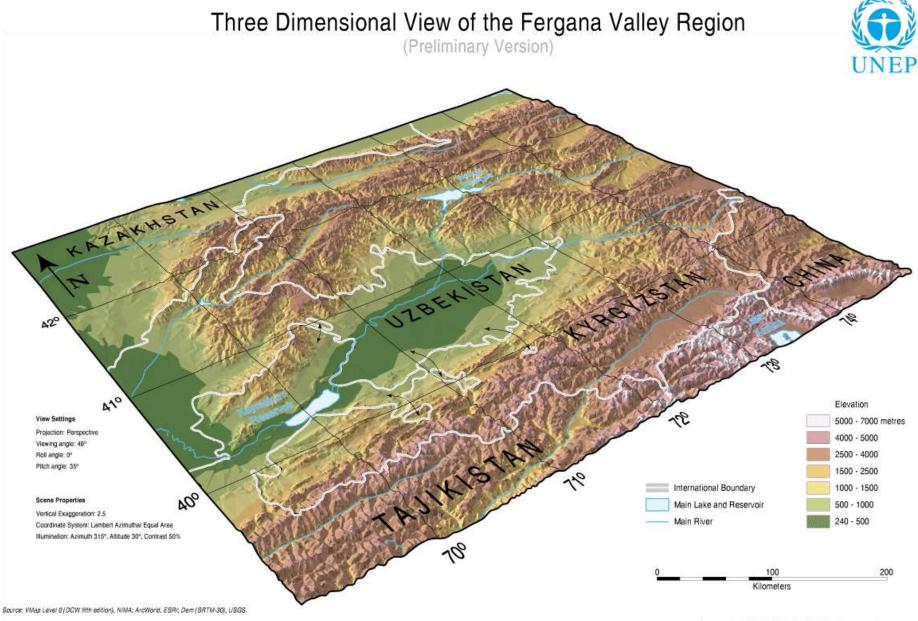
President Lyndon Johnson, 1967

LESSON 2: SCALE MATTERS, AND ABSOLUTE SCALE MATTERS ABSOLUTELY



http://www.karakalpak.com/images/stanaralbasin01.jpg





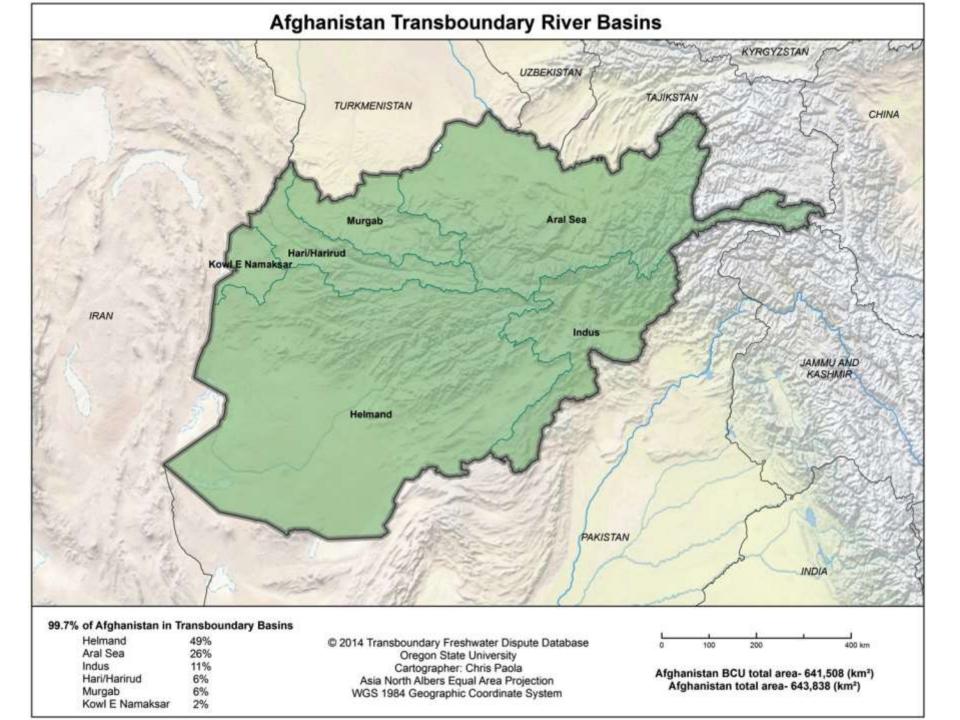
The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

Created at UNEP/DEWA/GRID-Geneva; June 2004

http://www.grid.unep.ch/products/4_Maps/ferghana_3db.gif



http://www.karakalpak.com/images/stanaralbasin01.jpg



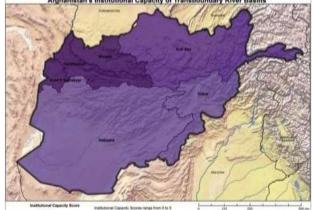
Countries @ Risk: Afghanistan

Institutional Capacity of Transboundary River Basins shared with Afghanistan



0	and points are given if there is at least:			
1	one water treaty	© 2014 Transboundary	Freshwater Dispute D	latabase
2	one treaty with an allocation mechanism		State University	
3	one treaty with a variability management mechanism		Jessica Picucci	
4	one treaty with a conflict resolution mechanism		qual Area Conic Proje	
5	one river basin organization	WGS 1984 Geog	raphic Coordinate Syst	tem

Afghanistan's Institutional Capacity of Transboundary River Basins

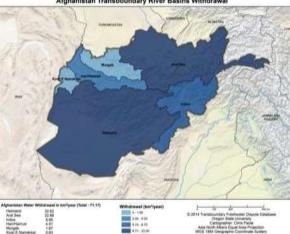


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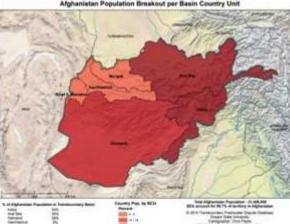


Afghanistan Transboundary River Basins Withdrawa



1000 A 10-A 70



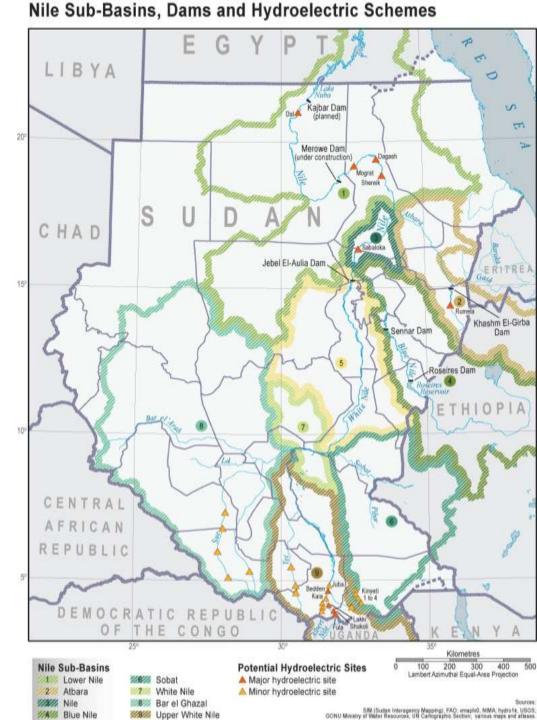


OLESSON 3: IF YOU GET STUCK ON A PROBLEM, MAKE IT BIGGER





Dams and Hydroelectric Schemes

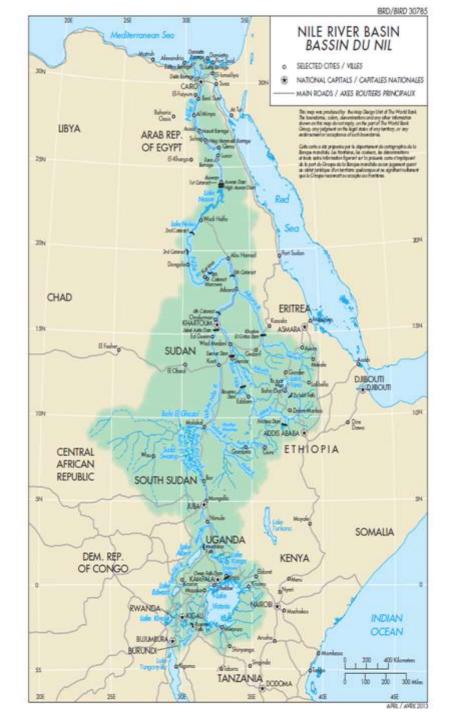


Source: UNEP/DEWA/GRID-Europe 2006

Hydromet (1961), entirely technical, eventually led to:
Undugu (1983), and,
Tecconile (1993) – annual academic meeting, and finally to:

• Nile Basin Initiative





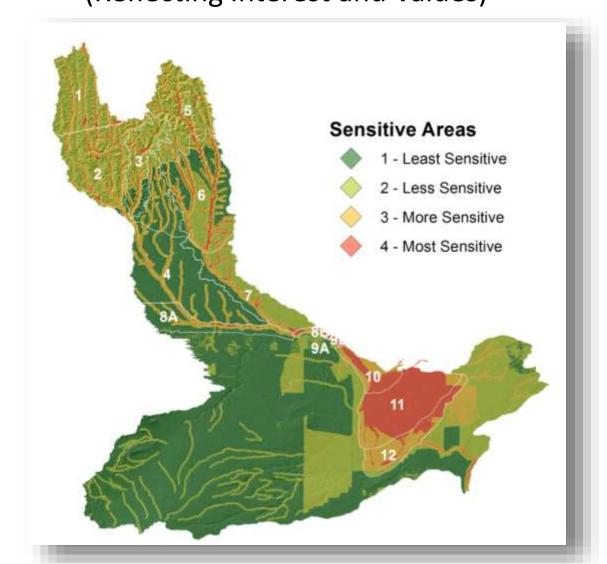
Regional Power Development Strategy

Nile Basin Initiative / Comprehensive Basin-wide Study ended Regional Power De poment Strate DOMV (ACT 220-230 ap8.10_TIL_AI_NOR_WExistant.n RIW FICHTNER Ρ. E1 ٠ 1.1.7.7.7.7.7

Source: NBI RPTP 2011

LESSON 3A: IF YOU GET STUCK ON A PROBLEM, MAKE IT BIGGER...OR SMALLER

Negotiated Basin Development Space Environmental Sensitivity Rankings (Reflecting Interest and Values)

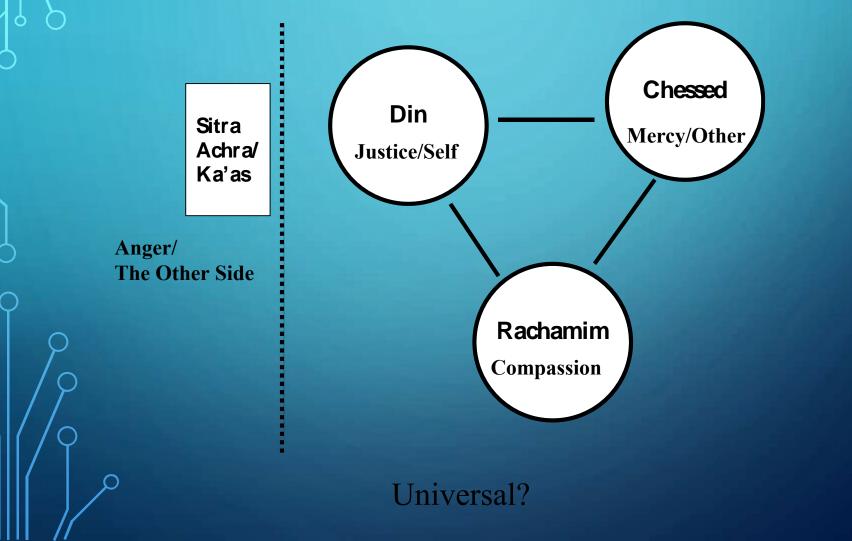


Negotiated Basin Development Space Development Pressure Rankings (Reflecting Interest and Values)



LESSON 4: SCALE AND THE ENLIGHTENMENT RIFT

BALANCE IN CONFLICT

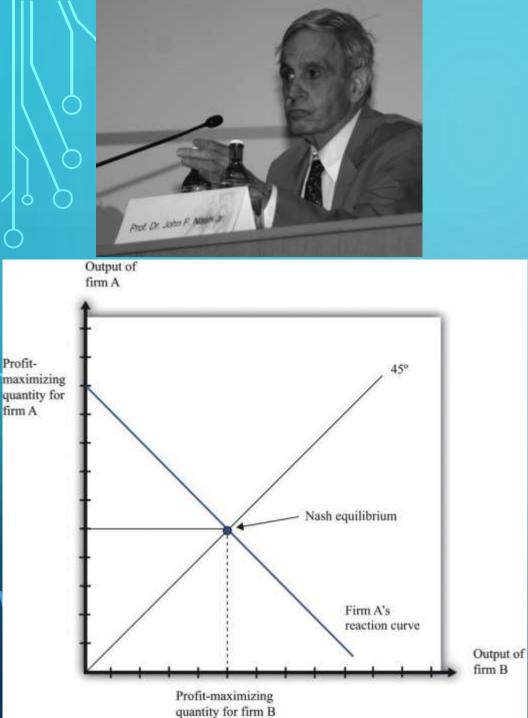


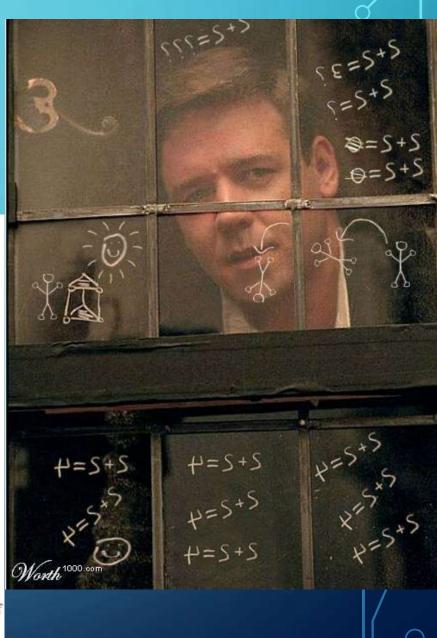


YIN YANG

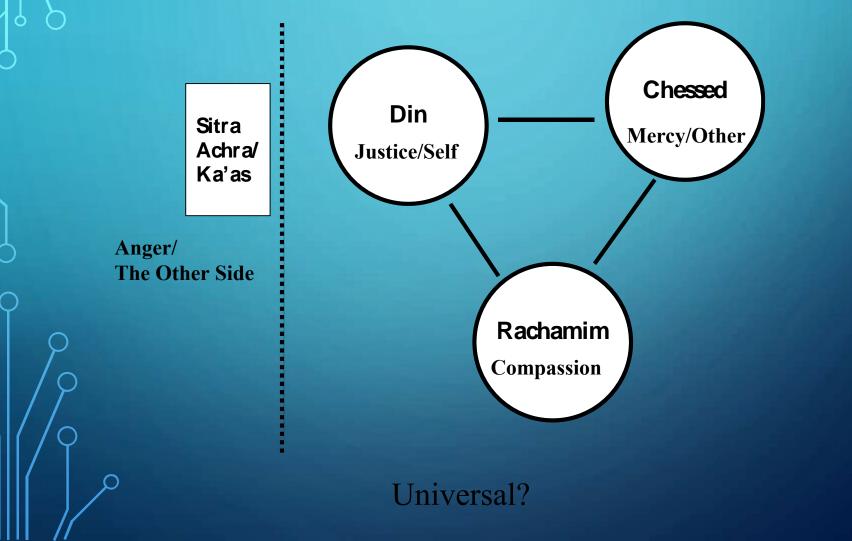








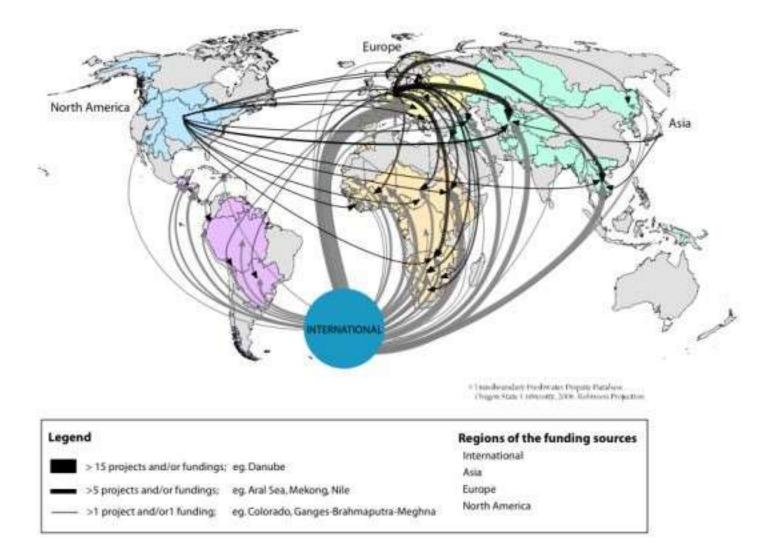
BALANCE IN CONFLICT



Sulha: Reconciliation

- From *musalaha*, reconciliation: hostilities ended, honor reestablished, and peace restored in the community.
- Two basic elements: rights and honor.
- *Tarrahdhin*: "Resolution of a conflict that involves no humiliation."





OLESSON 5: DUCATION MATTERS

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Water Diplomacy Training











MSc in Water Cooperation & Peace

A joint program between UNESCO-IHE, UPeace and OSU









ProfilesCONFLICT FOUNDATION
UPEACEProfilesWATER FOUNDATION AND
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SPECIALIZATION AND
INTEGRATION
OSU

PROFESSIONAL MASTER PROJECT OSU/ICIWaRM MASTER OF SCIENCE THESIS **UPEACE - UNESCO-IHE - OSU**

JD or MASTER OF LAWS

Conclusions

Countries don't exist; boundaries do...or don't

- Scale matters, and absolute scale matters absolutely
- If you get stuck on a problem, make it bigger...or smaller
- We must heal the enlightenment rift
- Universities are the center of the universe...

Thank you!

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