

7th World Water Forum 2015

April 12-17, 2015, Daegu & Gyeongbuk, Rep. of Korea

WATER FOR OUR FUTURE

Session 3.4.1: “Integrated joint management of rivers, lakes and aquifers at basins level”.

1st Round table

Effective Stakeholders participation - Multi sectorial coordination

Share vision and Planning

*The role of the networks basin organisms on
the actions in South America, Caribbean and
Brazil*

Mauri Cesar Barbosa Pereira

REBOB/RELOB

THE REGIONALS NETWORKS



- Brazil Network of Basin Organisms – REBOB
 - Created in 1998
 - Action with all basin organisms in Brazil (200) / every year we have meetings with 216 basin organisms to evaluate the actions of IWRM and created news tools



- Latin America an Caribbean of Basin Organisms – RELOC
 - Created in 1988 (Colombia)
 - In process of strengthening (Project EU / Waterclima - Ecocuencas)

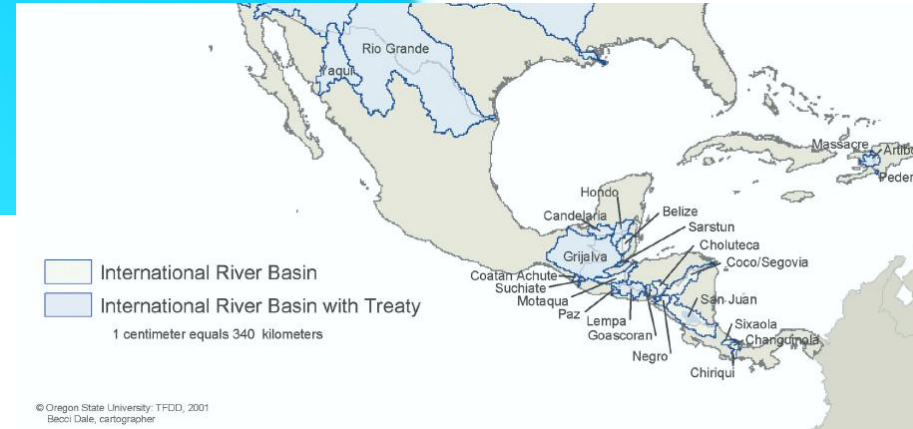
Contents

- Challenge and opportunity for TWM/TBA in Latin America and the Caribbean.
- Examples of TRM and TBA in Latin America
- **The key issues:**
 - *How to apply the concept “waters without borders” ?*
 - *How to apply the fundamentals of participation, decentralization and integration in TWM and TBA when to formulate and implement and of the agreements?*
 - *How to get the public participation (players – users, government represents, NGOs) on the TWM and TBA when to formulate and to implement of the agreements?*

On the world

- 263 river basin share
- 145 countries
- 50% of land surface
- 60% of freshwater
- 40% of world population
- 33 countries more 95% whole in the share basins

WHERE WE ARE



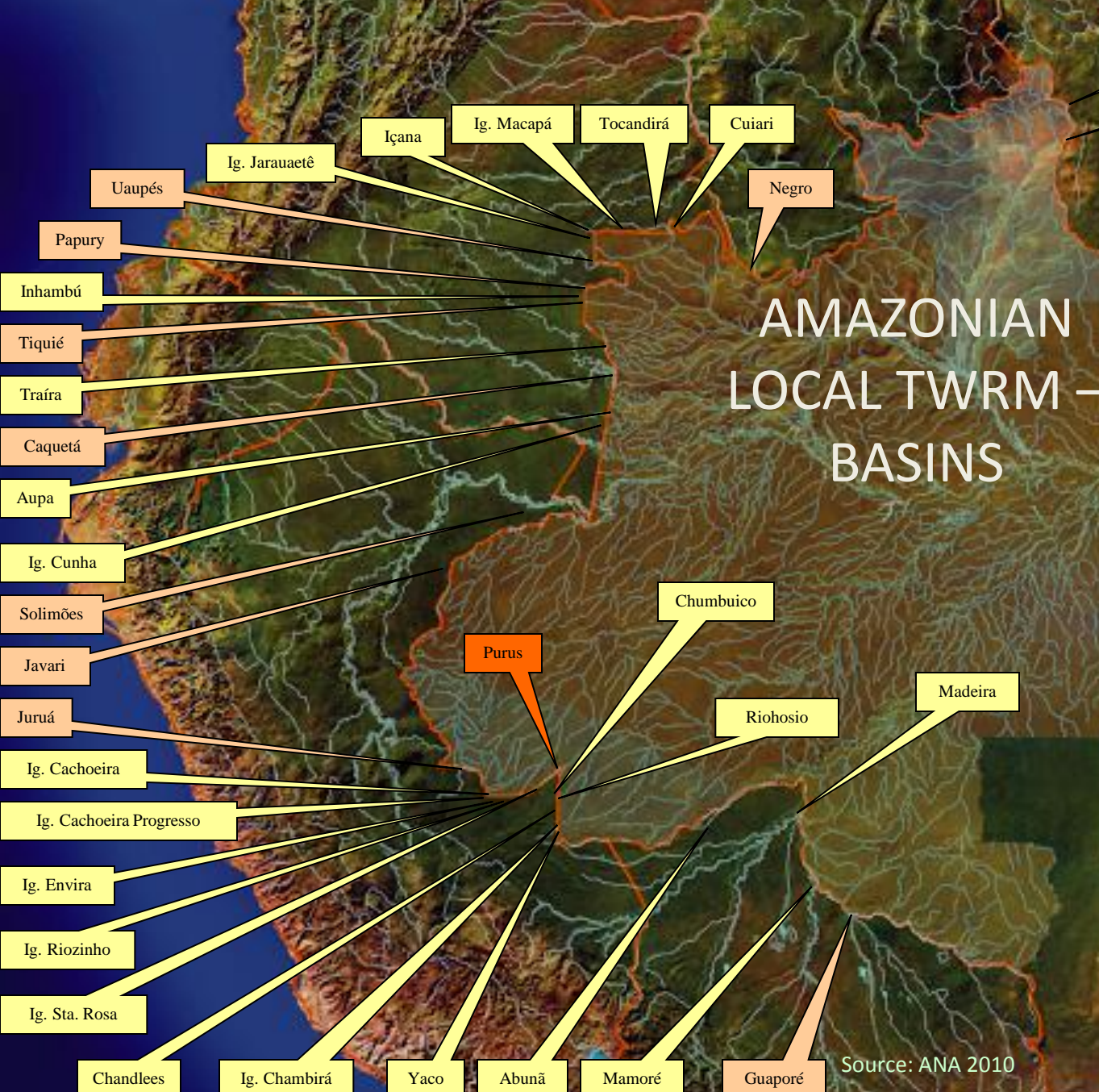
Central America and Caribbean
15 basin with share waters

South America

38 transboundary river basins

- ✓ 60% of the continent's land surface
- ✓ 23 with some agreement
- ✓ 15 without agreement

Bordes and transboundaries rivers in Brazil – Amazonian Basin



AMAZONIAN LOCAL TWRM – BASINS

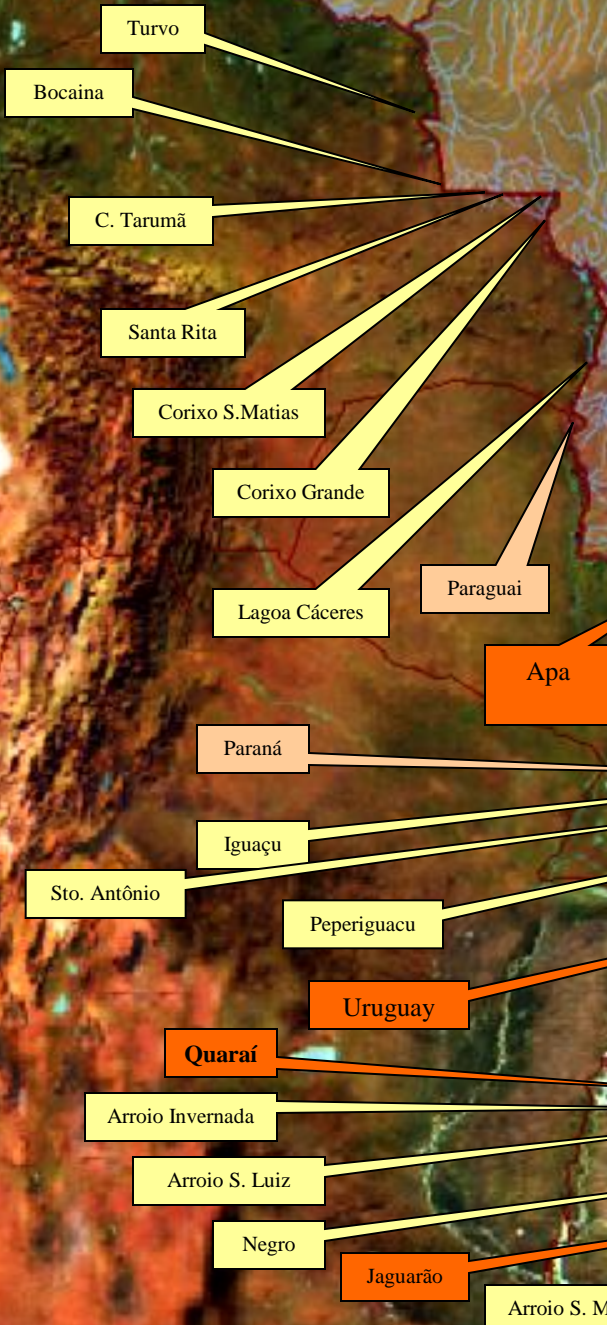
Nº of Transboundary Rivers	
Brazil – French Guyana	2
Brazil – Guyana	3
Brazil - Venezuela – Colombia	1
Brazil – Colombia	22
Brazil - Colombia – Peru	1
Brazil – Peru	19
Brazil – Bolivia	17
Brazil - Bolivia – Paraguay	1
Brazil – Paraguay	3
Brazil - Argentina – Paraguay	1
Brazil – Argentina	4
Brazil - Argentina – Uruguay	1
Brazil – Uruguay	8
Total	83

Source: ANA 2010

Bordes and transboundaries rivers in Brazil –

La Plata Basin

LA PLATA LOCAL TWRM BASINS



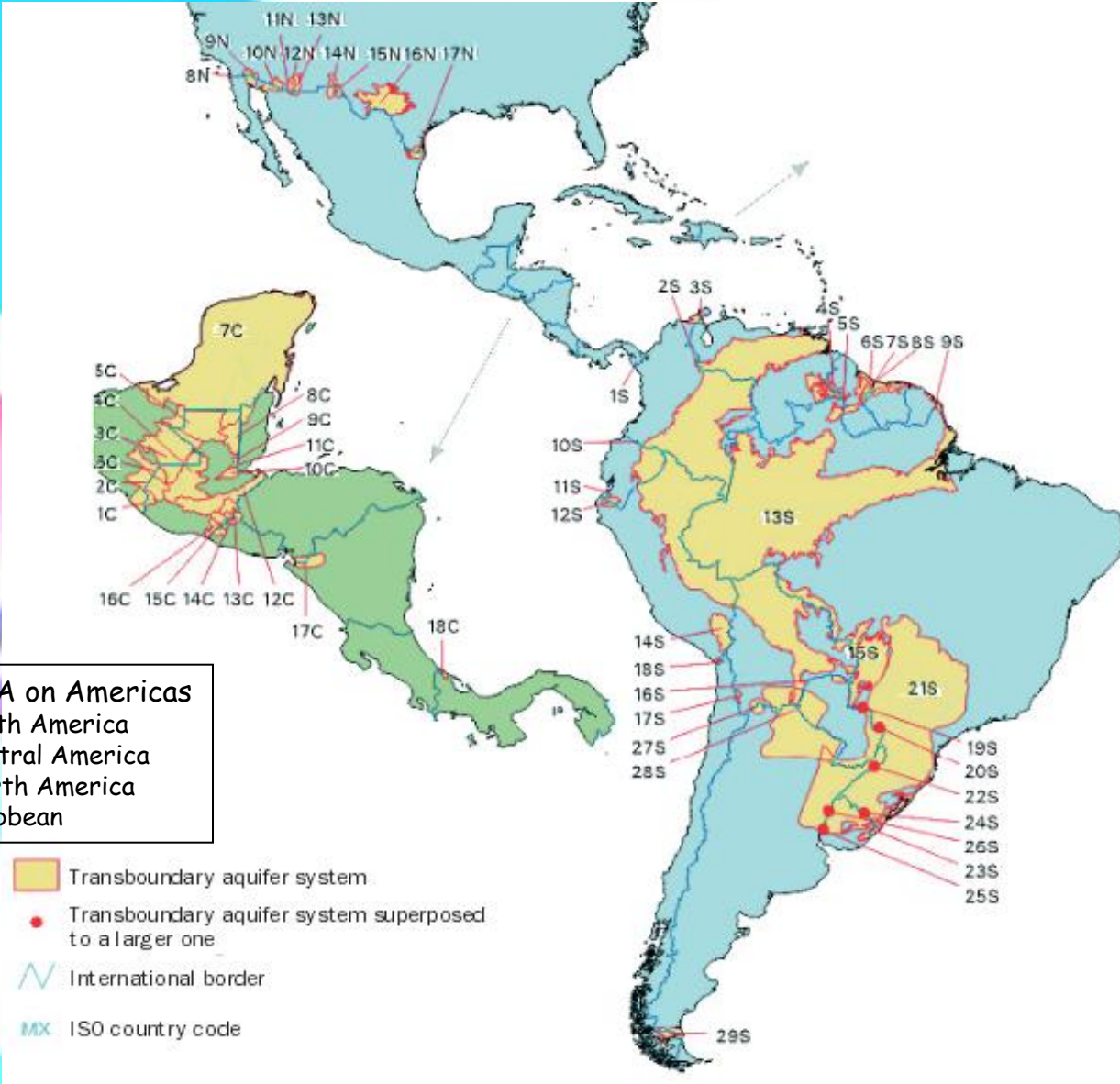
<i>Nº of Transboundary Rivers</i>	
Brazil – French Guyana	2
Braszl – Guyana	3
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Source: ANA 2010

- ✓ Groundwater is 95% of freshwater of world
- ✓ 50% of people use for drinkwater

TRANBOUNDARY AQUIFERS

608 transboundary aquifers



- 1S El Choco-Darién
- 2S Tachira Pamplonita
- 3S La Guajira
- 4S Grupo Roraima
- 5S Boa Vista-Serra do Tucano-North Savanna
- 6S Zanderij
- 7S Coesewijne
- 8S A-sand
- 9S Costeiro
- 10S Tulcan-Ipiales
- 11S Zarumilla
- 12S Puyango-Tumbes-Chira-Catamayo
- 13S Amazonas
- 14S Titicaca
- 15S Pantanal
- 16S Agua Dulce
- 17S Ollague-Pastos Grandes
- 18S Concordia-Escritos-Caplina
- 19S Aquidauana-Aquidaban
- 20S Caiua-Acaray
- 21S Guaraní
- 22S Serra Geral
- 23S Litoraneo-Chuy
- 24S Permo-carbonífero
- 25S Litoral-cretácico
- 26S Salto-Salto Chico
- 27S Puneños
- 28S Yrenda-Toba-Tarijeno
- 29S El Cóndor-Cañadon del Cóndor

National Program of Groundwater

Start: 1.250.000 Km², on the 6 Brazilian (Acre, Amapá, Amazonas, Pará, Rondônia y Roraima), aquifers Alter do Chão, Solimões and Iça.

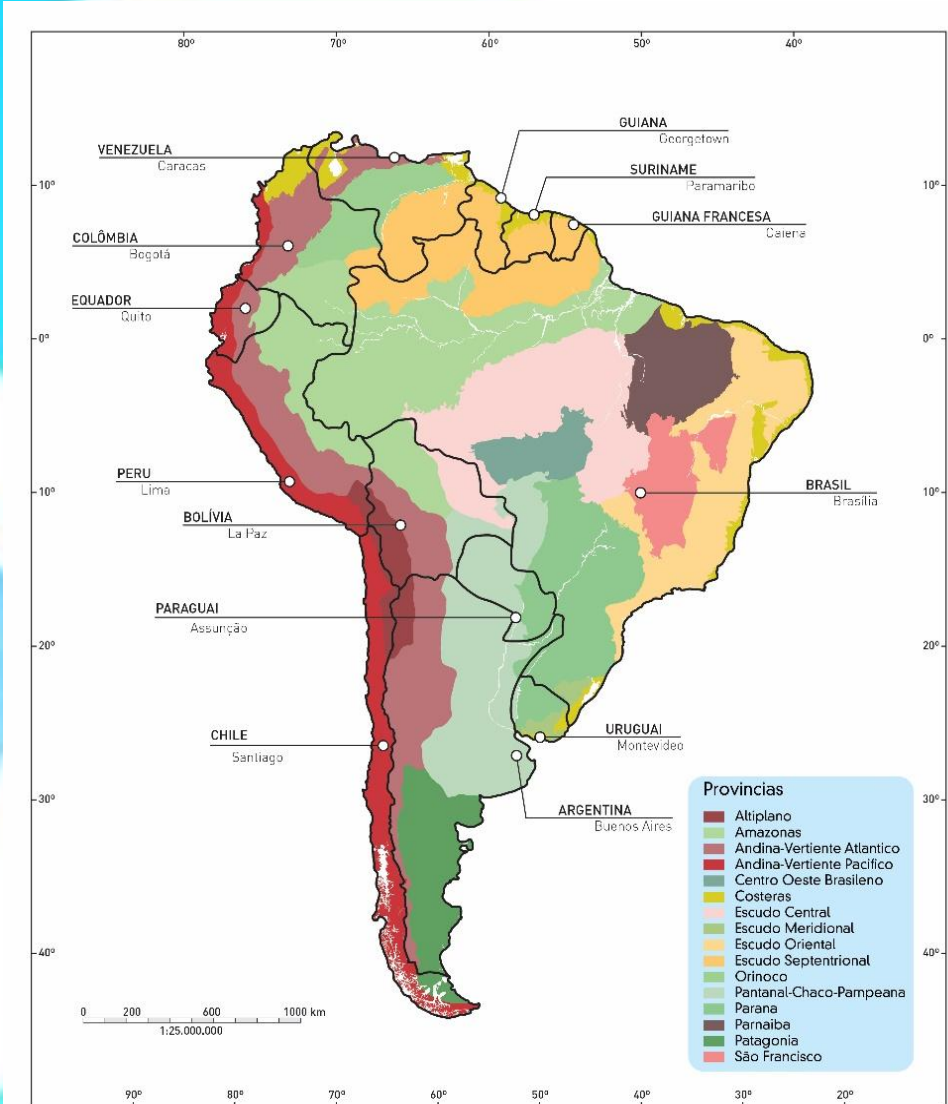
Future project: estimate on 3.950.000 km² (2.000.000 km² in Brazil).

Amazon basin with 6.200.000 km² (Bolivia, Brazil, Colombia, Ecuador e Peru) and Orinoco basin with 880.000 km² (Colombia y Venezuela) the biggest basin of South America

The System Aquifer(Transboundary)
Amazonas, the Hydrogeological Provinces of Amazonas and Orinoco

i) Program UNESCO/OEA ISARM Americas; ; ii) Study of ANA/Brazil and iii) Project GEF/PNUMA/OTCA

The Amazon Aquifer



(ANA, 2015)

Integrated and Sustainable Management of TransBoundary Water Resources in the Amazon River Basin considering Variability and Climate Change ACTO / GEF / UNEP

Transboundary Diagnostic Analysis (TDA)

- Part I. Strengthening the capacity of key stakeholders in the basin
- Part II. Funding water resources management in transboundary basins
- Part III. Legal framework for water resources management in transboundary basins
- Part IV. Information and knowledge management for water resources in transboundary basins
- Part V. Education and a culture of water in transboundary basins
- Part VI. Public policy for water resources management in transboundary basins
- Part VII. Integrated water resources management in transboundary basins
- Part VIII. Communication, promotion and dissemination for integrated water resources management in transboundary basins

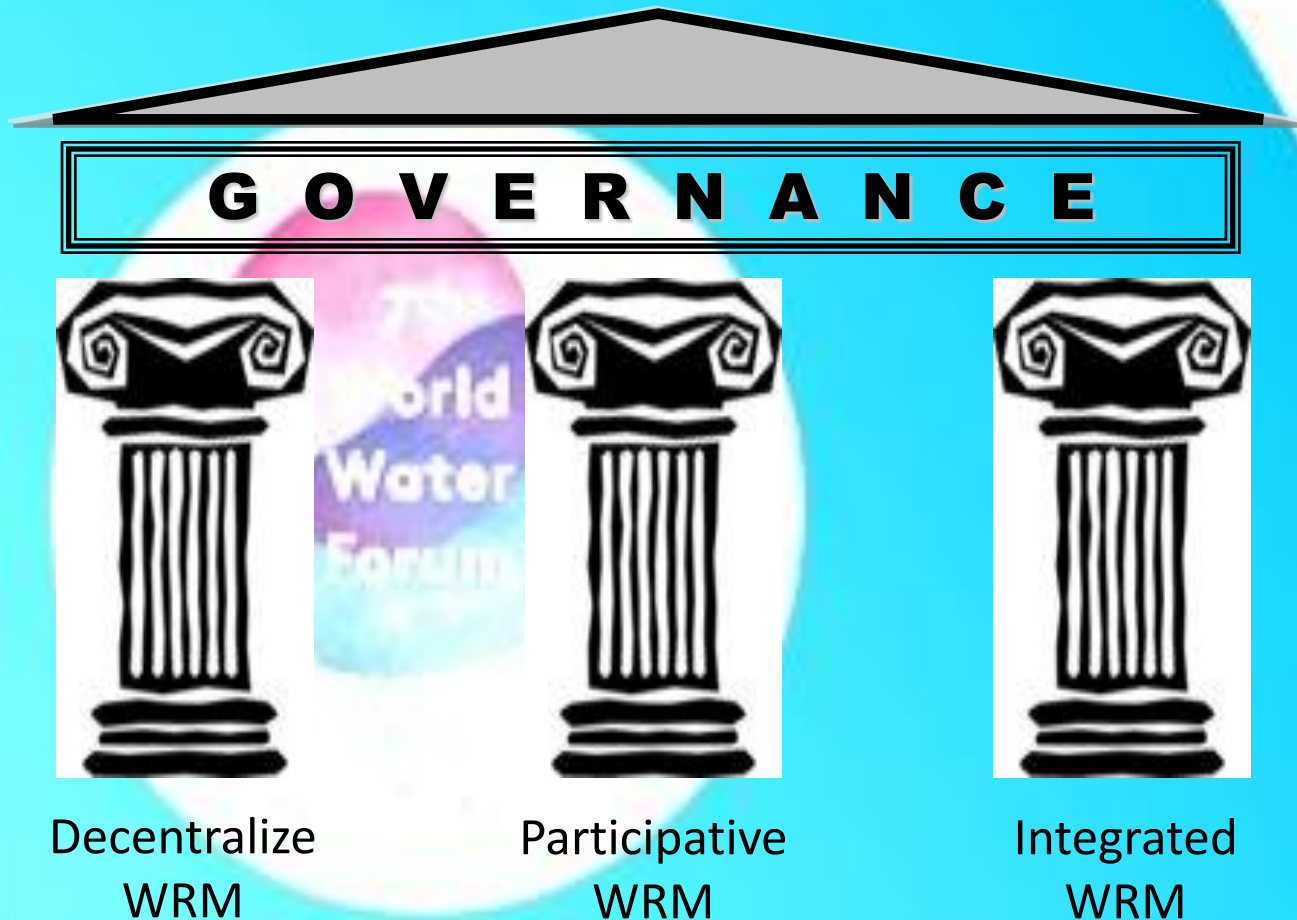


Challenges and opportunity

- **Different levels of governance in the water resources management.**
 - Federal/national management
 - Brazil and Argentina is Republic Federative
 - Federal and regional (states) management.
 - Many countries don't work with INTERNATIONAL RIVERS
- **Lack of information about the Basin Organisms.**
 - Register and database of all organisms in LAC.
 - The new Project ECOCUENCAS (EU – OIEAu)
- **Lack of capacity building for participate in the Governance of IWRM and TWRM.**
 - The capacity building is fragmented
 - Recently we aimed the first South America's Project financed by the UE for IWRM (EcoCuencas).
 - The NGOs and water users are well organized
- **Few practices – twin basin (exchange experiences).**
 - Some experiences about transboundary water management with the effective public participation APA River Basin / Quaraí River Basin, Initiative MAP – Madre de Dios, Acre and Pando)

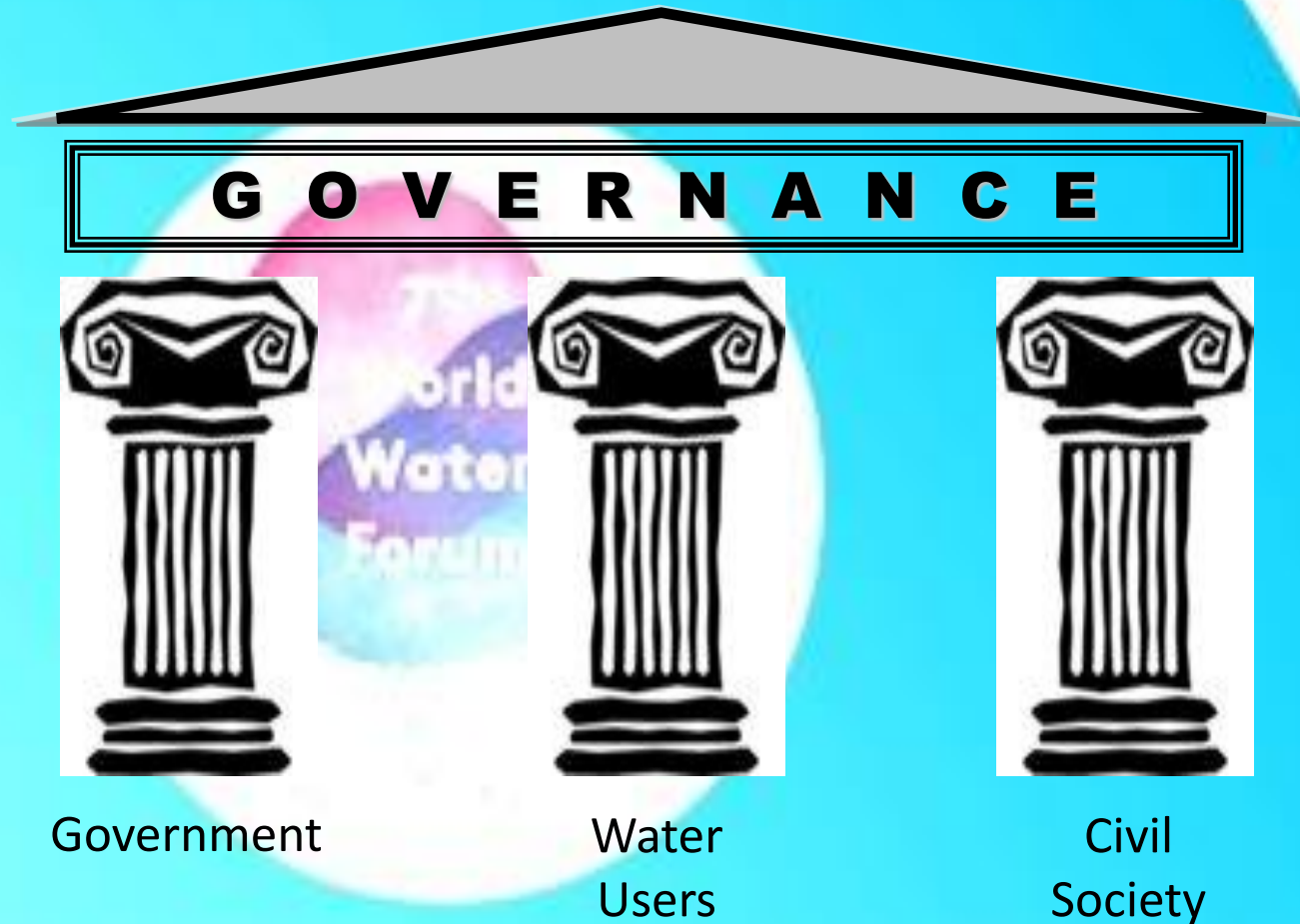
Opportunity – Governance

How to apply the fundamentals of participation, decentralization and integration in TWM and TBA when to formulate and implement and of the agreements
Is this possible in the TWM on the basin of aquifer?



Opportunity - Governance

*How to get the public participation (players – users, government represents, NGOs) on the TWM and TBA when to formulate and to implement of the agreements?
In TWM is it possible the public participation on the basin or aquifer?*



- Thanks you
- 감사합니다 / 고맙습니다!

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