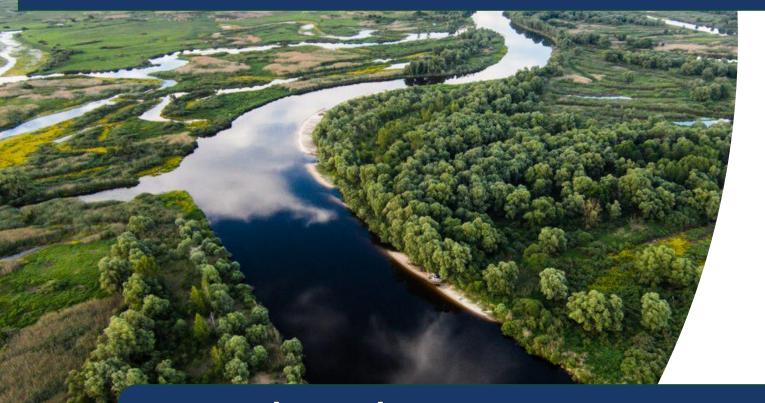
12nd World General Assembly of INBO, Bordeaux, France





Transboundary Water Management in a Context of Climate Variability: Experiences from ACTO

Edith Paredez
Administrative Director PS/OTCA



WATER RESOURCES

Regional and global water reserve Regulates the climate of the planet and the region

HYDROLOGY

Output flow: 220,000 - 300,000 m3/s in the

rainy season. Length: 6,992 km

Watershed: 6,118,000 km²

Main contributors: Putumayo, Japurá and Río Negro, Juruá, Purús, Madeira, Tapajós

and Xingu.



POPULATION

Amazon Basin: 50 million inhabitants. 420 indigenous peoples. 370 languages.

ECONOMIC ACTIVITIES

53% of agricultural activities. 31% of trade. 16% of manufacturing.













Perú

Suriname

Venezuela

Belem Declaration

Amazonian Parliament

Police cooperation and combating illicit activities









Institutional Strengthening



Science, education and innovation

Sustainable infrastructure



Health



Human rights and social participation

Amazonian cultures



Diplomatic Cooperation









Water resources management



Climate change

Forests, coastal zones and biodiversity

Food and nutritional security

Economics for sustainable development





Declaration of Belém

16 Topics29 Resolutions113 Objectives

The main impacts of climate variability and change in the Amazon Basin

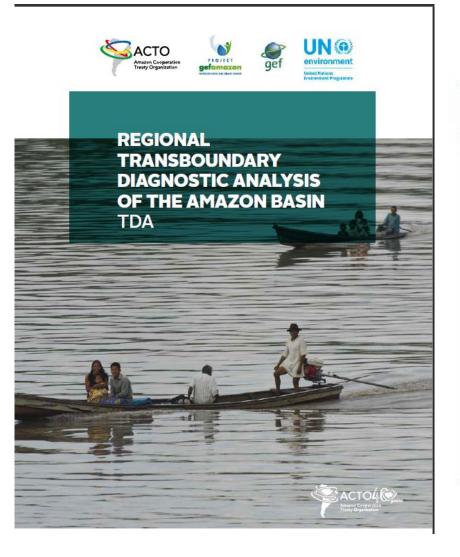
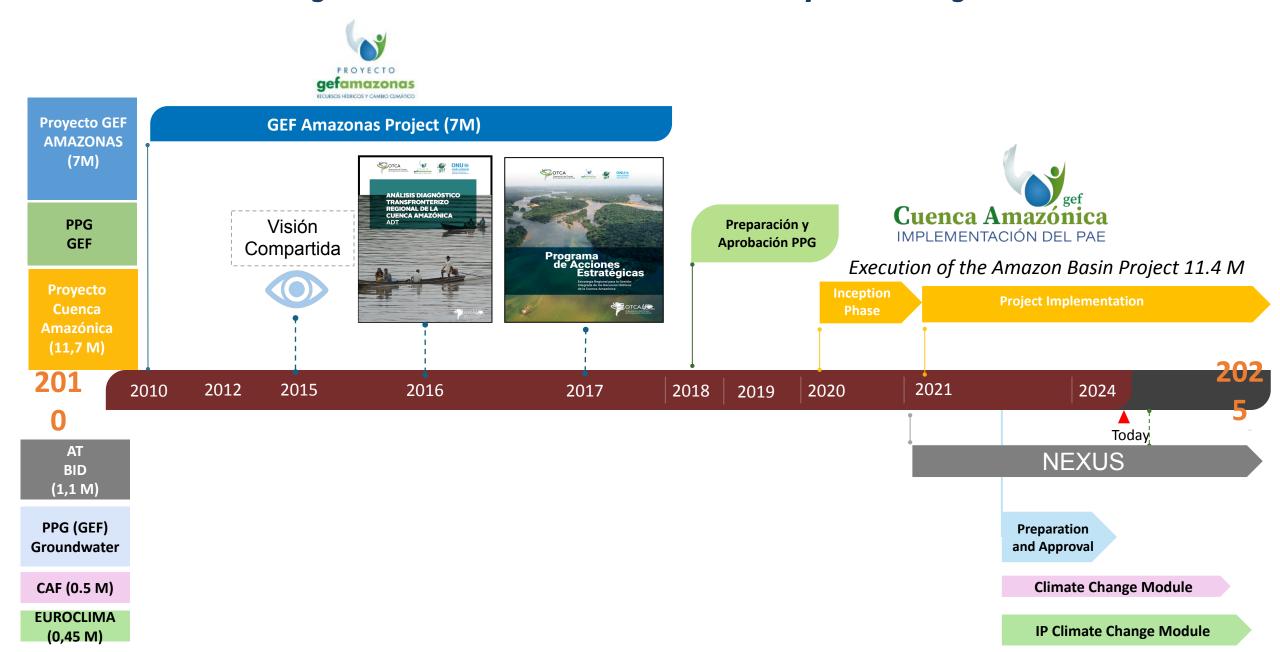


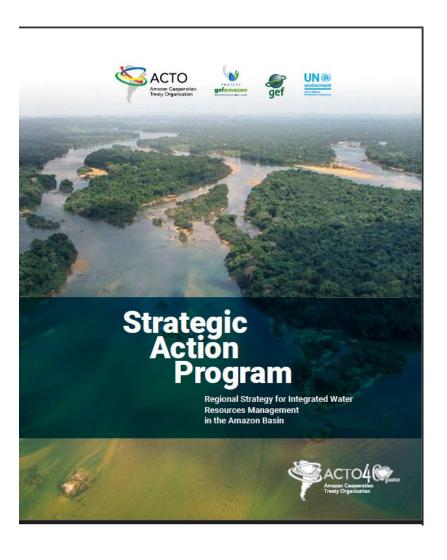
TABLE 5. EXTREME HYDROCLIMATIC EVENTS.

IMPACTS/CONSEQUENCES		
 Environmental Disruptions in ecosystem food chains Limited navigation Water pollution Changes in the physicochemical characteristics of water because of increased whole solids in suspension Loss of biodiversity River fauna poisoned by mercury 	Public health risks Rising food prices Economic losses due to transportation costs Impact on ecotourism Economic losses related to productive activity	
 Loss of crop area Loss of landscape diversity 	 Loss of human life 	

Timeline of the Construction of Transboundary Water Governance in the Amazon Region in a Context of Climate Variability and Change

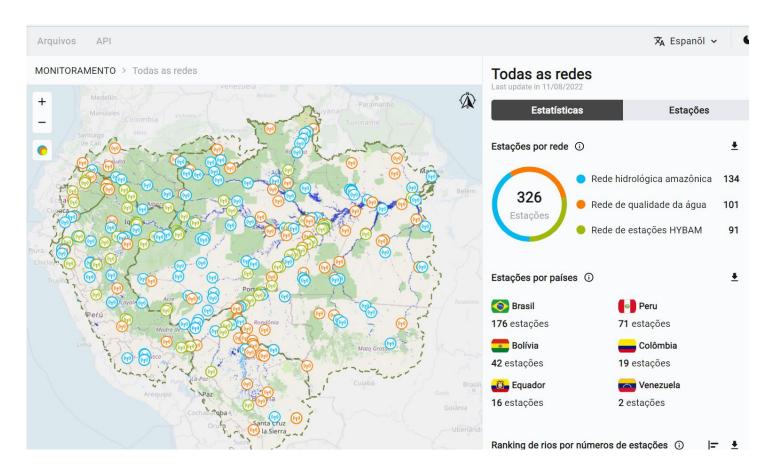


Strategic Action Program: improving Transboundary Water Management in the Amazon (SAP)



- Regional Strategy for IWRM, endorsed by the 8 Member States (2017).
- Strengthening water governance (regional and national level) for water security and climate change adaptation in response to the main transboundary problems.
- Permanent IWRM Coordination Mechanism for the Amazon Basin will be established at ACTO:
 - ✓ Based on agreed common principles and standards,
 - ✓ Information sharing mechanisms and regional IWRM information platform,
 - ✓ Financial instruments and gender mainstreaming
 - ✔ Regional cooperation mechanisms for IWRM.
- Strengthening the abilities of Amazon communities to adapt to extreme climate events and promoting regional water resources and environmental monitoring.

Amazon Regional Observatory www.oraotca.org





AMAZON REGIONAL OBSERVATORY



MONITORING NETWORK HYDROMETEOROLOGICAL

SITUATION ROOM FOR EXTREME EVENTS (WATER RESOURCES)

Atlas of Hydroclimatic Vulnerability (ACTO, 2021)

68,21 - 100,00

58,15 - 68,20

53,24 - 58,14

46,76 - 53,23

39,76 - 46,75

32,50 - 39.75

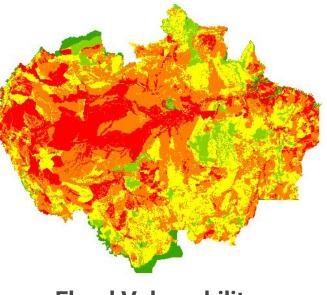
0,00 - 32,49

Sin información

NIVELES DE VULNERABILIDAD Y SENSIBILIDAD

Color	Nível	Valor
	Muy alta	5
	Alta	4
	Media	3
	Baja	2
	Muy Baja	1

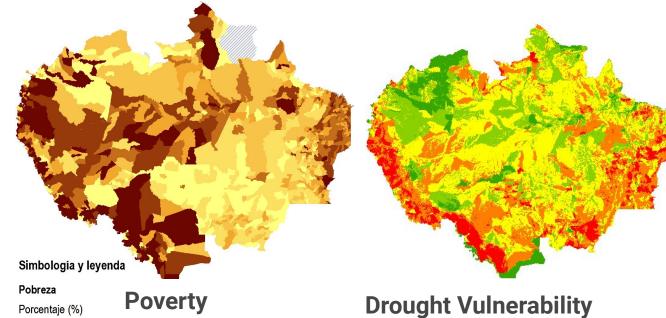






•The occurrence of disasters reaches 50% in the Andean Amazon and even increases to 51% in the Brazilian Amazon.

Affecting productive systems and livelihoods at different scales and different geographical areas (mainly floodplains and headwaters).



•19% of disasters in the Region are associated with drought, increasing this value to 46% in the Brazilian Amazon.

The greatest impact of droughts in the Region is in the livestock sector with 58% and in crops and forests with 6%.

The impact of droughts on the population is 36% of the total

A temperature increase of 3 to 4 °C is expected by the 21st century (2080-2100)

NEXUS FOCUS IN THE AMAZON BASIN













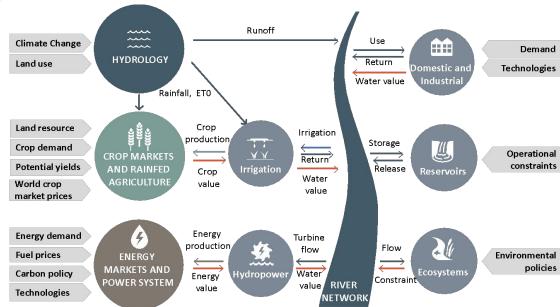
Inter-Ministerial and Expert Dialogue Roundtables on the Water-Food-Energy-Ecosystem Nexus to Increase Climate Resilience and Better Achieve SDG 9 on Resilient Infrastructure and Sustainable Energy

Risk analysis, environmental impact assessment and best practices to minimise the impact of infrastructure on water resources and the environment.



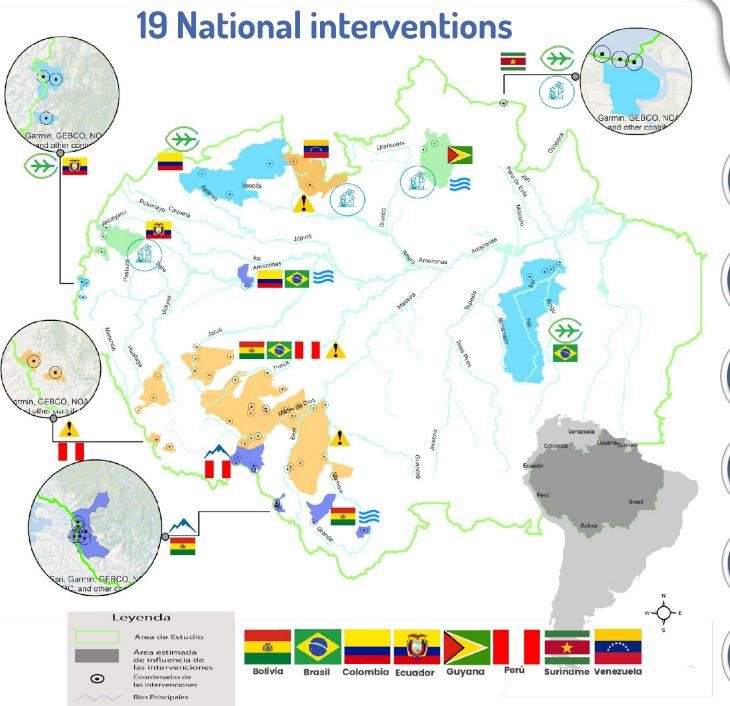


Development of a hydrological platform and simulation model of the water-energy food nexus for the Amazon Basin



With the support of















Sistemas de Alerta Temprana para inundaciones









Soluciones basadas en la naturaleza











Mecanismos financieros innovadores











Seguridad hídrica de la población, mediante la protección de las fuentes de agua subterránea.











Alternativas para el suministro de agua en los centros urbanos debido al retroceso de glaciares.



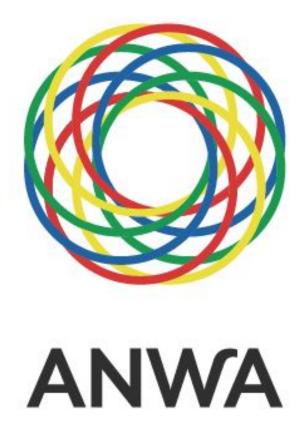




Sistemas de Monitoreo de Ecosistemas acuáticos y especies vulnerables en un contexto de cambio climático







AMAZONIAN NETWORK OF WATER AUTHORITIES

Permanent mechanism for coordination, cooperation and exchange at IWRM

Belém, August 8, 2023 Brasilia, April 17, 2024 Gracias,
Dank U,
Thank you,
Obrigada

