INTER-AMERICAN DEVELOPMENT BANK Integrated Water Resources Management Group

Mauro Nalesso Water and Sanitation Division



- 1. Water Security
- 2. Hydro-BID
- 3. WEF Nexus



Water Security



WATER AVAILABILTY AND ACCESS





hydrobid



What is Hydro-BID?

System for integrated, quantitative simulation of hydrology and climate change in Latin America and the Caribbean

Consolidated database for all LAC

Easy to couple with other analytical tools (WEAP, MODFLOW)

Free for water, environmental agencies, natural resources ministries and academia



Intended Uses

Water resources planning and management

Water Discharges Series & Water Balances

Groundwater Simulations

Sediment Transport

Water demand analysis (WEAP)

Water resources management policy scenarios

Reservoir management and feasibility studies

Hydroelectric Power Generation feasibility studies

Irrigation feasibility studies



AHD-LAC

México / Central America: 33,000 catchments and stream segments Average catchment area 84 km2 Average stream segment length 10 km

Caribbean:

3,300 catchments and stream segments Average catchment area 72 km2 Average stream segment length 11 km

South America:

193,000 catchments and stream segments Average catchment area 92 Km2 Average stream segment length 11 km





Countries

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Pilot Studies Operative Application National or Regional Application and training Academic Application



Hydro-BID Support Centrer

Hydro-BID Support Center







WEF NEXUS





The Importance of Nexus for LAC

Regional demand for water, energy, and food is expected to grow exponentially as income per capita and population rise

LAC water withdrawal for energy production:

- 16 billion cubic meters in 2010
- 52 billion cubic meters in 2035

Largest & 7 times world average growth

Water Consumption expand by 35% by 2025

Food Consumption expand by 35% by 2025

Energy Consumption expand by 55% by 2025





WWW.HYDROBIDLAC.ORG

