

S-MultiStor Colombia

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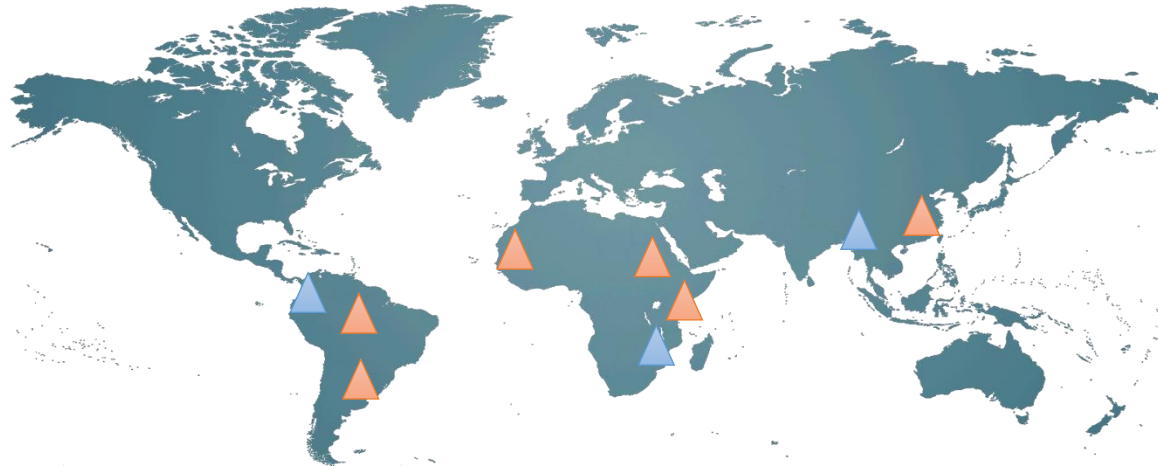
Facultad de Estudios Ambientales y Rurales

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Sustainable Hydropower and Multipurpose Storage to meet Water, Food, and
Energy Development Goals: A Program for Collaborative Research and
Innovation

Collaboration

S-MultiStor Partners will form working groups on priority topics jointly decided. Working groups will carry out specific activities to i) compile and analyse data from all available sources and to ii) develop new knowledge products for demonstration and dissemination.



▲ S-MultiStor Basins ▲ Other priority basins for additional collaboration

Alignment

Working group activities and demonstration sites will be selected to align with other UNESCO-IHE & partner activities to multiply outputs and impacts

Demonstration

New knowledge products developed by working groups will be tested and refined in partner Demonstration Sites (open laboratories) located in the Zambezi Basin, Irrawaddy Basin, and Magdalena Basin.

Dissemination


Platform products will be disseminated in multiple formats, including publications, digital media, events and symposia, and training programs and materials.



 Magdalena Basin, Colombia



  Irrawaddy Basin, Myanmar
Mekong Basin Laos

 Zambezi Basin, Southern Africa



Overarching Research Questions

1

How can system-scale multipurpose dams and reservoirs be best positioned and cooperatively operated in river basins to increase regional water, food and energy security while protecting public safety and desired social-ecological processes?

2

How can the design and operation of individual dams and reservoirs be optimised and made more sustainable in terms of governance, environmental and social issues management, the hydrological resource, project-affected communities and livelihoods, biodiversity and invasive species, erosion and sedimentation, water quality, reservoir management, and downstream flow regimes?

S-MULTISTOR (JAVERIANA UNIVERSITY COMPONENT)



AIM: To define the size of water storage need to set a resilient hydraulic energy generation for Colombia

GOALS:

1. To assess the influence of hydrological variability and their extremes in the size of water storage for resilient energy generation;
2. To establish the emission scenarios of greenhouse gases;
3. To asses water governance structures