

Technical Working Group (number)


TWG-1: Data Framework

e.g. Data collection, quality and sharing

Second Regional Upper Indus Basin Network Annual Meeting (RUAM)

27 January 2021



An aerial photograph of a river valley in the Indus basin. The river flows through a valley with steep, rocky mountains on either side. The left bank is covered in dense, yellow-green trees. In the foreground, a suspension bridge crosses the river. The right bank is rocky and sparsely vegetated. The background shows more mountains under a clear sky.

**Filling critical
knowledge
gaps in the
Indus basin**

Key knowledge gaps

There is a lack of insitu data across the upper Indus basin including Stream flow data, Meteorological data, Groundwater level data, Snow cover data, glacier area and thickness, etc.

Weather stations are available mostly at lower accessible areas, not at higher altitudes.

Wherever the data is available there is a question mark about the quality of data?

Type of data available?

Filling the gaps

To validate hydrological models a quality And high resolution data is needed.

There is a need to adopt the agreed methodology for the data generation

Country chatpers should come up through ICIMOD to create a data repository

Some bench mark catchments should be selected-for more instrumentation-data generation-basis for modelers to design and use



Potential bilateral/regional collaborative interventions

Discussion question: What are potential bilateral/regional collaborative interventions the group should focus on during the coming years?

Data sharing is a major concern

Find out solutions-agreements of neighbouring countries: start with the scientific collaborations in the form of joint publications and research projects

Key research questions be identified by the researchers and potential funding opportunities be worked out

There are many institutional or individual level collaborations but there is a need of having more collaborations.

Need to strengthen Himalayan University consortium – where bilateral or multilateral research work be carried out to help create a data repository.

Models can be validated by the data from the country –without even sharing.



**Potential capacity enhancement
and offerings to other country
chapters**

Discussion question: What are the potential capacity enhancement and offerings to other country chapters?

Country chapter	Key potential support areas
Afghanistan	Research Project including younger generations and across the gender
China	Capacity building through education: Masters and Ph D program and training to young scientists from south Asia
India	We can offer the training and capacity building at University of Kashmir (Through webinar amid covid) and arrange field work to younger scientists to Upper Indus in future
Pakistan	we have limited number of women working in relevant government departments and their capacity in this particular area is very low, some training's or capacity building sessions should be designed



Key TWG focus areas in the respective country chapters

Discussion question: What are the key focus areas for the TWG to consider in their respective country chapters plan?

Identify important areas of focus for the respective country chapter

Afganistan: Link TWG to academia and researchers and other organisations (field data)

With focus areas –climate change, groundwater-main source of fresh water

China: Generate data- improve data quality, particularly Meteorological data, published work-data centre

India: Using modern instrumentation to have more coarse resolution in situ data-stream flow, groundwater level fluctuations

Pakistan: planning to have data center- academia and other organisations

Field Manuals: handed over to research groups-provide reliable data-ICIMOD Training manuals

We should have access to manuals—new manual created for UIB Network



Thank you