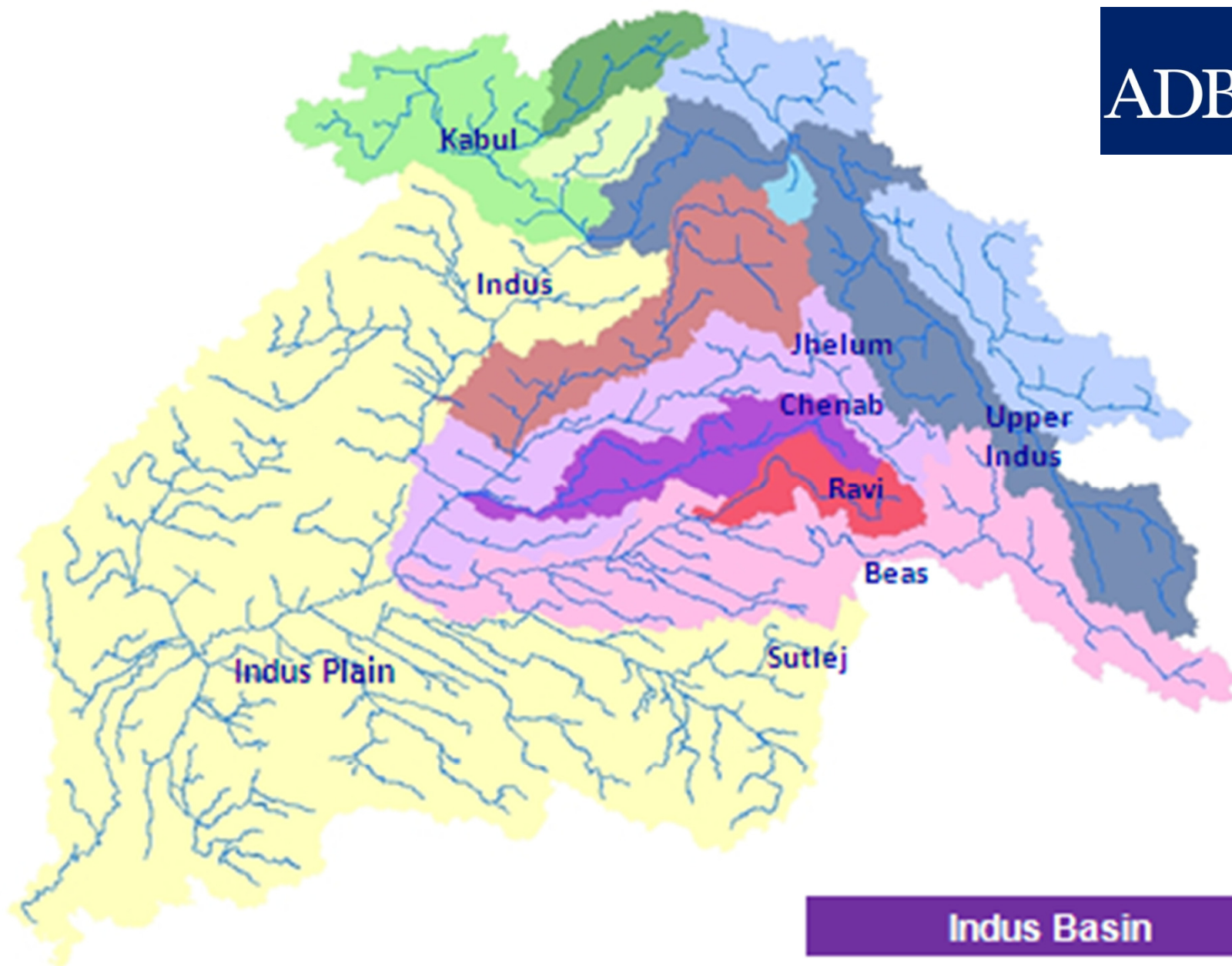


Asia Pacific Adaptation Forum, Bangkok



MAINSTREAMING ADAPTATION
IN
WATER AND ENERGY SECTORS
IN
INDUS BASIN PAKISTAN
FOR
CLIMATE SMART INVESTMENTS



Indus Basin

HOW CLIMATE CHANGE IMPACTS RIVER FLOWS IN INDUS BASIN

ADB

- VARIATION IN GLACIAL MELT RATE, and
- CHANGING RAINFALL PATTERNS,
INTENSITY AND DURATION
EFFECT PEAK DISCHARGE, VOLUME, AND
DURATION





Fundamental Questions

ADB

- Are investments safe?
- Can projects sustain?
- Can projects remain productive?
- Can existing projects be made climate-proof?
- How future investments could be made climate-proof?

ADB's Technical Assistance

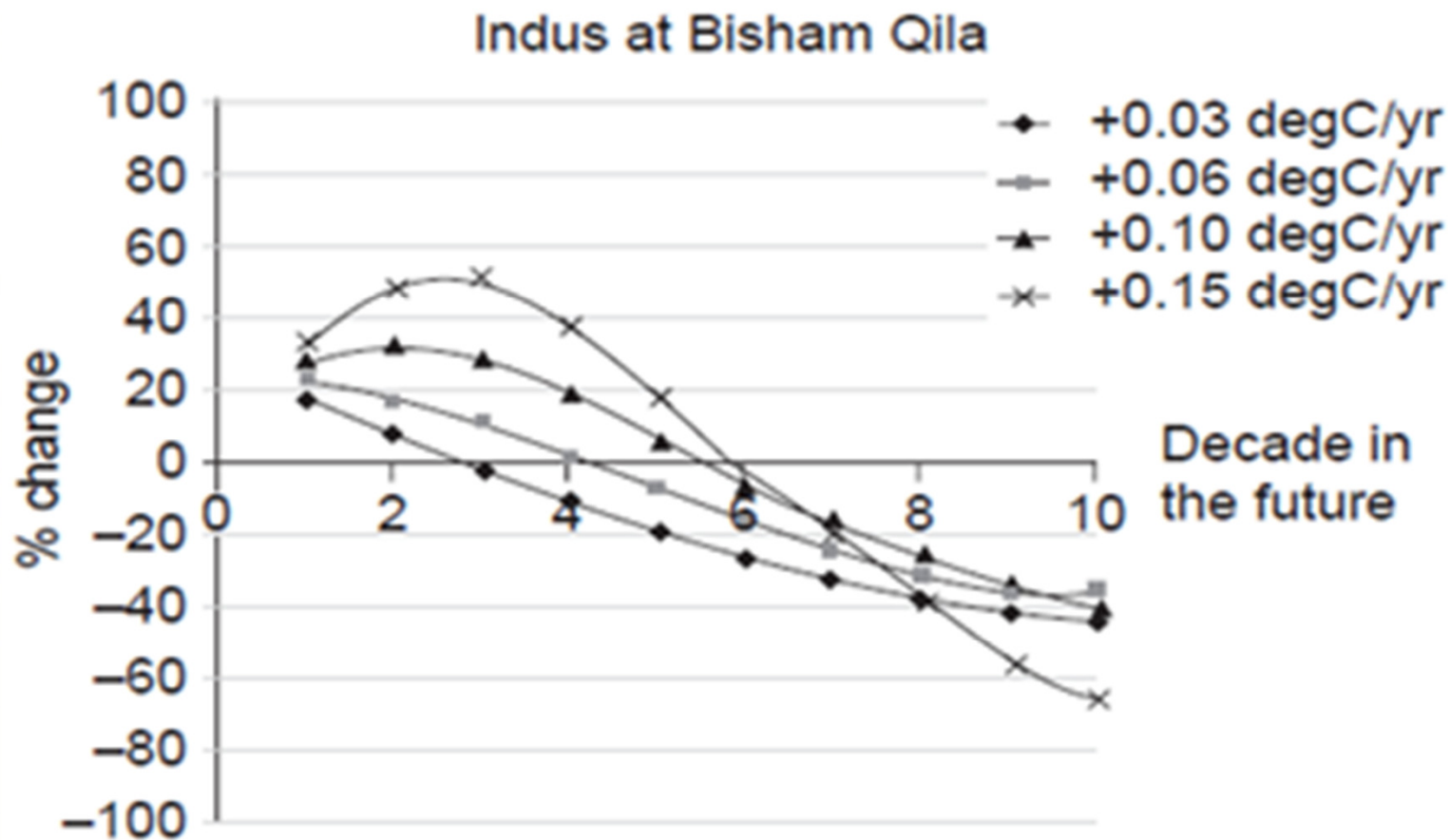


Glacial Melt and Downstream Impacts on Indus-Dependent Water Resources and Energy (2009)

- Identify knowledge gaps, and
- Suggest measures for ADB/host country operations to adapt to climate change

Flow Patterns

ADB



Proposed Priority Interventions for Indus Basin-Pakistan

ADB

- Temperature – Runoff Modeling *for correlating river flows with temperature*
- Rainfall – Runoff Modeling *for correlating river flows with rainfall*
- Forecast River Flows under various scenarios
- Generate 50 Years River Flow Data Series for various locations in the basin

How will this data help

The ADB logo is a dark blue square with the letters 'ADB' in white, serif font.

Planners, Designers, Decision Makers will know:

- Productive potential (MW of Power, BCM of Water etc.), and
- Maximum possible flood peaks, under climate change scenario.

TO plan investments; design size, capacity and safety features of the projects