Concept Proposal on:
Impact of Climate Change on Water Resources of Indus River System

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Background

• Abu Dhabi Dialogue started 2 decades ago on major river basins
• South Asian Water Initiative (SAWI)
• Singapore
• Quito
Objectives

- Understand impact of climate change on water cycle
- Consolidate knowledge on the water issues of Indus
- Strengthen coordination, knowledge sharing and working relationships among regional and global institutions
- Continuity of Research to synchronize with climate system dynamics
- Propose adaptation measures
- Prepare evidence based policy guidelines
Activities

• Selection of benchmark glaciers, installation of monitoring equipment, field measurements and study design
• Collection of indigenous knowledge through interviews and documentaries
• Analysis of recorded changes in climate and water cycle
• Geo data cube to monitor impacts of change
• Future climate projections with the finest possible resolution
• Impact assessment on winter and summer precipitation dynamics
• Development of indices on future climatic extremes
Contd....

- Expected variation in springs and rural water supply
- Seasonal changes in flow pattern and Peri-urban water demand change
- Education and training of graduates and young professionals
Governance

ICIMOD is expected to offer the Secretariat

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<thead>
<tr>
<th>Steering Committee (Advisory Role)</th>
<th>Review Committee (Quality Review)</th>
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<tbody>
<tr>
<td>• 2 per basin country (one from public sector + one from academic) 2x4=8</td>
<td>• Two independent Experts from the region</td>
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<tr>
<td>• 3 international (IWMI, WB, ICIMOD)</td>
<td>• Two international experts from reputed international institutions</td>
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<td>• Total 11</td>
<td>• Total 4</td>
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Protect the pulse

Thank you