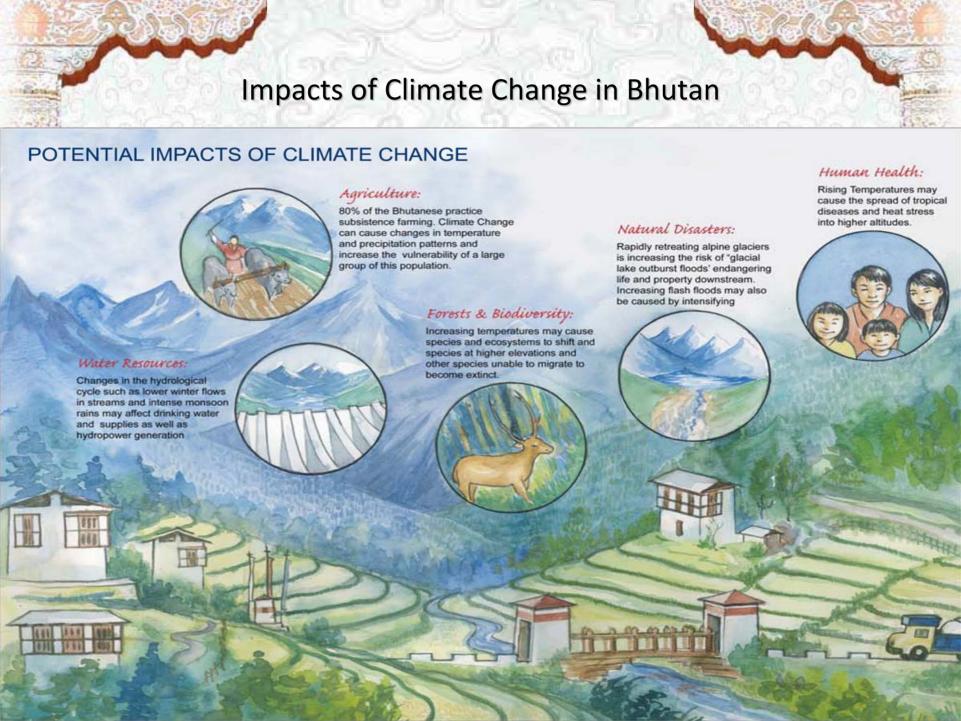
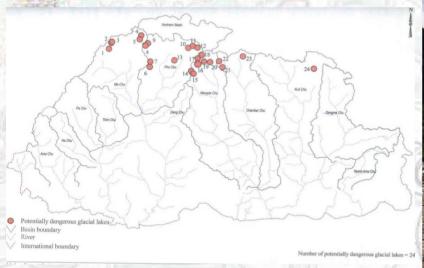


Bhutan is One of Most Vulnerable Countries to Climate Change

- High dependence on climate sensitive sectors,
 - Agriculture and hydropower
- Level of economic development
 - ~ 70% population engaged in subsistence agriculture
 - Low diversification of economy
- Geography
 - Fragile mountainous ecosystem.
 - Tropical setting and spread of diseases to higher elevations
 - Increased risk of disasters like GLOF and flash floods, seasonal drought, changing monsoons



Glaciers and Glacial Lakes





Total of 2,794 glacial lakes
25 potentially dangerous
PhoChhu Sub Basin
MoChhu Sub Basin
Chamkhar Chhu Sub Basin
KuriChhu Sub Basin
MangdeChhu Sub Basin



Observed Changes in Glaciers of Bhutan





Observed Changes in Glaciers of Bhutan





Planned and Ongoing Work

- Artificial lowering of water level in Thorthormi lakes
 - NAPA Project funded by LDC Fund
- Follow up on the installation of TEWS along Pho chu valley (Lunana, Punakha and downstream.
 - NAPA Project funded by LDC Fund
- Conduct further studies in other watersheds

Acts relating to protection of Environment

- > Constitution of Bhutan: came into force from 2008
 - separate article dedicated to environment.
- National Environment Protection Act, 2007
 - An umbrella Act.
 - protection of genetic resources, minimum 60% forest coverage in all times to come, protected areas.
- > Environment Assessment Act, 2000 and its regulations
 - environmental assessment procedures
 - issuance of Environmental Clearances
 - Compliance monitoring.
- Forest and Nature Conservation Act, 1995 and its regulations.
- The Biodiversity Act of Bhutan, 2003
 - regulate access to genetic resources and benefit sharing.
- Draft Waste Prevention and Management Act.
- Draft Water Act.

Conclusion

- Climate change is happening and caused by human activities
- Climate change is a serious issue and an adequate response requires coordinated efforts of all stakeholders.
- Bhutan contribute least towards climate change but will suffer from its adverse impacts

