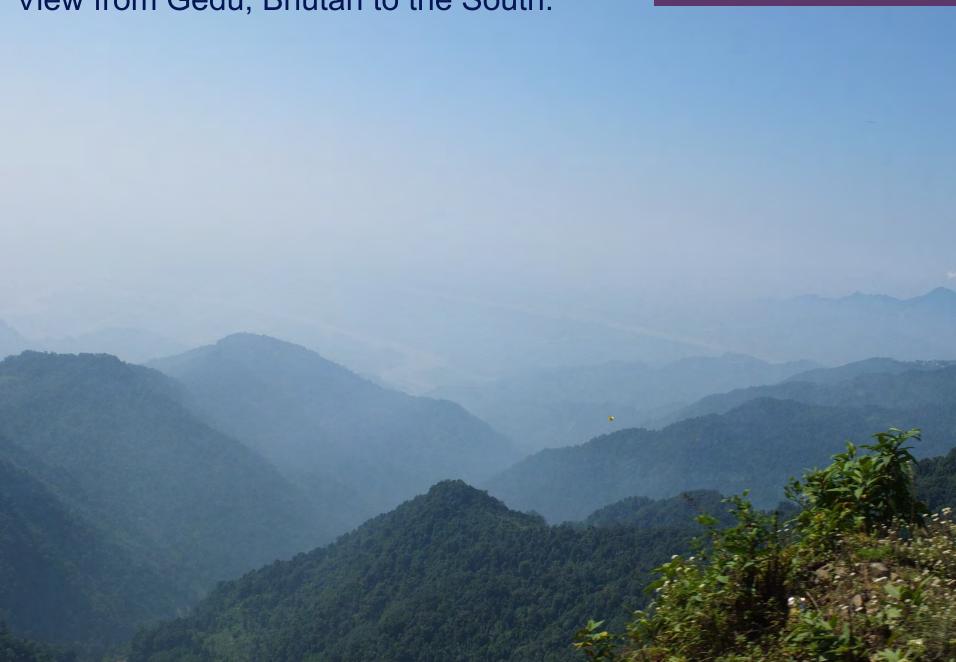
View from Gedu, Bhutan to the South:





#### NEPAL SITE







### Ichhyakamana & Gedu to be equipped with instruments to measure:



- Carbon dioxide, methane, ozone
- Aerosol size distribution
- Cloud condensation nuclei
- Aerosol composition, including black carbon
- Aerosol optical properties
- meteorology

CURRENT STATUS: proposals submitted to governments of Nepal and Bhutan, answered questions... waiting for approval to proceed with construction

## Three satellite stations to be set up in 2014:



- Langtang (just below Mera Glacier)
- Lumbini (Nepal-India border)
- Kathmandu City



# The Atmosphere Initiative's work on mitigation



- Assess the menu of choices available:
  - Cook stoves
  - Brick production
  - Transportation
- Do research in those areas where we can provide value-added knowledge.

#### Improved biomass cook stoves:

- To what extent do they reduce BC emissions?
- How does one effectively disseminate stoves that reduce BC?





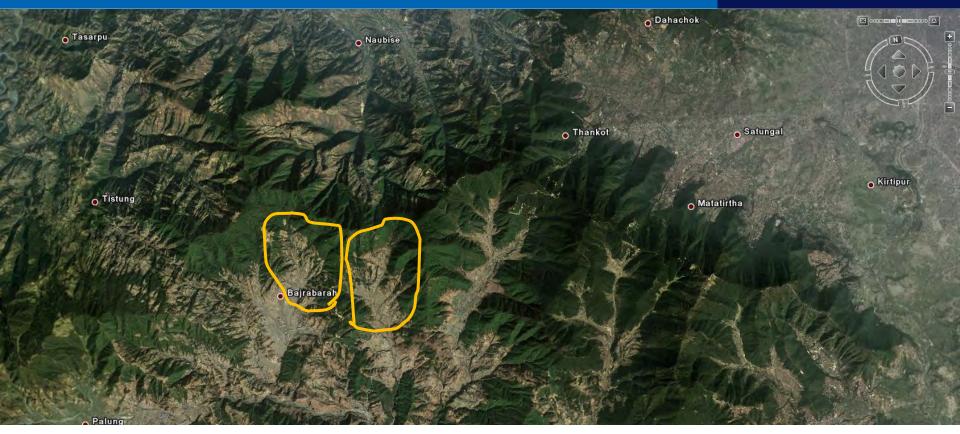






#### Upcoming study in Makwanpur, Nepal Controlled experiment





- 2 very similar valleys, in Bajrabarahi (intervention) and Chitlang (control).
- Work with local women's group to distribute best available fan-assisted biomass cookstove in 700 households of Bajrabarahi.
- Monitor indoor, outdoor air quality, people's health (with medical students)
- Study social aspects of cookstove distribution.

### Capacity building & knowledge distribution



- Planning a new Masters' and PhD programme in atmospheric science, focused on issues in the mountain areas of our region.
  - Need people on an international advisory board
- Short training courses.
- Documentary films, websites, teaching materials.

#### ALSO: HIRING TWO NEW STAFF:

- Aerosol scientist
- Air quality specialist/engineer

Details at: www.icimod.org/vacancies

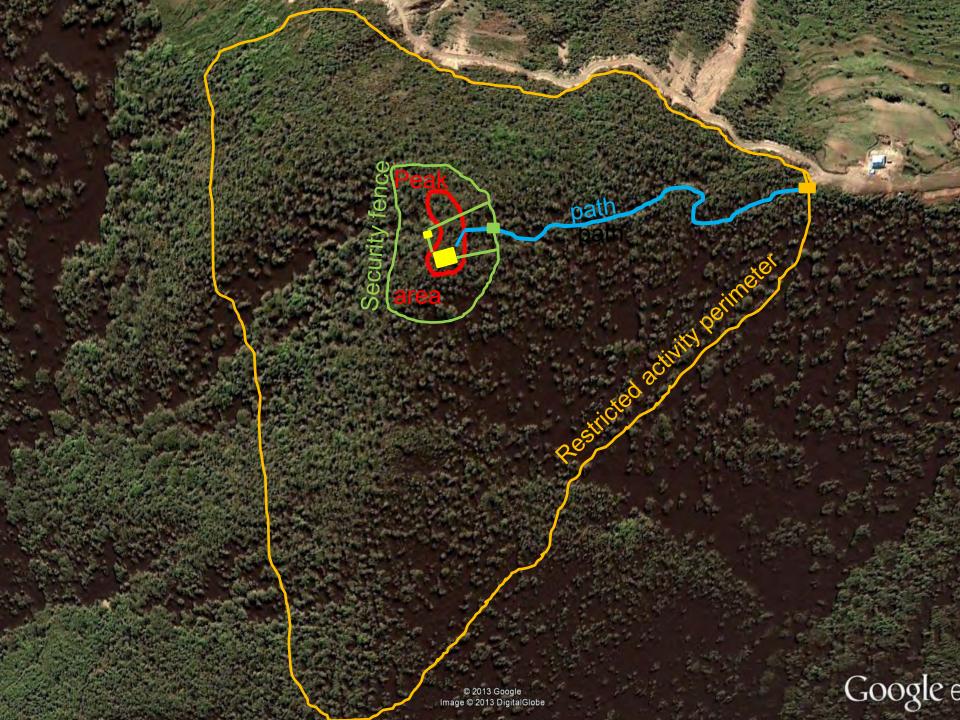
## Collaborations & Contributions to Policy

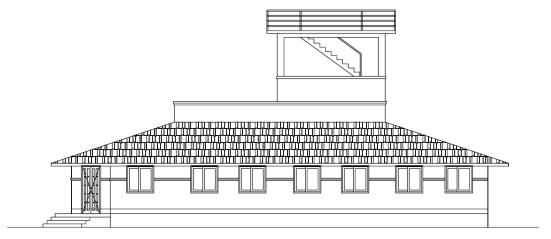
- Facilitating the creation of a network of scientists in the region collaborating across borders.
- Ministerial meetings, raising awareness about transboundary interdependences.
- Active membership in the Climate and Clean Air Coalition (CCAC).



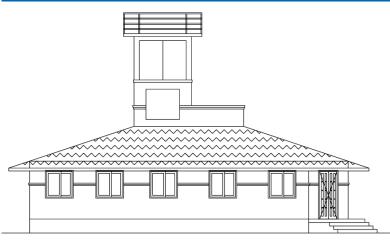




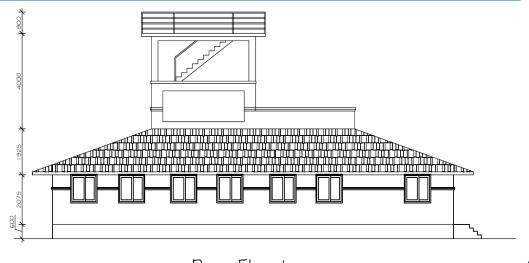




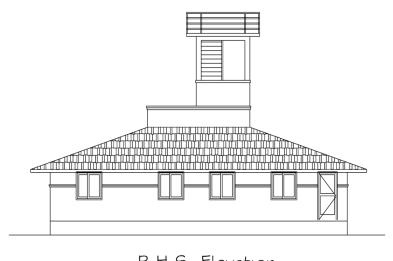
Front Elevation



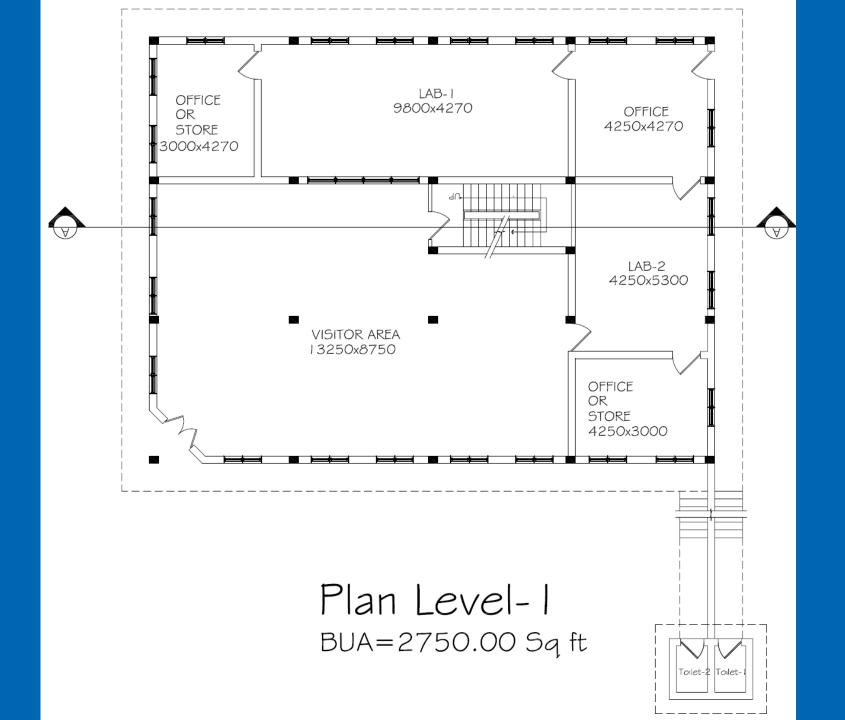
L.H.S. Elevation



Rear Elevation



R.H.S. Elevation



## The Atmosphere Initiative's contribution to science:



- Assess current atmospheric monitoring network across the Himalaya and identify gaps.
- Work towards a regional monitoring plan.
- Establish ICIMOD-initiated atmospheric observatories in collaboration with national partners.
- Organize field research campaigns.