

Understanding adaptation and mitigation strategies of Andean people

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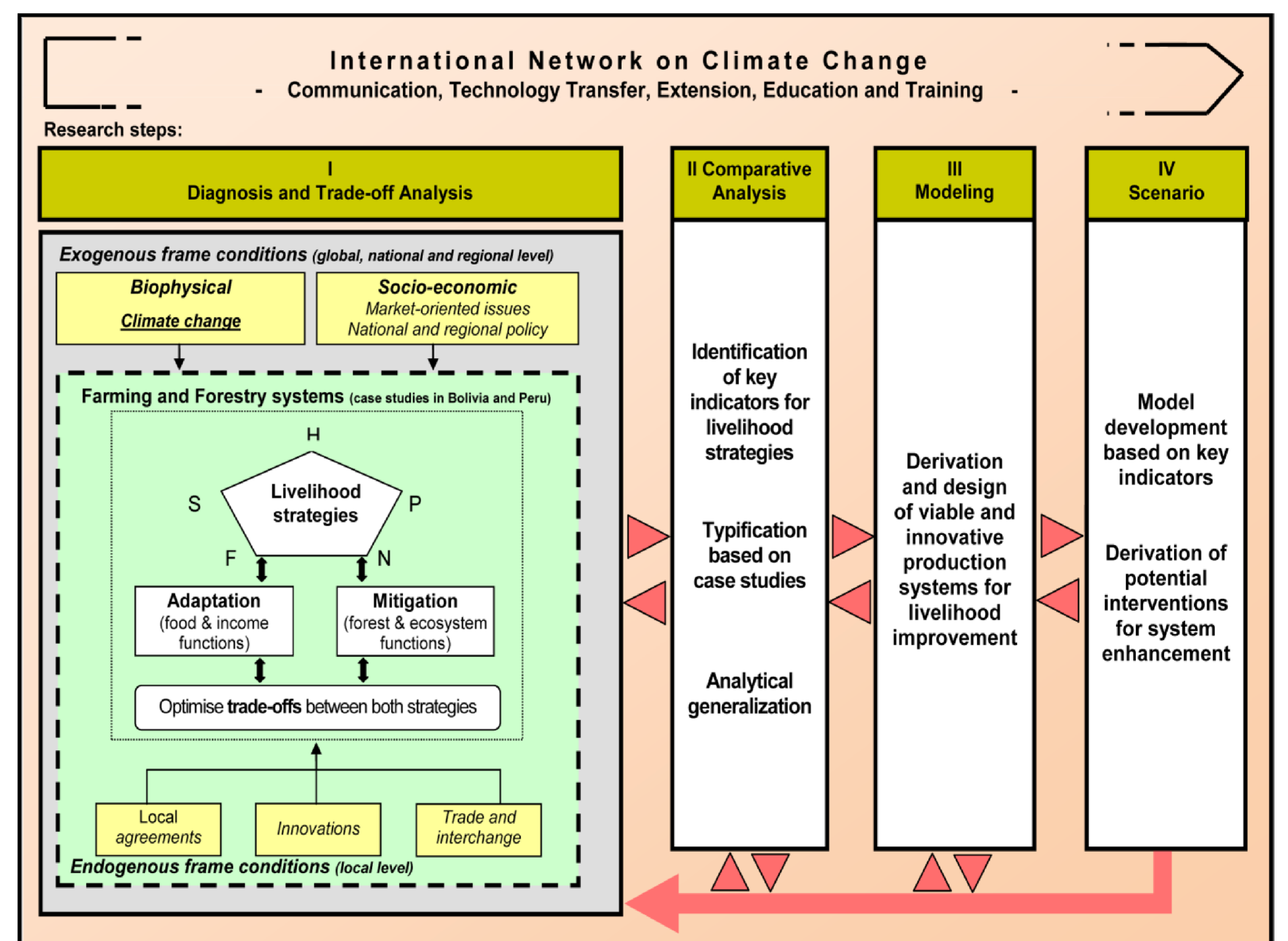
Global issues on a local scale

For people living in the tropical Andes, climatic change is not a problem of the future - it's already there. Countries like Peru and Bolivia are bearing the consequences of climate change, such as retreat of glaciers and extreme weather events, which are directly affecting crops, livestock, biodiversity, and, last but not least, increasing levels of poverty.

As traditional inhabitants of the tropical Andean Region, these farmers historically have had to cope with extreme daily temperatures, unpredictable weather events from one year to the next, and a diversity of environmental conditions scattered across the elevations. This has made locals aware of the recurrent diversity of climate related impacts and its consequences. Understanding these adaptations has become one of the most important focuses of research into climate change impacts and vulnerability, since it provides essential knowledge for developing and transferring strategies towards a sustainable management in agriculture and agroforestry.

Objectives

- To organize and integrate in a **Research & Development oriented network** of relevant stakeholders
- To conduct an **analysis of the biophysical and socio-economic factors** that influence livelihood strategies of traditional Andean farmers
- To compare case study outcomes in order to generate and **typify key indicators** for livelihood strategies and to comparatively assess trade-offs between the options that enhance food and income functions (**adaptation strategies**) and those options that enhance the ecosystem functions (**mitigation strategies**)
- To elaborate **models for the simulation** and planning of successful interventions in farming and forestry systems
- **Scientific exchange** of adaptation and mitigation strategies on climate change among local users, scientific community, state authorities, NGOs, as well as other relevant stakeholders in the tropical Andean region



General structure and research strategy

Upshot

The main intention of the International Network on Climate Change (INCA) is to understand the situation of local farming and forestry systems in the tropical Andes, deriving and testing livelihood strategies for small-scale farms and indigenous communities together with local actors, scientists, experts, and students. The network contributes to transfer of technology and knowledge among all members and bridges the gap between the global discourse on climate change and local action.



Field work and community participation in Peru (left) and Bolivia (right)