

Building Food Security through Agro-Met Innovative Advisory Services (AMIAS)

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Introduction

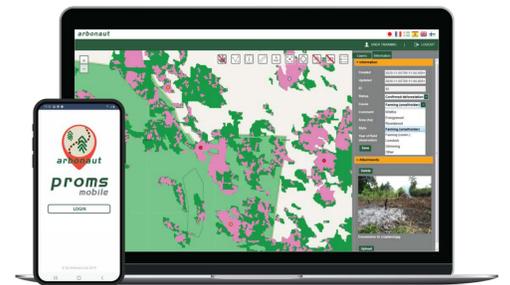
The weather forecast, information of diseases and pest control are widely available at the central level in Nepal but the access of farmers to such information is extremely limited. The proposed system (ProMS) allows to collect data from different sources and feed into a web-based/mobile app-based system to make them easily accessible to relevant stakeholder. The produced outputs will then support local authorities and farmers in the decision making. The local farmers can better plan and implement their day-to-day agricultural activities. Timely delivery of such information in an easily understandable form enhances the food security. Similarly, the planning and decision-making process of local authorities should be climate sensitive to save the people from climate crisis, make them develop and livelihood climate resilient.

Scope and main objectives

- The purpose of the project is to improve local farmers' livelihood as well as uplift their economic conditions (economic resilient) by helping them to produce climate adaptive quality products from their agricultural farms. Also, it directs the farmers to adopt informed farming practices.
- A web and mobile app-based ProMS platform will be developed to collect data from different sources, like available climate data from different ministries, weather data from meteorological services and in situ information collected through the mobile application by local authorities or farmers, to feed into the system.

Innovativeness

- Use of the ProMS System, which consists of a GIS web interface and a mobile application, is innovative.
- Other base map layers e.g. OpenStreetMap, satellite data, already existing local land use maps can be added into the System.
- The platform allows to integrate different services on a unique platform, where users are granted different levels of access to the data and functionalities.

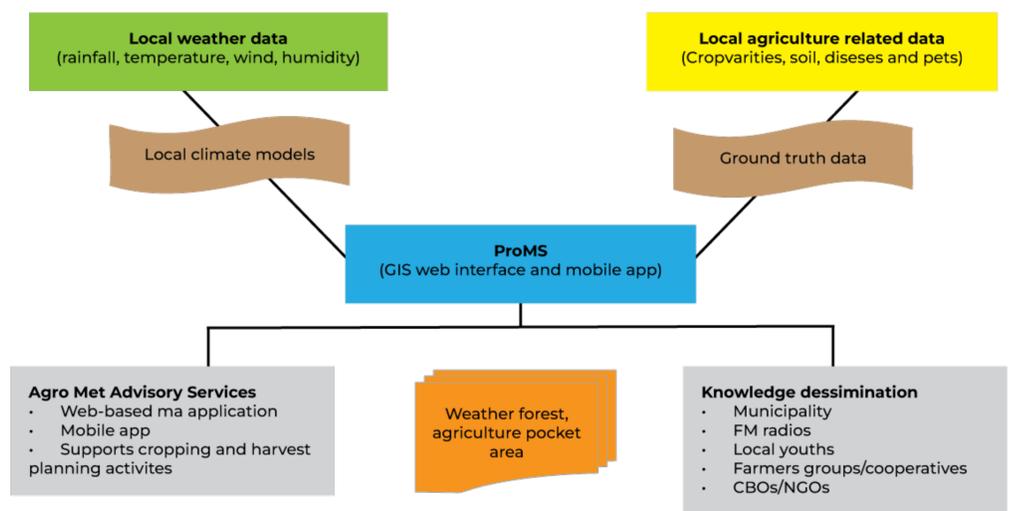


Study area



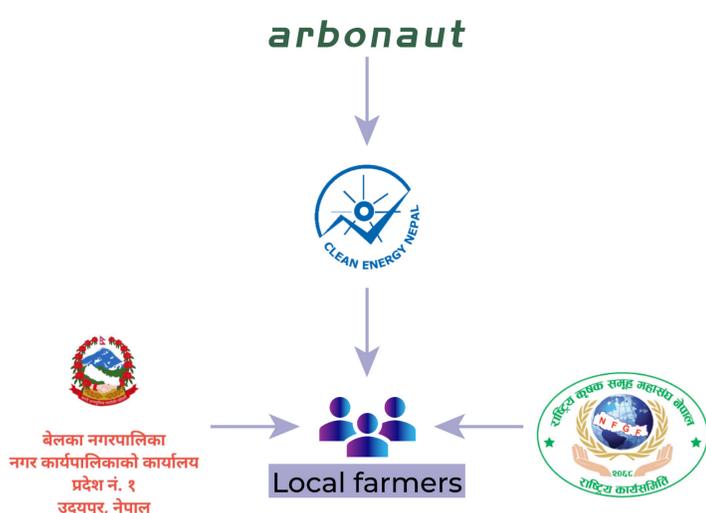
Study area (Belaka Municipality) in Nepalese Province No.1

Approach and methodology



Overall approach and methodology

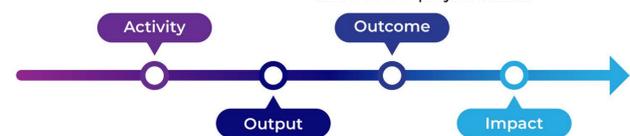
Project partners/stakeholder



Project partners and key stakeholder

Results framework

- Weather data collection
- Agriculture crops related data collection
- Feed data into ProMS
- Local farmers use ProMS for their day-to-day activities
- Increased awareness among farmers about climate adaptation
- Municipality, local youths and local FMs disseminate project results



- ProMS web and mobile app platform
- Weather forecast and advisory services
- Map layers
- Local farmers are resilient to climate change
- Local authorities are well-prepared for climate disasters
- Livelihood improvement of local farmers

Acknowledgement

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