



# INTEGRATING TRADITIONAL CROP GENETIC DIVERSITY INTO TECHNOLOGY: USING A BIODIVERSITY PORTFOLIO APPROACH TO BUFFER AGAINST UNPREDICTABLE ENVIRONMENTAL CHANGE IN THE NEPAL HIMALAYAS

## Objectives

- To contribute to the conservation of globally important crop biodiversity, which forms the basis for food security in areas of high environmental instability and variability;
- To mainstream the conservation and use of agrobiodiversity in the mountain agricultural production landscapes of Nepal to improve ecosystem resilience, ecosystem services and access and benefits sharing capacity in mountain ecosystems;

## Contribution towards SDGs

- **SDG 1 (1.1 and 1.4):** End poverty in all its forms through use of agrobiodiversity for local and national development
- **SDG 2 (2.1 and 2.4):** End hunger, achieve food security and improved nutrition and promote sustainable agriculture using traditional mountain crop biodiversity
- **SDG 2 (2.2):** Ensure healthy lives and promote well-being by promoting nutrient dense and climate resilient traditional crops.
- **SDG 13 (13.1):** Adopt and promote climate resilient diverse crops, varieties and agro ecological practices for adaptation to changing climate.
- **SDG 15 (15.5):** Halt local crop biodiversity loss and protect agroecosystems for ensuring livelihoods

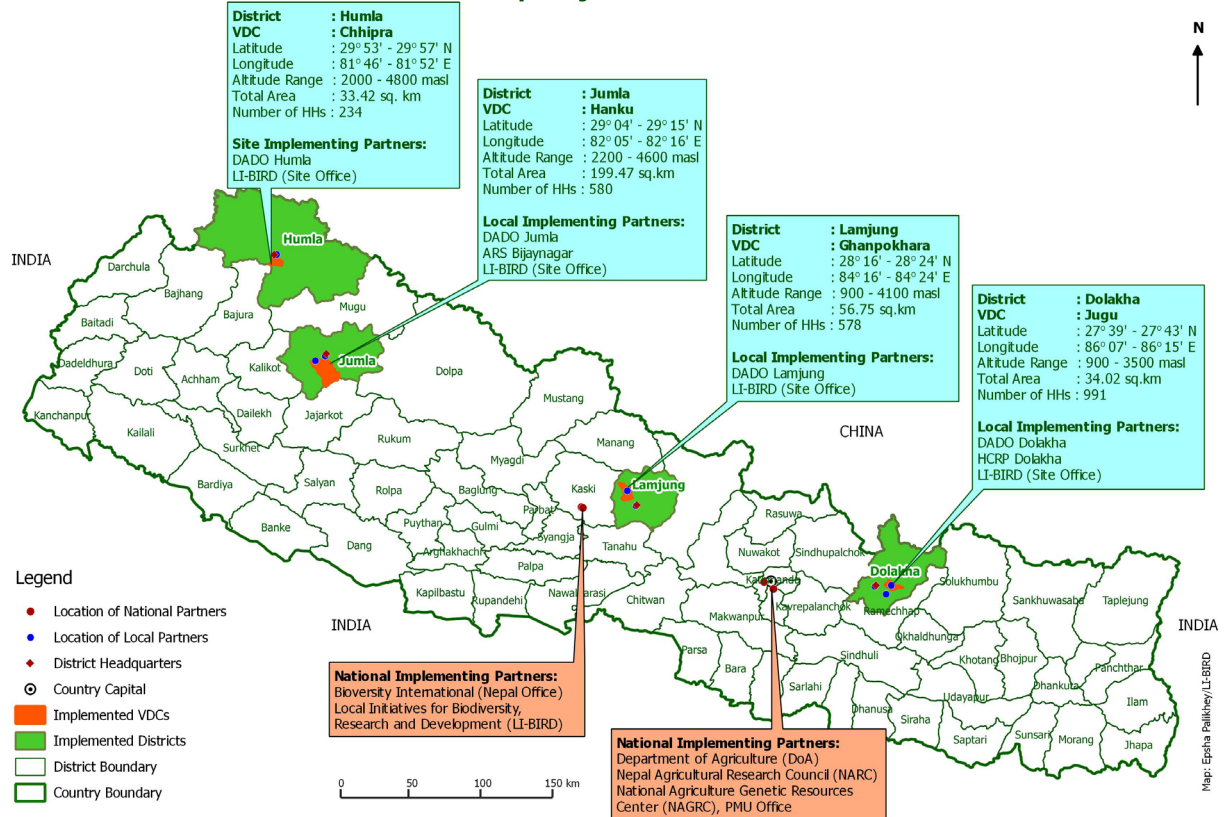
## Contribution towards Aichi Biodiversity Targets

- **Target 7:** Sustainable management of crop diversity mainstreamed through participatory approaches for sustainable conservation and wise use.
- **Target 13:** Crop genetic diversity maintained on farm and mainstreamed through value addition, targeted markets, improved local seed systems and community seed banks.
- **Target 14:** Traditional crops and their varieties adapted to low inputs and less use of chemicals for ecosystem services.
- **Target 18:** Traditional knowledge and innovation from the use of local crop biodiversity respected, documented and protected for the benefits of communities and country.

## Project results

- A total of 300 local varieties of 8 underutilized mountain crops are evaluated on-farm in partnership with local communities in mountain agroecosystems, out of which 60 superior and locally adapted ones are identified and promoted them to reach 16,000 farmers in 2018.
- Four community seed banks are established in four mountain agroecosystems to strengthen local seed system, conserve and use agrobiodiversity by mobilizing local communities, employing Diversity Field Schools (DFS) and linking with national Gene bank of Nepal
- Seven locally adapted varieties of amaranth, beans, finger millet, foxtail millet and proso millet are identified and selected through participatory variety selection and grass-roots breeding which are in the process of national listing and registration for enhancing access and benefit sharing.
- Project has piloted electric finger millet thresher cum pearler and developed /modified processing equipment for minor millets (proso millet pearler/dehusker) to enhance efficiency in processing, reduce drudgery of women and minimize cost of production in mountain landscapes
- Capacity of local communities and stakeholders are built in conservation and use of agrobiodiversity, improving ecosystem services and supporting livelihoods through production, processing and promotion of traditional underutilized mountain crop biodiversity.

## Integrating Traditional Crop Genetic Diversity for Mountain Food Security Local Crop Project - Site Information



**Further information:**  
[www.himalayancrops.org](http://www.himalayancrops.org)

**Contacts:**  
 Marieta Sakalian  
**UN Environment:**  
[Marieta.Sakalian@un.org](mailto:Marieta.Sakalian@un.org)

Devendra Gauchan  
**Bioversity International:**  
[d.gauchan@cgiar.org](mailto:d.gauchan@cgiar.org)



# 我们的产品



## 大数据平台

国内宏观经济数据库

国际经济合作数据库

行业分析数据库

## 条约法规平台

国际条约数据库

国外法规数据库

## 即时信息平台

新闻媒体即时分析

社交媒体即时分析

## 云报告平台

国内研究报告

国际研究报告

预览已结束，完整报告链接和二维码如下：

[https://www.yunbaogao.cn/report/index/report?reportId=5\\_14278](https://www.yunbaogao.cn/report/index/report?reportId=5_14278)

