

# DOCUMENTING DIVERSITY, MAPPING RESOURCES AND MAINTAINING DATABASES

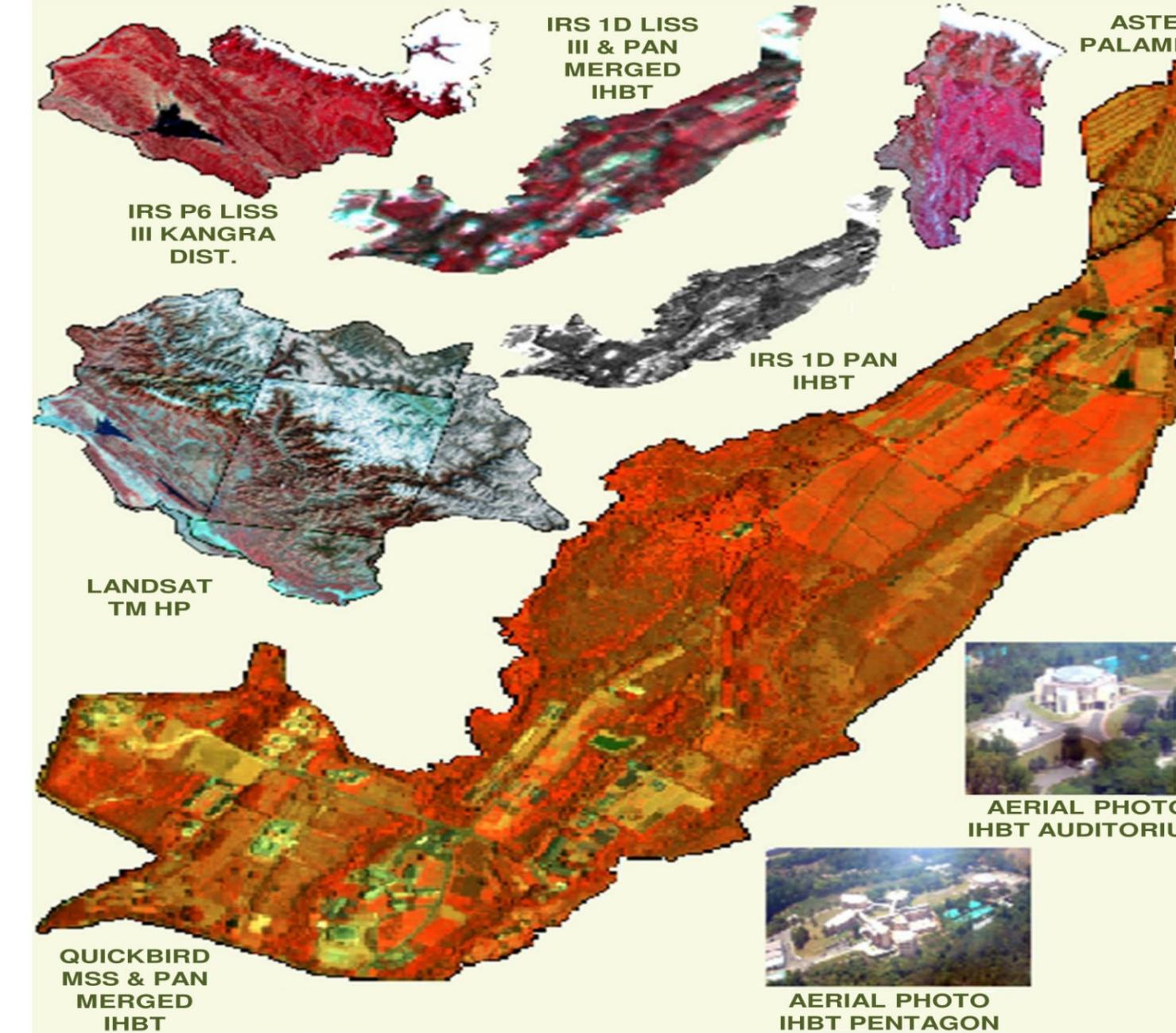
The biodiversity division of CSIR-IHBT is engaged in the crucial task of surveying, mapping and developing databases on the plant resources of the western Himalaya. The surveys have led to addition of species hitherto unreported from Himachal Pradesh. These, along with 1500 other species are housed in the internationally recognized herbarium of CSIR-IHBT (PLP). Sampling of plants has generated information on their current status and availability. Many interior valleys of Himachal Pradesh have been mapped using satellite images, and distribution maps of plant species have been prepared. Spectral responses of plants are also being recorded for the preparation of spectral library. All this information is being maintained in form of databases.



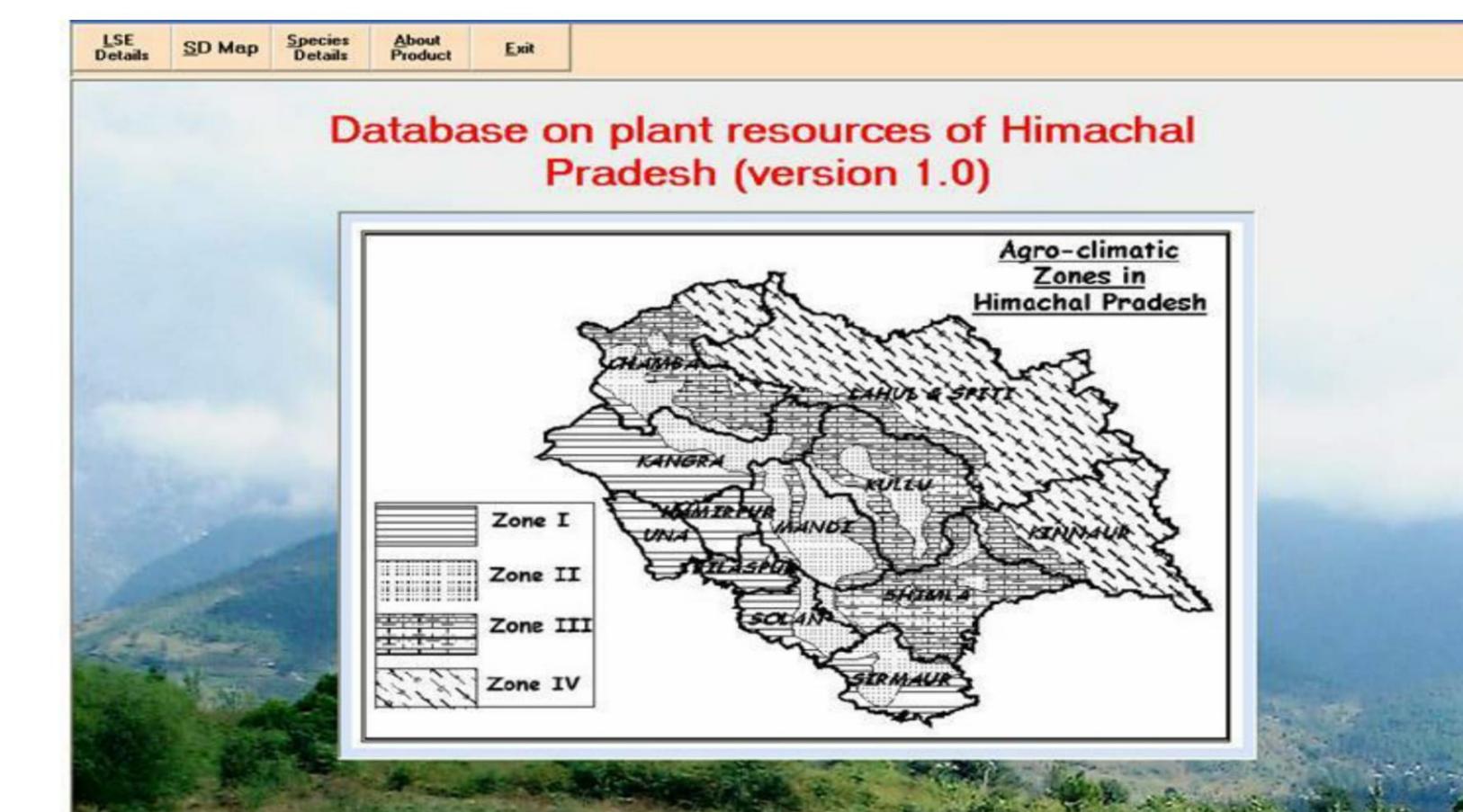
Surveys for generating information on bioresources



Plant sample collection



Satellite images of IHBT and Himachal Pradesh



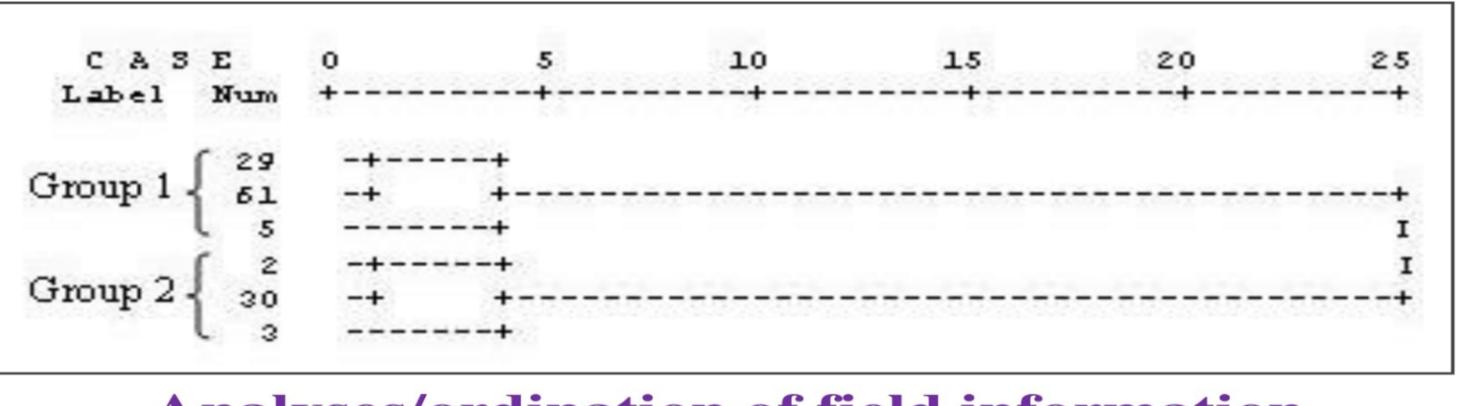
himFlorIS provides information on the taxonomy, distribution and population of plants. It also has information on the uses of plants



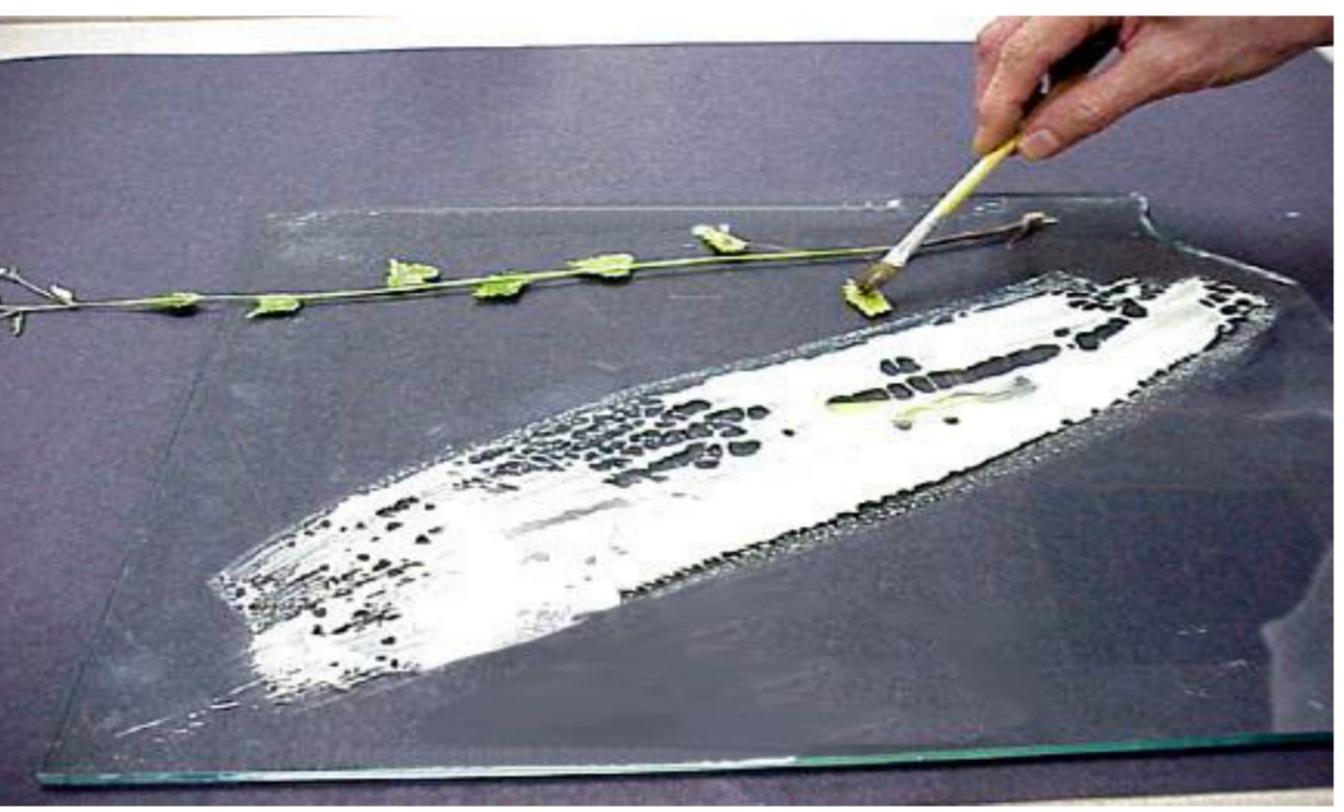
Sampling plants for their current status



Preliminary processing of samples in the field



Analyses/ordination of field information



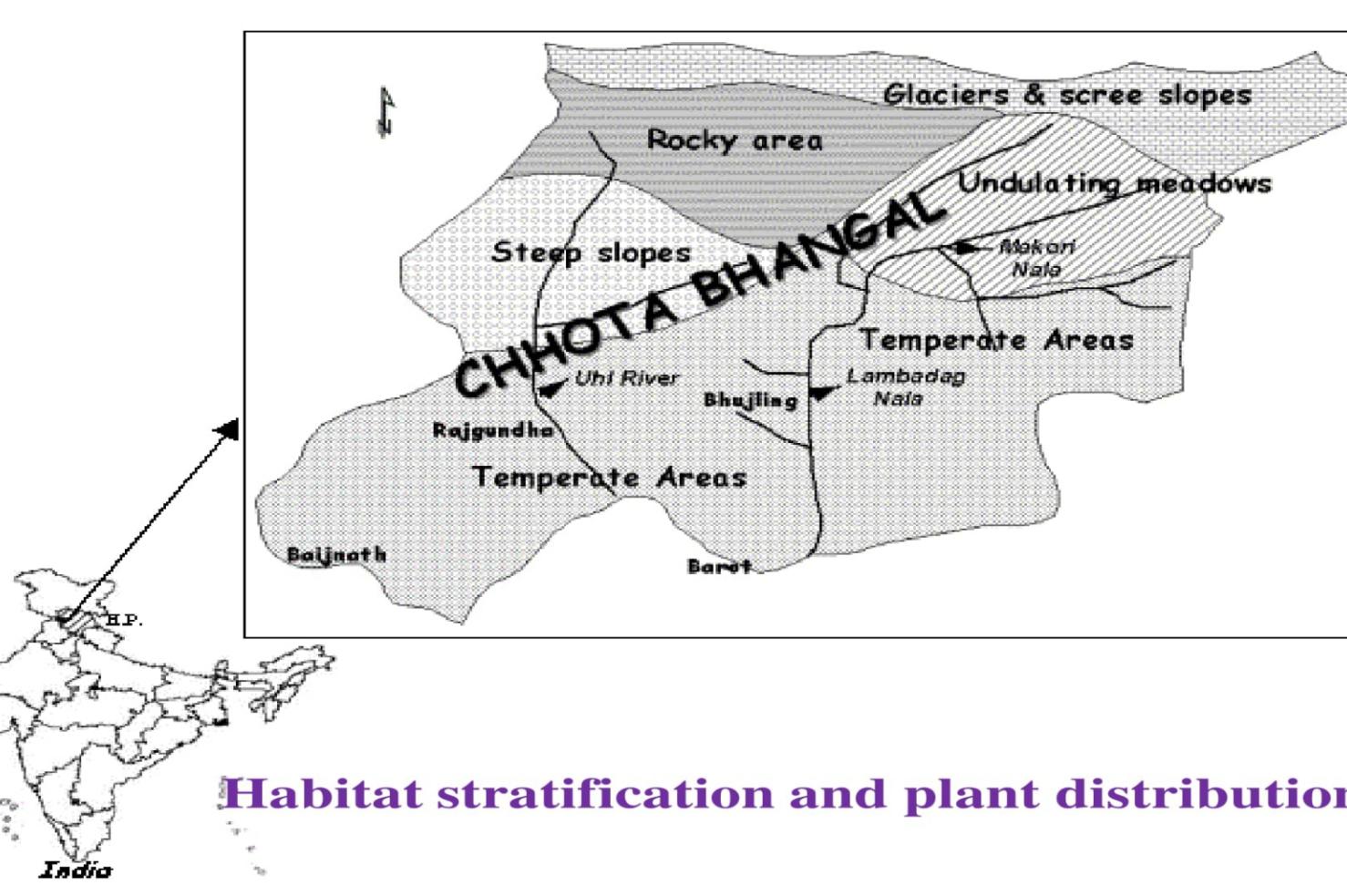
Mounting of plant specimens

| Species          | Steep Slopes | Rocky areas | Undulating Meadows |
|------------------|--------------|-------------|--------------------|
| A. heterophyllum | 3.7          | -           | 2.7                |
| B. stracheyi     | -            | 7.5         |                    |
| H. candidans     | 1.4          | -           | 1                  |
| J. macrocephala  | -            | 7           | 4.3                |
| P. hexandrum     | 0.1          | -           | 2                  |
| P. kurrooa       | 1.4          | 12.5        |                    |
| R. australis     | 1            | 0.5         | 5.3                |
| S. tenuifolium   | 3            | -           | -                  |

Population (no/m<sup>2</sup>) of plants in different habitats



IHBT herbarium is internationally recognized



Habitat stratification and plant distribution



Release of Herbarium catalogue by Prof. PK Dhumal (Hon'ble Chief Minister of HP)



Additions made to the Flora of Himachal Pradesh

Sapium sebiferum : an invasive species of major concern (Z= 7.28)

Unregulated extraction and field processing of medicinal plants

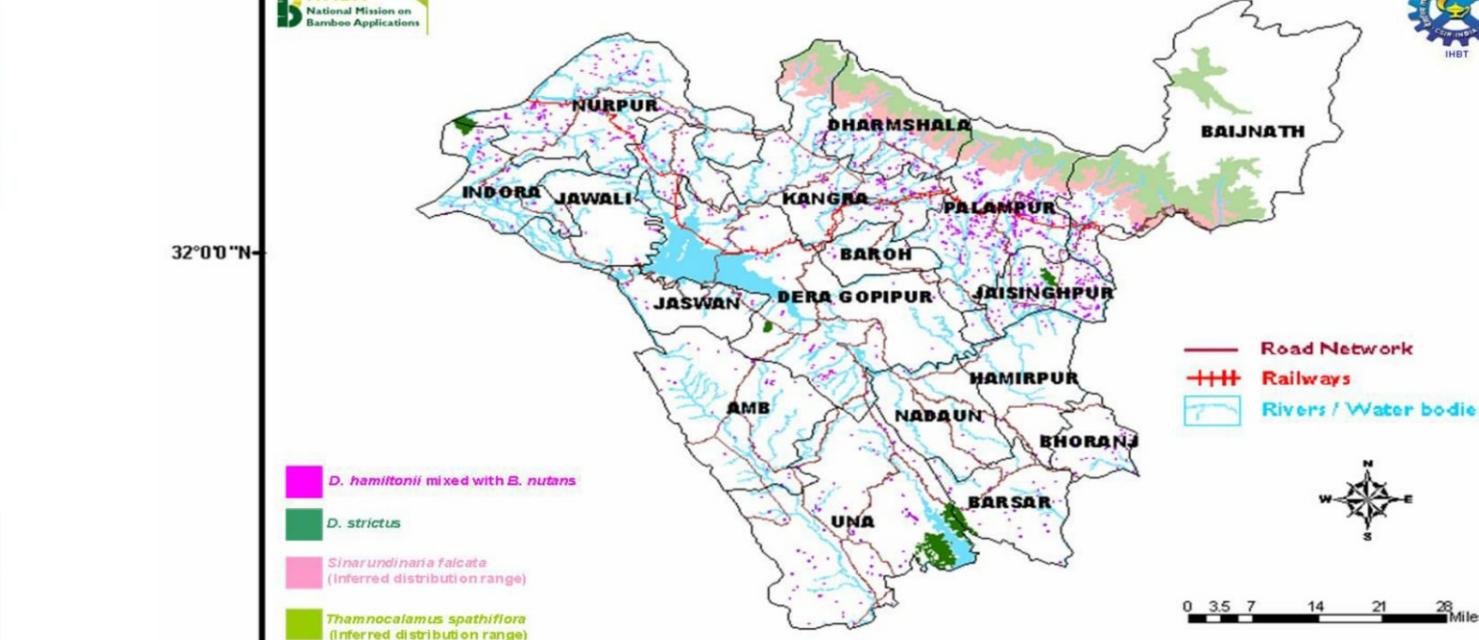


Spectral response of Cedrus deodara

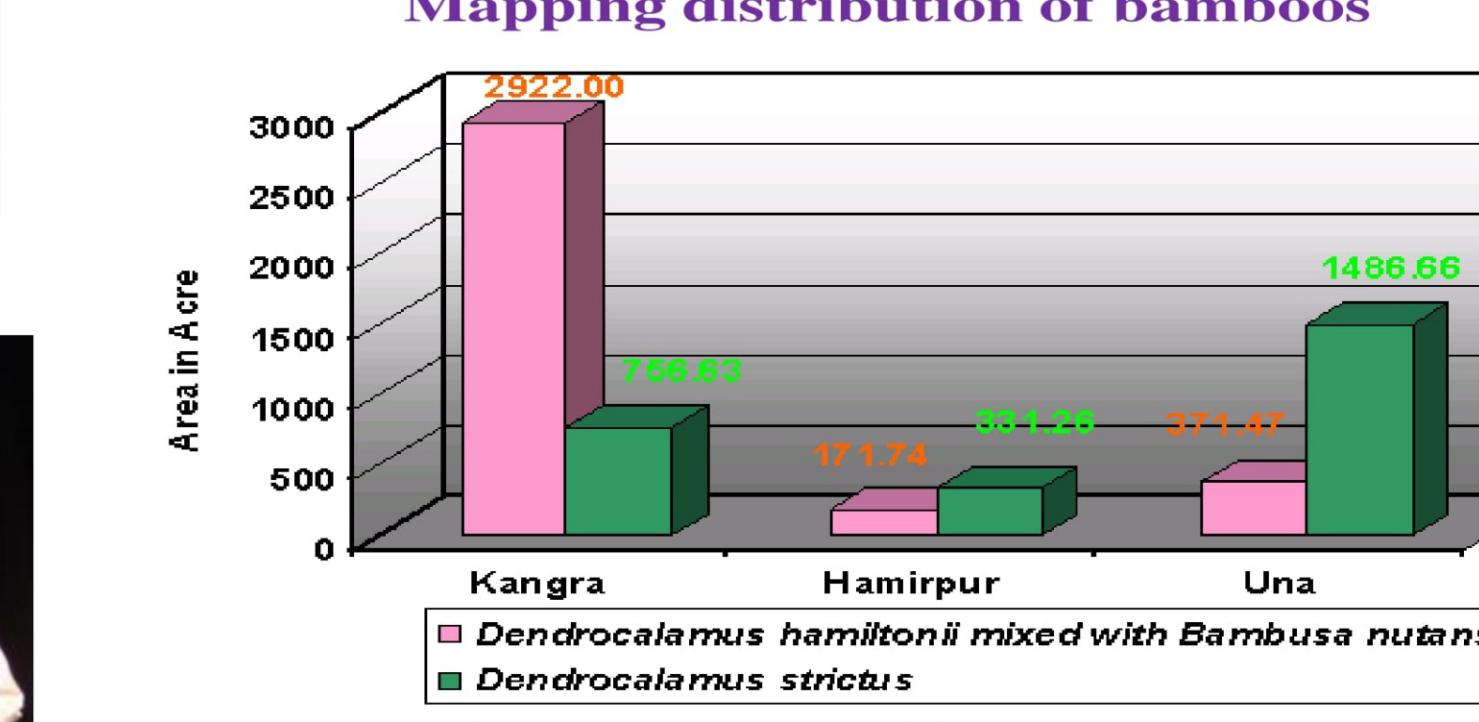
Landuse mapping of Solang Nalla, Himachal Pradesh

154.6 ha under apple in Spiti valley

Distribution of Apple orchards in the Spiti valley, Himachal Pradesh



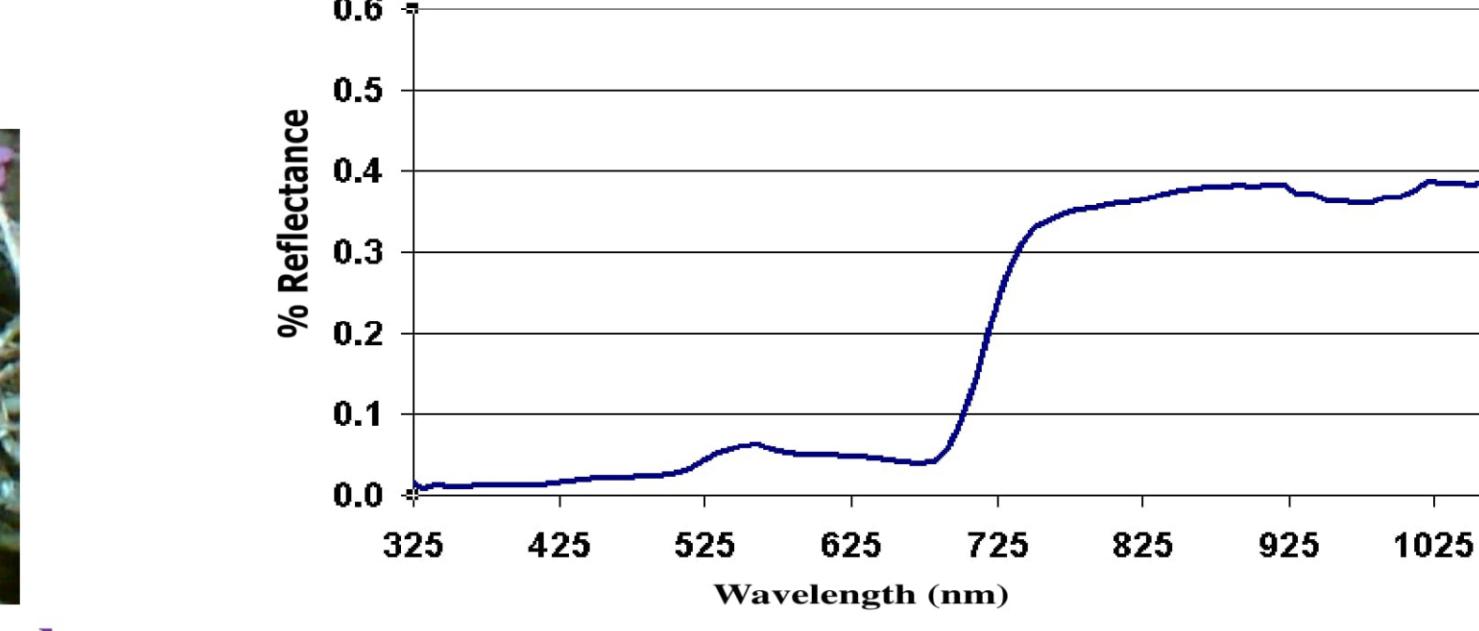
Mapping distribution of bamboos



Acreage estimation of bamboo



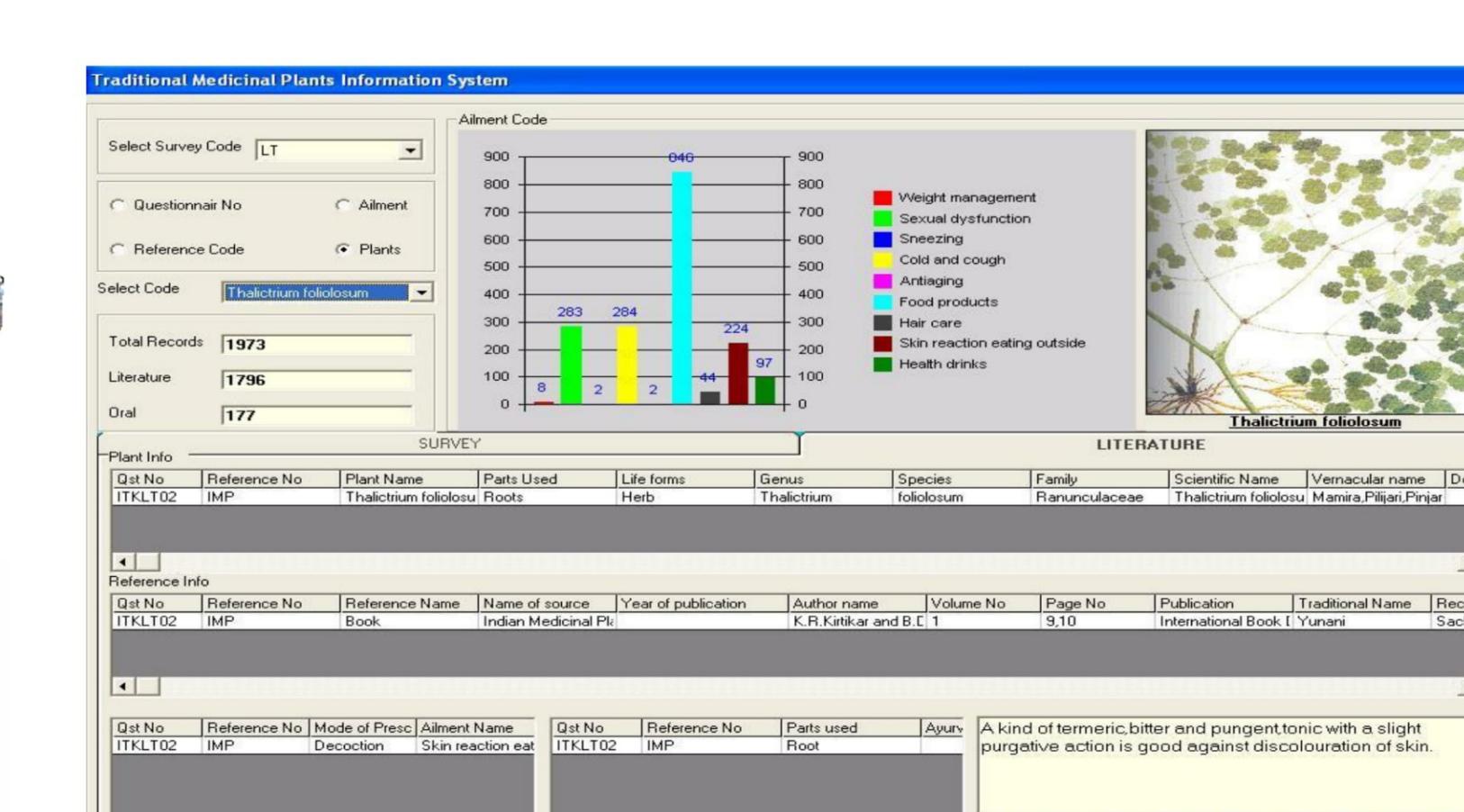
Creation of spectral library



Spectral response of Cedrus deodara



him-Padap-Sanklan is the digitization of the Flora of Himachal Pradesh



TRAMPI has information on the medicinal plants of Himachal Pradesh



This database has information on the threatened plants of Himachal Pradesh



Spectral responses of plants are being maintained in this database



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