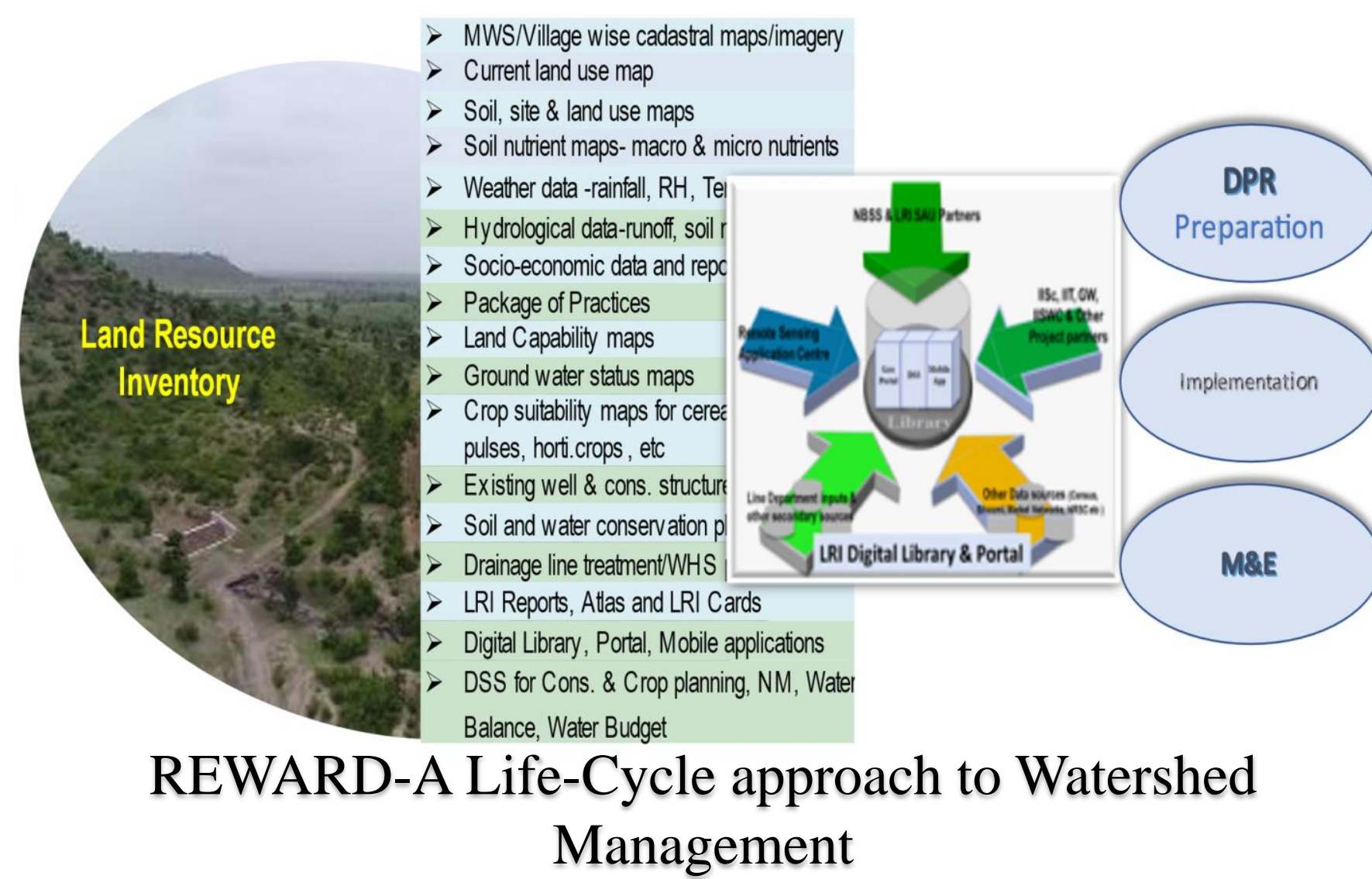




Orientation Training on REWARD Program 27-30th April, 2022



REWARD-A Life-Cycle approach to Watershed Management



Centre of Excellence on Watershed Management
University of Agricultural Sciences
GKVK, Bangalore -560065

Background

The University of Agricultural Sciences, Bangalore is a premier institute of learning, research and outreach activities. The National and International research projects implemented by the University have led to development of many technologies in different domains of Agriculture and pioneered many innovations on watershed development programs in the country. With the experience of successfully completing Rajanukunte, Kabbalanala and Mittimeri watershed projects for which the UAS (B) has received National Productivity Council Award and recently completed the most acclaimed World Bank supported SUJALA III project from 2013 to 2019, UAS (B) is well positioned to shoulder the responsibility of hosting the Centre of Excellence (CoE) on Watershed Management under the WB supported multi state REWARD program.

The CoE on Watershed Management is established to demonstrate and upscale the application of science based approach in Watershed development, impart training to the line departments, develop manuals, DSS, facilitate exchange of knowledge, dissemination of digital tools and outputs needed for mainstreaming LRI approach in the country.

Apart from training and capacity building the CoE will facilitate piloting of action oriented research on LRI based nutrient management, carbon sequestration and other emerging issues related to watershed management in the country.

About the training Programme

The REWARD Program is planned to strengthen the capacity of community and partner institutions in watershed management, develop science-based watershed development plans for implementation, enhance livelihood opportunities and support evidence-based monitoring and evaluation in selected watersheds of Karnataka and Odisha. The program has become effective from 24.03.2022 and under this program the Directorate of Soil and Water Conservation and Watershed Development (DSC&WD) has to cover about 5.33 lakh ha under Land Resource Inventory (LRI) and hydrological investigations, prepare detailed project reports and take up saturation treatment in 1.22 lakh ha spread over in 7 project districts of the state. To orient the project partners from the state and executives and consultants from the DSC&WD and DoLR and other stakeholders the program is organized at the CoE.

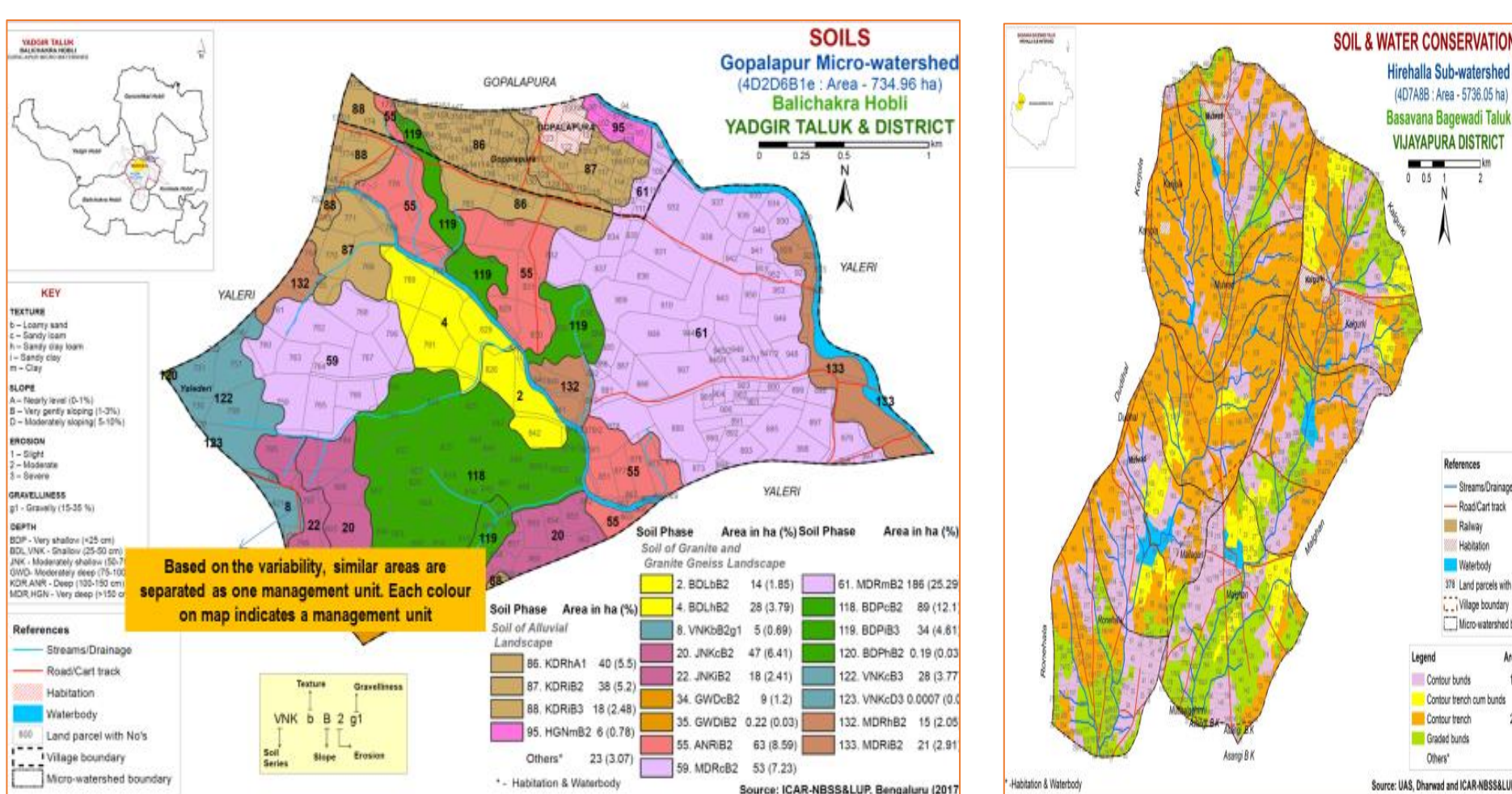
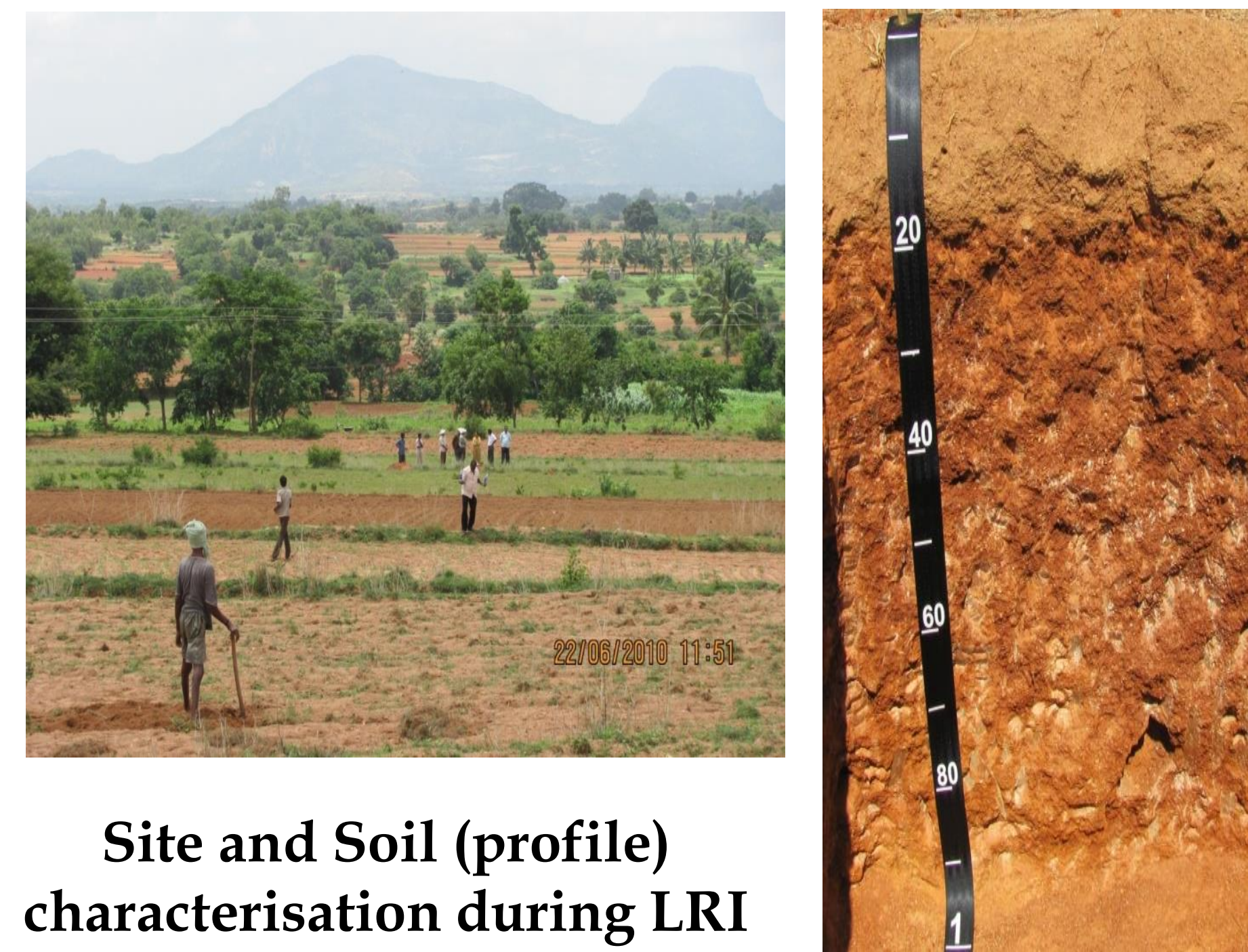
The Orientation Program will share not only the experiences of the successfully completed World Bank supported Karnataka Watershed Development Program-II (KWDP-II), but also cover the whole gamut of topics related to watershed management like the generation of LRI and hydrology databases with the use of high resolution remote sensing data; generation of thematic maps on the constraints, potentials, suitability for various uses, development of DSS for soil and water conservation planning and other interventions development of digital library and portal for storage and dissemination of the LRI and hydrology databases and DSS; development of DPRs, convergence of line department programs: monitoring, evaluation and institutional strengthening.

Course Duration and Structure

- Four days from 27/04/2022 to 30/04/2022
- 3 days of hands on training on the role of LRI, hydrology, DSS, DPR, Portal and capacity building in watershed management
- One day field visit to the watershed areas
- One session on assessment of training with participants.

Content of the Training in brief

- 1) Land Resource Inventory-**
 - Pre-field activities like base map preparation use of high-resolution imagery, image interpretation, etc
 - Field investigations - traversing, transect selection, profile study, grid survey, soil sampling, soil mapping, mapping land uses, existing structures, wells, etc.,
 - Post field activities -laboratory analysis, processing field data through GIS and preparation of soil and thematic maps.



2) Hydrological data interpretation

Weather and climatic data, selection of methods/models for interpretation, assessment of growing period, ET, soil moisture, ground water, runoff, water balance and water budget, integration in DPR.

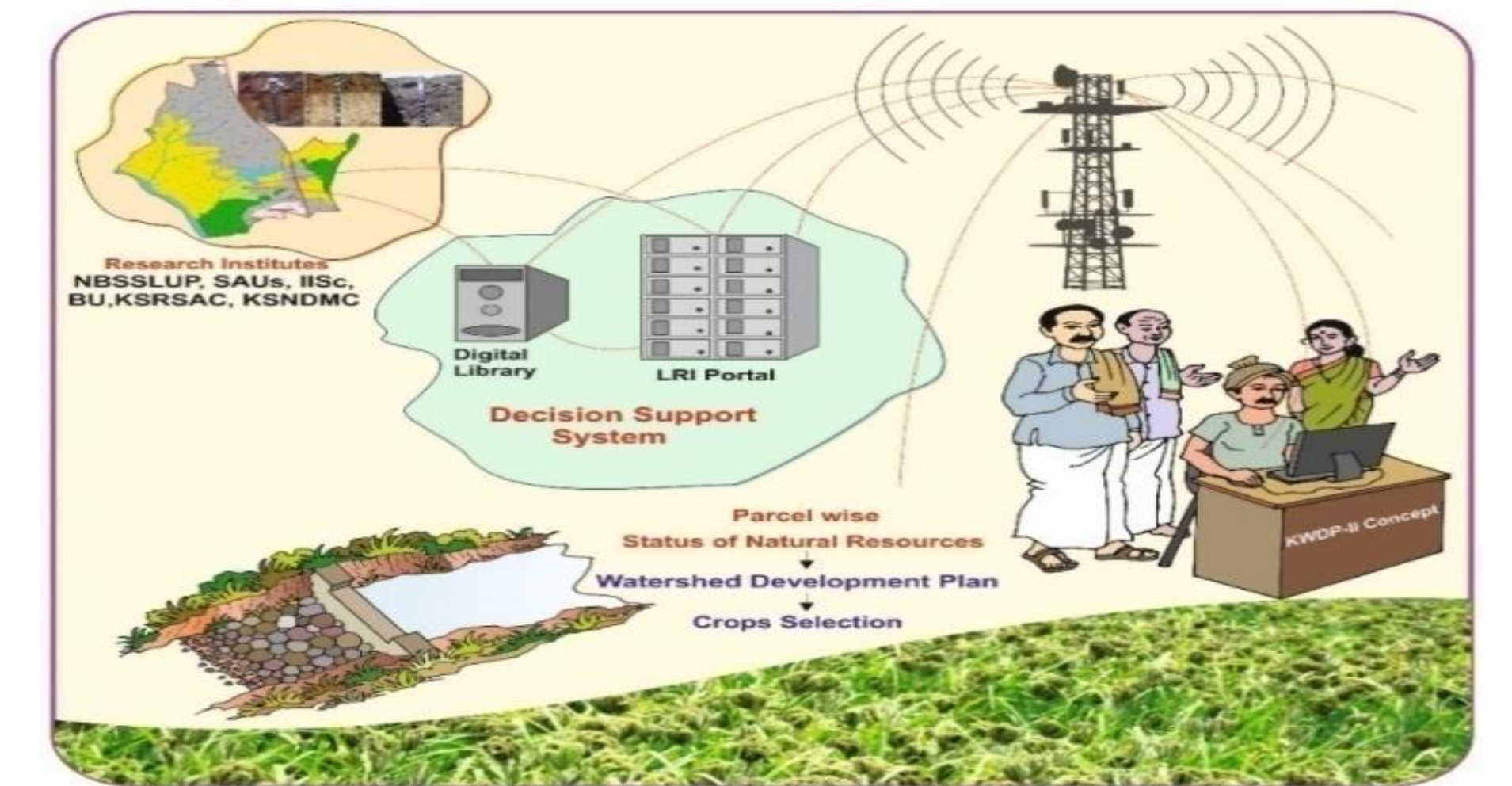


3) Development of Models/DSS

Development of criteria, protocols, models, flow charts for DSS on soil and water conservation, crop selection, nutrient management, runoff, water balance, water budget etc

4) Role of Portal in program implementation

Data and map layers in DL and generation of thematic maps, conservation plan, crop plan, nutrient management plan etc, preparation of DPR, development of advisories, program convergence, mobile applications.



5) Development of DPR

Datasets and maps needed, role of partners, DSC, NGO's, GPs and others in the preparation of DPR, development of draft DPR, validation, updating and finalization of DPR, implementation, training needs and capacity building.

6) Training and Capacity Building

Training needs of different stakeholders, training of Master trainers, role of CoE.

7) Monitoring & Evaluation Collection of baseline data, instruments /equipment/sensors planned to be used, mode of data collection, role of model watersheds and benchmark soils, baseline, midline, and end line monitoring and impact assessment.

Travel and Accommodation

The participants will be provided with suitable lodging and boarding facilities in Bengaluru. However, they have to bear the expenses related to lodging and travel (to and pro) from their point of origin.

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