Department of Science & Technology
Ministry of Science & Technology
Government of India
NMSHE NATIONAL MISSION FOR SUSTAINING THE HIMALAYAN ECOSYSTEM

Sher-e-Kashmir
University of Agricultural Sciences
& Technology of Kashmir
Main Campus, Shalimar, Srinagar -190025

Brainstorming Session on Remote Sensing & GIS Based Land-use Suitability for Agriculture and Urban Planning in J&K

Date: September, 3 & 4, 2024

Venue: Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir, Shalimar 190025

Organized By: Division of Soil Science, Faculty of Horticulture, Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir, Shalimar 190025

BACKGROUND:

The poor agricultural growth in Jammu and Kashmir is primarily due to the unscientific selection of crops for specific lands. Farmers often do not cultivate crops based on land suitability, frequently converting croplands without understanding the precise suitability of crops for their land. This practice leads to significant yield losses and contributes to soil erosion, floods, and unplanned urbanization.

Furthermore, discrepancies in data maintained by different departments regarding total land distribution, water bodies and irrigation resources, land under different crops, poor soil health, and flawed urban planning exacerbate these issues. Faulty urban planning resulting from a lack of coordination among various agencies, inadequate infrastructure, and insufficient consideration of environmental impacts often leads to inefficient land use, increased pollution, and a higher vulnerability to natural disasters.

This brainstorming session aims to address these challenges by exploring the potential of remote sensing and GIS technologies in assessing land-use suitability for agriculture and urban planning. By leveraging these advanced tools, we can provide more accurate and reliable data to inform land-use decisions, ultimately leading to better crop selection, improved agricultural productivity, and sustainable urban development.

ABOUT EVENT:

This two-day brain storming session is essential for promoting sustainable development in Jammu and Kashmir, focusing on the use of remote sensing and GIS in land-use suitability for agriculture and urban planning. The workshop aims to unite government officials, environmental experts, community leaders, and academics to develop integrated, sustainable, and economically viable land use strategies. Through collaborative discussions, it seeks to enhance local capacities, encourage community involvement, and facilitate the exchange of innovative practices and technologies.

By providing precise data and insights, remote sensing and GIS technologies can help farmers choose the right crops and guide urban planners in making informed decisions. This event provides a platform to review and improve existing policies, explore new opportunities in eco-tourism and sustainable agriculture, and ensure the conservation of natural resources. Participants will contribute to a comprehensive action plan, empowering them to implement sustainable practices and help Jammu & Kashmir towards a prosperous future.

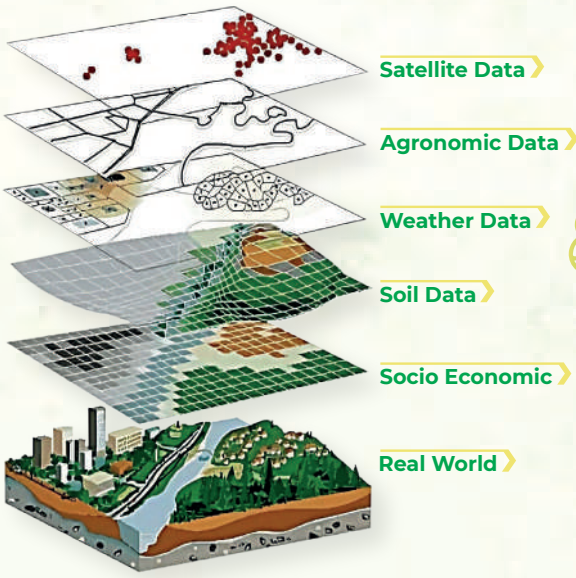
THEME:

Brainstorming Session on Remote Sensing & GIS Based Land-use Suitability for Agriculture and Urban Planning in J&K.

SUB-THEMES

1. Remote Sensing and GIS in Agriculture Land Use Planning.
2. Soil Mapping for Sustainable Soil Health Management and Precision Agriculture.
3. Smart Urban Growth: GIS-Drivcen Land-Use Suitability for Sustainable Cities.
4. Vegetation and Green Space vis-à-vis Infrastructure Planning.

AGRICULTURE AND URBAN DEVELOPMENT THROUGH GEOSPATIAL TECHNOLOGY



1. **Precision Agriculture**
   - Optimized Crop Management: mapping soil and crop health.
2. **Sustainable Land Use**
   - Efficient Land Allocation: Crop-Land Suitability.
3. **Disaster Management**
   - Early Warning Systems: floods, droughts, and pest infestations.
4. **Water Resource Management**
   - Irrigation Planning: efficient planning and management.
5. **Urban Planning and Infrastructure Development**
   - Smart City Development: roads, schools, hospitals, and utilities.
6. **Economic Growth and Livelihood Improvement**
   - Enhanced Productivity: economic growth.

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