

# **GIS in Sustainable Agriculture**

# Geographical information system could be effectively for

## 1. Sustainable agriculture could be achieved by

- Identify unplanned agriculture practices
- Areas of overuse of natural resources

## 2. Smart agriculture is to 1)increase productivity; 2) resilience (adaptation) & 3) reduces GHG (mitigation)

## 3. Adopt Agriculture practices

- Crop area assessment
- Management of water resources
- Identification of pest attacks and diseases
- Crop area & yield assessment
- Land suitability analysis
- Disaster management
- Precision agriculture

## 4. Prepare a Sustainable plan

- Regional specific management plan
- Effective use of technology
- Preservation of natural system
- Degradation of land & environment
- Reduction in crop yield
- Environmental pollution
- Human health hazards
- Natural disaster

**Thank You**