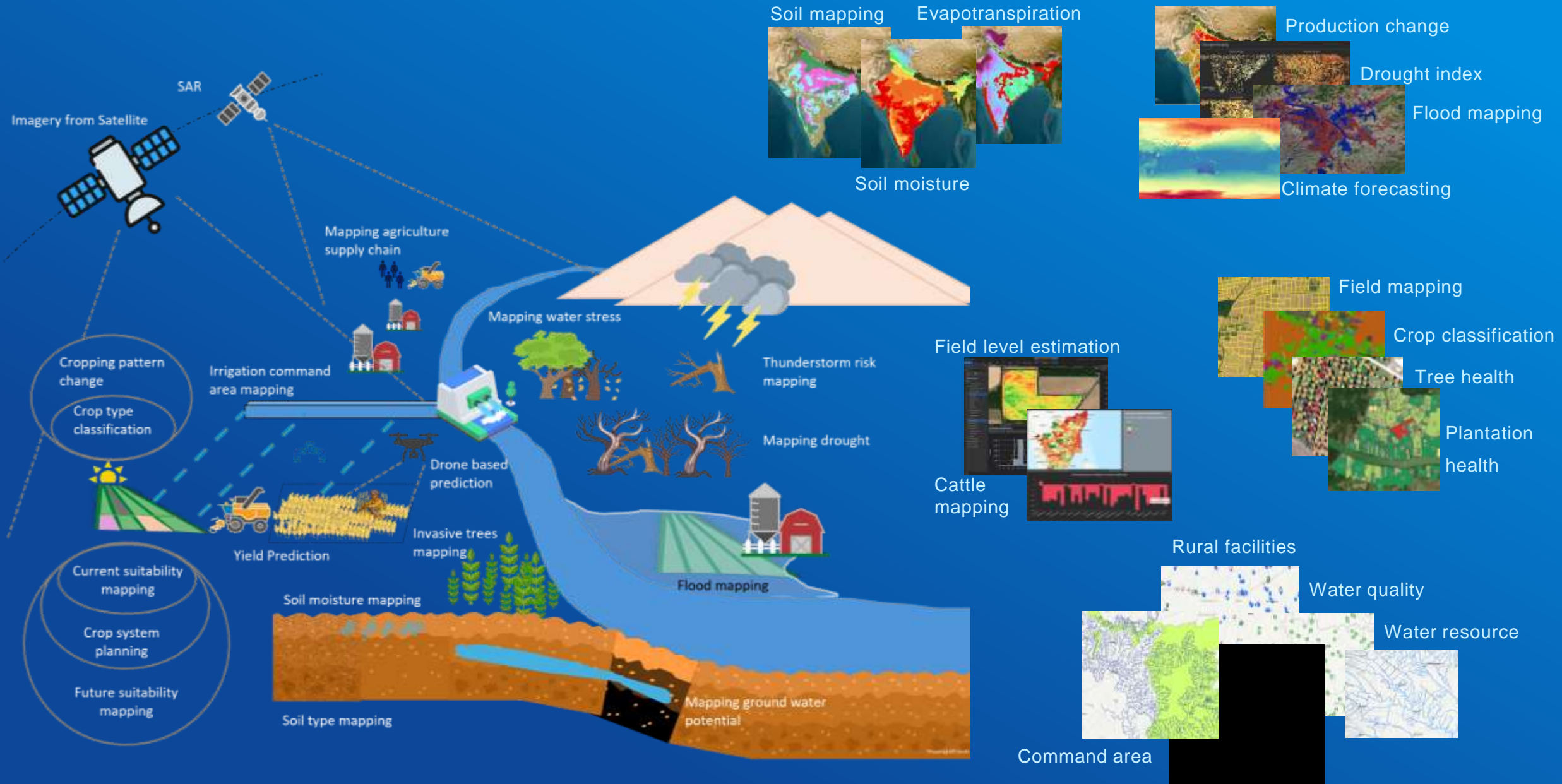


Agri-Logistics & Market Intelligence From Harvest to Consumer

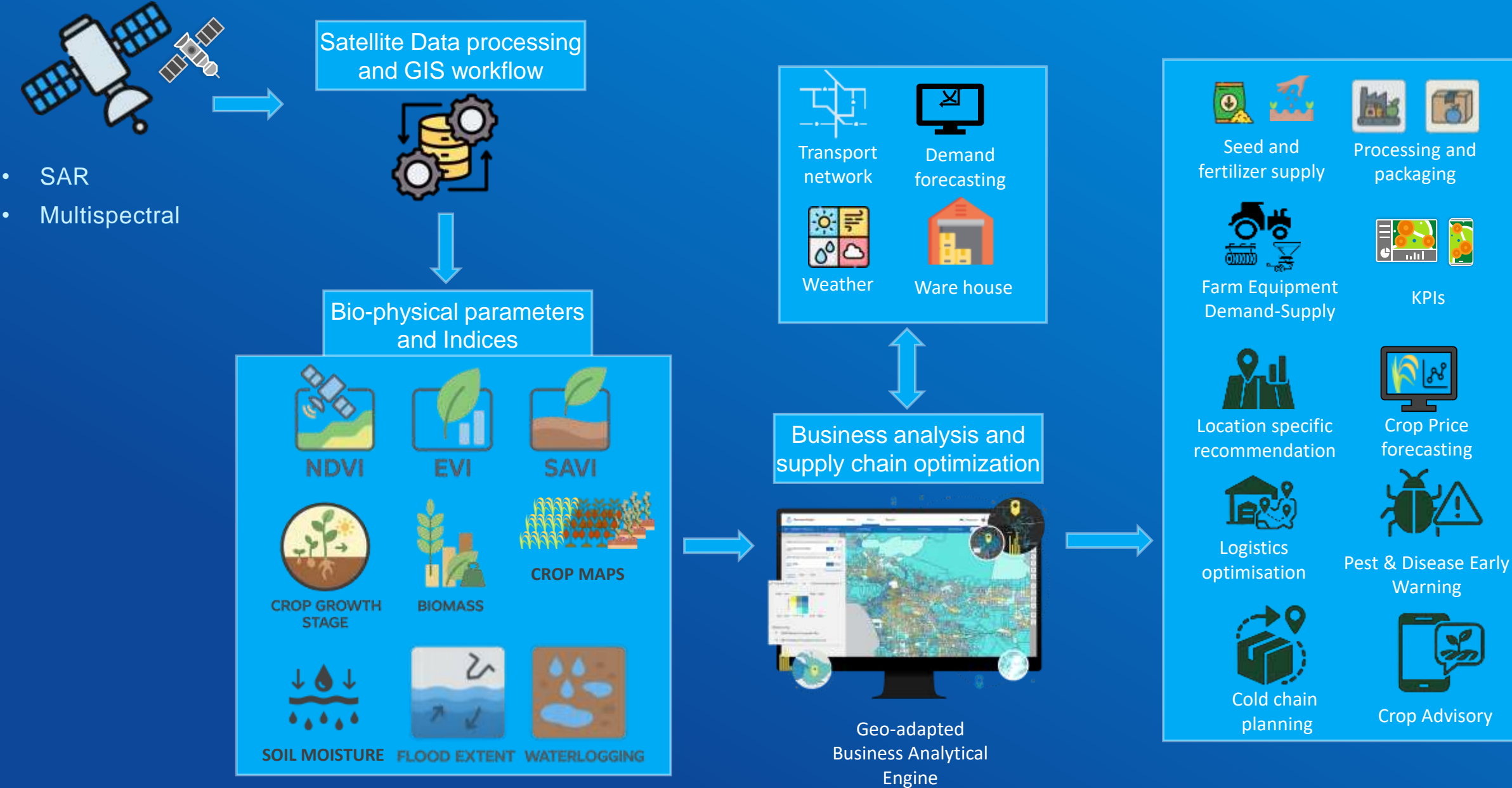
Vijay Kumar
Senior VP and CTO
Esri India



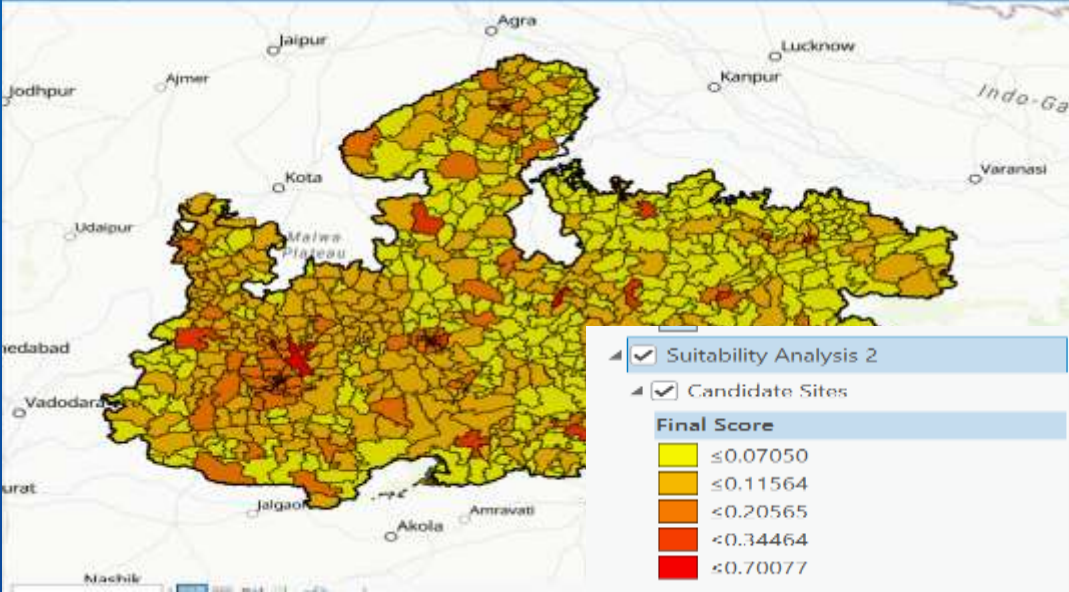
Spatial Data – The Backbone of Modern Agriculture



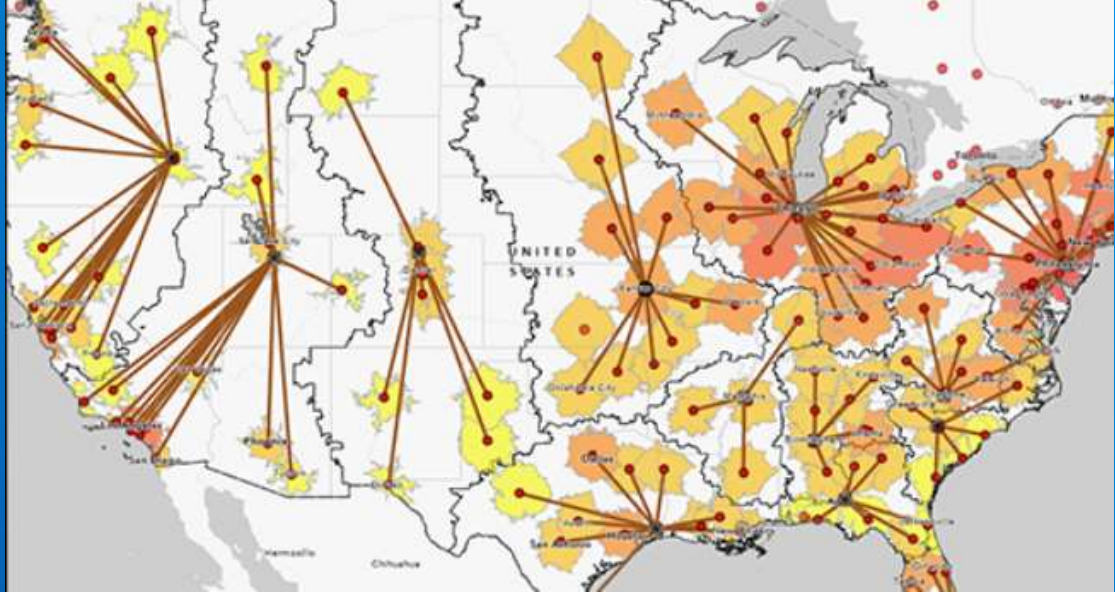
Pillar 1: Geospatial and AI Platform for Agriculture



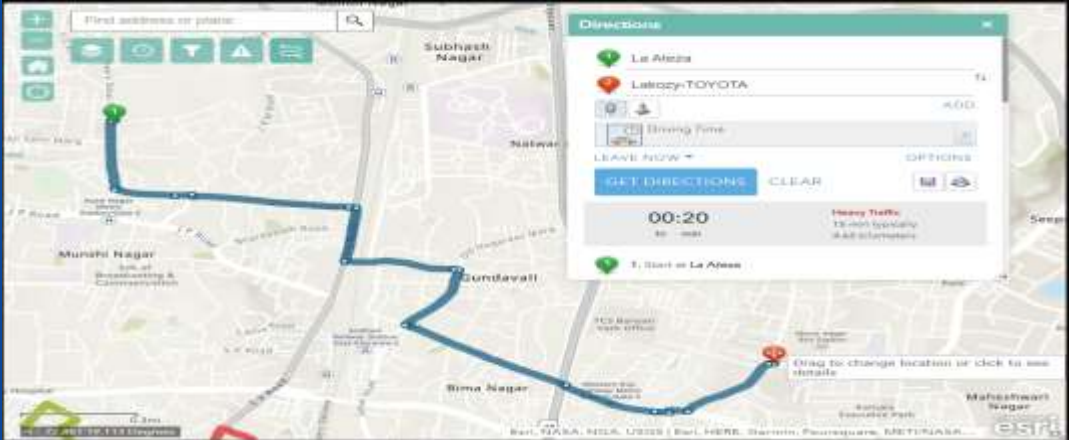
Agri Marketing and Supply Chain



Identify Areas suitable for specific Agri product



Supply Chain Mapping



Last Mile Connectivity



Sales Territory Optimization

Pillar 2: Open Data and AI Models

ArcGIS Living Atlas of India

Imagery

2025 High Resolution Imagery updates



POI & Places

More POI & Places integrated into Basemaps



Esri 3D Basemaps

Detailed Buildings & Terrain Data



DIGIPIN

Transforming addresses for Digital India



GeoAI Models - Pretrained & Ready to Use

- Cars
 - License Plate Blurring
 - Parking Lots
 - **Land Cover**
 - Parking Spots
 - Humans
 - Crowd Counting
 - Face Blurring
 - **Buildings**
 - Roads
 - Parcels
- Ag Fields
 - Swimming Pools
 - Well Pads
 - Oil Spills
 - Palm Trees
 - Power Lines
 - **Transmission Towers**
 - Insulator Defects
 - Wind Turbines
 - Solar Arrays
- Solar Panels
 - Ships
 - Shipwrecks
 - **Segment Anything Model (SAM)**
 - Trees
 - Plant Leaf Disease
 - Common Object Detection
 - Text Parsing from Photo
 - **Object Tracking**

- new**
- Canopy Height Estimation
 - **Hugging Face Hub Integration**
 - Depth Anything
 - **Prompt-Based Segmentation**
 - Pedestrian Infrastructure Classification
 - Wildfire and Smoke Classification
 - Wildfire Delineation
 - **Damage Classification**

- **TextSAM**
- CLIP Zero-Shot Classifier
- GroundingDINO
- Damage Assessment (Drones)
- **Map Simplification**
- Edge Detection
- **Vision-Language Context-Based Classification**
- Building Point Classification
- Building Change Detection



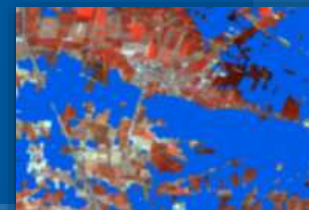
Change Detection Buildings

Cars (SAM)



Clouds

Flood Segmentation



Building Footprints



Crop Classification (Prithvi)



Map Simplification



Land Cover

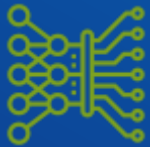
... Automating Workflows
 ... Creating New Data Layers

Pillar 3: Skilling and Capacity Building

GeoAI Lab and Sandboxing for R & D



For hands-on learning



AI and ML Tools



GIS Platform



Spatial datasets

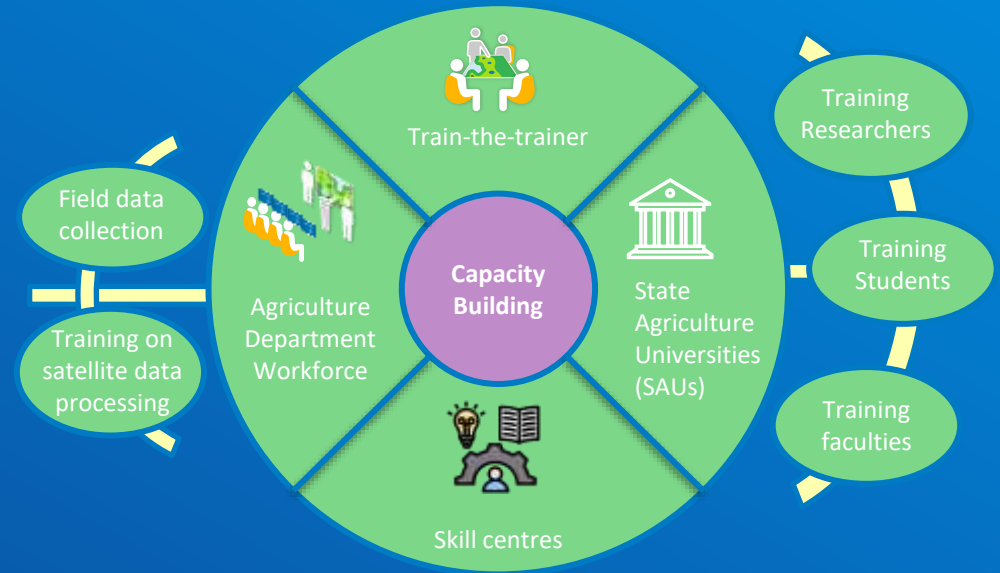


Knowledge Platform

Regional and global networking



Geospatial Centre of Excellence for Agriculture
Develop, Train and Support



University centric



Krishi Vigyan Kendra





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Getting Started



ArcGIS Products



Data Management



Mapping



Spatial Analysis &
Data Science



Field Operations



Scripting &
Development



Imagery & Remote
Sensing



3D Visualization &
Analytics



Thanks



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