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# Integration of Remote Sensing Technology for Smart Agriculture System

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**Abstract:** Remote Sensing (RS) technology has revolutionized modern agriculture by providing tools for precise, data-driven farm management that enhances productivity, sustainability, and resilience. In the context of smart agriculture systems, RS enables real-time monitoring of crop health, soil conditions, water availability, and climatic factors through satellite imagery, drone surveillance, and aerial sensors. This wealth of spatial and temporal data allows farmers and agricultural stakeholders to make informed decisions regarding irrigation scheduling, fertilizer application, pest and disease control, and yield prediction, ultimately leading to optimized resource utilization and reduced environmental impact. By integrating RS data with advanced technologies like Geographic Information Systems (GIS), Internet of Things (IoT), Artificial Intelligence (AI), and Big Data analytics, smart agriculture becomes more adaptive and efficient. The applications of RS extend from large-scale land use and crop classification to field-level soil moisture assessment and stress detection, helping identify issues that are invisible to the human eye. This paper delves into the various ways RS supports agricultural transformation, including its role in precision farming, climate monitoring, pest and disease detection, and sustainable land management. While the benefits are substantial, the paper also addresses key challenges in RS integration, such as high costs, data complexity, cloud cover limitations, and lack of technical training among users. However, ongoing advancements in sensor technology, open-access satellite programs, and policy support are gradually making RS more accessible and inclusive. The future of agriculture is increasingly being shaped by digital technologies, with RS at its core, enabling a transition from conventional farming to intelligent, predictive, and environmentally responsible practices. This paper provides a comprehensive exploration of RS in smart agriculture, highlighting its critical role in ensuring food security, economic viability, and ecological sustainability in the face of global challenges such as climate change and population growth.

**Keywords:** Remote sensing, smart agriculture, precision farming, GIS, satellite imagery, sustainable farming.

## I. INTRODUCTION

The 21<sup>st</sup>-century agricultural sector is undergoing a significant transformation. Increasing population, unpredictable climatic variations, and degradation of arable land have intensified the need for sustainable and intelligent agricultural practices. Smart agriculture, driven by data and decision-support systems, integrates digital technologies into every step of the agricultural process. Among these, remote sensing (RS) is a critical enabler that collects and analyzes spatial and spectral data to support timely decisions on resource allocation, crop management, and environmental sustainability.

With increasing global food demands and climate variability, traditional agriculture needs enhancement through technology. Smart agriculture integrates digital tools to optimize productivity, reduce environmental impact, and increase efficiency. Among these, remote sensing provides vital insights into soil, crops, and environmental parameters. RS enables farmers to adopt precision strategies by delivering high-resolution data from satellites, drones, and airborne platforms. This paper investigates the integration of RS with smart agriculture, addressing technical frameworks, applications, and implementation barriers.

Remote sensing involves collecting information about Earth's surface without direct contact. It employs satellites (e.g., Sentinel, Landsat), drones, and aircraft equipped with sensors. These sensors capture data in various spectral bands, including visible, infrared, and microwave. The technology includes active systems (e.g., LiDAR, RADAR) and passive systems (e.g., optical sensors). Image data are analyzed using algorithms and GIS tools to interpret features such as vegetation health, moisture, and temperature. The versatility of RS makes it suitable for large-scale agricultural monitoring.

## II. COMPONENTS OF SMART AGRICULTURE

Smart agriculture includes a suite of digital tools such as IoT sensors, AI, GPS, big data, and RS. These tools collect real-time field data, which are analyzed to make informed decisions about irrigation, fertilization, and pest control. Remote sensing acts as the central data provider in this ecosystem, delivering spatial and temporal information. The integration enables precision farming, where each zone of a farm receives tailored input. This approach increases yield, conserves resources, and minimizes environmental impact. Certainly! Here's a more detailed paragraph on the components of Smart Agriculture:

Smart agriculture is an integrated farming approach that uses cutting-edge technologies to monitor, analyze, and manage agricultural operations more efficiently. One of its core components is the Internet of Things (IoT), which connects various sensors and devices to monitor soil moisture, crop growth, temperature, humidity, and other environmental parameters in real time. These sensors transmit data to centralized systems where Artificial Intelligence (AI) and Machine Learning (ML) algorithms process and analyze it to generate actionable insights, such as predicting the best time for sowing or identifying early signs of plant diseases. Remote sensing using drones and satellites enables wide-area monitoring of crop health, irrigation patterns, and land use, while Geographic Information Systems (GIS) help in mapping and managing farm fields with precision. Another critical component is Big Data analytics, which helps farmers understand trends and patterns in large datasets, allowing for better planning and risk management. Smart irrigation systems automatically adjust water delivery based on real-time soil and weather conditions, conserving water and improving crop productivity. Automation and robotics reduce manual labor by performing tasks like seeding, weeding, and harvesting with high accuracy and speed. Additionally, cloud computing provides scalable platforms for storing farm data and accessing it from anywhere, while blockchain technology enhances transparency and traceability in agricultural supply chains. Mobile applications connect farmers to advisory services, market prices, weather forecasts, and farm management tools. Together, these components form a highly efficient, sustainable, and responsive agricultural ecosystem aimed at meeting the growing demands of food production in a changing climate.

## III. CROP MONITORING AND GROWTH ASSESSMENT

Remote sensing helps track crop health by analyzing spectral reflectance. Vegetation indices like NDVI (Normalized Difference Vegetation Index) indicate chlorophyll levels and biomass. Temporal RS data show crop growth trends, enabling early detection of stress or diseases. This information allows timely interventions, improving productivity. Multispectral and hyperspectral sensors capture subtle changes in plant physiology, helping differentiate healthy and stressed crops. Crop classification, phenology tracking, and yield estimation are enhanced with continuous RS monitoring. Crop Monitoring and Growth Assessment is a vital aspect of smart agriculture that involves continuously observing and analyzing the health, development, and productivity of crops throughout their growth cycle. This process is enhanced by technologies such as remote sensing, drones, satellite imagery, and in-field IoT sensors, which provide real-time data on various parameters including plant height, leaf chlorophyll content, canopy cover, soil moisture, and temperature. High-resolution images from drones or satellites allow farmers to detect early signs of stress, disease, or pest infestations before they become widespread. Multispectral and hyperspectral imaging can analyze crop vigor and nutrient status by capturing data across different wavelengths of light, which is invisible to the naked eye. These insights enable precision agriculture, where inputs like water, fertilizers, and pesticides are applied only where and when needed, reducing waste and improving yield quality. AI and machine learning models further analyze the collected data to predict crop performance, estimate yields, and provide recommendations for timely interventions. This proactive approach not only improves farm productivity but also ensures sustainability by minimizing resource use and environmental impact. Ultimately, crop monitoring and growth assessment empower farmers with the knowledge to make data-driven decisions, reduce risks, and enhance overall farm management.

## IV. SOIL CONDITION MONITORING

Soil properties such as texture, moisture, salinity, and organic matter are crucial for crop productivity. RS systems, especially thermal and microwave sensors, estimate surface soil moisture and temperature. These insights guide irrigation schedules, fertilization, and land preparation. Soil condition maps generated from RS data help identify zones requiring remediation. Integration with ground-truth data improves accuracy. Monitoring over time detects degradation trends and informs sustainable soil management. Condition monitoring in smart agriculture begins with the installation of advanced soil sensors in strategic locations across the farm. These sensors measure critical parameters such as soil moisture, temperature, pH level, electrical conductivity, and nutrient content in real time. Once the sensors are deployed, they continuously collect soil data at regular intervals. This data is then transmitted wirelessly—using IoT networks like Wi-Fi, LoRa, or cellular systems—to a cloud-based platform for storage and analysis.

The platform uses artificial intelligence (AI) and data analytics tools to process the raw data, identify patterns, detect anomalies, and generate insights about the soil's health and fertility. When combined with GIS and remote sensing data, this process enables the creation of soil health maps showing field variability and degradation zones. These insights are fed into a decision support system (DSS), which provides actionable recommendations to farmers on irrigation, fertilization, or soil amendments. Farmers receive these insights through mobile apps or dashboards, allowing them to take precise actions that reduce input waste and improve crop productivity. This system also features continuous monitoring, enabling adaptive farming based on real-time changes and long-term trends in soil condition.

## V. WATER RESOURCE MANAGEMENT

Water scarcity demands precise irrigation planning, which RS facilitates by monitoring evapotranspiration and water stress. RS-based models estimate crop water requirements and irrigation timing. Satellites like MODIS and Sentinel-2 provide data to detect flooded or dry zones. By integrating RS with weather and soil sensors, farmers can adopt deficit irrigation or drip systems. This reduces water wastage and improves water-use efficiency, contributing to climate-resilient agriculture.

Water Resource Management in smart agriculture refers to the efficient use, monitoring, and conservation of water resources to ensure sustainable farming practices and optimal crop yields. This process leverages technologies such as smart irrigation systems, soil moisture sensors, weather forecasting tools, and remote sensing to manage water based on real-time needs of crops and environmental conditions. Drip and sprinkler irrigation systems, integrated with IoT-enabled sensors, deliver water precisely to the root zones of plants, significantly reducing wastage due to evaporation or runoff. Soil moisture sensors continuously assess the hydration level of the soil, transmitting data to a centralized platform that uses AI algorithms to decide when and how much to irrigate. Additionally, weather prediction models help prevent over-irrigation by forecasting rainfall, enabling farmers to adjust watering schedules accordingly. GIS and satellite imagery further assist in mapping water distribution and identifying water-stressed zones across fields. These tools not only help optimize water usage but also contribute to groundwater recharge, reduce dependency on freshwater sources, and prevent salinization and waterlogging. Overall, smart water resource management enhances water-use efficiency, conserves natural resources, lowers operational costs, and promotes environmental sustainability in agriculture.

## VI. PEST AND DISEASE DETECTION

Pest and disease outbreaks manifest as stress in plant physiology, detectable through RS. Early signs such as changes in leaf pigmentation or canopy temperature are captured using multispectral or thermal sensors. Detecting such anomalies enables targeted pesticide application, reducing costs and environmental damage. RS-based disease models can predict outbreaks by correlating environmental conditions with pest life cycles. This supports integrated pest management and minimizes crop losses.

Pest and Disease Detection in smart agriculture is a crucial process that uses advanced technologies to identify, monitor, and manage harmful insects, pathogens, and plant diseases at an early stage, preventing significant crop losses and reducing chemical usage. This system integrates AI-powered image recognition, machine learning models, remote sensing, and IoT-enabled sensors to detect abnormalities in plant growth, leaf coloration, or texture that are often early indicators of pest infestation or disease outbreak. **\*\*Drones and high-resolution cameras\*\*** equipped with multispectral and hyperspectral imaging can scan large farm areas, capturing detailed images that are analyzed to spot symptoms such as spots, lesions, wilting, or pest damage. Meanwhile, **\*\*environmental sensors\*\*** monitor conditions like humidity and temperature, which are critical in predicting disease risk, especially for fungal infections. Data from these sources is processed using **\*\*AI algorithms\*\***, which compare current patterns with known pest/disease databases to diagnose problems accurately. Once detected, the system alerts farmers via mobile apps or dashboards, suggesting targeted treatments such as specific pesticides, biocontrol agents, or agronomic practices. This **\*\*precision pest management\*\*** approach minimizes pesticide overuse, reduces environmental pollution, and ensures crop health with minimal input cost.

Expanding further, modern pest and disease detection systems are evolving into **\*\*predictive platforms\*\*** that not only detect current outbreaks but also forecast future risks based on trends, weather models, and historical data. Integration with **\*\*GIS mapping\*\*** helps visualize infection hotspots across the field, enabling zone-specific interventions. Some systems also support **\*\*automated pesticide spraying drones\*\*** that only treat infected plants, reducing human exposure and chemical waste. Additionally, advances in **\*\*biosensors and genomics\*\*** are enabling the detection of specific pathogens at the molecular level, even before symptoms appear, allowing for proactive management. Overall, smart pest and disease detection is transforming crop protection into a sustainable, intelligent, and highly efficient process that safeguards food security while minimizing ecological impact.

## VII. PRECISION FARMING PRACTICES

Precision farming involves applying the right input, at the right time, and in the right place. RS facilitates variable rate application (VRA) by mapping field variability. Drones and satellites provide high-resolution imagery for intra-field decision-making. Combining RS with AI tools predicts the optimal timing and amount of fertilizers or pesticides. This site-specific approach increases efficiency, lowers input use, and enhances sustainability. Precision farming also supports automation in seeding, spraying, and harvesting.

Precision Farming Practices refer to a data-driven, technology-enabled approach to agriculture that optimizes the use of inputs such as water, fertilizers, pesticides, and seeds to enhance crop yield, efficiency, and sustainability. This method relies on tools like GPS-guided equipment, drones, IoT sensors, remote sensing, and data analytics platforms to gather real-time information about field variability, soil health, crop conditions, and weather patterns. Using this data, farmers can apply the right amount of resources at the right time and location—known as the “5Rs” of precision agriculture: right input, right amount, right place, right time, and right manner. For instance, variable rate technology (VRT) enables the application of fertilizers or pesticides only in areas that need them, reducing waste and environmental impact. Yield monitors on harvester’s track productivity zone by zone, while soil and crop mapping help in customizing planting densities and irrigation schedules. These practices increase productivity, conserve resources, and reduce costs while maintaining environmental balance. Moreover, precision farming supports sustainable agriculture by minimizing soil degradation, water misuse, and greenhouse gas emissions, ensuring long-term farm profitability and ecological health.

## VIII. LAND USE AND CROP CLASSIFICATION

Accurate land use and crop type classification is essential for policy, insurance, and supply chain planning. RS captures seasonal and phenological patterns of crops using temporal imagery. Machine learning algorithms classify fields based on spectral signatures. This helps identify planted crops, fallow lands, and land-use changes. RS aids in estimating acreage under specific crops and informs agricultural statistics. Governments and organizations use such data for food security planning and subsidy allocation.

It is a vital aspect of smart agriculture that involves identifying and categorizing different land types and crop patterns using advanced technologies to optimize resource allocation and agricultural planning. This process primarily utilizes remote sensing, satellite imagery, and Geographic Information Systems (GIS) to analyze land cover, soil type, vegetation health, and cropping patterns across vast areas. Through multispectral and hyperspectral imaging, different crops and land uses (such as forest, pasture, water bodies, or built-up areas) can be distinguished based on their spectral signatures. Machine learning algorithms are applied to this imagery to classify land into categories such as irrigated land, rainfed zones, fallow land, and active cropland, as well as to identify specific crop types like wheat, rice, or maize. Accurate crop classification helps in crop inventory management, yield estimation, and monitoring crop rotation practices, which are crucial for food security and policy planning. Land use mapping also aids in detecting land degradation, deforestation, and urban encroachment, enabling informed decisions on sustainable land management. Furthermore, this information supports government agencies, agronomists, and farmers in strategic planning, insurance risk assessment, and agricultural subsidies, ultimately promoting efficient and environmentally responsible farming.

## IX. CLIMATE MONITORING AND FORECASTING

Climate variability directly impacts agriculture, and RS helps monitor and forecast key climatic variables. RS data inform models for rainfall, temperature, and drought prediction. This supports risk assessment and contingency planning. Remote sensing provides early warnings of extreme events like heatwaves, floods, or frost, helping protect crops. Integration with agro-meteorological models aids in advising farmers about sowing dates and crop choices. This strengthens resilience against climate-induced uncertainties.

Climate Monitoring and Forecasting in smart agriculture is a critical component that helps farmers make informed, timely decisions by providing real-time data and predictions about weather and climatic conditions. This system uses a combination of weather stations, satellite data, IoT-based environmental sensors, and climate models to collect and analyze information on temperature, rainfall, humidity, wind speed, solar radiation, and other atmospheric variables. These data points are processed using advanced analytics and machine learning algorithms to generate short-term weather forecasts and long-term climate predictions. Accurate climate forecasting enables farmers to plan key activities such as planting, irrigation, fertilization, and harvesting, reducing the risks of crop failure due to unexpected weather events like droughts, floods, or storms. It also supports early warning systems for climate-related threats, such as frost or heatwaves, allowing farmers to implement protective measures in advance.

Additionally, climate monitoring helps in understanding seasonal patterns and adapting crop choices or farming techniques to changing climatic conditions, thereby promoting climate-resilient agriculture. This technology-driven approach not only enhances productivity and reduces input losses but also contributes to sustainable land and water use, ultimately improving food security in the face of global climate change.

#### **X. CHALLENGES IN RS INTEGRATION**

Despite its potential, RS adoption in agriculture faces challenges. High costs of sensors and drones, data processing complexity, and lack of technical expertise hinder adoption, especially among smallholders. Cloud cover limits optical data utility, while interpretation requires trained personnel. Data overload from high-frequency sensors also needs effective management tools. Infrastructure issues such as internet access and electricity in rural areas constrain RS implementation. Addressing these barriers through training, subsidies, and infrastructure development is essential.

Challenges in Remote Sensing (RS) Integration in agriculture involve several technical, operational, and economic hurdles that limit its full-scale adoption, especially in developing regions. One major challenge is the high cost of advanced remote sensing technologies, such as high-resolution satellite imagery, drones, and processing software, which can be unaffordable for smallholder farmers. Additionally, limited internet connectivity and digital infrastructure in rural areas hinder real-time data transmission and analysis. Data complexity is another barrier—interpreting multispectral or hyperspectral images requires expertise in geospatial analysis and image processing, which many farmers and extension workers lack. The temporal and spatial resolution limitations of satellite data may also fail to capture critical short-term crop events or small-scale variability within fields. Moreover, cloud cover and weather conditions can obstruct image acquisition, especially in tropical and monsoon-prone regions, affecting the reliability of the data. Integrating RS with existing farm management systems is also technically challenging, requiring compatibility with local platforms and data standards. Lastly, lack of awareness, training, and institutional support further restricts the adoption of remote sensing, making it essential to invest in capacity-building programs, affordable technologies, and localized solutions to fully realize the potential of RS in smart agriculture.

#### **XI. FUTURE TRENDS AND INNOVATIONS**

Advances in RS include hyperspectral imaging, AI-based interpretation, and nanosatellites. Open-access platforms like Google Earth Engine simplify data access and analysis. Innovations in drone technology offer ultra-high-resolution imagery at affordable costs. Mobile apps integrating RS data are emerging for farmer advisory services. Collaborative platforms and block chain are being explored for transparent food supply chains. Such innovations are likely to make RS more accessible, reliable, and user-friendly in the future.

#### **XII. CONCLUSION**

Remote sensing technology is indeed a cornerstone of smart agriculture, playing a transformative role in how modern farms are monitored, managed, and optimized. It involves the use of satellites, drones, and aerial imaging systems to collect data about the Earth's surface—particularly focusing on crops, soil health, water availability, and climatic conditions. This data, often captured in multispectral or hyperspectral formats, allows for real-time and wide-area monitoring, which is crucial for large-scale agricultural decision-making. Farmers can detect crop stress, nutrient deficiencies, pest infestations, and disease outbreaks before they become visible to the naked eye, enabling early interventions that protect yield and reduce the need for chemical inputs.

Remote sensing also supports precision agriculture by providing detailed insights into field variability, which helps optimize the use of inputs like water, fertilizers, and pesticides. For instance, Normalized Difference Vegetation Index (NDVI) and other vegetation indices derived from RS imagery are used to assess crop vigor and predict yields with high accuracy. Soil moisture estimation, canopy temperature mapping, and land use classification are additional applications that guide farmers in adapting to site-specific needs. This not only improves productivity but also contributes to sustainable farming by minimizing resource overuse and environmental degradation.

Despite these benefits, challenges such as high implementation costs, limited technical expertise, data processing complexity, and poor connectivity in rural areas still hinder widespread adoption. However, ongoing technological advancements—such as the development of low-cost drones, open-access satellite data (e.g., from Sentinel or Landsat missions), AI-powered analytics, and user-friendly mobile platforms—are rapidly making remote sensing more accessible and affordable. Furthermore, supportive government policies, training initiatives, and public-private partnerships are helping bridge the digital divide by empowering farmers with the tools and knowledge needed to leverage RS effectively.

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