

## Solution # 5:

### Geoagro – iKrishi App for a farmer-friendly site-specific advisory

**Submitter: (ICARDA)**

#### Solution Overview

Geoagro – iKrishi app is an integrated precision agriculture platform designed to deliver real-time, site-specific advisory to farmers and extension agents. The app addresses challenges of resource inefficiency, unstable yields, and limited access to timely information by enabling informed, data-driven decision-making at the farm level.

#### Key Features & Benefits

##### Key Features:

- Geoagro – iKrishi app is a unified precision farming platform for efficient monitoring, providing relevant information and real-time advisory to extension departments and farmers.
- Aid in improving resource-use efficiency, enhancing farmer income, stabilizing yields, enabling informed decision-making, reducing water footprint, and optimizing fertilizer use

##### Benefits:

- Precision Farming Tools: Offers smart irrigation scheduling, pest and disease outbreak detection, weather-based analytics, and optimized fertilizer recommendations.
- Real-Time Advisory: Delivers actionable insights and alerts to farmers, extension workers, and policymakers, improving response time and farm management.
- Resource Optimization: Helps reduce water and fertilizer use, lowers input costs, and minimizes environmental impact

#### Where It Works and Where It Can Work

The app is for to all major food crops and farming systems globally and is scalable to diverse agroecological zones worldwide.

#### Evidence & Impact

This mobile app has been deployed in many countries and has given promising results. For example, in India, in Madhya Pradesh, under the precision farming project, beneficiary farmers received high yield (8-15%) in soybean, wheat, and cotton, high income (25-30%), and low water and carbon footprints by saving 15-20% fertilizer and pesticides.

#### Scalability & Adoption Support

Geoagro – iKrishi is a low-cost, highly adaptable solution ready for broad deployment. Successful scaling requires robust capacity building, awareness, and farmer technical training. Strong public-private partnerships and extension services will further accelerate adoption.

#### Partners & Contact Info Partners

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