A Joint Initiative of
DOA & DOIT&C!

Single Integrated Online Portal for Farmers

Ease of Doing Farming (EoDF) Platform

RajKisan Saathi

1 **Farmer Data Bank**
Land ownership, Soil-Health, Crop Lifecycle, Details of benefits availed under various schemes

2 **Subsidy & Scheme Management**
End to end IT enablement of services provided by Agriculture, Horticulture, Agriculture Marketing, Seed Corporation, Animal Husbandry, Dairy Departments

3 **Agri-Facilitation**
Quality Inspection of Fertilizer, Seed & SSP and Online license system for Manufacturer & Retailer

4 **Agri-Input**
Soil, Seed, Insecticide, Fertilizer, Farm Implements, Irrigation, Custom hiring centers, Dealer Module (Seed, Fertilizer, Insecticide)

5 **Agri-Output**
Agri-Processing, Business & Export Promotion, Mandi rates, Warehouse, Services related to supply-chain, Inventory Module

6 **Buyer-Seller Platform**
Connecting Farmers with Buyers for more price realization on their outputs

7 **Crop Production Estimation & Advisory System**
Crop-Pest management, Package of Practice, Weather Forecasting & advisory services, Information & Extension

8 **Data Analytics, Chat-Bot and Business Intelligence**
Resolution of farmers queries **24 x 7** by using AI & ML techniques and Forecasting & estimation using trend analysis (Crop resilient models), Crop Pest Management

9 **GIS based Decision Support System**
Crop Output estimation using GIS, Damage assessment due to hailstorm & flood

Video Link: **https://rajkisan.rajasthan.gov.in/Rajkisanweb/videogallery**

Genesis of the Project

Rajkisan Saathi envisaged with the aim of "Ease of Doing Farming" on the pattern of "Ease of doing Business".

Portal was initiated in January 2020

Single Window for Farmers (G2C) ,Agri-Business Community (G2B) and Agri-Facilitation (G2G) for DBT, licenses and information.
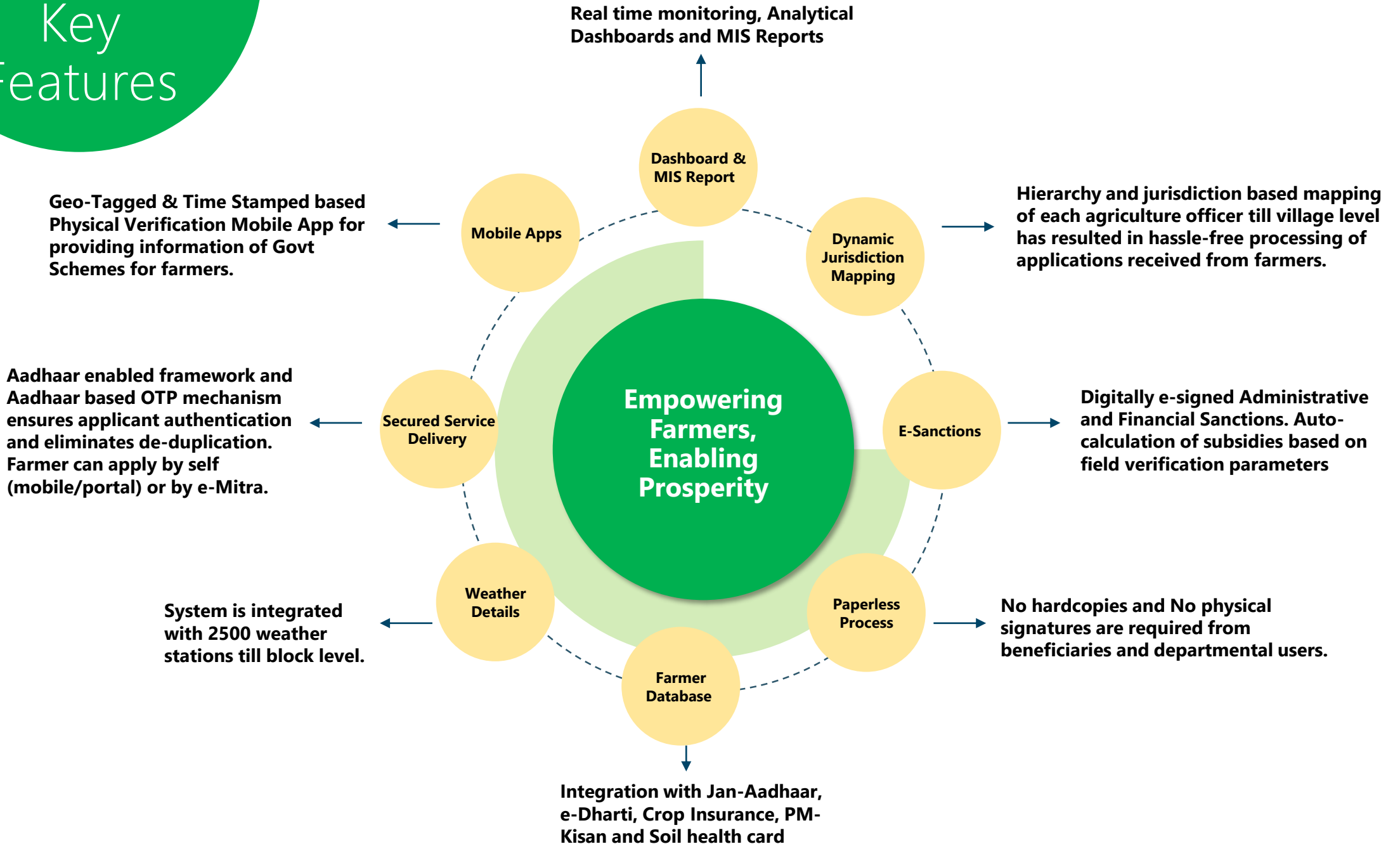

Services of Departments like Agriculture, Horticulture, Agriculture marketing, Raj. State seed corporation etc. are available.

Total 150+ (G2C, G2B, G2G) software modules developed

Key Features

Empowering Farmers, Enabling Prosperity

Dashboard & MIS Report — Real time monitoring, Analytical Dashboards and MIS Reports

Dynamic Jurisdiction Mapping — Hierarchy and jurisdiction based mapping of each agriculture officer till village level has resulted in hassle-free processing of applications received from farmers.

E-Sanctions — Digitally e-signed Administrative and Financial Sanctions. Auto-calculation of subsidies based on field verification parameters

Paperless Process — No hardcopies and No physical signatures are required from beneficiaries and departmental users.

Farmer Database — Integration with Jan-Aadhaar, e-Dharti, Crop Insurance, PM-Kisan and Soil health card

Weather Details — System is integrated with 2500 weather stations till block level.

Secured Service Delivery — Aadhaar enabled framework and Aadhaar based OTP mechanism ensures applicant authentication and eliminates de-duplication. Farmer can apply by self (mobile/portal) or by e-Mitra.

Mobile Apps — Geo-Tagged & Time Stamped based Physical Verification Mobile App for providing information of Govt Schemes for farmers.

IMPACT

Unified single window solution ensure ease in all procedures of **DBT**, **information**, **licensing**, **Quality Control** of Agricultural inputs. It includes services of Departments like **Agriculture**, **Horticulture**, **Agriculture marketing**, **Raj. State seed corporation** etc.

Value For The Beneficiaries

1

Easy Accessibility & Transparency

- Saves approx.1320 tones of papers.
- DBT increases by 33 times
- Track Real time application status.
- Send Notifications at every stage.
- Reduces fraud claims by digitization of food coupons for Farmers and Mandi staffs.

2

Improved Governance

- Authentic database of farmers.
- Departmental users mapped based on Hierarchy and Jurisdiction.
- Physical verification with Geo-tagged.
- Assets accessible on GIS map
- Subsidy Calculator to know eligibility criteria.
- Grievance Redressal system ensures closure within 24 hrs.

3

Quality Control

- Bar-coded, Geo-tagged sampling system
- Human intervention eradicated.
- Auto allocation of laboratory and analyst.
- Inspection and analysis reports are e-signed
- Report for each employee-Inspector, licensing authority, laboratory in-charge, laboratory analyst available resulting into enhanced accountability

4

AI/ML based crop Disease Management

- Diagnosing and addressing crop diseases, nutrient deficiencies, and pest infestations in early stage.
- To optimize crop health and enhance agricultural productivity.
- AI/ML model is being trained using images of several crops (Wheat, Tomato, Mango etc.) which will gradually increase to achieve better accuracy.

5

Seed Minikilt Distribution

- Improved seed availability to large number of "small and marginal" farmers
- Efficient distribution of certified seed Minikits.
- Door-step delivery of seed Minikits

6

Licenses

- Online Registration/ Renewal of Licenses of Seed, fertilizer and Pesticide Manufacturer & Dealer
- Licenses are digitally signed and details can be fetched through QR Code
- Processes are inherent with Timelines and Escalation matrix

Mobile App

Rajkisan Suvidha for Farmers

- Unified Mobile Governance Platform for farmers.
- Eligibility calculator
- Information of all DBT schemes
- Facility to apply and track the progress on application
- Facility to register crop loss intimations under PMFBY
- Weather forecast to farmers to take appropriate decision
- Online Work Confirmation by Farmer
- Videos of success stories/Agri Technology.
- Facility to register crop loss intimations under PMFBY

Project is built using IT Platforms & Building Blocks of DoIT&C

RajKisan Saathi Project is based on pillars of e-Governance Roadmap of Rajasthan & Modern Governance:-

- **Transparency**

- **Citizen Centric**

- **Social Inclusion**

- **Ease of Service Delivery**

IT Platform & Building Blocks

e-Mitra	RajDharaa (GIS)	Rajasthan Payment Platform	e-Sanchaar
RajNet & RSWAN	Raj Sewa Dwaar	Data Analytics	Aadhaar & Jan-Aadhaar
Raj-Sampark	Raj e-Sign	Raj SSO	Raj e-Vault
Video Conferencing Facility	State Data Center	Raj Wi-Fi	IFMS
Sanchalan			

Rajkisan Saathi
Way Forward

Integrated Farmer Support System

1 **Crop Acreage & Yield Prediction Using Remote Sensing & Satellite Imagery**

2 **Center of Excellence for Farmer Advisory & Digital Agri-Extension Services**

3 **Agriculture Market Intelligence System for Farmers**

4 **Artificial Intelligence based Assaying & Proactive Subsidy Availing Mechanism / Chatbot**

5 **Quality Assurance of Agri Products using Blockchain Technology**

Impact-Statistics

Total View Counts

4.80 Cr

Farmer On-boarded

73 Lakh

Farmer Applied for Subsidies

13.59 Lakh

Girls Benefitted

51.9 K

Incentive to Girls Scholarship (DBT Disbursed)

82.41 Cr

DBT Disbursed

2900 Cr

Raj Agri QC Samples Drawn

89.9 K

Minikit Distributed

79.7 Lakh

Licenses & Certificates Issued

1.20 Lakh

Raj Kisan Saathi

THANK YOU