

NATIONAL CONFERENCE ON AGRI STACK 2025 - ECONOMY

NEWS: The Ministry of Agriculture & Farmers' Welfare (MoA&FW) hosted a **National Conference on Agri Stack** at Sushma Swaraj Bhawan, New Delhi.

WHAT'S IN THE NEWS?

Objective of the Conference on Agri Stack

- **Review Implementation Progress:**
The primary aim of the conference was to **assess the progress made so far** in the implementation of Agri Stack under the broader framework of the **Digital Agriculture Mission (DAM)**.
- **Identify Challenges and Plan Forward:**
It also aimed to **discuss current challenges**, share **state-specific innovations**, and develop a **future roadmap** for scaling up Agri Stack initiatives.
- **Promote Technology-Driven Governance:**
The event reinforced the government's vision of **transparent, technology-enabled, and farmer-centric governance** in the agricultural sector.



About Digital Agriculture Mission (DAM)

- **Modernization Through Technology:**
DAM is a flagship initiative of the Government of India launched to **digitally transform Indian agriculture** using advanced technologies and data systems.

- **Objective of DAM:**

It seeks to provide **real-time, accurate, and actionable digital services** to farmers to **enhance agricultural productivity and decision-making**.

- **Core Digital Pillars:**

The mission is built upon two major technological frameworks:

- **Agri Stack:** A unified data infrastructure integrating all farmer-related records and services.
- **Krishi Decision Support System (DSS):** A geospatial intelligence platform that integrates data on soil health, weather, crop types, and water availability.

- **Soil Profile Mapping:**

An essential component of DAM involves **digitally mapping soil profiles** to provide farmers with accurate information about **land quality and suitability**.

About Agri Stack

- **Purpose and Scope:**

Agri Stack is a **foundational digital infrastructure** that aims to **integrate various datasets related to farmers**, enabling seamless service delivery and policy implementation.

- **Integration with Major Schemes:**

It links farmers' digital IDs and land ownership details with central schemes like:

- **PM-KISAN** (income support),
- **PMFBY** (crop insurance), and
- **KCC** (credit access).

- **Key Components of Agri Stack:**

- **Farmer Registry:**

Digitized records of farmers, linked with Aadhaar and authenticated land records, to ensure **accurate beneficiary identification**.

- **Unified Farmer Service Interface (UFSI):**

A common interface that enables integration and interoperability of various government schemes and services.

- **Georeferencing and Remote Sensing Tools:**

Used to support **accurate crop surveys, natural disaster assessments, and agro-climatic planning**.

- **Digital Crop Survey (DCS):**

AI and remote sensing-based surveys that help assess **crop health, yield**, and detect **insurance fraud or data mismatches**.

- **Digitally Verifiable Certificates (DVCs):**
Farmers can now **generate digital crop and land ownership certificates**, which are stored in **DigiLocker** and can be verified electronically.

Key Takeaways from the National Conference on Agri Stack

1. Integration with Major Schemes

- Agri Stack will be **fully integrated with PM-KISAN, PMFBY, and KCC**, which will help **streamline benefits**, reduce duplication, and target subsidies more efficiently.
- The conference introduced **farmer authorization systems** that enable **secure, consent-based data sharing** for accessing various benefits and services.
- **Digitally Verifiable Certificates (DVCs)** were highlighted as a secure way for farmers to share verified land and crop details with government and financial institutions.

2. MoUs and Financial Support Announcements

- Four states – **Maharashtra, Kerala, Bihar, and Odisha** – signed **Memoranda of Understanding (MoUs)** to pilot and expand Agri Stack implementations.
- A total of **₹6,000 crore** was allocated under **Special Central Assistance (SCA)**:
 - **₹4,000 crore** earmarked for developing a comprehensive **Farmer Registry**.
 - **₹2,000 crore** set aside for scaling up the **Digital Crop Survey (DCS)**.
- **Collaboration with PSB Alliance (Public Sector Banks Alliance)** will make it easier for farmers to **access credit**, especially through digital KYC and crop verification processes.

3. State-Level Innovations in Agri Stack Usage

- **Maharashtra:**
 - Developed a **Data Provisioning Engine (DPE)** for smooth data sharing across departments.
 - Introduced **Mahavistaar AI**, an advisory system providing **tailored agronomic advice** to farmers.
- **Uttar Pradesh:**
 - Integrated Agri Stack with the **MSP e-procurement system**, leading to **faster and more transparent farmer payments**.
- **Karnataka:**

- Linked the **FRUITS (Farmer Registration and Unified Beneficiary Information System)** platform with banks for easier credit disbursal.
- Used Agri Stack to **plan disaster relief** post-natural calamities.
- Connected **soil health card data** with advisory platforms to provide **personalized input recommendations**.

4. New Digital Solutions Introduced

- **Kisan Pehchan Patra (KPP):**

A DVC-enabled ID that allows farmers to **create and store verified land and crop credentials**, which can be used for availing various schemes and services.

- **Grievance Redressal Portal:**

A new unified portal with features like:

- **OTP-based login** for security,
- **Multilingual support**, and
- **Voice/audio upload option** to help illiterate or differently-abled farmers file complaints related to land disputes.

- **AI-Powered Chatbot:**

A multilingual chatbot powered by **Google Gemini**, capable of answering farmer queries on **schemes, weather, crop advisories**, and more, in **vernacular languages**.

Source: <https://www.pib.gov.in/PressReleasePage.aspx?PRID=2136255>