



# IIT Indore Inaugurates AgriHub

## Why in News?

On 27<sup>th</sup> January, 2025, **IIT Indore** launched **AgriHub**, a state-of-the-art **Center of Excellence (CoE)** focused on utilising **Artificial Intelligence (AI)**, **Machine Learning (ML)**, and **Deep Learning (DL)** to tackle the critical challenges faced by agriculture in India.

## Key Points

- **AgriHub's Mission and Vision:**
  - **AgriHub** aims to become a collaborative platform for **researchers, farmers, breeders, and policymakers**.
  - The initiative seeks to foster **transdisciplinary research** and innovation, focusing on **AI, ML, and DL** for **sustainable agriculture**.
  - **MeitY** and the **Madhya Pradesh Government** have shown strong support for AgriHub, recognizing its potential to boost agricultural productivity and sustainability.
- **Significance:**
  - **Startup Incubation:** AgriHub will support the growth of startups in the agricultural technology space.
  - **Job Creation:** It will create job opportunities in various sectors related to sustainable farming.
  - **Patents and Publications:** Research outcomes will include innovations, patents, and scientific publications that will contribute to the growth of agricultural technologies.
  - **Industry Collaborations:** AgriHub aims to partner with industries to create practical applications of its research.
  - **Entrepreneurship Workshops:** Programs to foster entrepreneurship among students and emerging professionals will be a key focus.
  - **Technological Advancements:** AgriHub will harness **AI, high-performance computing**, and **big data** to address challenges like **low agricultural productivity** and the effects of **climate change** (droughts, floods).
    - The integration of **Geographic Information Systems (GIS)**, **drone technology**, and **precision farming** will help optimize resource use, monitor crops, and provide data-driven solutions to farmers.