

IEEE COMPSOC

HACKHUB

FLAGSHIP EVENT 2025

Domain: Open Innovation

College: Vellore Institute of Technology, Chennai

Team Name: Titans

Team Members: Aryan Mahawar, Pranay Karvi, Tapan Batla, Lavanaya Malhotra

PROBLEM STATEMENT

Farmers face multiple challenges in accessing essential agricultural services such as storage, machinery rentals, soil testing, transportation, labor hiring, and direct market sales. Existing solutions are often fragmented, forcing farmers to rely on multiple disconnected platforms or informal networks, which lead to inefficiencies, higher costs, and a lack of transparency.

Additionally, farmers struggle with:

- Limited access to proper storage facilities, resulting in post-harvest losses.
- High machinery costs, making ownership impractical for small and medium-scale farmers.
- Lack of quality validation services, leading to uncertainty about soil and crop health.
- Inefficient supply chain & logistics, making transportation costly and unreliable.
- Unfair market access, where middlemen take advantage of farmers, reducing their profits.
- Limited access to skilled labor, particularly during peak seasons.
- Lack of transparency in agricultural services, making it difficult to verify the quality of seeds, fertilizer, and other essential products.

YOUR SOLUTION

AgriLink is a comprehensive web-based platform that connects farmers with various agricultural services. Key features include:

- Storage marketplace for farmers to find and rent storage spaces.
- Machinery rental services allowing farmers to access equipment on demand.
- Soil testing and crop validation services to help farmers optimize yields.
- Online buyer-seller marketplace for selling crops.
- Transport options to deliver goods to the market.
- Labor hiring system for seasonal or full-time farm work.
- Community review system for farmers to report issues and share experiences.

UNIQUENESS & INNOVATION

AgriLink stands out from existing agricultural platforms due to its **holistic, tech-driven, and community-centric approach**. Unlike traditional platforms that focus on **only one or two services**, AgriLink integrates **multiple agricultural services** into a **single digital ecosystem**, enhancing efficiency, accessibility, and transparency.

WHY SHOULD WE CHOOSE YOU?

Comprehensive Solution – AgriLink integrates storage, machinery, soil testing, labor hiring, transport, and a marketplace all in one platform.

Transparency & Trust – A community-driven review system ensures verified services, fraud prevention, and fair pricing for farmers.

Technology-Driven Innovation – We leverage AI (future scope), smart logistics, and real-time insights to optimize farming operations.

Financial Empowerment – Future plans include microloans, crop insurance, and financial literacy tools to support farmers' growth.

Scalability & Impact – AgriLink is designed to empower millions of farmers, boost rural economies, and drive sustainable agricultural development.