Document	Case Study Web Page Content
Case Study	JIVA

Title	Empowering Sustainable Agriculture: TROOLOGY's Technological Revolution in Monitoring and Evaluating the JIVA Programme
Logo	GIZ & NABARD
Overview	Technology intervention for physical & financial monitoring of the agroecological transformation for promoting natural farming and sustainable rural development.
Industry Type	Agriculture
Business	B2G
Organization Type	Government
Region	India
Project Name	JIVA – Monitoring, Evaluation & Learning (MEL) System
Industry Tag	Agriculture

Project Overview	TROOLOGY developed an innovative & comprehensive Monitoring, Evaluation & Learning (MEL) System for NABARD's JIVA Programme, integrating advanced data capturing & analytics techniques to enhance the effectiveness of natural farming initiatives. This system provides real-time insights and supports data-driven decisions, significantly improving project oversight and outcomes in rural development.
Problem Statement	JIVA Programme faced challenges in gathering accurate field data lacking uniformity in collecting & collating the data and lacked the capability for real-time monitoring and evaluation – both on physical targets and financial budgets, hindering efficient project management and scalability of sustainable farming practices.
Objective	**Objective of JIVA Programme:** The JIVA Programme aims to foster an agroecological transformation by leveraging pre-existing social and natural capitals in watershed and wadi projects, promoting natural farming methods to enhance sustainability, productivity, and resilience to climate change. **Significance of having a Monitoring, Evaluation, and Learning System:** Implementing a Monitoring, Evaluation, and Learning (MEL) system is crucial for the JIVA Programme as it enables: **Data-Driven Decision Making:** The MEL system provides robust data and analytics that facilitate informed decision-making, ensuring that interventions are effective and resources are optimally allocated. **Adaptability and Learning:** Continuous monitoring and evaluation allow for the adaptation of strategies in response to emerging

	challenges and feedback, fostering a learning environment that improves program outcomes over time. **Transparency and Accountability:** By systematically tracking physical & financial progress and outcomes, the MEL system enhances transparency, builds stakeholder trust, and ensures accountability in program implementation. **Scalability and Impact Assessment:** Effective evaluation helps in assessing the impact of the program, identifying successful strategies that can be scaled up and replicated in other regions, thereby maximizing the impact of the JIVA Programme.
Industry Compliance	• GIGW • CERT-In • OWASP • GDPR
Research & Study	To develop a robust Monitoring, Evaluation, and Learning (MEL) system for the JIVA Programme, TROOLOGY embarked on a comprehensive research process that involved multiple stages of investigation, collaboration, and iterative development.
Research	**Stakeholder Consultations:** Project was initiated by conducting extensive consultations with NABARD officials and the facilitating agencies responsible for implementing the JIVA Programme. These discussions helped identify key performance indicators, data requirements, and specific challenges faced in the field. **Needs Assessment:** Through workshops and interviews with ground-level workers, farmers, and facilitating agency managers, we assessed the practical needs and constraints of data collection, management, and usage. This phase was crucial for understanding the on-ground realities and the types of data that would be most valuable for monitoring and evaluation. **Technical Feasibility Studies:** We conducted several technical feasibility studies to explore the integration of various technologies such as GPS mapping, mobile data collection, and real-time data analytics platforms. This helped in determining the most effective technological solutions that could be deployed in rural and often remote settings. **Development and Testing:** With the insights gained, we developed the MEL system. The system underwent rigorous testing in the project areas to ensure its functionality and user-friendliness. Feedback from these tests was used to refine the system. **Iterative Improvements:** Based on the feedback and data collected during the pilot phase, we made iterative improvements to the system. This involved enhancing data security measures, improving user interface design, and expanding the capabilities of the data analytics engine.

	Training and Capacity Building: Recognizing the importance of human elements in technological adoption, TROOLOGY developed comprehensive training modules for users at various levels. These training sessions were aimed at ensuring that all stakeholders could effectively utilize the system for data entry, monitoring, and generating insights.