

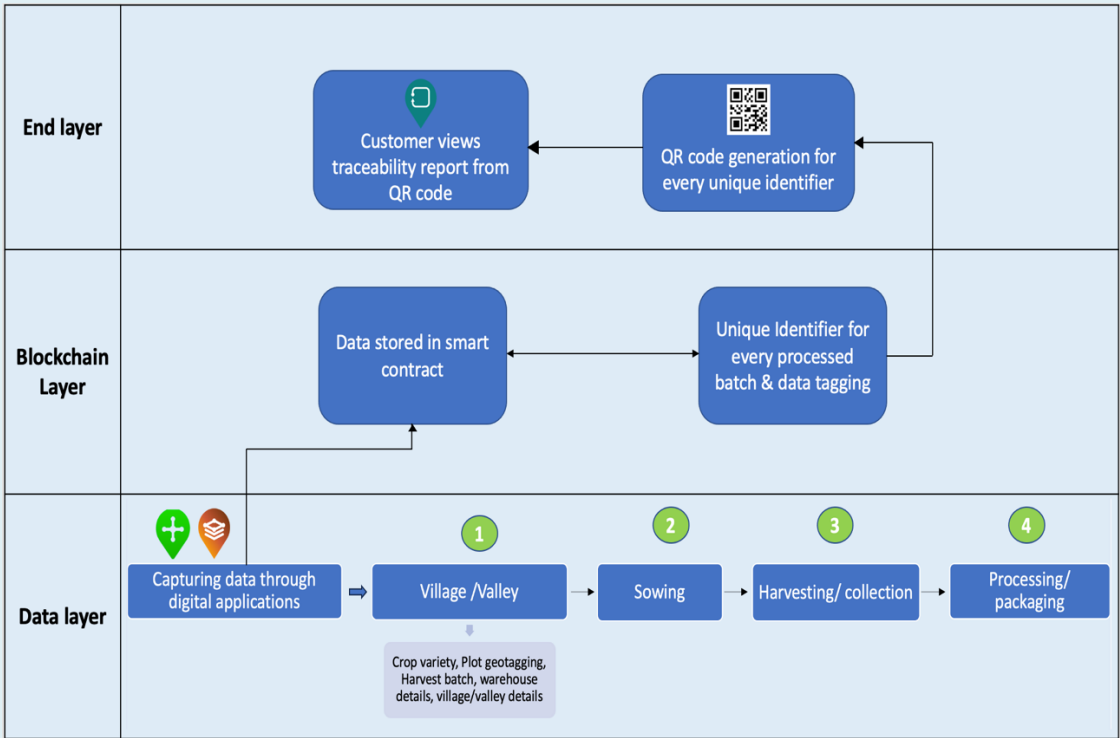
Development of Blockchain-based Traceability Solution for Agri-Food Supply Chain

Salient features

- Proof-of-concept (POC) for a blockchain-based traceability solution for the agri-food supply chain
- Data collection through mobile/digital applications, Securing the data on blockchain servers, and generating QR codes.

Advantages

- ✓ The developed POC can further be used for large-scale implementation for different agri-food products for getting traceability and transparency solutions.
- ✓ Practical understanding of blockchain-based traceability and its implications and impact on agri-food supply chains.
- ✓ Cost and benefit of adopting blockchain in different processes in agri-food supply chains
- ✓ The responsible factors (benefits/challenges) for adopting blockchain in the agri-food supply chain.



Process Flow of PoC in the Project

<i>Process Technology developed by</i>	Dr. Anupama Panghal(PI), Associate Professor, Food Business Management and Entrepreneurship Development (FBMED), NIFTEM-K Email: anupamaniftem@gmail.com , anupama@niftem.ac.in
<i>Year</i>	2021-23
<i>Source of funding</i>	R&D Scheme of MoFPI, GoI
<i>More information</i>	<p>Status of Publications</p> <ul style="list-style-type: none"> • Vern, P., Panghal, A., Mor, R. S., Kamble, S. S., Islam, M. S., & Khan, S. A. R. (2023). Influential barriers to blockchain technology implementation in agri-food supply chain. <i>Operations Management Research</i>, 1-14. https://doi.org/10.1007/s12063-023-00388-7 (Scopus, ABS, ABDC, SSCI, 2022 Impact factor-9.0, Q1) • Manoram, S., & Panghal, A. (2023). Smart Technologies Interventions for Sustainable Agri-Food Supply Chain. In: Kamble, S.S., Mor, R.S., Belhadi, A. (eds) <i>Digital Transformation and Industry 4.0 for Sustainable Supply Chain Performance</i> (pp. 79-100). EAI/Springer Innovations in Communication and Computing. Springer, Cham. https://doi.org/10.1007/978-3-031-19711-6_3, ISBN: 978-3-031-19711-6 (Scopus) • Five more publications from the project work are under review process with top ranked journals.