Goa Open Innovation

Challenge 2025

Problem Statements

Industry

Aspect	Details
Problem Statement	**Smart Material Weighing & Inventory Accuracy System for Rotomoulding Units** Develop a real-time material weighing and inventory validation system that captures weight directly from industrial scales, matches it with the Bill of Material (BOM), and alerts operators of discrepancies to ensure accurate stock reconciliation and reduce product rejection.
Desired Outcome	A real-time, integrated system that captures weighing scale data, verifies it against the BOM, alerts the operator if incorrect, and syncs actual usage with inventory. This will lead to improved raw material accountability, reduced product rejection rates, and accurate stock reconciliation across production cycles.

Aspect	Details
Problem Statement	**Affordable Autonomous Farm Mechanisation for Small and Mid-Sized Farms** Design a cost-effective, hybrid mechanisation platform that supports both manual and autonomous operation to reduce labour dependency and improve farm productivity for small and mid-sized farms in Goa.
Desired Outcome	1. Development of an economically viable, dual-mode (manual + autonomous) farm mechanisation platform. 2. It should reduce labour dependency, enhance productivity, and make agriculture more sustainable and attractive for the next generation of farmers in Goa.