

Goa Open Innovation Challenge 2025
Problem Statements

Dept. Of Science & Technology & Waste Management

Problem statement:	Integrated Waste Collection and Vehicle Monitoring System Design a GPS- and sensor-based waste collection vehicle tracking system integrated with waste data to enable real-time monitoring, efficient routing, and responsible waste disposal.
Desired outcome:	<ul style="list-style-type: none">• GPS & CCTV monitored system for tracking waste collection vehicles with capability to input waste types (dry, wet, mixed, etc.).• Accessible to DSTWM, GSPCB, DMA, DOP and Local bodies.• Open system design to integrate readily available hardware and customized software for specific functionalities.
Constraints:	The solution should be price sensitive and financially viable and easily upgradeable. Non-standardized vehicles, multiple players & stakeholders lack digital awareness of the waste management contractors.