

## Problem statement and solution

Domain: UN Sustainable Development Goals (SDGs)

1. Problem: Lack of clean drinking water in remote areas.

Solution: Install low-cost, solar-powered water purifiers in villages to ensure safe drinking water access.

2. Problem: Unmanaged waste disposal in semi-urban areas.

Solution: Develop smart waste segregation kiosks with incentives for residents to recycle.

3. Problem: High levels of air pollution in industrial zones.

Solution: Deploy IoT sensors for air quality monitoring and alert locals during hazardous pollution levels.

4. Problem: Absence of affordable renewable energy for low-income households.

Solution: Solar power kits with pay-as-you-go plans for rural households without grid access.

5. Problem: Lack of digital tools for rural education.

Solution: Mobile learning platforms with offline capabilities, aligned with state curricula, for rural students.

6. Problem: Food waste from unsold produce.

Solution: Platform connecting farmers with NGOs and food banks to redistribute excess produce before spoilage.

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7. Problem: Low employment among women in rural areas.

Solution: Online marketplace for handmade products by rural women, along with skill development courses.

8. Problem: Inadequate healthcare for elderly populations.

Solution: Telehealth platforms for elderly patients, offering virtual consultations and home delivery of medications.

9. Problem: Lack of sanitation facilities in remote schools.

Solution: Develop portable, eco-friendly toilet units that can be easily set up in rural schools.

10. Problem: Insufficient measures for wildlife conservation.

Solution: AI-powered monitoring of wildlife reserves to detect poaching and track endangered species.