

Carbon Credit Monitoring System

A Zoho Creator-based digital solution for centralized carbon project monitoring & management

Client: Planethos Environmental Services

Platform: Zoho Creator

Solution Type :Centralized Project Monitoring & Management

Key Areas: Beneficiary • Survey • Stove • KPT • IoT • Analytics • Reporting

PROJECT OVERVIEW

Planethos Environmental Services required a centralized digital system to manage multiple stages of its carbon-related project operations.

The Carbon Credit Monitoring System, built on Zoho Creator, connects beneficiary management, field surveys, verification, stove distribution, KPT, IoT monitoring, analytics and reporting into one structured workflow.

Case Study

Business Requirements

- Centralized beneficiary management
- Digital field survey & GPS capture
- Survey verification & approval
- Stove distribution & acceptance tracking
- KPT data collection & processing
- IoT data integration & validation
- Dashboards, analytics & reporting

Objective

Replace fragmented manual processes with one connected system for better visibility, traceability and control.

CHALLENGE & SOLUTION

The Challenge

The project involved multiple stages and different types of data from beneficiary surveys and geographical information to stove distribution, KPT records and IoT-generated data.

Managing these activities separately created challenges such as:

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- Manual handling of project information
- Disconnected beneficiary records
- Limited approval-status visibility
- Separate stove & KPT management
- IoT data validation challenges
- Time-consuming reporting & analysis

The Solution

A centralized, workflow-driven application was designed using Zoho

Instead of managing each activity independently, the system connects the complete project flow from beneficiary registration to monitoring, data processing, analytics and reporting.

Core Modules

Beneficiary Management

Approval Management

Stove Management

KPT Management

IoT Management

Analytics & Reports

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CORE MODULES

Beneficiary & Survey Management

- Centralized beneficiary records with digital field surveys and connected project information.

GPS & Verification

- Capture location information such as latitude, longitude, village, district and state, with structured survey verification.

Stove Distribution

- Track stove distribution, installation status, acceptance and rejection.

Kitchen Performance Test — KPT

- Manage KPT records connected with the relevant beneficiary and stove, including data entry, validation and performance analysis.

IoT Monitoring

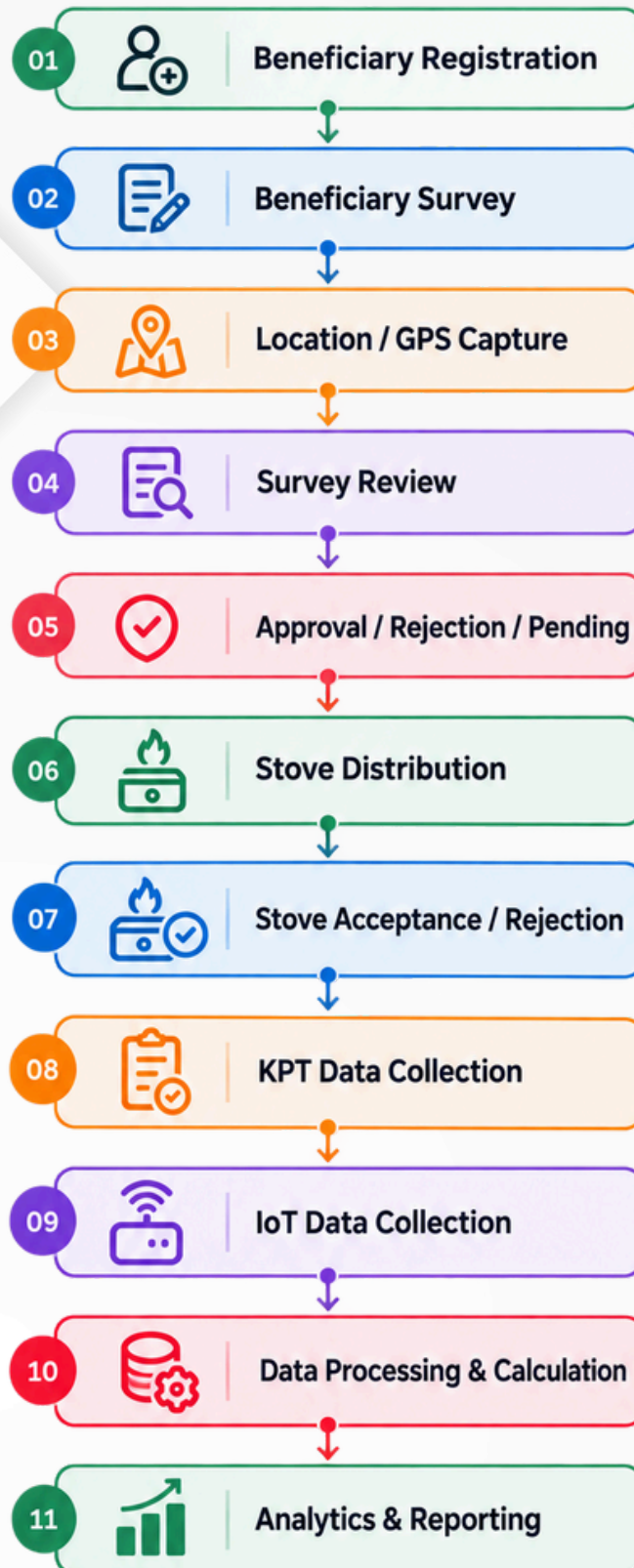
- Connect IoT-enabled devices with the monitoring system for data collection, validation, processing and analytics.

Carbon Credit Monitoring

- Monitor beneficiary activity, stove usage, KPT completion, IoT activity, data quality and carbon-credit-related metrics.
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Case Study

WORKFLOW & DATA MONITORING



Case Study

IoT Data Validation

Incoming IoT data can be validated before processing to identify:

Missing Data • Duplicate Records • Invalid Device IDs • Invalid Timestamps • Unmapped Devices • Abnormal Readings • Synchronization Issues

Dashboards & Analytics

The system can provide monitoring views for:

Beneficiaries • Stoves • KPT • IoT Devices • Project Performance

AUTOMATION & REPORTING

Zoho Creator workflows help reduce repetitive manual activities and maintain consistency across the project.

Key Automations

- Automatic unique ID generation
- Automatic status updates
- Reviewer notifications
- Approval & rejection notifications
- Movement of approved beneficiaries to the next stage
- Stove status updates
- Acceptance & rejection workflows

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- KPT linkage
- IoT data import & validation
- Automated calculations
- Dashboard data updates

Process Alerts

Notifications can be generated for:

New Survey Submission

Pending Review

Survey Approval / Rejection

Stove Distribution

Stove Acceptance

KPT Activity

Missing IoT Data

Reporting

Reports can cover:

Beneficiaries • Survey Status • Approvals • Stove

Distribution • KPT • IoT Devices • Data Quality • Location-

wise Data • Project Performance • Carbon Credit

Monitoring

Case Study

BENEFITS & OUTCOME

Centralized Information

Project information is maintained in one connected system.

Improved Process Visibility

Users can track beneficiaries, surveys, stoves, KPT activities and IoT data.

Reduced Manual Effort

Automation reduces repetitive updates, notifications, imports and calculations.

Better Data Traceability

Information remains connected across the complete project lifecycle.

Faster Monitoring & Reporting

Dashboards and reports provide structured access to project information.

Integrated Monitoring

Beneficiary, stove, KPT and IoT information can be viewed as one connected ecosystem.

Project Outcome

The solution provides Planethos Environmental Services with a centralized platform for managing and monitoring the complete project lifecycle.

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Connected Data Flow:



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