

MMDA Digital Transformation Fleet Management Platform

A unified platform for fleet operations, command and citizen services
for the Metro Manila Development Authority.

PREPARED FOR

Metro Manila Development Authority

EDSA cor. Orense St., Guadalupe Nuevo, Makati City

SUBMITTED BY

Nikostek

proposals@nikostek.com · +63 917 123 4567

01 — EXECUTIVE SUMMARY

Smarter streets, one connected Authority.

Nikostek proposes a unified digital platform for the Metro Manila Development Authority — built first around the operational discipline with the most measurable impact: **fleet operations**. The platform modernises how every bus, jeepney and service vehicle under MMDA oversight is registered, dispatched, maintained and accounted for, with live GPS, incident capture, AI-generated daily briefings and a public commuter map under one secure portal.

The Fleet Management Platform is fully built and demoable today. It is in active pilot with Pasig City and packaged in this proposal as the foundation of a four-phase digital transformation programme covering traffic command, citizen services and cross-Authority integration through 2027.

Live demo: sign in to fleetman.mmda.info with the credentials in §08 to see the full system — web portal, mobile app and live transit map — populated with sample fleet data.

At a glance

<p>2mo Active Pilot Pasig City Fleet</p>	<p>15 Modules Built covered by this proposal</p>	<p>Today Demoable live portal & mobile app</p>	<p>100% PH Team no offshore handoffs</p>
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02 — ABOUT NIKOSTEK

Filipino-built government software.

Nikostek is a Metro Manila—based software firm focused on building digital infrastructure for Philippine LGUs and national agencies. Our team designs, deploys and supports systems for fleet operations, business permitting, social welfare, urban health and citizen services.

We deliver end to end — from infrastructure to the mobile app in the driver's hand — and we run our own support desk in country. There are no offshore handoffs in the critical path.

What sets us apart

End-to-end ownership — We build the back-end, web portal, mobile companion app, public APIs and AI integrations — one team, one accountable contact.

Government domain depth — We have shipped LGU systems for permitting, HR, health, social welfare and now fleet. Our team understands COA, DBM, DICT and procurement constraints from day one.

On-the-ground support — Filipino team, Filipino timezone, Filipino language. We can be on site at EDSA HQ within hours, not days.

Open architecture — Public APIs, standard data formats, no vendor lock-in. MMDA owns its data and can integrate with LTO, LTFRB, MWSS and LGU systems on its own terms.

03 — SOLUTION OVERVIEW

Fleet Management Platform.

The flagship deliverable of the proposal is a complete operations system covering buses, drivers, routes, maintenance, incidents and live tracking, with a public-facing transit map for commuters. Every MMDA vehicle and every public transit asset under Authority oversight is tracked under one portal.

Live URL: <https://fleetman.mmda.info>

Status: Production-ready, pilot in Pasig City, demoable today with role-based credentials.

Three system layers

- 1. Command Web Portal** — for administrators, fleet managers, dispatchers and viewers. Real-time dashboard, full CRUD on every entity, reports, AI assistant.
- 2. Driver Companion App** — mobile-first interface for the field. Trip control, incident capture with photo/video, maintenance reminders, in-app chat.
- 3. Public Transit API & Map** — commuter-facing live map, third-party API with self-service keys and rate limiting, ready for partner apps.

04 — CAPABILITY MODULES

Fifteen integrated modules.

Every operational concern of an MMDA fleet, covered in one secure portal — from vehicle registration to incident audit trails. Each module is fully built and exercised in the Pasig pilot.

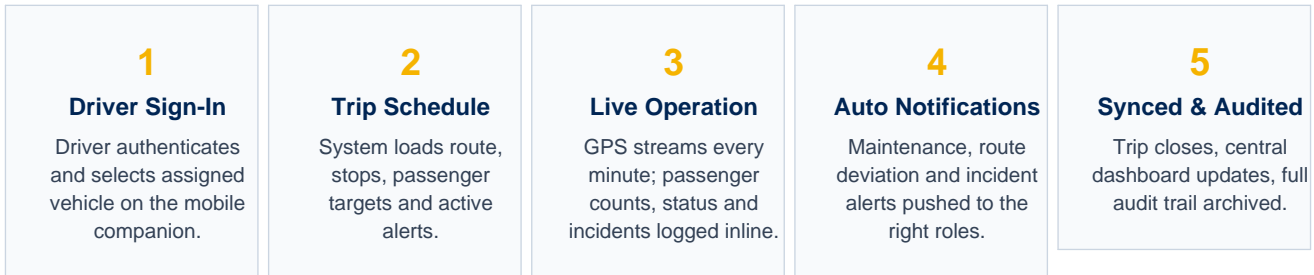
<p>Vehicle Registry</p> <p>Centralised record of buses, jeepneys, service vehicles and patrol units — with status, route assignment and device pairing.</p>	<p>Driver Management</p> <p>Driver profiles, licensing, performance scoring, assignments and active/leave/suspended status tracking.</p>	<p>Routes & Stops</p> <p>Define lines across LRT, MRT, Bus, Jeepney and UV Express with stops, schedules, distance and duration metadata.</p>
<p>Trip Logging</p> <p>Real-time start/end, passenger counts, duration, distance and live status from each unit in service.</p>	<p>Maintenance Schedules</p> <p>Preventive calendar by interval, mileage rules, parts tracking, mechanic assignment and bell-style alerts.</p>	<p>Charging Logs</p> <p>Electric fleet charge cycles, duration, kWh consumed and cost-per-trip analytics.</p>
<p>GPS & Live Map</p> <p>Vehicle location, route adherence, device health and a public-facing live transit map.</p>	<p>Incident Reporting</p> <p>Photo and video capture, severity classification, audit trails and linked vehicle history.</p>	<p>Document Management</p> <p>Permits, insurance, certifications, inspection reports — all categorised and version-controlled.</p>
<p>AI Assistant & Insights</p> <p>Natural-language queries on fleet data, daily network briefings and automated recommendations.</p>	<p>Internal Messaging</p> <p>In-app chat with file sharing, voice notes, missed-call tracking and instant push notifications.</p>	<p>Role & Audit</p> <p>Six tiered roles, OTP-protected admin actions, every create/update/delete fully audit-logged.</p>
<p>Smart Notifications</p> <p>Push, email and in-app alerts for incidents, maintenance, expiring permits and shift changes.</p>	<p>Public Tracking API</p> <p>Self-service API keys with rate limiting let third-party developers build commuter apps on MMDA data.</p>	<p>Driver Companion App</p> <p>Native mobile interface with trip details, maintenance reminders, chat, incident reporting and live location.</p>

05 — OPERATIONAL WORKFLOWS

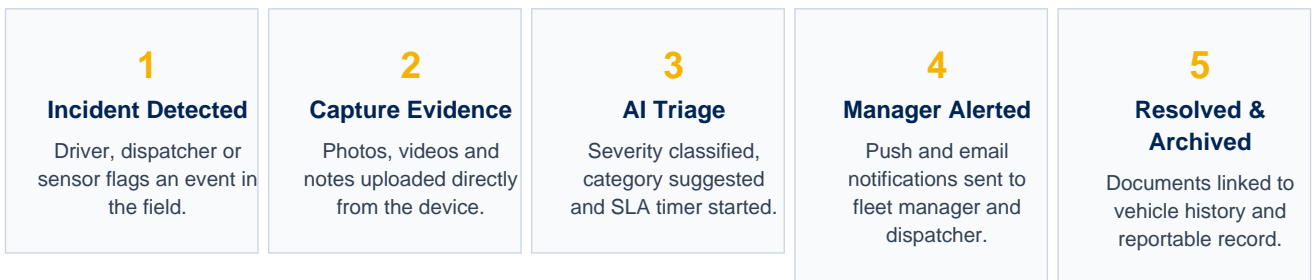
Five end-to-end routines.

Each daily routine is mapped from origination to closure, so every action is captured, every alert is acted on, and every report is auditable.

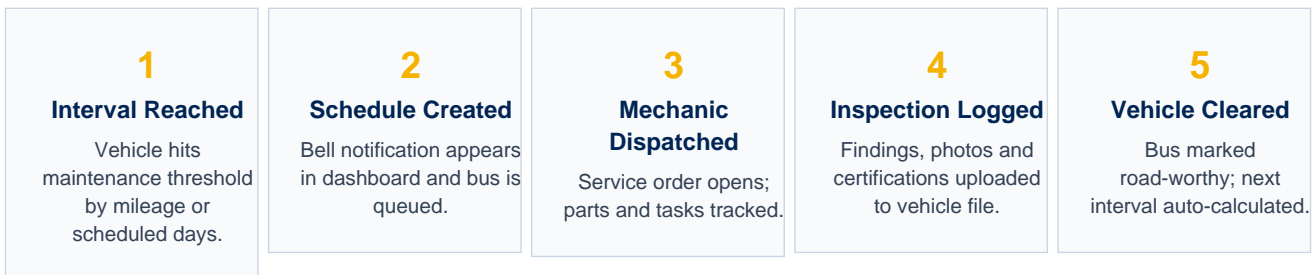
Workflow: Daily Operations



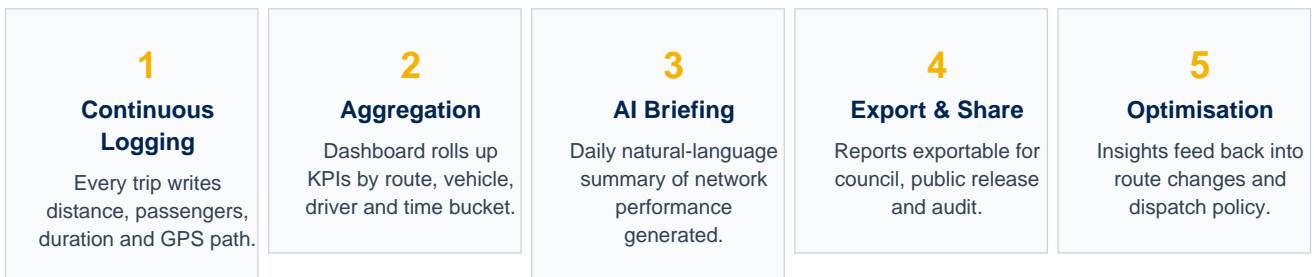
Workflow: Incident Response



Workflow: Maintenance Scheduling



Workflow: Trip Analytics



Workflow: Driver Accountability



06 — ROLE-BASED ACCESS

Six clearly scoped roles.

Each user sees and does only what their function requires — from the field driver to the regional administrator. All actions audit-logged.

Role	Capabilities
System Administrator	Total control — user management, configuration, audit trail, app releases. OTP-required for sensitive actions.
Fleet Manager	Vehicles, drivers, routes, maintenance, charging, incidents, reports and the full operational dashboard.
Dispatcher	Schedule, start, end and cancel trips. Real-time radio with drivers, incident triage, dashboard view.
Driver	Mobile-only role — logs trips, reports incidents, views routes, receives messages and runs live trip control.
Mechanic	Receives maintenance assignments, logs service work, uploads inspection documents and clears vehicles.
Viewer	Read-only across dashboards, trip history, fleet data and AI insights. Ideal for council and observers.

07 — DEMO ACCESS

Sign in and explore.

Open <https://fleetman.mmda.info> in any browser. Each role is pre-seeded with sample buses, routes, trips, incidents and maintenance records.

Demo environment only. All actions are logged in the audit trail. Production deployment will use Authority-issued accounts with mandatory two-factor authentication.

2FA / OTP Override Code: 7777 — when the system prompts for a one-time password after sign-in, enter 7777 to bypass email verification on the demo environment.

Role	Email	Password
Administrator Full system access	superadmin@mmda.gov.ph	Mmda@2026!
Fleet Manager Operations management	fleetmanager@mmda.gov.ph	Mmda@2026!
Dispatcher Trip operations	dispatcher@mmda.gov.ph	Mmda@2026!
Viewer Read-only access	viewer@mmda.gov.ph	Mmda@2026!
Driver (mobile only) Companion app	driver1@mmda.gov.ph	Mmda@2026!

Public Tracking API

Endpoint	<code>https://fleetman.mmda.info/api/public/v1</code>
Demo Key	<code>fms_TestKey2026MmdaTransitWatchPublic</code>
Rate Limit	<code>60 requests/minute</code>

08 — IMPLEMENTATION ROADMAP

Four phases over 12 months.

A safe, predictable delivery plan beginning with operational fleet (already built), then expanding to traffic command, public services and enterprise integration.

<p>PHASE 1 · LIVE NOW</p> <p>Fleet Management Platform</p> <ul style="list-style-type: none"> • Vehicle, driver, route, trip modules • Maintenance & charging logs • Incident reporting with media • AI insights & daily briefing • Driver companion mobile app 	<p>PHASE 2 · Q3 2026</p> <p>Traffic Command & CCTV</p> <ul style="list-style-type: none"> • Camera grid integration • Signal timing dashboard • Violation capture pipeline • EDSA, C-5, Roxas live boards 	<p>PHASE 3 · Q1 2027</p> <p>Citizen Services Portal</p> <ul style="list-style-type: none"> • Public commuter app • Online payment of fines • Hotline & chatbot • Open-data publishing 	<p>PHASE 4 · Q3 2027</p> <p>Cross-Authority Integration</p> <ul style="list-style-type: none"> • 17 LGU data exchange • LTO & LTFRB tie-ins • Flood & weather services • Authority-wide reporting
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09 — WHY NIKOSTEK

Built on a working pilot.

This is not a slideware concept. The Fleet Management Platform proposed for MMDA is currently in active pilot with **Pasig City**, where every module is being validated against real operational data. The platform is fully built, demoable today, and ready to be packaged for MMDA scale.

- ✓ **Active pilot in Pasig City** — Live system under field evaluation, with incidents, trips and maintenance records being captured today.
- ✓ **End-to-end capability** — Web portal, mobile companion app, public APIs, AI insights and 24/7 operations support.
- ✓ **Filipino-built, Filipino-supported** — In-country team, no offshore handoffs, on-site presence in Metro Manila.
- ✓ **Government procurement ready** — Documentation, TOR, security review and audit collateral included with the package.

Reference site — reachable for verification

Pasig City Government

Fleet Management — Active 2-month pilot

ACTIVE PILOT

The MMDA team is welcome to coordinate a reference call directly with the Pasig pilot leads — reach out via the Proposal Inquiry contact on the next page.

10 — INVESTMENT SUMMARY

Engagement model.

Detailed pricing is provided in the procurement pack on request. The headline engagement model is below; final pricing is calibrated to fleet size, integration scope and SLA tier agreed during scoping.

Engagement	Phase 1 — Fleet Management Platform
Delivery model	Turn-key deployment with knowledge transfer
Initial term	12 months
Inclusions	All 15 modules, mobile app, public API, AI assistant, on-site rollout, training, 90-day warranty
SLA	24/7 monitoring, 4-hour critical response, 99.5% uptime target
Pricing model	Annual subscription · volume-tiered by vehicles under management
Procurement	TOR, technical specifications, security review and references provided on request

Pricing on request. Email proposals@nikostek.com with subject “**MMDA-DT-2026-001 — Procurement Pack**” and we will return TOR, full pricing schedule, draft contract and security documentation within five business days.

11 — NEXT STEPS

How to proceed.

Three ways to move this forward today:

01

Open the live demo

Sign in to <https://fleetman.mmda.info> with the credentials in §07. Click through the dashboard, mobile app (QR on the home page) and public map. Allow 30 minutes.

02

Schedule a walkthrough

Email us with a date and we will present on site at MMDA EDSA HQ — full system tour, Q&A and reference call with Pasig pilot leads.

03

Request the procurement pack

TOR, technical specifications, security documentation, draft contract and pricing schedule delivered within five business days.

Proposal inquiry

Vendor	Nikostek
Email	proposals@nikostek.com
Phone	+63 917 123 4567
Reference	MMDA-DT-2026-001
Submitted	10 May 2026
Validity	90 days from submission
Live demo	https://fleetman.mmda.info