fidelra.africa@fidelra.ai
fidelra.ai
linkedin.com/company/fidelra

NAIROBI CITY TWIN / VEHICLES

Vehicles

Domain Guide

Review ownership contexts, vehicle histories and the distinctions between a vehicle asset and a transport journey.

City	Nairobi
Coverage	Published documentation
List price	$4,995 USD - standalone domain
Guide edition	Striped Donkey V5.89 - 7 September 2026

Use this guide

Read the documented coverage and limitations alongside the published sample and release evidence. Model counts and sample distributions describe their stated source and period. The final accepted order specifies licensed scope, usage rights, duration and delivery.

Useful questions

- Review vehicle and owner relationships
- Inspect the scope of vehicle histories
- Distinguish ownership from operational use

Scope and limitations

What's still missing: neither the original 2026-07-26 PrivateVehicle addition nor the 2026-08-01 multi-vehicle extension has been logged in Transport's own release history yet, and this battery has not yet been folded into Transport's own published check count.

A PrivateVehicle row is created once, at acquisition, and never reassigned. Transport's own page already discloses "Ownership changes (transfer/resale of a private vehicle)" as Planned, not built - the same gap applies here since it's the same table.

KNBS publishes annual registration flow totals and a body-type mix (2021-2025), but no official private/commercial/government split - the research behind this generation model explicitly recommended not inventing one for Kenya, and this catalog follows that recommendation.

Because no official Nairobi private/commercial/government stock split is published at city resolution, the generation model avoids inventing a precise ownership benchmark. Registration-flow evidence can constrain scale and body type, but ownership proportions remain a disclosed calibration choice.

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01 How Vehicles fits the City Twin.

FCTE represents personal, business, foreign-national and institutional vehicle ownership for Nairobi through one coherent ownership model. The public page shows semantic owner types rather than the physical table design.

It sits alongside, not inside, Transport → (the commercial PSV/matatu fleet and every trip) and the government-only Fleet → domain - three distinct public domain responsibilities answering different mobility and ownership questions.

Nairobi City Twin™ · 1940-2026

Supporting links

Transport →

Fleet →

02 Known and possible relationships.

Connections follow the published domain scope. Optional, contextual and planned relationships retain their stated limits below.

Domain or context	Relationship and published scope
Citizen	OwnerCitizen, populated only when OwnerType = 'Individual'
Business	OwnerBusiness, populated only when OwnerType = 'Business'
ForeignNational	OwnerForeignNational, populated only when OwnerType = 'ForeignNational'
Ward	Ward, every vehicle is registered to a city ward
CitizenOrigin	read to boost individual ownership propensity for origin-tagged citizens (a GENERATED OUTCOME of the model's parameters, not a relationship)
Insurance	no PrivateVehicle-to-Coverage link exists yet; Transport's own AccidentClaim table already uses a guarded relationship pattern for Insurance once it graduates, and Vehicles would follow the same pattern, not a live link today
Trips (Transport)	a PrivateVehicle is not currently joined to any Trip, Route or Fare row; personal-vehicle journeys are not modeled as trips today
Ownership transfer / resale	not modeled; a PrivateVehicle row is created once, at acquisition, and is never reassigned to a different owner

Supporting links

Transport

Fleet

Insurance

Business

03 One ownership model. Seven owner contexts. A strict either/or link, every time.

Every public claim below is grounded in the certified Vehicles release and city-specific calibration evidence. Vehicles is intentionally focused on ownership and lifecycle context rather than exposing its physical design.

Synthetic personal ownership connected to an eligible adult context. Exact penetration rates and demographic adjustments are controlled.

Synthetic business ownership represented for active firms. Exact ownership propensity is controlled.

Synthetic ownership for eligible foreign-national contexts, calibrated by resident category. Exact category rates are not public.

Institutional ownership context for public, diplomatic and nonprofit entities, represented semantically.

Some synthetic owners hold more than one vehicle, with diversity across vehicle classes. Exact rate and assignment logic are controlled.

Make, Model, VehicleClass, EngineSizeCc, FuelType, YearOfManufacture, RegistrationDate, PlateType and PlateNumber - one real row per vehicle, not an abstraction over a fleet.

Synthetic by design: FCTE vehicle ownership records are analytical representations of a plausible ownership pattern. They do not represent actual registered vehicles, actual owners, or actual license plates.

Transport represents commercial service vehicles, while Vehicles represents personal and institutional ownership and Fleet represents government operational assets. These are separate semantic responsibilities. Direct physical road-network traversal remains outside the current public release - see Roads →.

• PrivateVehicle

• Citizen / Business / ForeignNational / Institution owner

• Multi-vehicle ownership

• Vehicle (PSV/matatu fleet, Transport's own table)

• Route, Trip, DriverLicense, Fare

• Vehicle (Fleet's own table)

• Government fleet only

• No owner concept - inherently one government's asset pool

Supporting links

Transport

Fleet

04 Follow one vehicle through the City Twin™.

A representative semantic vehicle record. Physical field layout, generation model formatting and ownership probabilities are intentionally not published.

Multi-vehicle ownership is represented as a calibrated synthetic behavior, with class diversity enforced at outcome level. Exact probability, randomization and assignment logic are controlled.

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05 The model is shared. The real-world anchors are not.

The Nairobi release runs the shared private-vehicle generation model, with the same default parameters. What differs is Nairobi's real plate convention and its real government vehicle-registration evidence.

Vehicle-class and fuel-type mixtures are calibrated by owner context. The public release reports resulting distributions and certification outcomes rather than the generation model weights.

See Limitations below.

06 A governed ownership model with one clear owner context.

Representative public fields: owner category, geography, vehicle class, make/model, fuel context, manufacturing period and registration period. The complete physical field dictionary is available only through controlled technical review.

Each synthetic vehicle resolves to one owner context-individual, business, foreign-national or institutional-and release certification verifies that the ownership shape remains coherent. The exact physical constraint definition and field-level design are intentionally not published.

The public release reports ownership-integrity outcomes without exposing the physical constraint recipe.

Run the query above against a live City Twin™ data environment to see current data.

Explore the City Twin →

Public entity family	Represents	Disclosure boundary
Ownership context	Synthetic resident/business/institutional ownership context	Physical owner-key structure is controlled
Vehicle profile	Vehicle class, make/model and fuel context	Exact mixture weights and assignment logic are controlled
Registration & lifecycle	Manufacturing, registration and status context through time	Exact date-generation rules are controlled
Usage context	Vehicle-level context that can be studied alongside mobility/fleet systems	Physical cross-domain dependency graph is controlled

Supporting links

Explore the City Twin →

07 An honest gap, not a hidden one.

Vehicles was the newest implemented release entity in this catalog without its own certification battery. As of 2026-08-06 that gap is closed: a dedicated 10-check PASS/FAIL battery runs live against Nairobi release, and all 10 checks pass in Nairobi.

Ownership vocabulary, single-owner integrity and registration uniqueness are independently checked in the release. The public site reports the outcomes rather than publishing the exact data environment constraints.

Vehicles now has a dedicated release certification battery covering volume, ownership-category coverage, ownership integrity, registration uniqueness, chronology and second-vehicle plausibility. All published checks pass for Nairobi.

Vehicles' release history doesn't yet record the original 2026-07-26 PrivateVehicle addition or the 2026-08-01 multi-vehicle extension - a real, disclosed documentation gap that remains open.

08 What Vehicles doesn't model - on purpose or otherwise.

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PrivateVehicle captures ownership, plate and identity attributes at registration - it does not track odometer readings, service history, roadworthiness inspections or accident history for personally-owned vehicles.

Confirmed live: 0 of 222,072 Nairobi PrivateVehicle rows have a RegistrationDate earlier than YearOfManufacture.

View All Vehicles Limitations →

Supporting links

View All Vehicles Limitations →

09 From a government employee to a maintained vehicle.

A real, DOB-eligible domestic owner in dbo. Citizen - the same identity used across every other domain.

A real PrivateVehicle row, Petrol, registered 2022-04-30 - currently live on Nairobi.

This is a private, citizen-owned vehicle in transport. PrivateVehicle - distinct from government fleet vehicles, which live in their own domain. See Fleet → for that story.

What a commercial operator's vehicle does day-to-day - the trips, the routes, the fares - is told on Transport → , not here.

Employee → Driver → Vehicle → Fuel & Maintenance - one government's own vehicle operation, honestly scoped.

Available as Standalone Domain · Multi-Domain Bundle · Full City Twin™

Supporting links

Fleet →

Transport →

Explore This Record →

See Transport →

See Fleet →

Review licensing & delivery details →

View Pricing & Licensing →

Browse Vehicles Data →

Fleet

Explore Multi-Domain Access →