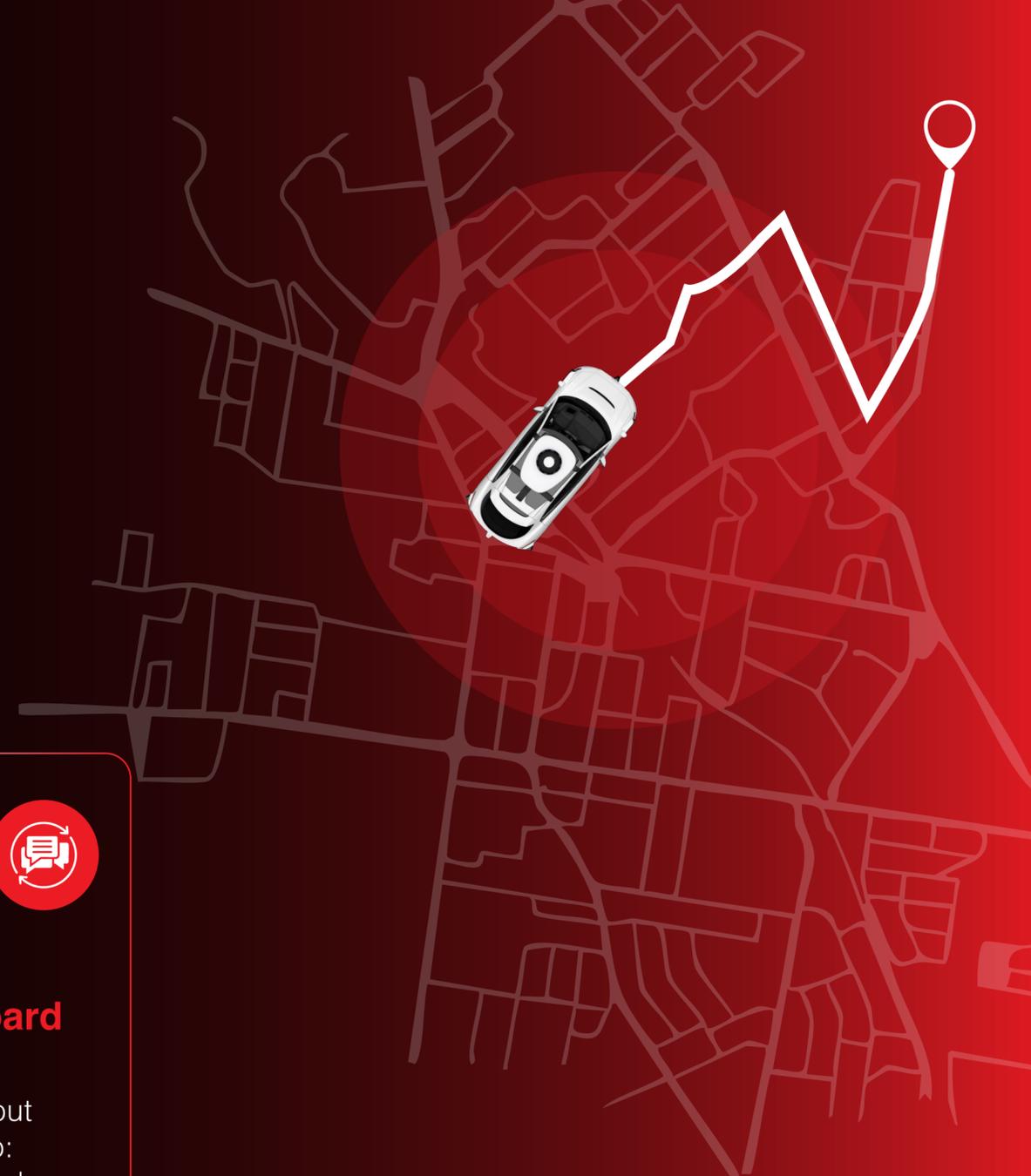# Robotaxi Route Development

How a new geofence earns permission

Each new city or geofenced zone follows a clear sequence from "unknown" to "ready".

Step 01

Human driving mapping the route is driven manually.

The system records:

- Road geometry and lane markings
- Traffic lights and signal states
- Geofence boundaries and key landmarks

This creates the base map and signal catalog the robot needs before it drives on its own.

Step 02

Autonomous driving begins with supervision onboard

The robot then begins to autonomously drive the SUV through the mapped route, with a safety driver and software operator onboard.

The safety driver maintains situational and environmental awareness, takes over any time necessary. Driver engagement is logged.

Step 03

Feedback loop with a software operator onboard

A software operator in the cab watches the system and calls out what the robot "intended" to do: lane choices, gap selection, and responses to traffic control. Those callouts turn the raw logs into labeled data that the autonomy stack learns from.