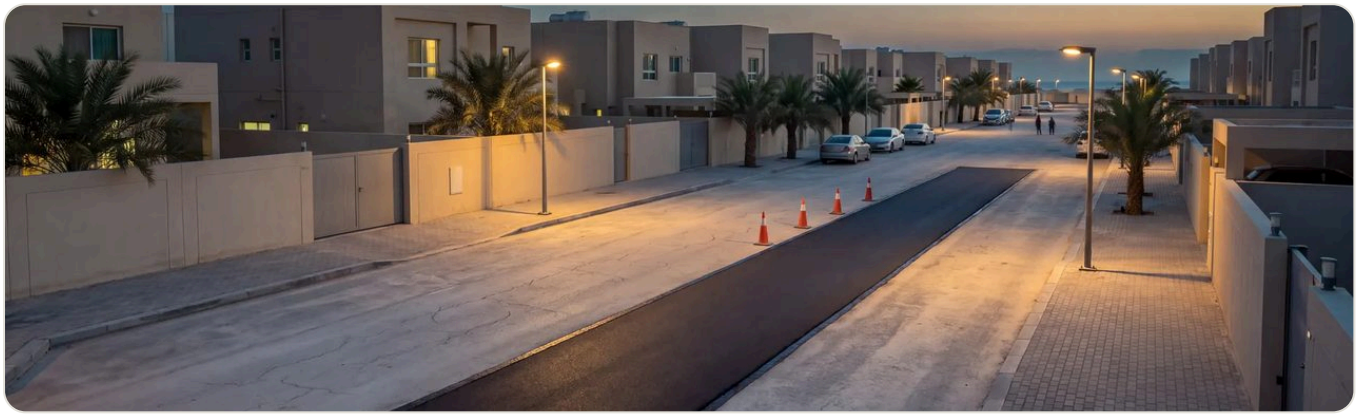
Roads & transport · In Dubai, street-works permits are issued by RTA (Nodal has no agreement with RTA)

Road Scan — Street-works NOC inspection & trench settlement monitoring

Which reinstated trench needs an inspector today? Which sites are worth an early visit, given your open permits, recent closures and available inspectors?



01 · UAE REGULATORY & OPERATIONAL SCALE

Dubai has more than 25,000 lane-km of roads (Dubai Media Office, 26 Oct 2025). Excavating without a street-works NOC carries an AED 30,000 fine, and AED 50,000 without required concrete barriers (Executive Council Resolution No. 54 of 2021).

02 · ZERO-RISK START (UTILITIES & CITY INFRASTRUCTURE)

4-week discovery sprint at AED 0 upfront with zero hardware and zero portal login, using past street-works permit CSVs and inspection outcomes under NDA (plus anonymised fleet GPS traces where kept). Sensors come later only if the plan beats current routines, on terms agreed after the study.

03 · AUDITED STAGE, BENCHMARKS & OPERATING BOUNDARIES

Stage: Simulated, internal review (32 runs on 45 synthetic days across 2,688 lane-km; never run on a real road). Re-ordering 12 inspectors' shifts from the permit register alone confirmed 31% of permit breaches for a register-steered planner built in review (Nodal's own zero-taxi planner reached 26%, and 33% with 80 taxi pods) vs 22% baseline. For settling permit-register trenches within 45 days: 26% with 80 taxi pods + 1 van vs 12% for 1 pooling van, while 2 pooling vans without taxis reached 29% at ~2.4× mileage and 3× patrols (8 mm sensor noise drops 26% to 20%).

COMPATIBLE SYSTEMS & STANDARDS

Street-Works NOC Permit CSVs · Inspection Outcomes · Optional Fleet GPS & Pods · Exec. Council Res. 54/2021

Verification Protocol · Zero Live Access

How the 4-week offline audit runs at AED 0 upfront.

Proven offline on your historical records before anything is switched on — with your own engineers, clinicians, surveyors or licensed customs staff keeping final sign-off.



Two safe ways to verify without system logins

NO VPN · NO LIVE CREDENTIALS

Option A · Read-only CSV/Excel slice under NDA
Share an agreed read-only historical export under mutual NDA. Nodal returns a quantified, line-referenced report in writing for your operational lead to verify.

Option B · Self-run by your own IT
Your IT runs Nodal's auditable offline checker locally on a standalone machine inside your UAE boundary and shares only the summary table if you choose.

What did the zero-hardware permit-register inspection test show?

In 32 simulated runs, re-ordering daily inspections from the permit register with zero hardware confirmed 31% of breaches for the review's register-steered planner and 26% for Nodal's zero-taxi planner vs 22% baseline, while taxi pods added ~2 points on breaches (33% vs 31% with 12 inspectors).

How did taxi pods compare with survey vans on settling trench repairs?

With 80 taxi pods and one survey van, the simulation flagged 26% of settling trenches on the permit register within 45 days vs 12% for one pooling van, whereas two pooling vans without taxis flagged 29% by driving ~2.4× the mileage with three times the patrols.

How does the 4-week discovery sprint start?

At AED 0 upfront with zero vehicle hardware and zero portal logins, building a testable daily inspection plan from historical permit records to compare against your current routine.

Delegate in one forward — no introductory call required

Web dossier: nodal.systems/road-scan.html · Written checklist & mutual NDA: santiago@nodal.systems

AED 0 UPFRONT