For: ITS Corridor Lead · Parking Operations Director

Typical IT / Analyst Prep: ~30 mins across 1 exit + 2–3 parking zones

Corridor Equilibrium: 4-Week Corridor Parking & Exit Queue Study (AED 0 Upfront)

Forwardable technical scope for your operational or IT lead. No live logins, VPNs or production changes are used at any point in this study.

01 · EXACT READ-ONLY HISTORICAL EXTRACTS (CSV / XLSX / PDF)

EXTRACT / REGISTER	TYPICAL SOURCE	FIELDS / COLUMNS USED
1. Zone Occupancy & Session Aggregates	Parking Management CSV	`timestamp_15m, parking_zone_id, tariff_tier (premium / standard), total_spaces, active_sessions_pct`
2. Plate-Free Exit Ramp & Gantry Counts	Corridor Traffic Count CSV	`timestamp_5m, motorway_exit_id, off_ramp_queue_occupancy_pct, mainline_flow_veh`
3. Parallel Arterial Signal Split Logs	Signal Controller CSV	`timestamp_5m, junction_id, green_split_sec, cross_street_queue_metric`

02 · TWO SAFE EXECUTION PATHS (CLIENT CHOOSES)

Option A · Read-Only Slice Under Mutual NDA

Your team shares the agreed read-only historical export above after bilateral NDA signature. Nodal processes it in an isolated UAE-compliant workspace, returns the report, and purges files on study close.

Option B · Self-Run Inside Your Own UAE Network

Your IT team runs Nodal's auditable, dependency-pinned offline script locally on an isolated workstation inside your network and shares only the summary table if you choose.

Strict Security & Scope Boundary (What Is Never Requested):

Zero licence-plate numbers (ANPR), zero driver identities, and Salik toll tariffs remain 100% untouched.

03 · WRITTEN DELIVERABLE, STAGE HONESTY & COMMERCIAL TERMS

WRITTEN OUTPUT

Quantified corridor simulation calibrating starting occupancy and driver-information sensitivity, reporting mainline spillback relief alongside exact cross-street queue and search-time trade-offs.

PUBLISHED STAGE & LIMITS

Stage: Simulated, internal review (uncalibrated 10 km corridor model). Sending searching drivers to a neighbouring zone cut evening peak delay 34–37% (median, 32 runs) assuming car parks nearly full and 80% informed — falling to ~20% at 30% lower starting occupancy, 13% at 20% informed, and 5–7% when ~20% full (where off-peak delay rose ~3%; single-zone guidance moved delay 0.1%). Overloaded exit rule cut spillback minutes 98% median and delay 6–7.5% (actuated control with the same 75% ramp rule came within 0.4%), costing +61% cross-street queue, +20–24% search time and +80–93% abandoned searches. Salik tolls untouched.

MUTUAL NDA & FEE RULE

AED 0 upfront for this 4-Week Corridor Parking & Exit Queue Study. Zero obligation to continue; any subsequent shadow pilot or rollout runs strictly on terms agreed in writing after your team verifies the findings.

Ready to run this check in writing — zero introductory call required

Request bilateral NDA or local runner: scollado@nodalsystems.ae · Full register: nodalsystems.ae/corridor-equilibrium.html

AED 0 UPFRONT