Better Depots.

Green Field

Establish practical capacity
Test how many buses and departures the depot can reliably support.

Right-size charging
Find the number, power and locations of chargers needed to meet service needs.

Size the electricity supply
Assess energy supply and contracted capacity against realistic operating demand.

Determine fleet and reserves
Account for charging, servicing and turnaround when sizing operational and spare fleets.

Build resilience into the design
Test failures, restricted power and blocked access to identify where redundancy matters.

Compare depot layouts
Evaluate parking, circulation and servicing to reduce congestion and blocked access.

DESIGN A DEPOT WITH CONFIDENCE

Compare layouts and infrastructure before you build, and plan for future demand.

Smoother Transitions.

Brown Field

Plan fleet electrification
Test a phased transition to electric buses while maintaining mixed-fleet service.

Improve departure readiness
Find charging shortfalls, blocked buses and unfinished servicing; validate timetable changes.

Reduce electricity costs
Compare charging strategies against pricing, demand and contracted capacity.

Reduce unnecessary movements
Improve parking policies to cut shunting, queues and vehicle movements.

Maintain service during upgrades
Test temporary parking, access and facilities before each phase of construction.

Prepare for disruption
Compare responses to failures, late arrivals and power restrictions.

MAKE MORE OF YOUR EXISTING DEPOT

Test operational changes, reduce costs and plan the transition to electric buses.

intobyte

CityMoS Depot

PLAN / TEST / OPTIMISE.

Explore layouts, charging and fleet operations in a detailed digital twin.



Request a demo

citymos.net/citymos-depot
info@citymos.net

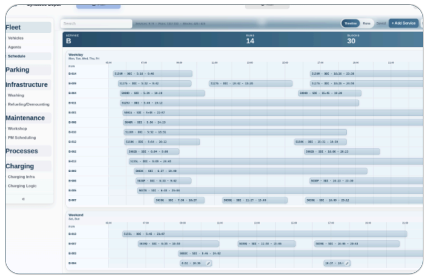
CityMoS Depot

CityMoS Depot

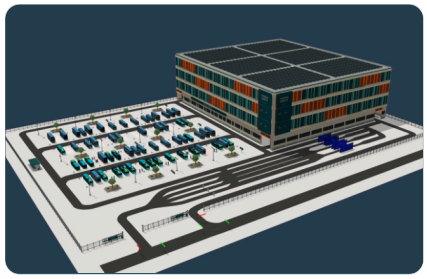
CityMoS Depot is a detailed digital twin for bus depot planning and operations. Model individual vehicles, infrastructure and depot processes to see how a plan performs throughout the working day.

Test alternatives before making changes, compare results and identify opportunities to improve readiness, capacity and cost.

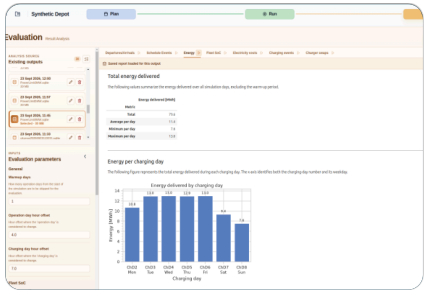
PLAN



TEST



OPTIMISE



Highlights

Individual bus simulation
Track each bus's location, charge and availability throughout the day.

Interactive 3D environment
See depot activity and review scenarios with operational teams.

Detailed electricity costs
Compare charging plans with pricing, capacity charges and efficiencies.

KPIs and automated reports
Turn detailed results into clear performance insights and reports.

Why Detail Matters

The benefits of high-accuracy, microscopic simulation

Reveal bottlenecks hidden by averages
Expose peaks, queues and competing demands that high-level planning can miss.

Capture connected processes
See how parking, charging, washing and maintenance affect each other.

Verify feasibility for every bus
Check whether each vehicle can complete its scheduled duties accounting to their bus type specifications.

Account for access and shared resources
Check routes, chargers, power and staff are available when each bus needs them.

Test resilience under variability
Repeat scenarios with late arrivals, variable task times and equipment failures.

Validate and explain the outcome
Compare with real operations and trace why a plan succeeds or falls short.

CITYMOS DEPOT

See it in action.

Explore how a detailed model turns depot plans into operational insight.

PLAN / TEST / OPTIMISE

From plan to evidence

See the effects of each decision before investing.

01 **Model the depot**
Bring vehicles, space and processes together in one working model.

02 **Test alternatives**
Change layouts, charging plans or schedules and watch the day unfold.

03 **Compare outcomes**
Investigate conflicts, readiness and cost trade-offs across scenarios.

LET'S EXPLORE YOUR DEPOT

Request a demo

Talk to us about your planning and operational challenges.

info@citymos.net
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