

THE ORCHESTRATED SITE • BUS DEPOT

One depot, one flow: from the gate to the bay.

Your own fleet, several stops per visit, assigned automatically and overseen by your controller.



Concept visual: what an orchestrated depot would look like. Layout and data are illustrative.

Better utilisation

The positions you already have, used to the full.

No dispatcher on the routine

Automatic assignment; people handle exceptions.

Lower emissions

Less idling, fewer wasted movements.

Data for decisions

Every movement and dwell, logged.

A depot is different from a freight yard: the vehicles are yours, each visit has several stops, and nobody is waiting at the other end of the bay. So the routine can run itself. TLS sequences every bus from arrival to the next departure, your controller watches the exceptions, and the plan comes from your operations, not from us.

TLS orchestrates the movement, whatever powers the fleet.

Diesel, hybrid or electric: same gate, same plan. Charging system integration is there when you need it.



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The bus depot, step by step

HOW IT WORKS

- 01. Arrival.** The plate is read at the gate and the bus is matched to its timetable; the barrier opens for a vehicle that is expected.
- 02. Sequence.** TLS plans the stops for this visit, wash, fuel or charge, workshop, park, from your priorities: next route, fuel or charge state, maintenance status. No manual assignment for the routine.
- 03. Guide in.** The driver receives the next stop and the route to it, then the one after; signs and lights along the way follow the same plan.
- 04. Depot status.** Bays, vehicle status and occupancy are visible live to the controller and to dispatch.
- 05. Readiness.** Which buses are ready for the next service, which are still being turned around, which are held, at a glance.

WHAT TLS BRINGS

- 01. Automatic sequencing:** next route, fuel or charge state and maintenance status decide the stops, not the order of arrival and not a whiteboard.
- 02. Gate and access control:** plate-reading cameras, barriers and signs driven from the same plan.
- 03. Live depot board:** bays, occupancy and vehicle status in one view for the controller.
- 04. Readiness view for dispatch:** what is ready for the next service, and when the rest will be.
- 05. Movement log:** every arrival, assignment, dwell and departure recorded, for utilisation and emissions reporting.
- 06. Integration path:** fleet, timetable, fuelling and charging systems, so nothing is keyed twice.

When the plan breaks

A bus arrives late, a bay goes out of service, a vehicle is held for maintenance. Because your own fleet is on both sides of the decision, TLS resequences automatically and only the exceptions reach the controller: a bus that will miss its route, a bay that cannot be freed. The log records who decided what.

ONE COMPANY, THE WHOLE SITE

TLS

TRANSPORT LOGISTICS SYSTEM

Start here. Vehicles from arrival to departure: slots, gate, yard, position, exit.

RTLS

REAL-TIME LOCATION SYSTEM

Where every vehicle and asset is, indoors, without GPS.

WMS

WAREHOUSE MANAGEMENT SYSTEM

Inventory and warehouse operations in real time.

M2L

ADVANCED PICK TO LIGHT SYSTEM

Picking guided by light, fast and error free.

ILS

INTERNAL LOGISTICS SYSTEM

Material flow between stores, workshop and line.

AMR

AUTONOMOUS MOBILE ROBOTS

Material moved without adding people.

Veasy

VISITOR MANAGEMENT

Contractors and visitors registered, expected, let in.

Start with TLS, then see what else works for you. One data model, one supplier, from the gate to the back of the shop.

BUILT IN

Lower emissions

Less idling at the gate, fewer wasted movements in the yard, the same routes on fewer buses in the depot: fuel not burned.

ESG reportable

Every movement logged, so the depot has a number when the report asks for one.

People in control

Routine cleared automatically; anything with consequences goes to a person.

Let's orchestrate your piece of the world.

How many stops does a bus make between arriving and leaving your depot, and who sequences them today?

Rudolf Koraus

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