



Asset Digitalization

24,2686 km rails

2,300 stations

1,600

Energy systems Monitored & Controlled Civil Subsystems

120 lifts and escalators

370 automatic gates

250 areas with remotely dimmable led lights

The solution enables digitalisation and georeferencing of all network assets in order to build a Physical Infrastructure Unified Model.

The Physical Infrastructure Unified Model, supporting different company tasks (maintenance, commercial traffic, network development), facilitates and increases information exchange and integration, implementing a detailed knowledge of all occurrences in the field. It integrates pre-existing

models on different systems, adopts international standards (TopoModel UIC, RINF) and national regulations, and provides for continuous Database updating. It merges commercial (stations, stops, junctures, communication points) with infrastructural (rails, cdb, devices, signalling systems, tunnels, bridges, etc.) view, thus handling even different tem-

poral scenarios (past, present, future) and different progressive detail view levels (as per UIC specs).

Network and event georeferencing produces an enormous amount of data, measurements and surveys in order to shift maintenance process from “on condition” model to predictive maintenance 4.0 evolving systems.

