



Lisbon Pilot

Network description, station area characterization, technical means

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ML network



4 Lines	<u>2019 data:</u>
43,3 km	24,8 x 10⁶ Car x km
56 Station	3.180 x 10⁶ Places x km
111 UT (222 M + 111R) Rolling Stock	183,1 x 10⁶ Passengers
	877,2 x 10⁶ Pass. x km

- Founded in 1948 (initial operation in December 1959), it is the Metro operator in Lisbon.
- Connections with all other transport modes.
- OCC with surveillance agents and Transport Police agent.



Pilot Scope

Covering locations in red line at the “Aeroporto”, “Oriente” and in green line at “Baixa-Chiado” and “Cais do Sodré” stations, the main goal is to: detect abandoned luggage in the platforms and tracking the owners on a weekday at rush

hours





Pilot Stations

Airport Station



- End of red line.
- Connection with Lisbon Airport, bus, taxis and rent-a-car.
- Modern and large station, with 3 levels comprising the station lobby, an intermediate level and the platforms level.

Lobb



Platform





Oriente Station

Platform



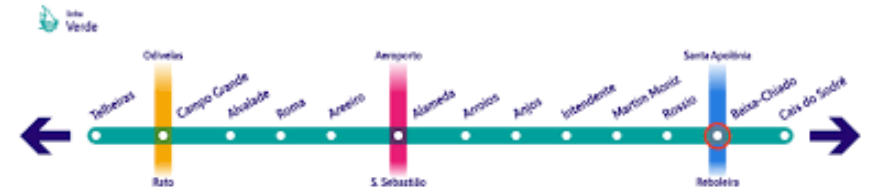
- Red line.
- Connection with International Railway Station, Bus and táxi hub.
- Serving area of large expositions and events; night entertainments
- Modern and large station, with 2 levels comprising the station lobby and the platforms level.

Oriente intermodal station





Baixa-Chiado Station



Lobb
v



Platform



- Double station with Green and Blue lines.
- In city downtown.
- Connection with night entertainments in old Area.
- Station with 2 levels, comprising the station lobby and the platforms level.





Cais do Sodré Station

Platform



Lobby and Northeast side entrance
(trains terminal)



- Terminal Station - Green line.
- Located at an intermodal station with a suburban rail line.
- Connection with ferry boats terminal, trams, bus and taxis.
- Connection with night entertainments near river.
- Station with 3 levels comprising access to trains, the station lobby and the platforms level.



ML CCTV network

- VMS – Indigo Vision (2020)
- 2/3 cameras in each platform, in the lobbys and access corridors,
- ML OCC receive CCTV flows that allow video operators to follow the live streams in case



Pilot action

- 1. Aeroporto station:** Three individuals abandoned luggage and continue travel by metro train,
- 2. Oriente Station:** One of them leaves metro train in Oriente Station and remains in station lobby; the other two continue to green line;
- 3. Baixa-Chiado Station:** The two individuals traveling in green line abandons an item in Baixa-Chiado station and one continue to Cais do Sodré Station;
- 4. Cais do Sodré Station:** The individual leaves the station to ferry terminal.



Cais do Sodré Lobby





Thank you for your attention!



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