



SERVIÇOS
MUNICIPALIZADOS E
TRANSPORTES
URBANOS E
COIMBRA

Trolleys in Coimbra: present status and future challenges

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SMTUC is Coimbra's public transport operator

About us

- Owned by Municipality
- Created in 1920 within the scope of municipal services (water, power, transports...)
- Separated service in 1985

SMTUC in brief figures

- No. of lines: 110
- Network length: 657 km
- Passengers in 2023: 10,927,000
- 468 workers / 297 drivers
- Diesel buses: 179
- BEV: 46
- Reduced mobility minibuses: 5



Trolleys past facts and figures

- Trams introduced in 1911; ended in 1980
- Trolleys started operation in 1947 line of 2.5 km
- Max. number of trolleys 43 in 1990
- Catenary max. extension of 42 km in 1993
- In 1993 starts the decline of trolleys bus lines





Trolleys system

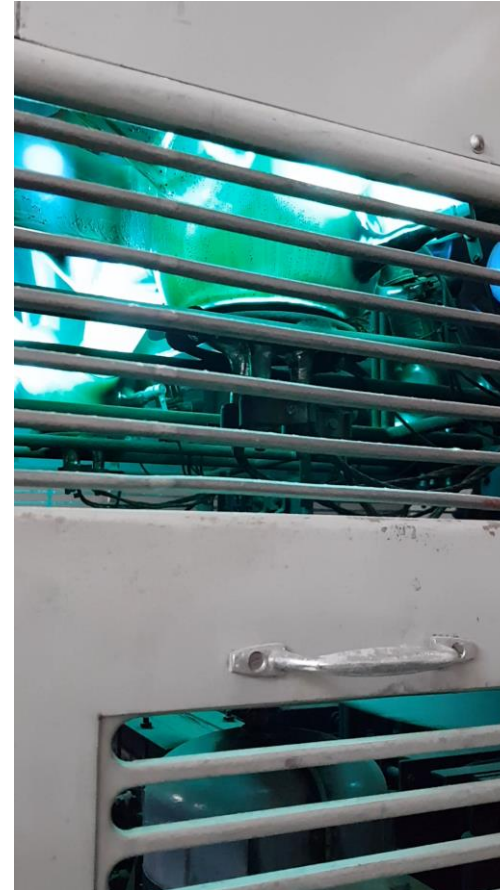
Some reflections...

Trolleys present facts and figures

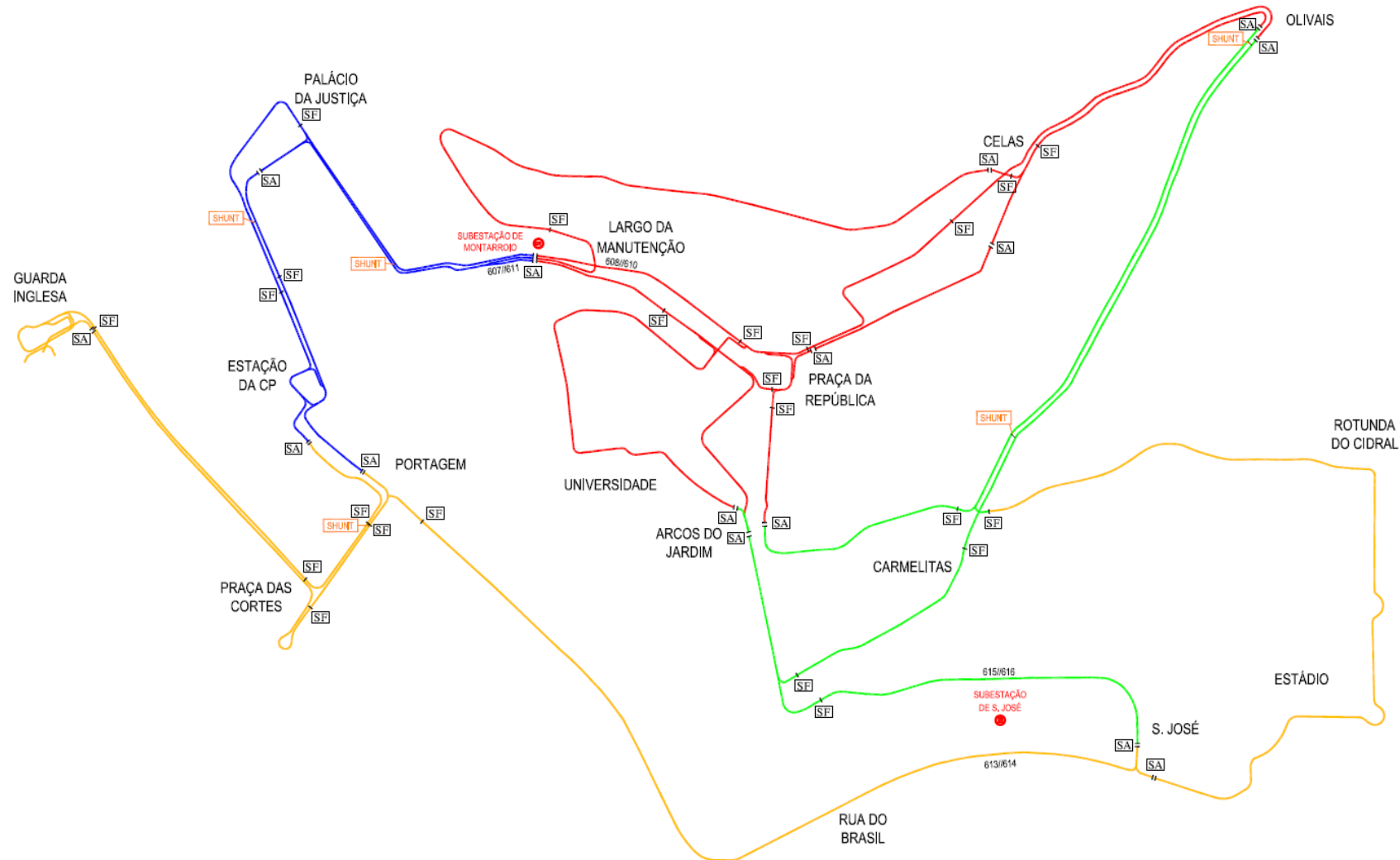
- 4 Salvador Caetano – Efacec
- 1 Solaris Trollino 12
- 2 power substations
 - Montarroio 1956
 - São José 70's
- Catenary extension of 22.25 km
- Operation suspend in 2021



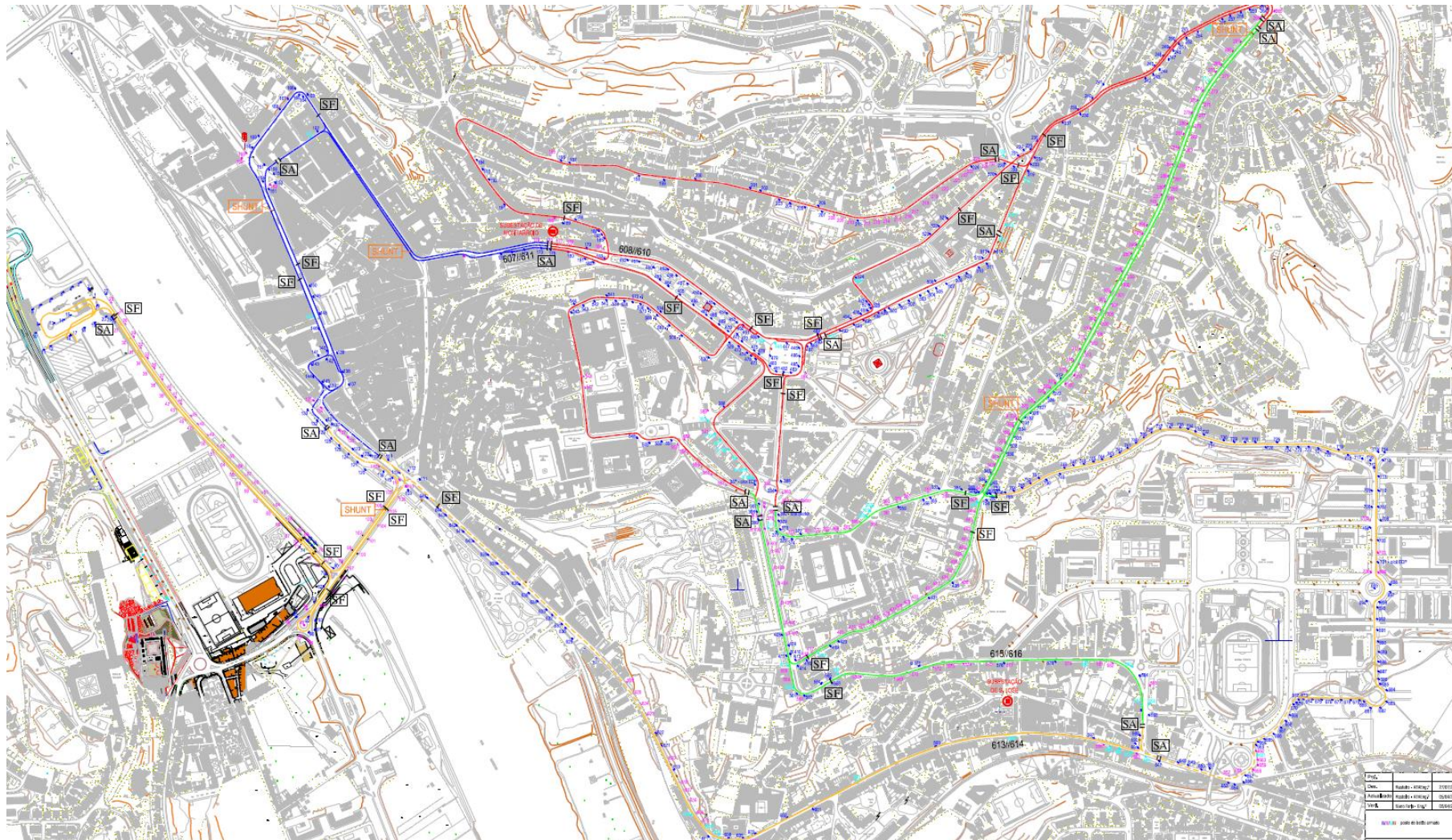
Montarroio's rectifiers



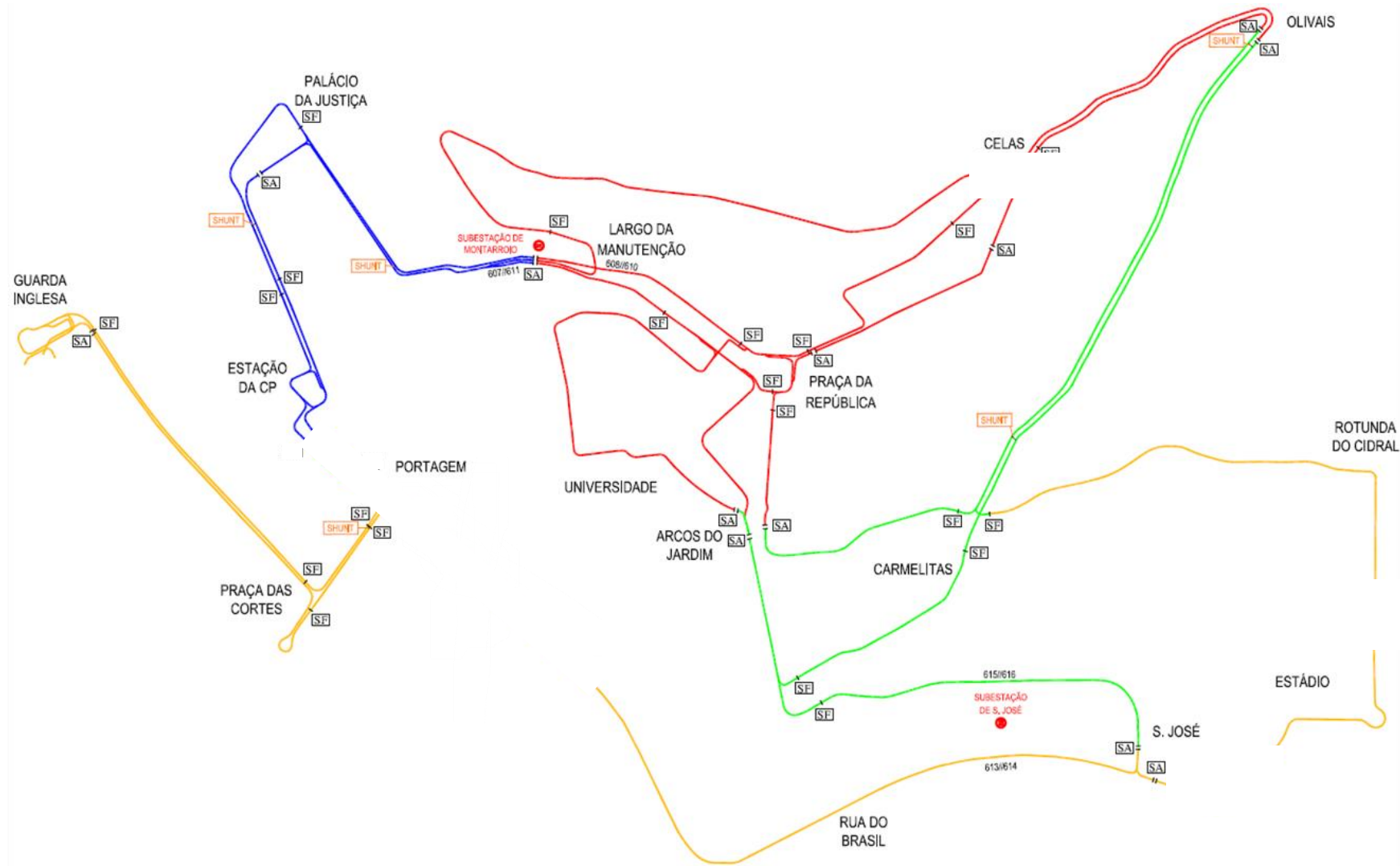
Trolleys present facts and figures



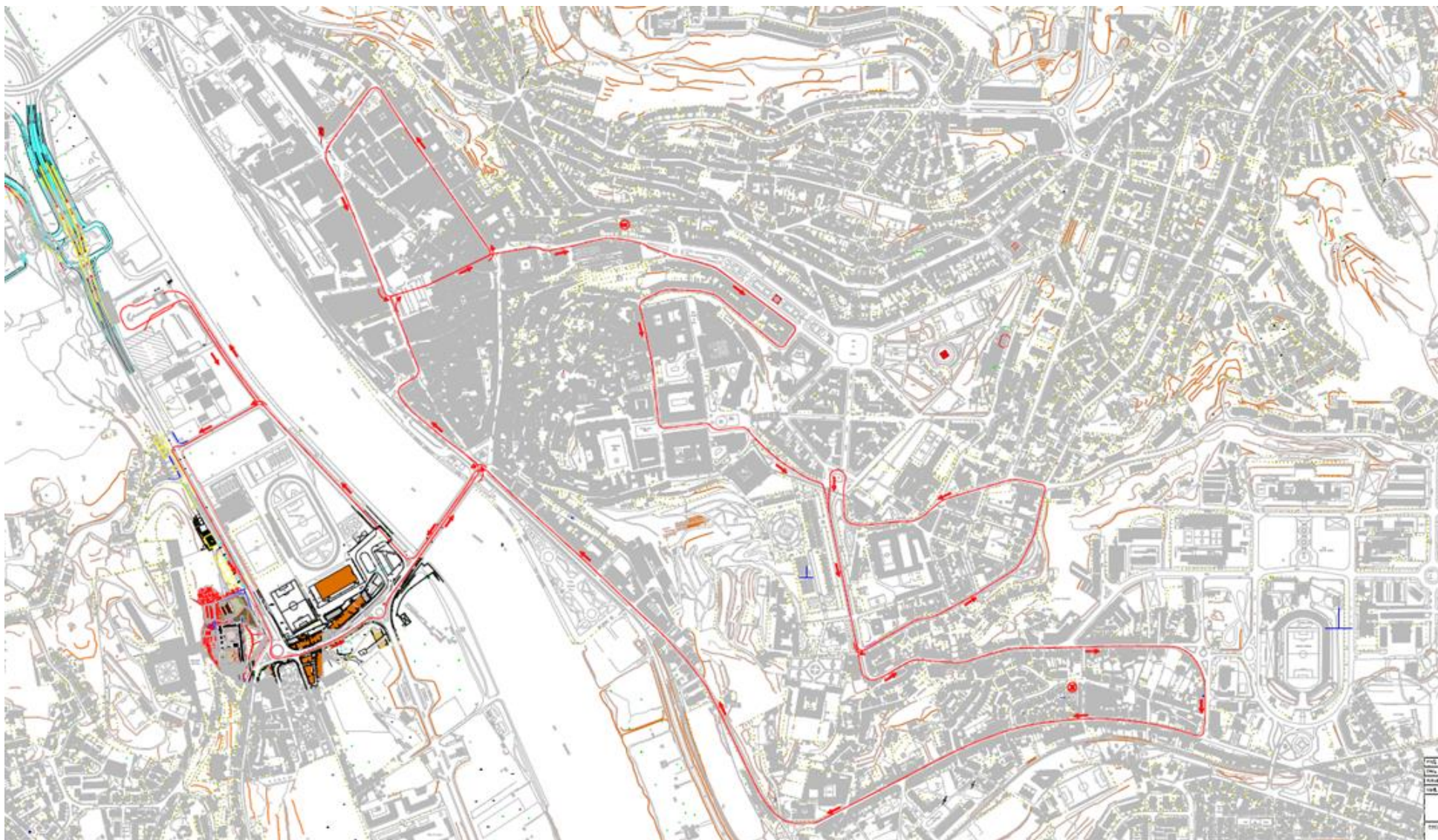
Trolleys present facts and figures



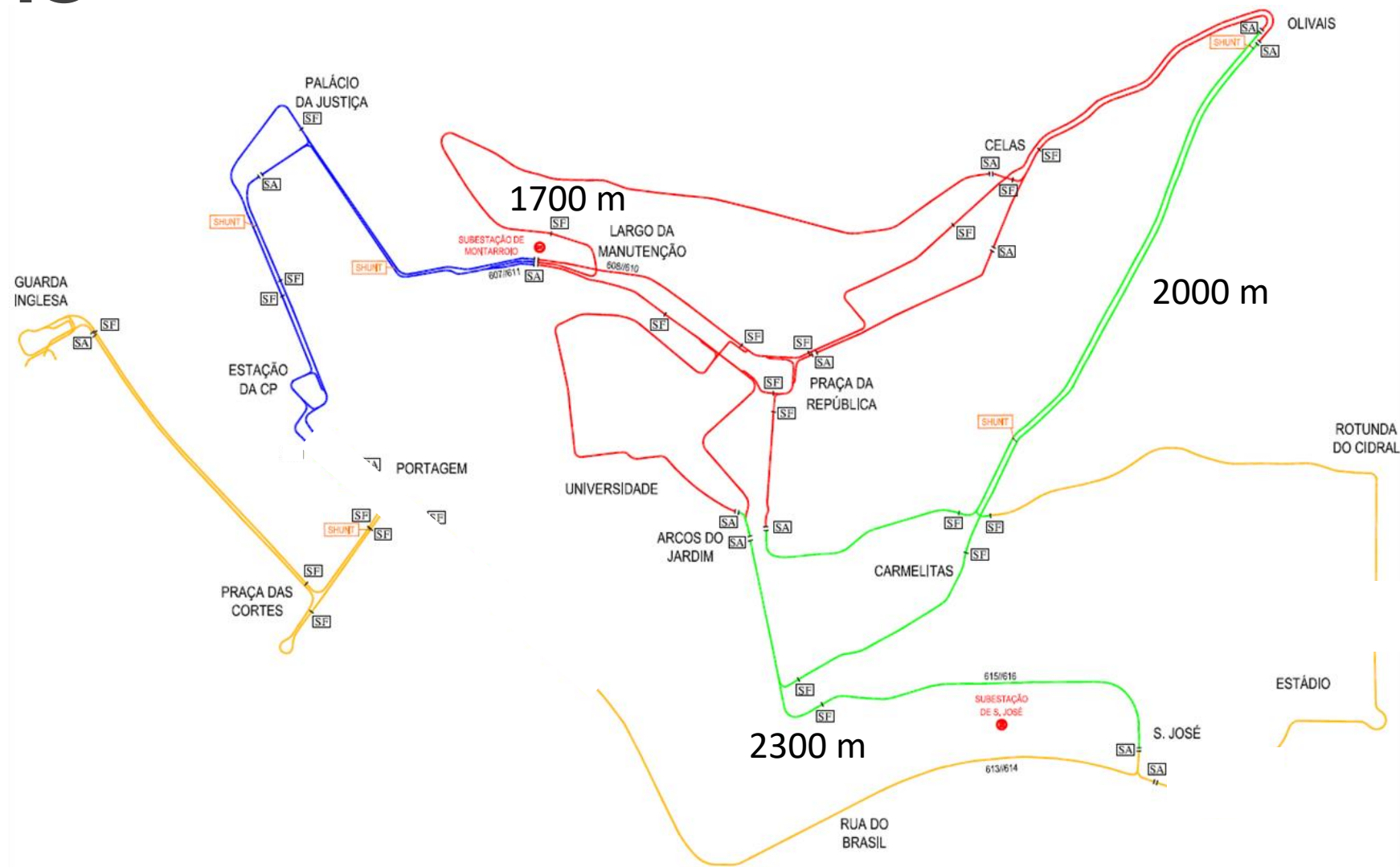
Trolleys present facts and figures



Trolleys future – touristic line



IMC



IMC math

2000-2300m at 18km/h = 7-8min

300 kWh -> 5 kWmin

Expect to charge 35-40 kW

Average consumption : 1,2 kW/Km

Expect 29 to 33 km

Thank you



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