BOLOGNA IS AN ELECTRIC CITY

20 NOVEMBER 2018 (ing. Fabio Monzali TECHNICAL DIRECTOR OF TPER)





trolley:2.0 TPER company for smart cities

5.7M ~ 5.

Tper is one of the largest italian industrial groups operating in the transport sector.

The company manages both **urban** public and extra-urban road transport and regional rail transport

2500 employees

50 million Km covered by passenger transport, of which **5.7 million** on RAIL





railway lines operated by TPER on the tender for signment of the al railway service.

Tper won the tender for the assignment of the regional railway service of Emilia-Romagna from 2019 for 15 + 7 years won by TPER and Trenitalia

In addition, TPER deals with activities in support of sustainable mobility policies, such as car and bike sharing management and the operational management of parking and parking areas.

TPER will manage the **People Mover system** in Bologna











the trains of TPER

Today Tper carries out the service with 94 trains, of which 35 are

electric, as follows:

•6 Ale (elettric)

•47 FIAT Aln (diesel)

•12 PESA Atr (diesel)

•26 STADLER ETR 350 (elettric)

•10 loco BOMBARDIER E464 + double-decker carriages (elettric)







TPER BUSES AND TROLLEY BUSES

Overall, the Tper group now has 1107 vehicles.

4

100 buses are elettric or trolley buses



267 buses are powered by methane



55 buses are hybrids



• 685 buses are diesel buses

architectural barriers, 622 buses are equipped with a platform to facilitate the use of the vehicle by people with reduced mobility. On the other hand, as far as comfort is concerned, 1.107 buses are fully airconditioned (in detail, about 1.844 seats out of 103.091 overall, less than 2% of the service).

Compared to

Almost all buses (with the exception of the new Euro 5, Euro 6, Zero Emission Vehicle and EEV) provide for devices to reduce emissions. Overall, there are only 218 vehicles not equipped with such devices, for which however the replacement is expected over time.







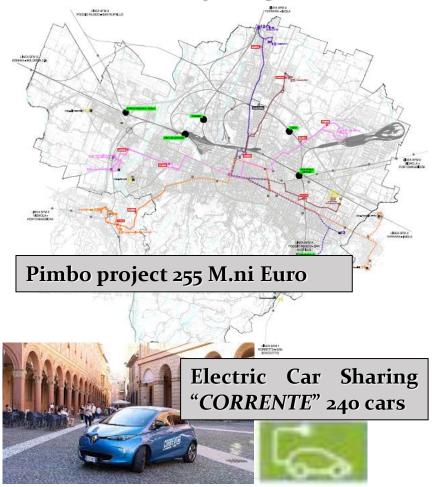








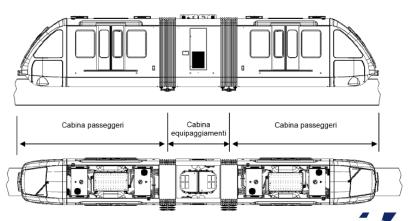
trolley:2.0 new projects for the city of Bologna



People Mover project 102 M.ni Euro



BoBo project with automatic guided driving trolley Iveco Crealis 182 M.ni Euro





BoBo PROJECT 182,2 M.ni Euro

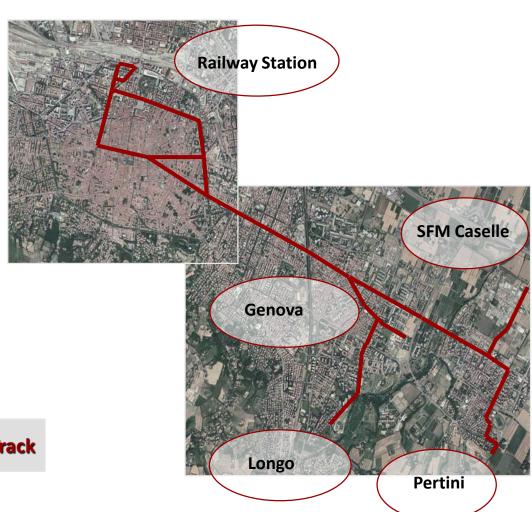




BOBO PROJECT



Track of the project



Track

TROLLEY BUSES IVECO CREALIS WHITH OPTICAL DEVICES

- The Bologna guided road technology is of the "functional" type (intangible armament).
- The control of the trajectory is performed by electronic / optical devices







Thanks for the attention

