

Innovation is the hallmark of ViaQuatro for urban mobility in São Paulo

Line 4-Yellow subway stands out for its unprecedented technologies for the subway system

Responsible for operating and maintaining the Line 4-Yellow of São Paulo's subway, ViaQuatro bets on innovations developed exclusively for the transportation of its passengers with comfort and speed. The technological advantages of the line can be found in the platform doors, in the driverless system, in the chronometers that indicate the time when the next train will arrive and in the display of how many people there is in the cars. The line operated by the first Brazilian Public-Private Partnership transports 800,000 passengers per working day, in 984 trips.

The 29 trains of ViaQuatro operate with a technology that brings together the CBTC (Control of Trains Based in Radio Communication) and the driverless (no driver required) systems. The automation of the line brings predictability and safety, eradicating human failures. Combining the CBTC and the driverless systems also makes it possible to establish operational characteristics such as the speed and the interval of the trains, the number of trips, the time of stops in the stations and the opening of the doors, according to the demand of passengers.

Modernity and comfort can also be found in the stations. Line 4-Yellow was the first in Latin America to start operating with glass walls separating the platform from the rails. The doors open when the train stops in the station, parking at the exact point where the passengers will go in and go out, significantly contributing to the reduction of accidents and interruptions in São Paulo's subway system.

On the platforms, passengers also have access to unique innovations from ViaQuatro. Line 4-Yellow is the only one in the world that has a display showing how many people there is in the next train. Resulting from three years of development, the software monitors the weight of the train and indicates which car has more room to board. The train chronometer, a technology that makes it possible for the passenger to know how much time is left before the next train arrives, is unprecedented among the operators of rail transportation in Brazil.

In addition, the trains of Line 4-Yellow have air conditioning, free passage between cars, little noise and direct communication with the Operational Control Center (CCO). The monitoring cameras follow in real time the movement throughout the entire line, inside the trains, in the stations and in the maintenance and parking yard.

Stations - Line 4-Yellow has ten stations in operation: Luz, República, Higienópolis-Mackenzie, Paulista, Oscar Freire, Fradique Coutinho, Faria Lima, Pinheiros, Butantã and São

Paulo-Morumbi. After concluded, with the inauguration of Vila Sônia Station, the line will have 12.8 kilometers of extension, connection the city center to the West Region. The estimated demand of passengers is of 1 million people per working day.

Integration - One of the main benefits of the Line 4-Yellow to move around in the capital of São Paulo is its integration with other subway and train lines, with the entire system connected. At Luz Station, the passenger can get a train of Line 1-Blue of the Subway, Line 7-Rubi and Line 11-Coral of CPTM (*Companhia Paulista de Trens Metropolitanos*); at República station, Line 3-Red of the Subway; at Paulista Station, Line 2-Green of the Subway, and at Pinheiros Station, with Line 9-Emerald of CPTM.

Recognition - Line 4-Yellow is among the world's 100 most innovative infrastructure projects, according to *Infrastructure 100 World Cities Edition*, edited by KPMG. In 2013, it was chosen as the best PPP (Public-Private Partnership) of Latin America and the Caribbean by *Internacional Finance Corporation (IFC)*, a financial entity connected to the World Bank.

In 2014, ViaQuatro received the Railway Standard Award, category of Passenger Transportation, by *Revista Ferroviária*, with the campaign 'Embarque Consciente' and also the Top Award of Brazil in the category Railway Transportation of Passengers, by *Maiores & Melhores do Transporte, OTM Editora*.

In 2017, ViaQuatro received a recognition from the industry of railway transportation in five awards. UITP (International Union of Public Transportation) Award and Alamys (Latin American Association of Underground Subways) recognized the project Train Capacity (*Lotação de Trem*). The 28th edition of *Revista Ferroviária Award* elected ViaQuatro as the country's best subway operator. The first edition of the PPP Awards & Conference Brazil considered ViaQuatro the Concessionaire of the Year in an event that honored the work of Public-Private Partnerships developed in Brazil. Lastly, *OTM Editora* chose the concessionaire as the Best Railway Passenger Carrier within the 30th Award of Top & Best Transportation (*30º Prêmio Maiores do Transporte & Melhores do Transporte*).

Investment and Pioneering - Line 4-Yellow is the first Public-Private Partnership (PPP) of the Country. This makes it the first line of São Paulo operated by a private company, ViaQuatro. To ensure the service to its passengers, the concessionaire invested US\$ 450 million in systems, equipment and trains. In the 30 years of operation, the investments will total over US\$2 billion.

About ViaQuatro: *ViaQuatro is the concessionaire responsible for the operating and maintaining the Line 4-Yellow of São Paulo's subway and the first PPP (Public-Private Partnership) agreement signed in the country. In Latin America, Line 4-Yellow is a pioneer in the use of the driverless system, automatic operation without a driver inside the train, which allows the permanent supervision of speed, bringing more safety and precision to the operation.*

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