



Press Release

Paris, May 30, 2022

TOTEM will provide mobile coverage for the forthcoming 15 Sud line of the Société du Grand Paris subway

TOTEM will deploy a mobile indoor DAS (Distributed Antenna System) network for the entire 15 Sud line of the Grand Paris Express subway by 2025 and will operate the network until at least 2035.

Passengers on the line will be able to access 5G from end-to-end, between the future Pont de Sèvres (92) and Noisy-Champs (93) stations. This means the 15 Sud line will be one of the first Paris subway lines to have end-to-end 5G connectivity.

Connecting the 16 stations over 33 km to 5G is a real technical challenge. Nearly 40,000 hours of work will be needed to build a DAS network involving around 1,000 active antenna and equipment along the entire 15 Sud line. The technological challenge is particularly acute in the tunnels, where it is crucial to keep equipment dimensions to a minimum and ensure secure coexistence with other communication systems. The technological innovations deployed by TOTEM will be able to limit equipment size in stations and tunnels, as well as keeping energy consumption low.

The Société du Grand Paris (SGP) chose the Orange group, via TOTEM, its Tower Company, to deliver connectivity to the future 15 Sud line. TOTEM, as a Tower Company, will provide all the investment necessary to deploy the infrastructure, before commercializing the network to mobile telephone operators on the same terms and with complete transparency.

TOTEM is a trusted partner that, by enabling shared access to its mobile sites, provides connectivity to the most difficult locations, such as subways, stadiums, offices and malls, thereby contributing to local economic development.

TOTEM is present in both urban and rural areas and aims to extend its connectivity offer across France and in indoor environments. Everywhere possible, TOTEM provides the best connectivity and facilitates 5G deployment for all operators, serving regional authorities, economic hubs and companies.

Nicolas Roy, CEO of TOTEM Group said: *"Indoor connectivity is a priority not just for companies and real estate actors, but also for the entertainment and transport sectors. TOTEM supports its customers from end-to-end, proposing the most suitable connectivity*

solutions and positioning itself as the essential actor for deploying 5G in the most complex locations."

Thierry Papin, Managing Director of TOTEM France, adds that *"With this agreement, TOTEM is fully staking its claim as a major player in indoor connectivity in France. The Société du Grand Paris has chosen a reliable and robust partner to deliver deployment, operator commercialization, maintenance and security for the full length of the 15 Sud subway line. It's a remarkable collective effort, coming to fruition only seven months after TOTEM was created."*

About TOTEM

TOTEM is Orange's European TowerCo subsidiary. Operating in France and Spain as of November 1, 2021, TOTEM manages over 26,000 tower sites, flat roofs and other sites in these two countries. TOTEM aims to become a leader on the TowerCo market in Europe.

A neutral player, TOTEM will provide solutions enabling operators to provide connectivity wherever pooling between operators is possible. A partner of operators, regional authorities, lessors and business, connectivity for everyone and everywhere is a major priority for TOTEM.

More information: <https://www.totemtowers.com/>

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