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In 2012, SYSTRA commissioned nearly 100 km of new light railway line in France, as well as in Casablanca and Algiers.

A great year for the world leader in public transport engineering.

Casablanca, Algiers, Paris as well as Le Havre, Lyon and Brest. In total SYSTRA will have delivered nearly 100 km of new light railway line to its clients throughout 2012.



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NEARLY 100 KM OF NEW LIGHT RAILWAY LINE:

Casablanca: over 30 km, 48 stations

Le Havre: 12.7 km, a 600 m tunnel

Lyon T5: 4 km, 11 stations

Paris T1: 5 km of additional track, 10 stations

Paris T2: 4.2 km of track, 7 stations

Paris T3: 14.5 km, 26 stations

Brest: 14.3 km, 28 stations

Algiers: 9 km of additional track

“Our mission is to develop collective and sustainable mobility solutions worldwide. We design urban flows every day and our activities help to improve the quality of life for local populations. We are involved in the urban regeneration of major cities, such as Casablanca, Algiers and Le Havre. These 100 km of track are a source of great pride to SYSTRA and its employees – as these sustainable public transport projects were completed to budget and to timetable” said Pierre Verzat, Chairman of the Board.

SYSTRA: technical excellence provides the answer to political and economic challenges

SYSTRA has expertise in every project phase from design through to operation and maintenance (preliminary designs, programme management, assistance to the commissioning authority, project management and supervision of engineering work). Of the 28 tramway lines in France, SYSTRA designed 21 and managed over 30 tramway projects worldwide. These include the designs for the world’s first catenary-free tramway in Bordeaux, that uses a ground power servicing system.

SYSTRA has been at the centre of all light railway developments since 1980

1980s: Low-floor tram cars (Nantes, Paris)

1980s: Articulated and modular tram cars (Nantes, Paris)

1990s: Rubber tramway (Nancy, Caen, Clermont-Ferrand)

2000s: Ground power servicing (Bordeaux, Dubai)

2010s: On-board energy storage systems (Paris)

2010s: Permeable track structure (Bordeaux)

2010s: Energy efficient tramways (Paris, Qatar)

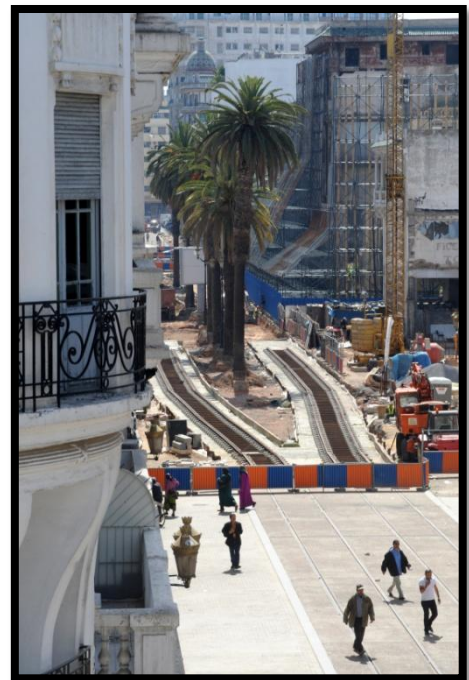
2010s: Compact tramway (Besançon)

This new line set a number of project records:

- Over 30 km of double track,
- 48 stations with 75 m long platforms,
- Capacity for 250 000 passengers/day,
- 65 m long trains,
- An extraordinary technical feat in terms of construction time.

In 2009, SYSTRA responded to an international tender and was awarded project programme management. As the leader of a Franco-Moroccan consortium of engineering firms (SYSTRA Morocco and CID), SYSTRA had to provide expertise in a wide variety of fields:

- Route & track,
- Civil engineering,
- Signalling,
- Traction energy,
- Telecommunications & ticketing,
- Rolling stock,
- Maintenance workshops,
- Supervision of engineering work.



Morocco's economic capital is now equipped with leading edge facilities in terms of sustainable mobility, with the focus on public transport.

The Group has a history of involvement in Morocco's transport projects, having already assisted the Commissioning Authority on the Rabat tramway and won the program management for the extension. It was SYSTRA that produced the preliminary designs for the country's future high-speed lines and is responsible today for programme management on the first section of the Kenitra-Tangier high-speed rail line and construction of a maintenance workshop. SYSTRA is also working on a major assistance programme for ONCF to ensure smooth management of this flagship project.

12/12/12: SYSTRA is inaugurating the Le Havre tramway. As consortium leader, SYSTRA was responsible for programme management.

After 33 months of construction work, Le Havre will inaugurate its first tramway on December 12th. It will link the town centre to its northern plateau via a 12.7 km Y-shaped network.

As programme manager, SYSTRA was responsible for the designs and for supervising civil engineering work (600m tunnel), the tramway platform, overhead contact systems, high and low voltage currents, maintenance workshops and passenger shelters. SYSTRA was also responsible for producing synthesis reports, construction schedule supervision and coordination, compiling safety documentation, managing tests and communications.

15th November 2012, extension of tramway T1 from Saint-Denis to Courtilles.

After 3 years construction work, RATP inaugurated the 5 km extension to T1 and its 10 stations between Saint-Denis and Asnières. This line will make travel significantly easier for residents of the Greater Paris region.

SYSTRA was responsible for:

- Full programme management from scheme designs through to assisting with pre-reception testing operations.
- Coordinating the technical aspects of three management programmes (transport system, urban planning in the Haut de Seine region and urban planning in the Seine-Saint-Denis region) and construction schedule supervision and coordination for this multi-programme (RATP, CG92 & CG93).



19th November 2012, extension of T2 to the Bezons Bridge:

The T2 extension from La Défense to the Bezons Bridge was inaugurated on 19th November 2012. This project involved building 4.2 km of track and 7 stations, as well as restructuring the station at La Défense to add new emergency exits and a maintenance and storage facility for 24 trains.

SYSTRA was responsible for:

- Management of the transport system programme for RATP
- Programme management on specific lots including infrastructures, track, overhead contact system, energy, railway signalling, operating systems (SGE, SAE), station layout and equipment, as well as for all the lots relating to maintenance & storage facilities (construction of frameworks and finishings, technical construction lots, railway lots) and all the lots for reorganising the station at La Défense.

15th December 2012, extension of T3 to the Porte de la Chapelle:

The T3 extension from the Porte D'Ivry to the Porte de la Chapelle will be inaugurated on 15th December 2012. Running along the Southern Inner Ring Road (Maréchaux Sud), this 14.5 km extension to the tramway system will serve 5 Paris districts, 2 neighbouring regions and 11 neighbouring communes. In total, it will create connections to 26 new stations, 2 RER lines, 11 metro lines and 39 bus routes.

SYSTRA was responsible for full management of the transport system programme.

17th November 2012, inauguration of T5, the latest addition to the Lyon network

Since November 17th 2012, it has been possible to travel by tram to Eurexpo, the Lyon exhibition and conference centre. The Line T2 extension splits at the Grange Blanche station to create a 5th tramway line, T5.

SYSTRA was responsible for full management of this project to extend the line by 4 km and create 11 stations. As the leader of a consortium composed of Arcadis and ILEX Paysage & Urbanisme, SYSTRA was responsible for overall programme supervision as well as design and construction of systems (Track, Overhead Contact System, Energy, Signalling, Low voltage current, Testing...).

The project was completed to a particularly tight deadline (18 months construction period) so that the line would be in service for the Pollutec Trade Fair in November 2012.



23rd June 2012, inauguration of Brest's first tramway line

On 23rd June, the first tramway line in the Brest region was inaugurated. Jean-Yves Le Drian, Defence Minister and President of the Brittany Regional Authority, was among the numerous guests.

SYSTRA was responsible for the project programme management.



9km extension of the Algiers tramway

SYSTRA was responsible for full programme management on Algiers first tramway line. Phase I, a 7.2 km section between Bordj el Kiffan and the Cité Mokhtar Zerhouni was inaugurated in May 2011. A further 9 km of track was opened on June 15th 2012, extending the track to the multimodal station of Fusillés to provide access to the city centre.



ABOUT SYSTRA

SYSTRA's objective is to be the world leader in public transport engineering infrastructures and to become the benchmark in collective mobility. In 2011, SYSTRA reported a turnover of €416 million, 50% of which was on international markets, and employed 3,500 people worldwide. SYSTRA manages 3,000 contracts worldwide and has references in 150 countries and 350 towns.

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