



Press release – 10 January 2019

First section of Dakar's Regional Express Train: ENGIE Ineo and Thales deliver on their commitments

The first section of the Regional Express Train (*Train Express Régional, or TER*) that will link the capital of Dakar to Diamniadio (36 km) will be formally handed over in the presence of His Excellency Macky Sall, President of the Republic of Senegal, on **14 January**, as announced when work started in December 2016. Electrical tests were conducted successfully on this section of the TER from 5-9 January 2019.

For this project, ENGIE Ineo (lead contractor) and Thales have mobilised their talent and expertise in the **design and construction of rail electrification, revenue collection, signalling, and telecommunication systems**, working with APIX* (delegated contracting authority for the TER) and a host of project partners.

When both sections are completed in 2020, the Regional Express Train will link Dakar to the new Blaise Diagne International Airport in 45 minutes (14 stations, 55 km of track). This remarkable project will provide Dakar and its suburbs with an ultra-modern transport system featuring the most advanced technologies to ensure the highest levels of safety, reliability, comfort and passenger service. It is part of the Emerging Senegal Plan launched in 2014 to promote the economic and social development of the country, and reflects a commitment by ENGIE and Thales to deliver smart mobility solutions and enable harmonious progress that respects the environment and enables positive human development.

A multi-technology Franco-Senegalese team was put in place to meet this major challenge and provide Senegal with its first rail link equipped with the most high-performance solutions on the market.

World-class expertise to a short deadline

With this project, ENGIE Ineo and Thales have demonstrated their leadership in the specialist areas of energy and rail systems for which they were chosen.

ENGIE Ineo is conducting all the necessary design and development studies, managing the project and supervising overall integration testing with the TER. The ENGIE Ineo and Thales teams are delivering all the technical systems, which include rail electrification systems for the TER, power rail and station power supplies, passenger Wi-Fi connectivity on the trains and in the stations, the passenger safety systems at the stations as well as providing the European Train Control Systems (ETCS) Level 2, which provides train speed supervision,

computer-controlled interlockings, centralised traffic command and control system, axle counters for safe train detection, passenger information system, central ticketing system and gates for each station.

The conditions for completing the project, which crosses the densely populated part of the capital, reflect the know-how of the ENGIE Ineo and Thales teams, who have worked to a particularly short deadline to commission the electrical systems along a significant part of the line, as well as the ancillary equipment needed for the event on 14 January. Working with the design offices in Nantes, Paris and Toulouse, more than 360 personnel were involved, with 252 km of cable laid, 2,700 cu.m. of concrete poured and 2,000 masts installed.

Senegalese engineers and technicians have been an integral part of the project from the design phase, and various local companies have been involved in the work through a skills transfer arrangement.

Effective collaboration between project partners

Positive and constructive teamwork between the many companies involved in the project has also contributed to its success. Everyone was committed to the on-time performance of the various work packages. Coordination with APIX (delegated contracting authority) and Senelec, Senegal's national electricity company, was particularly efficient.

Yann Rolland, CEO of ENGIE Ineo, commented: *"We have successfully managed the complexity of this project and designed a latest-generation TER rail link for Senegal, and have appreciated the expertise and engagement of APIX. We will maintain this momentum for the second, 19 km section, which will link Diamniadio to the international airport. We are determined to pursue our growth and contribute to projects in our core areas of expertise, in line with the ENGIE Group's development strategy."*

Yves Joannic, Head of Main Line Signalling activities at Thales, added: *"As a leader in rail signalling systems, Thales is applying the full scope of its expertise and potential for innovation to this major TER project for Dakar. We are providing our latest-generation products to ensure optimally efficient operation and the highest levels of safety on this line. Once completed, the TER will link the centre of Dakar to the new Blaise Diagne International Airport in 45 minutes, contributing to the economic and social development of the country."*

* APIX: Senegal's National Agency for the Promotion of Investments and Major Projects

Solutions delivered by ENGIE Ineo and Thales

European Train Control Systems (ETCS) Level 2 for train regulation, speed supervision and safety management of the switching systems; power rail and station power supplies; online telecommunication systems for the 14 stations and maintenance centres; passenger safety with CCTV monitoring; passenger Wi-Fi connectivity on trains and in stations; GSM-R system (rail telecommunications network); fire detection; real-time passenger information on platforms and on trains; comprehensive fare collection system.

About ENGIE Ineo

As a creator of solutions for connected urban areas and neighbourhoods (electrical solutions, communications and information systems), ENGIE Ineo has more than 15,000 employees working to meet the needs of a changing world. In 2017, it reported revenues of €2.4 billion.

With a network of 300 facilities in France and abroad, ENGIE Ineo's teams innovate to support their customers in the energy and digital transition. They support them in transport, telecommunications and energy infrastructures projects, service sector and industrial projects, as well as aerospace and defence projects. From design through to production, maintenance and operation, ENGIE Ineo's experts imagine and anticipate tomorrow's needs by developing solutions combining technical and cost-effective performance. ENGIE Ineo is part of the ENGIE Group, one of the leading energy companies worldwide. Find out more: www.engie-ineo.fr

About Thales

The people we all rely on to make the world go round – they rely on Thales. Our customers come to us with big ambitions: to make life better, to keep us safer. Combining a unique diversity of expertise, talents and cultures, our architects design and deliver extraordinary high-technology solutions. Solutions that make tomorrow possible, today. From the bottom of the oceans to the depths of space and cyberspace, we help our customers think smarter and act faster – mastering ever-greater complexity and every decisive moment along the way. With 65,000 employees in 56 countries, Thales reported sales of € 15.8 billion in 2017.

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