



# Signature of the Eurotunnel / Bombardier contract

20 March 2019





# PRESS RELEASE

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## **Eurotunnel entrusts the mid-life renovation of its Passenger Shuttles to Bombardier Transportation**

As part of the 2018-2026 mid-life programme, Eurotunnel is signing a contract with Bombardier Transportation to renovate nine "PAX" Shuttles. Composed in total of 254 wagons, each 800-meter long shuttle is made up for passengers' vehicles with passengers remaining in their vehicles during the 35-minute Channel crossing. In the 25-year period since the opening of the Channel Tunnel, these Shuttles have each travelled an average of 300 round trips per month and have enabled over 236 million passengers to travel very comfortably between France and Great-Britain.

The contract is valued at €150 million (\$171 million) over a period of 7 years. Deliveries of the newly refurbished Shuttles will start in mid-2022 and continue until mid-2026.

Teams from Bombardier France and Belgium<sup>1</sup> originally designed and built these unique vehicles in the 90's and launched Bombardier's activities in France. This year, the company celebrates 30 years since its establishment at the Crespin facility in the Hauts-de-France Region.

*"Mobility technology leader Bombardier brings its expertise and experience to Eurotunnel to renovate the shuttles it uses in the Channel Tunnel. This project, the largest in Europe in terms of scope and ambition, marks a milestone in the development of our refurbishment activities and places Bombardier as the leader of this market in France. As well as their own know-how, our French teams will be able to tap into the overall engineering expertise and processes across the Bombardier group to make a success of this unique project"* **said Laurent Bouyer, President of Bombardier Transportation France.**

*"Eurotunnel has chosen to put its trust in Bombardier Transportation for the renovation of its Passenger Shuttles. We are celebrating 25 years of operation of these unique Shuttles that were built 30 years ago. This strategic investment, our most important in 25 years, allows Eurotunnel to maintain the highest level of quality service and to affirm trust in its long-term perspectives",* **said François Gauthey, Deputy Chief Executive Officer of the Group.**

Bombardier will be responsible for the renovation of 26 wagons on each of the nine Shuttles, including 12 single-deck carriages for coaches, minibuses, caravans and vehicles over 1.85 meters high, 12 double-deck carriages for cars and motorcycles, and 2 double-deck loader wagons, in addition to two spare loader wagons. As project technical advisor, Bombardier will lead the integration and renovation

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<sup>1</sup> Who won the historic cross-Channel Fixed Link contract as a member of the Euroshuttle Wagon Group consortium





operations except for the single-deck loaders and will lead on engineering design and procurement for onboard equipment.

Eurotunnel will undertake design and procurement of key equipment such as brakes, doors, fire doors, fire detection, HVAC and the single-deck loaders. Eurotunnel will manage the homologation process of the renovated Shuttles with the appropriate authorities. Bombardier will provide the technical support to prepare the required documentation.

#### **About Eurotunnel**

Eurotunnel, a subsidiary of Getlink SE, manages the Channel Tunnel infrastructure and operations Truck and Passenger Le Shuttle services (cars and coaches) between Folkestone, UK and Calais, France. Eurotunnel holds the Channel Tunnel concession until 2086 and remains the fastest, most reliable, easiest and most environmentally friendly way to cross the Channel. In 25 years, more than 430 million people and 86 million vehicles have travelled through the Tunnel. This unique land link has become a vital link between the United-Kingdom and continental Europe. <https://www.getlinkgroup.com>

#### **About Bombardier Transport France**

Renowned as France's first industrial rail site, about 2,000 people work on Bombardier's facility in Crespin (Nord), including 500 engineers and managers. The company designs, builds and commissions different types of equipment and is specialized in double deck platforms. Supporting operators, specialized Bombardier teams optimize maintenance and fleet management through predictive maintenance and renovate rolling stock such as the Lille and Grenoble tramways, the Lyons metro and regional trains for the Auvergne-Rhône-Alpes region. Three emblematic projects are now in production: 1) OMNEO (in the Premium and Regio 2N regional versions) is an extra-capacity, double-deck train for the various French regions, which ordered 401 train sets in a contract signed in 2010. 2) Francilien is an ultra-modern commuter train for Greater Paris. Île-de-France Mobilités has ordered 313 trains. Operating since December 2009, it is the best performing train of the SNCF Transilien network, servicing the P, L, J, K and H lines 3) RER NG, under a contract signed in 2017 as part of a consortium for Île-de-France Mobilités, will operate on the E and D lines of the RER

#### **About Bombardier Transportation**

Bombardier Transportation is a global mobility solution provider leading the way with the rail industry's broadest portfolio. It covers the full spectrum of solutions, ranging from trains to sub-systems and signalling to complete turnkey transport systems, e-mobility technology and data-driven maintenance services. Combining technology and performance with empathy, Bombardier Transportation continuously breaks new ground in sustainable mobility by providing integrated solutions that create substantial benefits for operators, passengers and the environment. Headquartered in Berlin, Germany, Bombardier Transportation employs around 39,850 people and its products and services operate in over 60 countries.

#### **About Bombardier**

With over 69,500 employees across four business segments, Bombardier is a global leader in the transportation industry, creating innovative and game-changing planes and trains. Our products and services provide world-class transportation experiences that set new standards in passenger comfort, energy efficiency, reliability and safety.

Headquartered in Montreal, Canada, Bombardier has production and engineering sites in 28 countries across the segments of Transportation, Business Aircraft, Commercial Aircraft and Aerostructures and Engineering Services. Bombardier shares are traded on the Toronto Stock Exchange (BBD). In the fiscal year ended December 31, 2017, Bombardier posted revenues of \$16.2 billion US. News and information are available at [bombardier.com](http://bombardier.com) or follow us on Twitter [@Bombardier](https://twitter.com/Bombardier)

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2019 - 2026



BOMBARDIER



**BOMBARDIER**

Mercredi 20 mars 2019 à 9h30

Signature du contrat « Mi-Vie »  
entre Eurotunnel et Bombardier





2019 - 2026



BOMBARDIER



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*Design impression / © Eurotunnel*





*Design impression / © Eurotunnel*





*Design impression / © Eurotunnel*





*Design impression / © Eurotunnel*



## Eurotunnel Passenger Shuttles

Each of the 9 Eurotunnel Passenger Shuttles consists of two different trains. One has a single deck for coaches, minibuses, caravans and vehicles higher than 1.85m. The other transports cars and motorcycles on a double deck.

A complete Passenger Shuttle is made up of 24 carriages and four loading/unloading wagons and can carry 12 coaches and 120 cars.



The Passenger Shuttles were built in stainless steel by the Canadian group Bombardier Inc., BN (Belgium) and ANF/Bombardier (France). Carriages have been insulated with materials used in the aeronautic industry, providing the best protection against high thermal variations and able to resist fire for 30 minutes. Each carriage is closed at each end with specially designed fire-resistant doors, and equipped with smoke, heat and fire detectors.

The complete renovation of the entire fleet of the Passenger Shuttles by 2025 will allow an increase in reliability and a renewal of the customer experience (connectivity, display, comfort, air-conditioning, environmental impact through the reduction of greenhouse gases...).

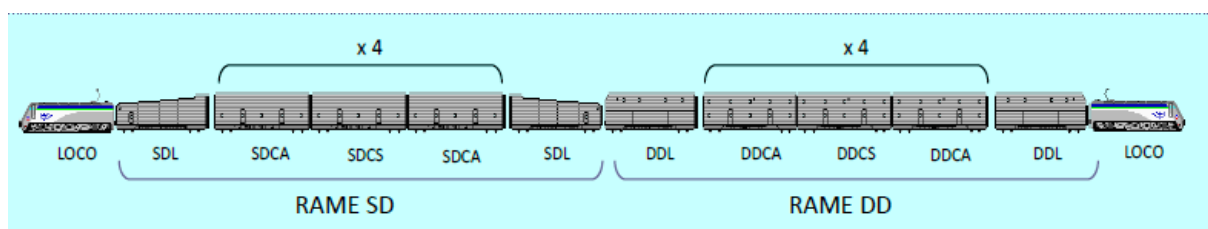


## Mid-life renovation of Eurotunnel Passenger Shuttle

### Bombardier's work scope:

The contract covers the renovation of 9 Passenger Shuttles totalling 254 wagons. Each Shuttle consists of 26 wagons, plus one spare double-deck loader. In addition, Bombardier will upgrade the bogies and the network for 19 single-deck wagons.

- Single deck wagons SDC - carry buses
- Double deck wagons DDC - carry passenger vehicles and motorcycles
- Double deck loaders DDL - loading of the passenger vehicles and motorcycles



Configuration of a Shuttle

### Bombardier's responsibilities:

- Technical advising role to the renovation project implementation
- Lead the integration of new equipment\*
- Lead the renovation operations – revision and/or installation of new equipment
- Conduct the studies and the purchase of certain embarked equipment which will be replaced such as the network, peripheral network equipment (cameras and passenger information), interior equipment, toilets, piping, wiring, etc.
- Modernise the interior design of the wagons

\* single loader wagons, doors and firebreak doors excepted

### Eurotunnel's work scope:

Eurotunnel will lead the renovation of the 19 single-deck loaders.

It will also undertake the study and the purchase of the principal equipment like the brakes, loading doors, doors firebreak, fire detection, HVAC, and the single-deck loaders.

Eurotunnel will manage the certification of the renovated Shuttles from the competent jurisdictions with the technical support of Bombardier which will prepare the required documentation.

### Project calendar:

Studies / Launch procurement from early 2019 to mid-2021

Produce a pre-series Shuttle from mid-2021 to mid-2022

Deliver 8 series Shuttles from mid-2022 to mid-2026





# BOMBARDIER

During the summer peak season, activities will be suspended in July and in August when Eurotunnel needs to use all its rolling stock to operate the service.

**Locations and resources:**

In 2020, during the peak phase the contract, Bombardier will mobilise up to 35 engineers and 150 staff for the operations.

Engineering activities will take place in Crespin. Moreover, Bombardier will create a project platform in Lille to facilitate a strong and regular interaction with Eurotunnel's project teams.

The renovation operations workshops will be in a dedicated Bombardier space on the Eurotunnel site in Coquelles for a period of 5 years.





## Bombardier Transportation Services Activity

Bombardier Transportation's Services division is a global leader in providing operations and maintenance, component repair, rolling stock overhaul and asset life management. We have a truly international customer base from Australia to the U.S and UK, and from Sweden to South Africa.

The objectives of overhaul and refurbishment projects are to ensure the designed service life of the rolling stock, to improve their performance in operation, to enhance passenger experience by with latest rail technology upgrades, and to provide operators with better maintainability, improved energy efficiency, greater comfort and greater safety for passengers.

Bombardier Transportation has completed numerous rolling stock overhaul projects in the world. This service is not limited to components where Bombardier Transportation is the original equipment manufacturer (OEM).

In France, Bombardier has a specialist team with a strong experience in the modernization of trains which carried out projects for SNCF, renovated the tramways 'Mongy' in Lille and 'TFS' in Grenoble. Bombardier teams are also in charge of a renovation project for the Lyon metro and regional trains for the Auvergne-Rhône-Alpes Region.

Bombardier offers its recognised expertise and experience to Eurotunnel for the overhaul of its cross-channel tunnel shuttles. This contract is the largest overhaul project in Europe in terms of its size and ambition. Bombardier Services teams will be able to rely on all of the group's expertise and processes to succeed in this unique project.

Bombardier brings its international experience in the areas of project management, engineering, purchasing and industrialisation, with emphasis on industrial organisation and quality control.

The scope of action includes the following upgrade operations :

- Information system
- Passenger cars design, including equipment for persons with reduced mobility
- Lighting, modern LED lighting
- Luggage storage areas
- Cleanliness
- Security, including CCTV
- Passenger environment, heating and air conditioning
- Punctuality
- Availability and reliability of trains
- Diagnostic systems
- Ease of maintenance
- Energy savings
- Management of obsolescence
- Regulatory compliance
- Whole life cost



