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**Seine-Saint-Denis, France**

## **Award of the design-build contract for 15 Est-2 of the Grand Paris Express, from Bobigny to Saint-Ouen**

**The Société des grands projets has awarded the 15 Est-2 design-build contract for line 15 East of the Grand Paris Express to the IRIS consortium\*. The contract covers the Bobigny - Saint-Ouen section, worth a total of €1.087 billion. Alongside Bouygues Travaux Publics, leader of the consortium, Egis is in charge of the integrated project management during construction.**

This section of the metro, which will run exclusively underground, will be integrated into a very dense urban environment and will extend over the municipalities of Saint-Ouen, Saint-Denis, Aubervilliers, Drancy and Bobigny. Ultimately, line 15 Est will significantly improve the mobility of 675,000 people living in the Paris region and contribute to the attractiveness of the area.

The project, awarded to the IRIS consortium, includes the construction of four new stations (Stade de France, Mairie d'Aubervilliers, Fort d'Aubervilliers and Drancy - Bobigny) and urban development around Saint-Denis - Pleyel station for line 15. The contract also includes digging a 5.5-kilometre tunnel and upgrading 2.5 kilometres of existing tunnel, building four new service structures and upgrading three existing service structures, as well as the rail systems associated with this section.

The contract also includes the construction of housing and office projects above the Mairie d'Aubervilliers and Drancy-Bobigny stations.

To carry out this project, the IRIS consortium has been formed from a group of expert companies that are benchmarks in their sector, in order to meet all the technical, architectural and environmental challenges.

### **A project that respects the environment and is part of the local community**

The consortium, which includes the four architectural practices Atelier d'Architecture Brenac & Gonzalez & Associés, Atelier Novembre, Atelier Schall Architectes Associés and Enia Architectes, has paid particular attention to the design of the projects, focusing on frugality in the choice of materials and architectural design. This committed approach helps to ensure that the projects blend harmoniously into their environment. Sustainability

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IRIS consortium: Bouygues Travaux Publics as leader **Railway Stations and Tunnels subgroup:** Bouygues Travaux Publics (leader), Bouygues Bâtiment France, Bouygues Energies & Services, Bessac, Soletanche Bachy France and Soletanche Bachy Tunnels, Tedelis. **Integrated Project Management sub-group:** Egis (leader), Atelier d'Architecture Brenac & Gonzalez & Associés, Atelier Novembre, Atelier Schall Architectes Associés, BG Ingénieurs Conseils, Enia Architectes. **Systems sub-group:** Colas Rail (leader), Alstom.

and adaptability are at the heart of the design, with property developments offering the flexibility to adapt to changing uses.

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The consortium will endeavour to deploy all its resources in terms of innovation to meet environmental challenges, in particular the reduction of greenhouse gas emissions. It is giving priority to the re-use of used materials, the application of low-carbon fiber-reinforced concrete for the tunnel segments, and the use of electric vehicles and site machinery, which help to reduce CO emissions. Finally, the integration of a collaborative approach to reduce waste will be deployed on the construction sites.

Throughout the project, the consortium is committed to maintaining a close dialogue with all stakeholders in the areas concerned, in particular local authorities, users and associations. This will give rise to partnerships, including 380,000 hours of work experience. The consortium also plans to outsource at least 20% of its work to SMEs.

The section is scheduled to come into service in 2031.

### **An integrated and innovative approach to design.**

In order to ensure optimum design and implementation, with the aim of guaranteeing technical and architectural quality, meeting deadlines and controlling costs, the Egis group is mobilising all its skills (underground works, station construction, transport systems and buildings) to offer to the IRIS consortium and the Société des Grands Projets an integrated approach encompassing all the technical areas essential to ensure the project's success.

The development and use of digital tools based on Building Information Modeling (BIM) are opening up new perspectives for the design of large, complex projects:

- The introduction of collaborative BIM platforms enables all those involved in the design process (architects, engineers, builders) to interact in real time on the design of structures.
- The 3D models give the various stakeholders an immersive view of the structures, anticipating their integration into the surrounding environment.
- The data integrated into the BIM models provides invaluable indicators for managing the project, particularly with regard to the carbon footprint of the construction.

## **The Egis Group**

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**IMAGINE. CREATE. ACHIEVE.**  
*a sustainable future*

Egis is an international player in architecture, consulting, construction engineering and mobility services. We design and operate intelligent infrastructures and buildings that meet the challenges of the climate emergency and enable more balanced, sustainable and resilient land use planning.

Present in 100 countries, Egis puts the expertise of its 19,500 employees at the service of its customers and develops cutting-edge innovations for all projects. Through the diversity of its areas of activity, the Group is a key player in the collective organisation of society and the living environment of citizens throughout the world.

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