

INDRA AND AMEY JOIN FORCES TO TRANSFORM THE RAIL INDUSTRY WITH NEW DIGITAL AND INTEROPERABLE SIGNALLING SYSTEMS

- **Both companies have agreed to collaborate to establish an open digital signalling ecosystem that enables all types of technologies to coexist while guaranteeing the highest levels of safety and cybersecurity**
- **The digital signalling ecosystem will include digital interlocking, European Train Control System (ETCS) technology, as well as artificial intelligence and other capabilities to automate and enhance the design, development and testing phases**
- **Indra and Amey bring together decades of experience in digital signalling and project execution to offer a modular and interoperable solution, capable of integrating with third-party systems and with an approach that prioritises collaboration, innovation and security**

Madrid, November 30th, 2023 - Indra, a leading global technology and consulting company, and Amey, a leading British company in full lifecycle engineering, operation and decarbonisation solutions for transport infrastructures and complex facilities, have agreed to collaborate to transform the rail signalling market in the United Kingdom with an innovative proposal.

Based on decades of experience in the field of control, safety and railway signalling and in the execution of complex projects, the companies have established an open and interoperable digital signalling ecosystem that, with the highest levels of safety and cybersecurity as one of its key pillars, will permit all types of technologies to coexist. It is a modular solution, capable of integrating with third-party systems, with an approach that prioritises collaboration, innovation and security.

Indra and Amey will develop and integrate digital signalling solutions in accordance with open standards and with the highest levels of safety, including digital interlocking and European Train Control System (ETCS) technology. This technology could ensure the safety of rail traffic, as it is responsible for continuously monitoring the speed of trains, triggering automatic braking to accommodate traffic flow to existing signalling conditions, as well as for optimising the distance between trains and, therefore, the capacity of the lines.

The development and use of technologies to automate the design and verification testing of these solutions is also planned, as well as the possibility of incorporating AI in the design, development and testing phases.

"This agreement with Amey allows us to move forward in the railway sector with a groundbreaking open signalling proposal, as well as to strengthen our presence in the United Kingdom, a market in which we have a long-term vision and in which we are achieving important milestones and projects with top-class clients in the field of transport and mobility," explains Raúl Ripio, director of Indra's Mobility business.

James Holmes, Amey's Rail Sector Director adds: "With considerable investment in the UK's rail infrastructure, it is critical that every intervention delivers a safe, reliable railway for passengers and freight traffic. The collaboration between Amey and Indra offers a unique approach to the rail market. The dynamic mix of our project delivery expertise and world class mobility control technology has created an innovative digital signalling solution which is both scalable and adaptable to meet the challenges of the UK's historic rail infrastructure."

Cutting-edge technology

Indra has become one of the leading technology companies in the railway sector thanks to its commitment to innovation. The latest end-to-end technology solutions developed by Indra have positioned themselves at the forefront of the sector and have been or are being rolled out in countries such as Australia, the Netherlands,

Ireland, Estonia, Lithuania, Saudi Arabia, Mexico, Colombia, Argentina, India and Malaysia, as well as Spain and many others.

For example, Indra's rail traffic management system (TMS) has continued to strengthen its position as the most advanced system currently in operation, and has been chosen in recent years to manage the Irish and Estonian rail networks. In terms of railway safety, Indra has strengthened its position with major deployments in Spain and Lithuania.

As one of the largest and most diverse multi-disciplinary organisations in the UK rail industry, Amey expertly integrates its operational project expertise and in-house engineering and data capabilities to create value at every stage of service delivery. From delivering major infrastructure projects, such as the Transpennine Route Upgrade, to operating as the Infrastructure Manager for the Core Valley Lines network, Amey proudly collaborates with its clients, supply chain and communities to design and implement bold, innovative solutions. Introducing technological products and systems has created intelligent, whole-life solutions to support its clients to decarbonise transport, operate safely and improve passengers' journeys.

About Indra

Indra (www.indracompany.com) is one of the leading global technology and consulting companies, and a world leader in technological engineering for the aerospace, defence and mobility markets and digital transformation and information technologies in Spain and Latin America through its subsidiary, Minsait. Its business model is based on a comprehensive range of proprietary products, with an end-to-end, high-value approach and a significant innovative component, making it the technological partner for the digitalization and key operations of its clients around the world. Sustainability forms part of its strategy and culture in order to overcome current-day and future social and environmental challenges. In the 2022 fiscal year, Indra achieved revenue totalling €3.851 billion, with almost 57,000 employees, a local presence in 46 countries and business operations in over 140 countries.

About Amey

Amey is a leading provider of integrated engineering, operational and decarbonization solutions for transportation infrastructure and complex facilities. Its goal is to deliver sustainable infrastructure solutions that improve lives and protect our common future. Amey combines exceptional expertise in consulting and design, advice and analysis, transportation infrastructure and complex facilities to design, manage and maintain clients' assets throughout their useful life. Its leading data and analytics capabilities enable it to create transformative solutions that strengthen resilience and drive sustainable improvements.

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