



## Press Release

### **MOBILITY, BIG DATA AND AUGMENTED REALITY WILL BE THE HIGHLIGHTS OF INDRA'S STAND AT THE SMART CITY EXPO WORLD CONGRESS IN BARCELONA**

- **Indra will have its own space in the Smart Plaza, where it will give demos of its solution to help cities implement policies to reduce traffic congestion and promote public transportation**
- **It will also exhibit selected utilities of its Sofia2 platform, using IoT, cloud and big data technologies in fields like smart tourism and the analysis of information generated in cities' social media and sensors**
- **Through the practical cases on display, visitors will be able to appreciate the vast potential offered by augmented reality, 3D modeling and geolocation, and discover solutions for integrated safety management**

At this new edition of the Smart City Expo World Congress in Barcelona, Indra will exhibit a sample of the solutions that have made it one of only a handful of companies worldwide able to provide a comprehensive integrated offering for addressing the challenges posed by the cities of the future. The consulting and technology multinational will use the event to present some of its most innovative technologies in fields like the smart integrated management of public transportation and the applications of big data, IoT (Internet of Things) and augmented reality for key economic sectors like industry, energy and tourism. It will also unveil its solutions to promote the sustainable management of water and integrated safety management.

#### **Shorter journey times and the integrated management of transportation modes**

The company will have its own space in the Smart Plaza – a model city for companies to showcase their technologies in a real setting – where it will exhibit the possible applications of iSGI, its solution for helping cities to introduce groundbreaking mobility policies aimed at reducing traffic congestion and promoting public transportation. The integration of this tool with urban traffic control systems has improved the speed and management of public transportation, with an evident positive impact on mobility and safety in towns and cities. A key reference in this respect is Transantiago, the integrated public transportation system introduced in the capital of Chile, which includes buses and the subway. Control of the lanes used exclusively for public transportation in the city has reduced bus journey times by an average of 30%.



Meanwhile, in the field of smart sustainable mobility, Indra will present iSMOV, the platform it has developed to help cities create intermodality policies and coordinate public and private transportation, thus establishing a new efficient and sustainable urban transportation model that is capable of satisfying citizen demands. The platform also provides cities with tools to improve the management of urban services by tailoring the resources used to the precise needs of each area.

For example, the platform centralizes all the information received via a single channel and in real time, minimizing congestion in the city center, improving the punctuality and safety of transport, and reducing the emission of contaminating gases and noise pollution. Other useful features include access to different transportation modes thanks to a single integrated mobile ticketing system and the creation of new channels of communication with citizens. In the Smart Plaza Indra will also exhibit a control console belonging to the OAS (Operation Assistance System) for urban buses as one of the various subsystems supported by iSMOV.

Finally, Indra will also install an outdoor public charging point for electric vehicles as part of iCAR, its comprehensive support solution for the widespread implementation of electric vehicles. In addition to platforms for delivering charging services, including the control and management of the equipment and communications, iCAR includes highly efficient charging points.

### **City information in real time**

Indra will also take advantage of its stand at the congress to present a range of new utilities incorporated in SOFIA2, its infrastructure solution for developing smart solutions (including, for example, smart cities, smart energy, smart health and smart retail) with business capabilities like deployment in the cloud and big data. The company is currently exploring the possibility of integrating its smart tourism solution with SOFIA2 to provide tourists with easy access to all the information generated in the city in real time.

Also on display will be examples of successful experiences in smart tourism, such as the provincial council of Pontevedra's use of the solution to reinforce the "Rías Baixas" brand. A smart technology platform to manage resources and design personalized offerings based on tourists' experiences, the solution features advanced CXM (Customer eXperience Management) technologies, which store the data that visitors generate when they use and personalize the portal and mobile applications, as well as business analytics tools to exploit all the information generated through the interaction of travelers with the sector professionals.

Visitors to the Indra stand will also be able to access the cloud version of SOFIA2 (<http://sofia2.com>) and discover some of the possibilities offered by the "city's nerve center" in areas such as the live streaming of social media and the geovisualization of real-time information on bus routes, the temperature, Wi-Fi networks and lighting.

### **Augmented reality to promote public products and services**

The vast potential offered by augmented reality and 3D modeling technologies for cities and their inhabitants will be amply demonstrated by the solutions exhibited at Indra's stand. For



example, there will be a pilot test with an application for retail companies specializing in the sale of furniture products. The tool will have sophisticated augmented reality and 3D modeling features, demonstrated through immersive glasses and designed to "maximize" the user's experience in choosing a product. The solution is targeted at companies interested in enhancing the way they market their products and services.

In this same field visitors will also be able to find solutions for scale models of buildings and viewing their interiors, particularly targeted at architects and engineers who are keen to market their creations in a highly visual way. In this case, markers or photos will activate virtual realities of the physical reality from a mobile device, showing the scale models and entering selected floors in the building.

A smart mobility solution for utilities companies is another of the company's new developments in this field. In this case, the tool lets users check and locate assets, see 3D views of underground pipes and valves through the camera on the mobile device, and obtain information about each component. The benefits are the prevention of possible weak points in the network, optimized maintenance, and the provision of a more global view of every element in real time.

Finally, Indra will pilot an indoor solution for tracking and locating moving assets. The emission of data from the tags will show changes in position on a laptop screen and determine the current position of both people and objects inside a closed area where GPS signals are difficult to obtain. Monitoring the movement of goods between floors and controlling moving equipment inside closed areas are just some of the applications of this solution.

### **Smart integrated safety management**

Safety is another key area that will be highlighted at the Indra stand. The multinational will exhibit two solutions: iSAFETY, for the integrated management of emergency situations and safety incidents in cities; and Integra.Net, for infrastructure protection (alarm centers, urban video surveillance systems, automatic video analysis, and fire protection and access control systems).

Indra, chaired by Javier Monzón, is one of the world's largest consultancy and technology multinationals, a leader in Europe and Latin America and is expanding in other emerging economies. Innovation is the cornerstone of its business, which is highly focussed on the customer and on sustainability. The multinational is one of the leaders in its sector in Europe in terms of investment in R&D and innovation, having invested more than €570M in the last three years. With sales approaching €3,000 million, it employs 43,000 professional and has customers in 138 countries