

## **INDRA WILL MAKE BUDAPEST THE MAJOR INTERNATIONAL AIRPORT IN EUROPE TO MANAGE LANDINGS AND TAKE OFFS REMOTELY**

- **Indra has been awarded a contract for delivering a complete and integrated solution that will allow HungaroControl to remotely manage Budapest Ferenc Liszt International Airport**
- **This will make Budapest the first European airport and largest in the world to be managed by air traffic controllers located outside of the airport area**
- **Flight safety and efficiency will improve compared to a conventional airport tower operation, thanks to Indra's state-of-the-art remote tower solution**

**Madrid, October 26, 2021.-** Indra's new contract with Hungarian air navigation service provider HungaroControl marks a milestone in the modernization of air traffic management. Budapest is the first of the European capital airports to have its air traffic controlled from a high-tech facility outside of the airport premises.

Indra's integrated solution will provide air traffic controllers with an even better visual overview than what you get from a conventional tower. And, they will have all required information, air traffic control functionalities and safety functions available from a single integrated display, a concept already operational at remote control centers.

"HungaroControl is preparing for the future of air traffic management. With the remote tower solution from Indra, we take a giant step forward in achieving our objectives", comments Mr. Kornel Szepessy, CEO of HungaroControl. "Smart technology and automation are tools to support human decision-making. By providing our air traffic controllers with the newest technology, we enhance operational efficiency and situational awareness. This benefits us, the airport, the airlines and ultimately the passengers."

Indra has been collaborating closely with HungaroControl for nearly two decades. In 2006, the company was awarded the contract for delivering an InNOVA Advanced Surface Movement Guidance & Control System (A-SMGCS) for ground surveillance at Budapest Airport. This system has later been upgraded to include innovative safety functions and automated routing and guidance functionalities, some of which Indra and HungaroControl have developed in partnership under EU's Single European Sky research program (SESAR). Since 2015, HungaroControl has been using the InNOVA Tower System in their remote contingency centre. This project, named rTWR, won the Jane's ATC Award in 2018.

Whilst air traffic controllers normally need to monitor several different screens to get the full overview, the InNOVA Tower System stands out by integrating all relevant functions and information into a single display. Reducing the number of screens improves the controllers' situational awareness, their efficiency and ultimately the flight safety.

As part of the new project, HungaroControl will also get a label-based flight plan system with additional flight lists integrated into their tower display. This further contributes to a seamless digital working platform for the controllers. The system is prepared for delivering multi-airport operations.

With IRTOS, Indra's optical solution for remote towers, HungaroControl gets the highest 4K image quality. They will enjoy a seamless panoramic view of the airport, with colour night vision and virtual overlays. Cameras will be located at various sites on the airport to enhance the visual observation of the airport and other areas of interest to the controllers. Thanks to augmented reality, the controllers can zoom, identify and automatically follow moving objects. The visual presentation will also include additional information such as MET, safety nets, highlight of geographic features etc. which are enhancements compared with a traditional tower out-the-window view.

"We are very proud to be trusted by HungaroControl to collaborate with them in yet another pioneering project. Not only do we collaborate on research in SESAR projects, but we manage to put the theory into practice and

implement technology and complete solutions that will shape the future of air traffic management.” says Eldar Hauge, Managing Director of Indra in Norway.

Indra's InNOVA Tower System is already used to remotely control several Norwegian airports in what is known as the world's largest remote tower programme, by Norwegian air navigation service provider Avinor.

Indra will deliver three separate systems, one to be used operationally, the second to be installed at their contingency centre and the third to be used as a test system. The implementation project starts immediately and is expected to run for the next two years.

### **About Indra**

Indra ([www.indracompany.com](http://www.indracompany.com)) is one of the leading global technology and consulting companies and the technological partner for core business operations of its customers world-wide. It is a world-leader in providing proprietary solutions in specific segments in Transport and Defense markets, and a leading firm in Digital Transformation and Information Technologies in Spain and Latin America through its affiliate Minsait. Its business model is based on a comprehensive range of proprietary products, with a high-value focus and with a high innovation component. In the 2020 financial year, Indra achieved revenue of €3.043 billion, near 48,000 employees, a local presence in 46 countries and business operations in over 140 countries.

### **About HungaroControl**

HungaroControl, the Hungarian air navigation service provider (ANSP), provides air navigation services in Hungarian airspace and - on a NATO assignment – in the upper airspace over Kosovo, trains air traffic control personnel and conducts air navigation research and development. In recent years, the company has been making ground-breaking efforts in leading and supporting innovation to improve flight safety, increase capacity, reduce airline costs, and enhance environmental protection. Introducing Hungarian Free-Route Airspace, implementing Controller Pilot Data-Link Communication, demonstrating a unique Remote Tower solution and providing ATC services in the upper airspace over Kosovo, are just some of our key achievements.