

CIVIL AVIATION DEPARTMENT OF HONG KONG AWARDS CONTRACT ON GBAS TRIAL TO INDRA

- **The Civil Aviation Department of Hong Kong has awarded Indra with a contract for provision of services in carrying out flight trials of Ground-Based Augmentation System (GBAS) at the Hong Kong International Airport**
- **Indra has worked with satellite-based landing systems since 1997, and this is their first contract in Asia for their next-generation NORMARC GBAS ground equipment**
- **The GBAS flight trials, at one of the world's leading airports, confirms that the industry is opening its eyes to how satellite landing systems benefit airports' capacity, cost efficiency and environmental impact**

Asker, October 2th, 2018.- The Civil Aviation Department of Hong Kong has awarded a tender to Indra's Norwegian subsidiary through an open tender exercise for provision of services in carrying out GBAS flight trials at the Hong Kong International Airport (HKIA). Indra will provide NORMARC GBAS ground equipment, flight procedures and ionospheric analysis for a series of flight trials that will be conducted later this year.

Indra was the first company to start delivery of commercially operational satellite landing systems, used at various Norwegian airports since 2007. This is the first of their GBAS related contract in Asia. "GBAS is the future of landing systems, with significant cost, capacity, safety and environmental benefits. We are very pleased to be the selected service provider through an open tender exercise for this important project at the HKIA", says Linda Lavik, GBAS Product Manager at Indra in Norway.

GBAS provides highly accurate navigational guidance to aircraft, allowing steeper and shorter glide path approaches. With potentially 48 approaches from one system and no sensitive areas, GBAS is expected to initially supplement conventional instrument landing systems (ILS) for resilience, improved efficiency and operational flexibility. Indra's NORMARC 8100 GBAS system is capable of safely guiding aircraft even in CAT III low visibility conditions.

The Civil Aviation Department of Hong Kong regulates the civil aviation activities and is the air navigation service provider in Hong Kong. Hong Kong International Airport is ranked as the world's third-busiest international passenger airport, and had more than 72 million passengers in 2017.

About Indra

Indra 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 Defence markets, and the leading firm in Digital Transformation Consultancy 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 2017 financial year, Indra achieved revenue of €3.011 billion, with 40,000 employees, a local presence in 46 countries and business operations in over 140 countries.