

AIR BASE OF THE FUTURE: INDRA SHOWCASES THE TECHNOLOGIES SET TO STRENGTHEN THE OPERABILITY OF SPANISH FIGHTER JETS

- **Indra is developing systems and processes that will enable the Air and Space Force's future Connected, Sustainable and Intelligent Air Base (BACSI) to operate in a new environment, one in which data and artificial intelligence will be decisive in maintaining technological superiority.**
- **The company combines digital technologies to connect professionals, tools and platforms and move towards intelligent sustainability that places people at the heart of all the activity.**

Madrid, October 18, 2023.- Indra showcases the digital technologies that will enable the Air and Space Force to drastically increase the level of operational availability of its aircraft, the control of its operations and the efficiency with which it carries out its maintenance activities at the Connected, Sustainable and Intelligent Air Base (BACSI) technology demonstration sessions, currently being held in Albacete from October 18 to 20.

The aim is to prepare Spanish air bases for a scenario in which artificial intelligence and data will become the key factors in ensuring the maximum possible operability of the aircraft while extending their life cycle. Aftermarket Business Manager, Pelayo Alvarado, explained that "Indra's proposal is fully aligned with the Air and Space Force's vision of moving towards bases where people, tools and processes are completely connected and the work is streamlined, applying artificial intelligence to facilitate the planning and decision-making and ensuring optimal use of the resources in a more environment-friendly manner".

In this regard, taking the aircraft as the central asset, Indra has developed a recording system or PMDS (Portable Maintenance Data Store) that collects parameters from the Eurofighter systems in flight.

As soon as it lands, the data are transmitted wirelessly to the Sherpa system, developed by Indra in accordance with the requirements of the Air and Space Force, which uses artificial intelligence to predictively detect potential failures. This information immediately reaches the specialists, who are able to access it directly via their smartwatches and tablets beside the runway.

The faults, once they've been confirmed by the specialist, are automatically transferred to the Maesweb maintenance system of the Armories of the Air and Space Force, together with the appropriate evidence captured by means of an innovative system with augmented reality glasses, in such a way that all the diagnostic activity is recorded and shared with the following levels of maintenance, thereby preventing the slightest loss of knowledge.

The entire maintenance operation is perfectly synchronized and supported by digital tools in the hangar. Each part, tool and mechanic will be accurately identified and geolocated using electronic labels and tags, thanks to a high-precision real-time location system (RTLS) that facilitates better task planning and more efficient stock control and supports the work of the mechanics allowing them to detect whether any resources are missing.

Each of the mechanics will come with Hololens augmented reality glasses that provide them with contextual information about the systems to be repaired and give them access to the technical documentation required to guide them. Furthermore, with these glasses they can request remote support from other specialists who'll see the same things as the mechanic, a function which is particularly useful on international missions.

The technological challenge posed by the BACSI project makes Indra the best possible technological partner. The company has developed some of the key avionics systems for the Eurofighter and the F18s. Furthermore, it's developed the automated test stands that are currently used to maintain the avionics of these aircraft. Its professionals also provide support at the Air and Space Force's armories and workshops.

About Indra

Indra (www.indracompany.com) is one of the leading global technology and consulting companies and the technological partner for core business operations of its clients worldwide. It is a world leader in providing proprietary solutions in specific segments of the transport and defence markets and a leading firm in digital transformation and information technology 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, end-to-end focus and with a high innovation component. In the 2022 fiscal year, Indra achieved

revenue totaling €3.851 billion, with almost 57,000 employees, a local presence in 46 countries and business operations in over 140 countries.

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