INDRA, A KEY PARTNER IN THE EVOLUTION OF THE EUROFIGHTER

Over 40 years after the launch of the Eurofighter program, it remains a strategic pillar for European defence and a key driver of technological and industrial innovation within the industry.

With more than three decades of strategic involvement in its development and evolution, Indra has made a decisive contribution to making this platform one of the most advanced of its kind in the world. The company boasts a position as the flagship Spanish company for the development, supply and maintenance of electronic equipment for this program, and one of the main suppliers in Europe, with key responsibilities in avionics, radar, electronic defence, tactical communications and mission systems.

Indra is currently the only company in the Eurofighter environment that’s involved in all of the ECRS (European Common Radar System) programs in their mechanical scanning (M-SCAN) and electronic scanning (E-SCAN) versions. In the latter, the different nations in the Consortium have chosen to adapt the MK0 E-SCAN version to their operational needs, giving rise to the MK1, adopted by Germany and Spain, and the MK2, implemented by the United Kingdom. Indra’s presence in all of the above is a testament to its standing as a strategic partner on the international stage.

The company’s commitment is not limited to guaranteeing the aircraft’s current capabilities, as Indra is also one of the key players in the development of the P4E (Phase 4 Enhancement) standard, the most ambitious modernization phase to date. This strives to improve connectivity, increase situational awareness and enhance electronic warfare capabilities, making the Eurofighter one of the platforms that’s most capable of operating in multi-domain environments, which are decisive in joint combat scenarios.

One excellent example of this capability is the key role Indra played in developing new avionics systems in coordination with the FCAS Program, including the SATCOM (satellite communications), the IVDL (Inter-Vehicles Data Link) and the ESSOR-MIDS, which will provide the platform with advanced communication capabilities via satellite and BLOS (Beyond Line of Sight) and allow exchanges of tactical information between aircraft in real time, significantly improving situational awareness and interoperability in joint operations.

When it comes to the Eurofighter’s electronic self-protection suite, Indra also plays a decisive role in the evolution of the current DASS (Defensive Aids Sub-System). The Next Generation DASS will incorporate more advanced sensors, state-of-the-art digital processing algorithms, cutting-edge electronic countermeasures and greater operational autonomy, while integrating artificial intelligence technologies to increase detection, reaction and adaptability capabilities in highly contested environments.

The company’s developments also include the CIT-M, a combined interrogation and response system that incorporates the most modern civil (Model S) and Military/NATO (Modes 4/5) identification modes, and the ELB ESM, equipment that can extend the operating band of the DASS system to cover a range of frequencies beyond those used by conventional radars and communication systems, thus helping improve the Eurofighter’s capabilities in this field in several ways.

In this regard, the Eurofighter constitutes a critical capability for Europe’s air defence, as well as a driver of innovation, industrial momentum and technological sovereignty. Indra is proud to be a leading strategic partner in this program, providing value across each and every phase, from the design and technological development to the production and operational support.