Press release

INDRA LAUNCHES THE CREATION OF ONE OF THE MOST ADVANCED ARMORED VEHICLE TACTICAL TRAINING NETWORKS IN EUROPE WITH THE INSTALLATION OF THE FIRST PIZARRO SIMULATORS

- **The first section simulator, consisting of four vehicle simulators, delivered to the Army at the base in Córdoba, will be followed by those in Zaragoza, Gerona, Badajoz, Madrid, Ceuta and Melilla, constituting one of the largest joint tactical simulation centers in the world**
- **Each vehicle simulator consists of a compartment for the driver's training and another for that of the vehicle commander and gunner, making a total of 56 connected compartments in which joint tactical exercises can be conducted to prepare for missions**
- **In order to provide high-quality training, the simulation system developed by Indra is integrated into the training platform based on serious games that's already used by the Army**
- **Indra will display a Pizarro vehicle simulator at its stand at FEINDEF, the flagship forum for the Defence and Security sector in Spain to be held from May 17th to 19th in Madrid**

Madrid, May 16, 2023.- Indra has begun the delivery of the new simulators of the Pizarro infantry combat vehicle (ICV/C) to the Spanish Army bases where this armored vehicle is currently deployed, in order to complete the training of its operators. More specifically, Indra has delivered the first section simulator made up of four vehicle simulators to the base in Córdoba, and over the next month it will deliver those assigned to the bases in Zaragoza and Gerona, followed by those in Badajoz, Madrid, Ceuta and Melilla.

When all the simulators are connected, they will constitute one of the largest and most advanced joint armored vehicle tactical training networks in Europe and one of the most advanced simulation centers in the world. There will be a total of 56 compartments connected to a simulation network that's currently being planned, in which tactical and collaborative exercises will be conducted very close to the reality of battlefield missions.

Each of the four vehicle simulators that make up the section simulator consists of two compartments, one simulating the driving position, which sits on a three-degree-of-freedom motion platform to simulate terrain inclines and obstacles, and a turret compartment, where the vehicle commander and gunner are positioned. The latter enables the vehicle commander to exit through the hatch and train not only inside the vehicle, working through the episcopes, but also outside it, in which case the system automatically detects that the commander has climbed out and changes the configuration so that he/she can view the surrounding area.

The system simulates the two existing configurations of the Pizarro (Phase I and Phase II), an armored vehicle capable of moving rapidly on the front line of combat with a platoon of soldiers on board. It can also be networked with other simulators situated in different geographical locations, which allows joint exercises to be carried out, including ones with other simulation systems available on the Army's training platform.

"The Pizarro vehicle simulator is designed to develop capabilities and skills in tactical and collaborative training; it allows the soldiers to quickly prepare for their missions, moving around in complex scenarios in which they have to coordinate with their team inside the vehicle and other vehicles in their platoon, and learn how to communicate and coordinate, where to move and how to react in the face of the enemy. It also capitalizes on the new technologies linked to virtual reality and gamification and maximizes the communication and interoperability capabilities of the systems", explains Rafael Junco, Indra's Simulation Director.

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Participation of the Army and Simumak

Indra's immersive simulation system is integrated into the serious games virtual training platform used by the Army, software that capitalizes on all of the potential of games to provide training for soldiers in a virtual field of operations where they can interact with all kinds of troops, platforms, threats and scenarios.

Thanks to these new technologies, the Army will also be able to prepare real operations and recreate its regular tactical maneuvers and exercises which, in some cases, mobilize thousands of soldiers and hundreds of vehicles, helicopters and drones.

The General Directorate of Armament and Material (DGAM) of the Ministry of Defence and the Army have also actively taken part in the development of the Pizarro simulator in all its phases, from the initial one, involving the analysis of the requirements, to the last testing ones and its final adjustments to integrate it into its training network.

Meanwhile, Simumak, a 100% Indra company, has harnessed its hardware development capabilities to manufacture the cabins, which are replicas of those in the real vehicle, respecting their measurements and replicating the most functional instrumentation for the crew members. Its participation has led to increased agility and flexibility and shorter development times.

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Benefits of the mission simulators

The virtual training provided by Indra's simulators speeds up preparation for the fulfillment of the mission that's very close to reality and brings huge cost savings by reserving the use of real vehicles for higher-level exercises and real operations, thus reducing maintenance and fuel expenses.

Indra has a family of mission simulation systems to train soldiers with different profiles. The company has delivered the full system for the simulation of the Leopard 2E tanks in which Ukrainian troops are currently training and fifty Víctrix simulators enabling soldiers to train with their own weapons to the Spanish Armed Forces, as well as simulators for all kinds of fighter jets, planes, helicopters and advanced air traffic control simulators (JTAC).

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 customers worldwide. It is a world-leader in providing proprietary solutions in specific segments in Transport and Defence 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, end-to-end focus and with a high innovation component. In the 2022 financial year, Indra achieved revenue totaling 3,851 billion euros, with almost 57,000 employees, a local presence in 46 countries and business operations in over 140 countries.

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