Press release

INDRA DEVELOPS A VIRTUAL ASSISTANT FOR DEFENSE SYSTEMS MAINTENANCE BASED ON AUGMENTED REALITY GLASSES

- **This assistant grants access to all the information about the system or platform that is being repaired and displays it through holograms**
- **It enables requests for remote assistance from experts to be made and to share the view with them in order to work collaboratively, a very useful option for international missions**
- **This solution is part of Indra's commitment to bring Industry 4.0 to Defense, in what is known as Sustainability 4.0**

Madrid, May 29, 2019.- Indra has developed an advanced virtual assistant based on augmented reality glasses that will revolutionize the way teams in charge of maintaining defense systems and platforms work.

This solution enables fast and agile access to all the technical information needed to carry out a repair or inspection.

Users see all the documentation through holograms that appear in front of them. If necessary, the assistant can show this information overlapped on the system so as to help identify components and settings.

By using a series of predefined gestures, users interact with the assistant to access the information they need: settings, circuit diagrams, fault history, previous inspections, etc.

By means of internal or external sensors, it can immediately have all the data collected about temperature, humidity and other parameters that determine the health of a device.

These glasses allow you to request remote assistance from experts who may be anywhere in the world and to share with them the view from the system in order to work collaboratively.

This assistance improves the repair speed, which in turn saves costs associated with unnecessary travel.

This function is key in the deployments made by the Armed Forces in remote areas. In these cases, communication is made through secure satellite links.

Access to the databases and to the information of each system is tailored to each user's profile in order to provide the information they need.

This solution is part of Indra's commitment to bring Industry 4.0 to Defense, in what the company names Sustainability 4.0. To do this, it uses artificial intelligence, big data, data analytics and hyperconnectivity.

The maintenance costs incurred throughout the defense systems and platforms life cycles are much higher than the acquisition costs. Therefore, the cost reduction that can be achieved with this assistant is very high.

Likewise, system availability and operation security are greatly increased. For the Armed Forces, all of this translates into greater efficiency and success in their missions.

In addition, this technology has a direct use in civil spheres, such as in the maintenance of industrial systems.

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 world-wide. It is a world-leader in

Communications and Media Relations
Phone: + (34) 91 480 97 05
indraprensa@indracompany.com

providing proprietary solutions in specific segments in Transport and Defense markets, and a 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 an end-to-end, high-value focus and with a high innovation component. In the 2018 financial year, Indra achieved revenue of €3.104 billion, with 43,000 employees, a local presence in 46 countries and business operations in over 140 countries.

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