

INDRA TRANSFORMS VITORIA INTO BRAZIL'S MOST TECHNOLOGICALLY ADVANCED PORT

- **The company has implemented the first vessel traffic system to begin operations in the country**
- **The solution reinforces safety and expands port capacity by streamlining mooring, thus increasing income**
- **This technology strengthens the port's competitiveness and capacity to attract the world's top shipping carriers**
- **Indra is also finalizing the modernization of Santos, Brazil's main port and one of the world's largest**

Madrid, July 4, 2017.- Brazil's Companhia de Docas do Espírito Santo (CODESA) is now operating with Indra's Vessel Traffic Management Information System (VTMIS), which enhances safety and improves the efficiency with which moorings are managed.

The Global consulting and technology company has transformed Brazil's Vitoria into the most technologically advanced port in the country.

The project is part of Brazil's Port System Modernization Plan backed by the Secretariat of Ports of the Presidency of the Republic (SEP/PR). This plan also includes Indra's modernization of Santos, Brazil's main port and one of the world's largest.

Indra's VTMIS solution is based on the proprietary iMARE system and affords greater safety when managing the movements of vessels within the waters of the port of Vitoria. The solution also streamlines mooring management, resulting in increased capacity and greater efficiency when coordinating maritime operations. This service improvement contributes to increasing competitiveness and the capacity to attract major shipping carriers to generate new sources of income.

The system incorporates all the information sent by radars, cameras, buoys, weather stations and automatic vessel identification systems so that operators can unmistakably pinpoint each boat's position on a digital map and access the data regarding its cargo, origin or route. The system also receives all up-to-the-minute information on sea conditions and can communicate with the ship's bridge to coordinate entries or exits.

The system can also send information to the port's single window for digital, paperless management of all the administrative processing necessary for mooring and managing cargo.

According to Cristiano Alves, Director of Transport Operations and Defense at Indra in Brazil: "Securing precise supervision over traffic increases the rotation of the entry of cargo ships into Vitoria's port harbor, which translates to swifter mooring intervals and the resulting increase of vessel traffic in the channel".

The director also emphasized the value of statistical data that the system stores, explaining that they "help the Port Authority manage billing and income forecasting".

CODESA chairman Luis Claudio Montenegro added that "Vitoria will be the first public port in the country to operate with VTMIS. This system enables us to fully control the access channel and mouth. All data, including information on the winds, tides, weather, current, navigability, are managed with precision by the system".

Montenegro explained that the next step will entail "creating a work group to address changes in port access channel management. CODESA will propose that its national peers seek out a new model in which the port authority will have greater involvement in these decisions, though to do so it is important that all ports have an advanced system such as the VTMIS at Vitoria", concluded the chairman of Docas do Espírito Santo.

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Indra's VTMISS system was presented to the port authorities during the First International Conference on Ports held in Vitoria from the 3rd to the 5th of July. This meeting was organized by CODESA in partnership with Brazil's IFES (Instituto Federal do Espírito Santo) to discuss the scenario, perspectives and political changes that will be implemented in global port maritime shipping. During these dates, Luis Claudio Montenegro hosted a technical visit to the Indra-implemented VTMISS Operations Center with Brazilian Secretary of Ports (SEP), Luiz Otávio Oliveira Campos, together with other SEP directors and important Brazilian port leaders.

Over 70 ports with Indra technology

Indra has implemented its technology in over 70 ports worldwide. In Brazil, Indra is pioneering the modernization of the ports of Vitoria and Santos, the first Latin American ports to incorporate maritime traffic management technology (VTMISS).

The company has also carried out a number of different technology projects elsewhere, including terminals in Spain, the United Kingdom, Cyprus, Morocco, Poland and Senegal. In Poland, an Indra technology solution controls all traffic in Polish waters in the Baltic Sea, covering management of the 12 largest ports in the country and the mouth of the River Oder.

Indra has also implemented the global technological platform at Chile's Valparaíso Port, backing the comprehensive management of all logistics, foreign trade and taxation information. The company is one of the main technology providers in the Panama Canal expansion project. Indra has also deployed systems used to monitor over 5,000 km of coastline in countries such as Spain, Portugal, Latvia, Romania and Hong Kong.

Indra

Indra is one of the main global consulting and technology companies and the technology partner for core business operations of its clients businesses throughout the world. It offers a comprehensive range of proprietary solutions and cutting edge services with a high added value in technology, which adds to a unique culture that is reliable, flexible and adaptable to its client's needs. Indra is a world leader in the development of comprehensive technological solutions in fields such as Defense & Security, Transport & Traffic, Energy & Industry, Telecommunications & Media, Financial Services and Public Administrations & Healthcare. Through its Minsait unit, it provides a response to the challenges of digital transformation. In 2016 it reported revenues of €2,709m, had a workforce of 34,000 professionals, a local presence in 46 countries, and sales operations in more than 140 countries.

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