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## **Ansaldo STS presented ERSAT and ERSAT EAV projects: the satellite technology applied to the railway traffic management for the first time in Europe**

*Cagliari, February 24th 2017*

ERSAT is the latest generation signaling project that interfaces and integrates – for the first time in Europe – the European Rail Traffic Management System (ERTMS) with the navigation and satellite positioning technology Galileo.

ERSAT EAV project, which is presented together with Rete Ferroviaria Italiana and Trenitalia in Sardinia today to show how this technology works, is part of the European research plan Horizon 2020.

The project, coordinated by Ansaldo STS, has the final aim of defining and testing the evolution of ERTMS signalling system through train localization based on satellite technology.

Satellite technology is designed for a controlled and safe management of rail traffic of secondary conventional lines, local and regional lines.

Advantages of ERSAT EAV are:

- To increase the traffic capacity available to railway undertakings, favouring those who travel and helping to reduce CO2 emissions;
  - To guarantee high railway safety standards and punctuality;
  - To reduce operating costs, as the new technological equipment will require less investments for installation and maintenance.
- What is tested in Sardinia has already been used for the completion of the Roy Hill Iron Ore project in Australia, the first railway signalling system of this kind globally (in this case it consists of goods-transport).

Roy Hill has in fact recently developed its own iron-mining project and transportation of 55 million tons per year from mine to port for 350 railway kilometres in total.

Discover the [tutorial video](#)

[http://sts.hitachirail.com/sites/ansaldosts/files/downloads/ansaldo\\_sts\\_cagliari\\_press\\_note\\_24\\_february\\_2017.pdf](http://sts.hitachirail.com/sites/ansaldosts/files/downloads/ansaldo_sts_cagliari_press_note_24_february_2017.pdf)

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