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IAV demonstration in Port of Rouen

A new intelligent autonomous vehicle (IAV) developed by the EU-funded InTraDE (Intelligent Transportation for Dynamic Environment) project will be demonstrated as a container transporter at the Radicatel terminal in the Port of Rouen on Wednesday, 27 February

The IAV is similar to an AGV but, rather than following a fixed route based on embedded transponders, is designed to navigate itself around an entire port or terminal area using GPS and other sensors. The navigation system is controlled by "remote control computing in a virtual environment" and the vehicle can move in any direction within a confined space. The InTraDE project team believes that this functionality makes the IAV suitable for use in smaller ports that do not have the space required for a conventional AGV system.

The IAV itself is a 20ft platform powered by 360v lead-acid batteries and has four wheel, 360 degree steering. Two IAVs can be connected together to handle 40ft boxes and multiple units can be connected to form "platoons" that can move as one unit either autonomously or behind a manned vehicle. This would enable a platoon to perform short haul drays to warehouses or logistics facilities and work as part of an Intelligent Transport System (ITS).

Whereas an AGV is designed to work in a controlled environment separate from manned operations, the IAV is more of a field robot. It is designed with an "over actuated" (multiple sensor) control and navigation system for functioning in different operating environments.

InTraDE invites those interested in attending the demonstration at Quai de Radicatel to contact Mohamed Benmerikhi at Mohamed.Benmerikhi@polytech-lille.fr

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