

Picture material for the press release:

The future of freight transport: MAN and HHLA pioneer Logistics 4.0 with the autonomous Hamburg TruckPilot

Link to the image material: [Bilder Hamburg TruckPilot](#)

Captions:

MAN_HHLA_Hamburg TruckPilot_PressConference_1: (Picture only available after the PK)

MAN Truck & Bus and Hamburger Hafen und Logistik AG (HHLA) as well as logistics partner Spedition Jakob Weets have successfully completed the Hamburg TruckPilot joint project, setting a milestone in automated container transport. In the presence of Jakob Weets, Managing Director and owner of Spedition Jakob Weets, HHLA Executive Board Chairwoman Angela Titzrath and MAN Truck & Bus Senior Vice President - Head of Automation Mikael Edstam presented the project results at the ITS World Congress on 13 October (from left to right).

MAN HamburgTruckPilot_MAN_HTP_0088_1 –

The future of freight transport: MAN and HHLA pioneer Logistics 4.0 with the autonomous Hamburg TruckPilot.

MAN HamburgTruckPilot_MAN_HTP_0112_2

Integration of an autonomous truck in container handling with the Hamburg TruckPilot project: HHLA Container Terminal Altenwerder's highly automated processes make it the ideal test environment in which to try out promising technologies.

MAN HamburgTruckPilot_MAN_HTP_0126_3

With exterior displays, the autonomous truck in the Hamburg TruckPilot project informs other road users on the grounds of Container Terminal Altenwerder about its current operational status: the container is lifted off the crane at the block storage facility.

MAN HamburgTruckPilot_MAN_HTP_0135_4

The autonomous truck in the Hamburg TruckPilot project uses outdoor displays to inform other road users on the grounds of Container Terminal Altenwerder about its current operational status: The container is lifted off the crane at the block storage facility.

MAN HamburgTruckPilot_MAN_HTP_0209_5

The objectives of the three-year Hamburg TruckPilot project were the development and practical testing of an automated truck in container handling at HHLA Container Terminal Altenwerder (CTA)

MAN HamburgTruckPilot_MAN_HTP_0210_6 Integration of an autonomous truck in container handling with the Hamburg TruckPilot project: HHLA Container Terminal Altenwerder's highly automated processes make it the ideal test environment in which to try out promising technologies.

MAN HamburgTruckPilot_MAN_HTP_0222_7

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The Hamburg TruckPilot pilot project has shown that the use of self-driving trucks at a container terminal in mixed traffic with manually controlled vehicles is technologically feasible and can be efficiently integrated into logistics processes.

MAN HamburgTruckPilot_MAN_HTP_0420_8

Hamburg TruckPilot: The driver specifies the unloading point for her truck at the check gate and the truck then drives there autonomously via the CTA site.

MAN HamburgTruckPilot_MAN_HTP_0409_9

Hamburg TruckPilot: The driver specifies the unloading point for her truck at the check gate and the truck then drives there autonomously via the CTA site.

MAN HamburgTruckPilot_MAN_HTP_0464_10

Hamburg TruckPilot: Once the truck has autonomously delivered its container to the CTA site and picked up a new container, it drives back to the check gate, where the driver gets back on.

MAN HamburgTruckPilot_MAN_HTP_0436_11

Hamburg TruckPilot: The driver specifies the unloading point for her truck at the check gate and the truck then drives there autonomously via the CTA site.

MAN HamburgTruckPilot_MAN_HTP_0509_12

Hamburg TruckPilot: Outside the terminal area, the truck is driven manually. In the future, routes between logistics hubs on public roads will also be completed autonomously.

MAN HamburgTruckPilot_MAN_HTP_0399_13

The basic idea behind the Hamburg TruckPilot pilot project for integrating an autonomous truck into container handling: The driver of the container truck leaves the truck upon arrival at the CTA check gate and takes the prescribed driving break. Meanwhile, the truck autonomously delivers its container to the specified unloading point on the terminal site.

MAN HamburgTruckPilot_MAN_HTP_0035_14

During the practical runs of the Hamburg TruckPilot project, the logistics partner, Spedition Jakob Weets e.K. from Emden, initially transported 40-foot containers controlled by a driver to the CTA terminal in the Port of Hamburg on behalf of Volkswagen Group Logistics. There, the truck drove autonomously across the terminal site and moved smoothly in mixed traffic with other road users.

MAN HamburgTruckPilot_MAN_HTP_0235_Praxisfahrten_01

During the practical runs of the Hamburg TruckPilot project, the logistics partner, Spedition Jakob Weets e.K. from Emden, initially transported 40-foot containers controlled by a driver to the CTA terminal in the Port of Hamburg on behalf of Volkswagen Group Logistics. There, the truck drove autonomously across the terminal site and moved smoothly in mixed traffic with other road users.

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MAN HamburgTruckPilot_MAN_HTP_0303_Praxisfahrten_02

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MAN HamburgTruckPilot_MAN_HTP_0739_Praxisfahrten_03

In the course of its practical journeys, the Hamburg TruckPilot drove to its destination in the block storage lane and also maneuvered independently backward with high precision into the parking position. After container handling, the return trip to the check gate was also autonomous, and beyond the terminal site, the driver of the Jakob Weets e.K. freight forwarding company again took full command.

MAN HamburgTruckPilot_MAN_HTP_0907_Praxisfahrten_04

During the practical journeys of the Hamburg TruckPilot project, the truck transported containers in the regular logistics process, traveling autonomously on the container terminal site and bringing the container independently to the unloading point.

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