

## Conference Programme

Friday, June 5, 2015

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Time: 09.30 - 13.30  
Subject: A Tour through the Port of Hamburg  
Format: Official Port Tour

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Time: 09.00 - 13.30  
Subject: smartPORT logistics: From Collecting Information to Displaying it  
Format: Excursion  
Description: The tour through our intelligent port will give you the opportunity to experience the smartPORT from up close and look at some of the smartPORT project results. To introduce you to the concept of smartPORT logistics, we will show you on site how we collect traffic and infrastructure information and how we use it. On the example of a few selected pilot projects you will gain an idea of the technologies we deploy and the local particularities. One of the projects we will show you will be an innovative intelligent parking solution. We will also introduce to you the smartROAD project under which intelligent technology has been installed along a road section in the Port of Hamburg. During the trip through the port you will spot DIVA signboards [electronic variable message signs] along the road. They display traffic information to drivers in real time, who can then respond to traffic conditions by, e.g., taking alternative routes. We will also show you other components of intelligent traffic control. The tour concludes with lunch at the Duckdalben, Hamburg's international seamen's club, around noon. If you want to know more about the many different projects we have ongoing before you go on the tour, visit our HPA booth during the world ports' conference. We will be happy to be of assistance. We are certain you will find the tour through our intelligent port very informative. See the shuttle bus departure times in the conference brochure and in the conference hotels.

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- Time:** 09.30 - 13.30
- Subject:** smartPORT energy and Vessel Traffic Service (VTS) Centre
- Format:** Excursion
- Description:** This tour will take you to our Vessel Traffic Service Centre, past several projects already under way in the Port of Hamburg under our smartPORT energy initiative. You will be picked up from your hotel and brought to the pier, where you will board a launch boat that will take you on a tour through the port to show you some of our smartPORT energy projects.
- You will first have the opportunity to look at our shore-power-for-cruise-ships projects from the water before the boat takes a turn to pass by a terminal that deploys a large fleet of electric cars. The electric cars are powered by a solar plant installed on the roof of the adjacent building. Next, you will see one of the world's most modern container terminals where electric AGV (Automated Guided Vehicles) are used. More than ten vehicles are already driving around the terminal, and the fleet is growing. Afterwards, we will pass by wind power turbines that supply electricity to the companies that installed them. The next stop will be the VTS Centre, where you will disembark for a guided tour through the Port of Hamburg's new, ultra-modern heart of navigation. The building itself is a prime example of energy efficiency. The tour concludes with lunch at the Duckdalben, Hamburg's international seamen's club, around noon. See the shuttle bus departure times in the conference brochure and in the conference hotels.
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- Time:** 09.00 - 13.30
- Subject:** smartPORT energy: Shore Power for Cruise Ships
- Format:** Excursion
- Description:** This tour will take you to the two project sites in the Port of Hamburg, where shore power is supplied to cruise ships. You will be picked up from your hotel and taken to the cruise terminal in Altona. There you will have the opportunity to visit the first fixed shore power facility for cruise ships in Europe. Operations are expected to start in May 2015. The facility has an output of up to 12 megavolt ampere. The Free and Hanseatic City of Hamburg invested about 11 million euros in the project, of which 3.55 million was contributed by the European Union under the TEN-T programme. As the European grid supplies 50 Hz electricity the ships however require 60 Hz, the facility has been equipped with a frequency converter. The combination of size and output makes the shore power facility in Altona unique in the world. Power is supplied to ships via a flexible, automatic cable management system specifically developed for this station. Afterwards you will be taken to the cruise terminal in HafenCity where you can visit the second external-power-for-cruise-ships project in the Port of Hamburg. Here, the HPA installed the landside infrastructure to have power supplied to vessels via an LNG hybrid barge, which you can take a closer look at. The barge generates electricity via motors powered by LNG, which have an output of up to 8 megavolt ampere. It is the first power barge of its kind in the world. The tour concludes with lunch at the Duckdalben, Hamburg's international seamen's club, around noon. See the shuttle bus departure times in the conference brochure and in the conference hotels.
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