

in-innovative navigation GmbH receives order for the VTS project at the German North Sea and Baltic Coast

in-innovative navigation GmbH will deliver soft- and hardware modules by order of the company SIGNALIS for modernization of the radar data processing system at the German Coast.

About one fifth of foreign trade of Germany takes place at the maritime harbors along the North and Baltic Sea. In 2009, the number of passages on Kiel-Canal - the connection between both seas - exceeded the traffic volume of Panama Canal and Suez Canal together. Following today's prognoses, even an increase in maritime traffic has to be expected, as well as an increase in vessel size and velocity.

Such high traffic volume required inevitably a „Maritime Traffic Management System” comprising several modules for security and management of incidents. Part of this concept is the radar service along the German Coast, detecting continuously all vessel movements on coastal waters by radar and pooling information in traffic centers. The radar services were slowly growing since 1970, today it covers the complete German coast line, at the North Sea from Emden to Brunsbüttel, and at the Baltic sea from Flensburg up to Stralsund.



Traffic centers along the coast are the offices of Federal Waterways and Shipping Administration (WSV) evaluating information coming from a total of 46 radar stations networked. Some of them have to be replaced or modernized

with respect to data processing in order to meet technical standards of the 21st century. Furthermore, user interfaces at traffic centers have to be harmonized to reach minimal reaction time in case of accidents, to prevent environmental disasters and to protect lives. In 2010, the German Waterways and Shipping Administration (WSV) invited tenders for refurbishing the radar based vessel traffic systems at the German coast. The contract was awarded to the company SIGNALIS, Bremen.

For implementation of this sophisticated project, SIGNALIS relies partly on the excellent know how of the company in-innovative navigation GmbH, Kornwestheim, and placed an order with them in January 2011 to install their software and hardware components for the new VTS system. The contract volume comes to 25% of the total project volume and, so far, is the highest volume for an individual order during the 12 years long success story of in-innovative navigation GmbH. The software components for this technically advanced radar video network base on approved high capacity products from in-innovative navigation GmbH, a today's Europe-wide leading solution provider for radar and AIS data processing as well as for navigation. Vessel traffic surveillance systems and modules are successful in operation for example in inland systems at

the river Rhine (Oberwesel), Kiel-Canal and Middle Weser; and also in maritime surveillance centers of Estonia, Portugal and Bulgaria among others.

The special challenge within the project „Radar Service at the German Coast“ is the



implementation of the new system during runtime of the existing system. Service people have to be able to operate the current system in parallel, in order to achieve a seamless transition to the new technology, full functionality has to be guaranteed in every moment.

The whole project will take 50 months. The system setup is designed to merge data of all radar stations in three plant rooms, where data will be processed, filtered and presented to the nautical experts at all traffic control centers, giving a comprehensive overview of the traffic situation along the.

Powerful and highly reliable software by in-innovative navigation GmbH characterized by modularity and smooth integration of external information sources provide one basis to cope with this challenging task.

about in-innovative navigation GmbH:

Following a modular conception, in-innovative navigation GmbH provides customized software solutions, which can be applied in all areas of navigation, telematics and traffic surveillance. in-innovative navigation GmbH is market-leading with software integrating all information from radar, GPS, AIS on an electronic ECDIS chart display. inDTS and RADARpilot720° are the powerful display applications from in-innovative navigation GmbH for traffic monitoring in use either in VTS centers and coastal surveillance systems or in integrated navigation systems.

Kontakt: Dr. Claudia Dreller | in-innovative navigation GmbH | Leibnizstr. 11 | D- 70806 Kornwestheim

Tel: +49 (0) 821 4481456 | E-mail: Claudia.Dreller@innovative-navigation.de

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