

VTCS Portugal

Kornwestheim, December 07, 2007 – in-innovative navigation GmbH's modular components for Vessel Traffic Services (VTS) and coastal surveillance are contributing to maritime safety along the coast line of Portugal



Figure 1: Radar towers in Portugal

The kernel of Portugal's new coastal Vessel Traffic & Control System provided by ATLAS Elektronik is based on the modular VTS components RADARserver, RADARrecorder, RADARextractor, RADARtracker and MultiSensorTracker, developed and implemented by in-innovative navigation GmbH.

The VTCS covers the whole coastline, more than 800 km long, by the use of 16 large VTS radar scanners as well as a network of AIS base stations. All data is merged into a unique traffic picture, available in two surveillance centres.



Figure 2: Control centres at Aveiro and Ferragudo, Portugal

The whole system is implemented in a hot-standby configuration, allowing a seamless continuation during maintenance works or during a partial system failure. The powerful VTS radar video network of in-innovative navigation GmbH is distributing the entire raw radar data of all connected radars through a nation wide data network with limited bandwidth. RADARrecorders of in-innovative navigation GmbH archive the raw radar data. Highly sophisticated tracking modules of in-innovative navigation GmbH perform radar target extraction

and the MST fuses radar tracks with AIS data. Portugal's coastal Vessel Traffic & Control System started operation end of 2007.

Project summary

Time frame	2005 – 2007
Customer	EADS Deutschland GmbH / Barco Orthogon GmbH, Germany
Scope of delivery	Highly available radar data processing in hot standby configuration, data transmission and data achieving for 16 radar scanners. Multi Sensor Tracking including radar and AIS
Eligibility criterion	Selection was based on the professional competence of the company in-innovative navigation GmbH, as well as the reliable performance features of the hard and software delivered