

CSR ESTONIA

Kornwestheim, March 17, 2006 –in-innovative navigation GmbH develops and delivers modules for the largest radar based coastal surveillance system

A large Coastal Surveillance System protects the whole (>500 km) coastline of the Baltic republic of Estonia. The European Aeronautic Defence and Space Company (EADS) installed in 2004-2006 an advanced coastal surveillance system, which enables the Estonian Border Guards to assure the integrity of their territory and territorial waters. The coastal surveillance system includes a total of 20 radars covering the entire coastal region, each of them mounted on a steel tower of 60 meters height.



Figure 1: Radar towers in Pakri and Juminda

Ten radars are equipped with sea and air channels, and 10 with sea channel only. Designed and built to ensure the integrity of the Estonian territory and territorial waters the system identifies and recognises surface and air targets in the responsibility of the Estonian Border Guard. The system includes Short Range Radars (SRR) with sea target detection and signal processing capability and Long Range Radars (LRR) with sea & air target detection and processing capabilities. The operational responsibility is allocated to four Regional Control Centres (RCC).



Figure 2: Display at the radar station Osmussaare

Each RCC is connected with a number of radar sites. The number of associated radar sites varies from four to eight LRR & SRR, depending on the complexity of the coastline. The overall coastal operations picture of all four RCC is displayed to four operators in the National Control Centre which is located at the Border Guard harbour in Tallinn.

The Coastal Surveillance System of Estonia is based on the modular VTS components of innovative navigation GmbH, as there are RADARserver, RADARrecorder, RADARextractor, RADARtracker and MultiSensorTracker (MST). Air and sea targets are tracked simultaneously by this MST, using different configuration parameters.