

## Wide Area Radiation Surveillance with Semiconductor Detectors

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The Real Time Wide Area Radiation Surveillance System (REWARD) is a novel mobile system for radiation detection and monitoring based on the integration of new miniaturized solid-state radiation sensors: a CdZnTe detector for gamma radiation and a neutron detector based on novel silicon technologies. The sensing unit also includes a wireless communication interface to send the data remotely to a monitoring base station as well as a GPS unit.

This presentation will introduce the REWARD project, funded within the 7th Framework Programme of the EU. Particular emphasis will be placed on the semiconductor sensors at the core of the system.

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