

NERIS Workshop 2017

17-19 May 2017

Lisbon, Portugal

Abstract Template

Please select one or more topics for your abstract

☒	RADIOLOGICAL IMPACT ASSESSMENTS
☒	COUNTERMEASURES AND COUNTERMEASURE STRATEGIES IN EMERGENCY & RECOVERY, DECISION SUPPORT & DISASTER INFORMATICS
☐	SETTING-UP A HOLISTIC FRAMEWORK FOR PREPAREDNESS FOR EMERGENCY RESPONSE & RECOVERY
☐	STAKEHOLDER INVOLVEMENT AND ENGAGEMENT IN EMERGENCY AND RECOVERY
☐	UNCERTAINTY HANDLING ISSUES FOR EMERGENCY AND RECOVERY

Title

A Case Study of the Use of ERMIN in Portugal After a Radiological Emergency Scenario

Authors – Please underline corresponding author

Paulo Marques Nunes¹, Luis Portugal¹, Francisco Cardoso¹, Márcia Farto¹, João Oliveira Martins¹

¹ Agência Portuguesa do Ambiente (Portuguese Environment Agency)

Text

The European Model for Inhabited Areas, ERMIN, included in the RODOS Decision Support System, was used as a tool to assist in the development of the appropriate response strategy for an inhabited area, following a radiological emergency event. The current work is focused in the Belém area of Lisbon, where several monuments and recreation and cultural facilities attract numerous people on a daily basis, thus becoming a sensitive spot if an emergency situation should occur. The impact of a malicious act, such as the use of a radiological dispersal device (RDD) in an inhabited area in different weather conditions was the chosen scenario in this study. These results are presented and discussed and include the contamination dispersion maps, the radiation doses estimated for the population as well as some recovery countermeasures strategies to be considered.