PROJECT PROFILE

Title	Development of advanced strategic noise maps for the national road network	NRANNAL Roads Authority An tildards um Böithre Möisianto
Contractor	Trinity College Dublin	
Contact details	Henry Rice Department of Mechanical and Manufacturing Engineering Trinity College Dublin Dublin 2 hrice@tcd.ie	
NRA Mentor	Vincent O'Malley	
Start date	Jan-08	
End date	Dec-10	
Status	On-going	
Type of project	Research: 3 year post-doctoral project (Eoin King)	
Cost	€209.0k	
Project reference	NRA PO 6274	

Description	Statutory Instrument No 140 (April 2006) specifies how environmental noise is to be assessed and managed in Ireland. In these Regulations, the NRA is designated as the noise mapping body responsible for mapping the major roads in the country. This means that the Authority has to produce noise maps for over 4,600km of road. The first phase of this mapping revealed a number of issues that must be addressed in order to ensure the effective production of the required noise maps by June 2012. This research is aimed at developing more advanced ways of producing noise maps so that the Authority can comply with this deadline.	
Objectives	The objective of the research is to develop more advanced methods of measuring and predicting noise produced by traffic on national roads. These methods are required if the Authority is to comply with the deadlines imposed by the European Commission. The project includes the further integration of noise studies with a GIS application, in order to ensure the effective implementation of the required noise mapping. The project will also assist in co-ordinating post-EIA evaluation studies to examine the effectiveness of the various noise mitigation measures used on the national road network.	
Benefits	This research will enable the Authority to fulfil its obligations regarding the production of noise maps and to do this in a more cost-effective way by developing a more highly structured system of data collection and management. The project will also assist in co-ordinating post-EIA evaluation studies to examine the effectiveness of the various noise mitigation measures used on the national road network.	
Outputs	The output from this project will be the development of advanced techniques for the production of noise maps for the Irish National Road network.	

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