



MADRID

inter.noise 2019

June 16 - 19

NOISE CONTROL FOR A BETTER ENVIRONMENT

Noise Management of a Leading Cargo&Passanger Port close to a Large Urban Area: The Case of Port de Barcelona

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ABSTRACT

END's transcript to each Member State included also a schedule for preparing and publishing Strategic Noise Maps, and population exposure reports, around each state's most important transportation infrastructures. However, Port noise has kept a sort of discrete presence, behind more conventional transportation and infrastructure noise scenarios. The Port of Barcelona (2.9TEU and 4M+ passengers) and its over 1.6M neighbours have written together a long history of coexistence and mutual benefit. Therefore, Port de Barcelona's known environmental preservation policy pushed the decision, back in 2013, to test a procedure, aimed to edit one of Spain's first (Strategic) Noise Maps of a large-sized seaport. This method has later been updated and improved, and extended to a full-scale noise assessment study, which ended up in Port de Barcelona's Noise Map, published in 2017. This paper will summarize the challenges, tricks and results of a 2-year project, where known methods had to be adapted to solve the noise mapping of a real Seaport&City close proximity scenario, as a part of a more complex responsibility, where noise management and the assessment of port noise effects on close neighbourhoods are the leading goals.