



**45º CONGRESO ESPAÑOL DE ACÚSTICA
8º CONGRESO IBÉRICO DE ACÚSTICA
EUROPEAN SYMPOSIUM ON SMART CITIES AND
ENVIRONMENTAL ACOUSTICS**

STRATEGIES FOR NOISE CONTROL IN SMART CITIES

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ABSTRACT

Noise affects human's health and reduce quality of life in urban areas, but it can't be addressed as an isolated pollutant. Strategic solutions for noise control should always be connected with more general strategies for urban management (traffic, urban mobility, energy efficiency, air quality, etc.). The Environmental Noise Directive introduced the strategic approach for noise maps and action plans aiming to mitigate the effects of environmental noise and to increase the quality of life in urban areas as well.

In the smart city approach, investments in infrastructures and communication are oriented to improve sustainable economic development and quality of life in cities, through participatory actions and stakeholder involvement. Special relevance is given to awareness and participation of citizens. Methods for representing the smartness of urban transport system and urban planning solutions (included quiet areas and noise mitigation plans) can be found in some recent researches related to EU funded projects

In this lecture some experiences that can be referred to smartness and acoustics in urban areas will be presented, considering models and corresponding case studies.