GÜRÜLTÜ EĞİTİM PROJESİ KAPANIŞ KONFERANSI

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Handbook-1: Environmental Noise Management Applications in Local Authorities

Hanbook-2: Legal Aspects of Environmental Noise Management

Nilgün AKBULUT ÇOBAN

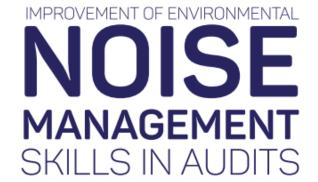
Çevre Yönetimi ve Denetimi Şube Müdür V. Antalya Çevre ve Şehircilik İl Müdürlüğü 20 Kasım 2019















CONTENTS OF INTELLECTUAL OUTPUT-1

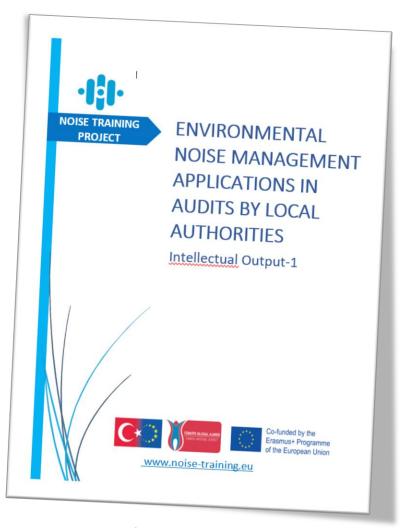




Main Legislation and Responsible Authorities on Environmental Noise Management

Environmental Noise Audits due to the Public Noise Complaints

Environmental Noise Permit Procedure for Entertainment Places/Music Allowance



For three Project partner countries as Italy, Spain and Turkey



ENVIRONMENTAL NOISE AUDITS SYSTEM IN LOCAL AUTHORITIES OF PROJECT PARTNER COUNTRIES





- Main Legislation on Environmental Noise
- ☐ Responsible Authority For Main Legislation
- □ Responsible Authority Mainly For Public Noise Complaint Evaluations
- ☐ Qualifications For Technical Staff Working On Noise Audit
- National Standards For Training Program On Environmental Noise Management
- ☐ General Mechanism of Noise Audit For Public Noise Complaint
- Administrative Sanction
- ☐ Noise Monitoring System



Responsible Authority Mainly For Public Noise Complaint Evaluations





- Provincial Directorate of Environment and Urbanization-If the authority has not transferred to the Municipality
- Municipalities or other institutions to which transfer of authority have been made in accordance with the Environmental Law for complaints within municipal boundaries and adjacent area
- The transfer of authority is based on the willingness of authority.

- In Florence,
- The Municipal Police primarily carries out the checks relating to the noise produced by:
- - public performances, private clubs.
- - public exercises, hotels, business
- Regional Agency for Environmental Protection (A.R.P.A.T.) carry out priority checks on noise produced by:
- - transport infrastructures,
- - industrial activities,
- - sports activities,

- Municipalities have the competences on noise issues.
- Depending on the municipality local police officers, or qualified technician in the environmental department, -Acoustics department can perform the audits.

Turkey

Italy

Spain



Qualifications For Technical Staff Working On Noise Audit





- Audit is conducted with minimum two technical staff.
- One of them should be minimum 4 year university degree and the other one could be high school degree or above.
- They should have certificate of participation training program on environmental noise management

- Municipal Police carry out noise measurements,
- to raise penalties (where applicable) and inform the Environment Department by a report with the indication of the noise meter level measurements carried out as well as any measures to be taken.
- There is no specific qualification requirement to make noise measurements in Spain.
- There are requirements for instruments, but there aren't for technicians.
- For Madrid
- Local police officers may perform noise measurements. Their level of qualification may be not very high.
- -Joint Patrol are composed of a competent technician in acoustics and police officers who give official status to the report.
- Green Patrol are composed of police officers who are specialists in environmental noise measurements.

Turkey

Italy

Spain



Noise Audit Procedure in Turkey



Prepara for Nois Audit

Election

Registration

 phone, email or letter The noise source stated in the complaint is evaluated whether it is in the scope of RAMEN or not. Preparation for Noise Audit Program:

 The audit is planned with two technical staff. Audit in Situnoise measurement

Based on the noise measurements and working conditions of the workplace in terms of working hours, placement of noise sources etc.

Reporting in Situ

After noise measurements official minute written by the technical staff in the facility.

Evaluation in situ reporting at the Office

Noise levels are evaluated whether it is comply with the regulation. If the noise levels exceeds, the administrative sanction is applied.





Noise Audit Procedure in Italy





Formal registration

The form, filled in with information requested in the model attached to the regulation of noisy activities by the municipal office in charge

Transmission 4

of the documents to the control body: ARPAT or Municipal Police

Assessment in Situ

of
compliance
with the limits
by noise level
meter
measurements
performed by
the control
body

Evaluation of results

According to the results of noise measurement technical report, if noise limits are exceeded, a pecuniary sanction is imposed in any case

Adoption of accessory measures

(warning) or proposal to the mayor for a contingent and urgent order, imposing more restrictive actions (even to the closing of activity) can be decided

Update

of the archive of the accessory measures issued.





Noise Audit Procedure in Spain





Activity audit

(technician and

police officer)

checks all the

requirements

in the activity

(emissions,

distances).

regarding noise

insulations, and

The Audits

Service

Preparation of

Audit in Situ-Noise **Measurement**

measurements according to specific local regulation procedures.

In situ audit report

An official report is generated according to the measurement results

Evaluation in the office:

The Audits Service evaluates the "in situ official report". This assessment validates the measurement procedure and report

Legal service assessment:

If the activity does not comply with any of the legal requirements, the file is sent to legal services that identify the sanction to apply.

The noise complaint is officially registered (online or written)

Registration:

audit by technicians.



ENVIRONMENTAL NOISE PERMIT PROCEDURE for ENTERTAINMENT PLACES/MUSIC ALLOWANCE





- Responsible Authority to Give Music Allowance
- ☐ Responsible Authorities for Noise Audit in Entertainment Places
- ☐ General Requirements for Taking Music Allowance
- ☐ General Report Format for Noise Level Assessment Report
- ☐ Requirements of Staff for Preparing the Environmental Noise Assessment Reports
- ☐ General Criteria for Entertainment places

PRACTICAL HANDBOOK ON INTELLECTUAL OUTPUT 1/2

ENVIRONMENTAL NOISE PERMIT PROCEDURE for

ENTERTAINMENT PLACES/MUSIC ALLOWANCE



General Requirements for Taking Music Allowance





The entertainment places takes firstly the Working License from Municipality.

Report prepared and provide this to the Municipality

This report assessed by competent authority as Municipality if it has Authority on RAMEN or

if Municipality has not authoritized then, the report is sent to PMEU

PMEU investigates that report according to the principles of RAMEN and the formal opinion on this report is sent to Municipality



If all the situations regarding the noise levels and the other elements based on Regulation on Working Licence and RAMEN, the Municipality give the music allowance to that entertainment place



General Requirements for Taking Music Allowance





Permission request to the Municipality to start the activity.

Permanent or temporary noisy activities must respect the limits established by **Municipal Noise Zoning Plan**



Only in case of use of sound diffusion systems exceeding noise emission limits,

the impact noise assessment must be presented, complete with noise mitigation actions planning

At this point the activity can be started

Municipality office in charge can request further information/integrations regarding documents



Municipality office in charge carries out technical or formal checks, random or due to complaints, by Police officers



General Requirements for Taking Music Allowance





Before opening: Depending on the use of the local, there is a limit for sound levels in the activity and sound insulation limits..



After opening:

Noise at the receiver must be under the limits.

Facilities that have a permit to play music **cannot have terraces**, can't serve beverages or meals outdoors, can't play music outdoors nor have tv...



Permission request to municipality to start the activity

Prior to the granting of the municipal permit, the projects or activities must provide studies or technical reports that make it possible to estimate the effects that the activity may have on the environment and justify compliance with the technical requirements regarding noise pollution.

Spain

Sound insulation requirements are specified depending on the type of activity:





İRKİYE ULUSAL AJANSI







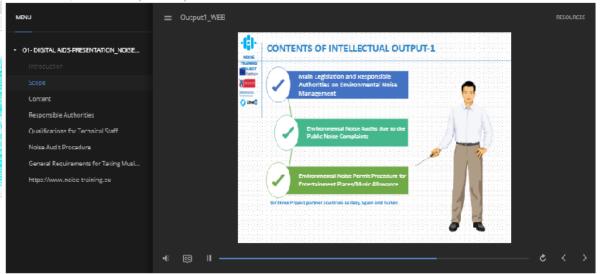


Module 1: Environmental Noise Audits in Local Authorities

MAIN FAGE V ABOUT PROJECT INTELLECTUAL OUTPUTS V ACTIVITIES V PUBLICATIONS V In

- >> Module Aim and Duration
 >> Target Audience
 >> Curriculum content
 >> Handbook of O1
- ↑ Digital Aids of O1

Course 1: Audit mechanism for public noise complaints in Turkey Course 2: Audit mechanism for public noise complaints in Italy Course 3: Audit mechanism for public noise complaints in Spain



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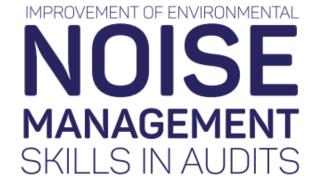






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IO-2: Legal Aspects of Environmental Noise Management (Stage 1)















SCOPE OF HANDBOOK FOR O2







Main Legislation

on Environmental Noise in Project **Partner Countries**

Responsible Authorities on **Environmental Noise**

Noise Criteria for Environmental Noise



ENVIRONMENTAL NOISE LEGISLATION IN TURKEY





ENVIRONMENT LAW (With Dated 1983 And Numbered 2872) Article 14

Noise Control Regulation Modifications on 2008-2010-

Revised version of RAMEN in 2015



1986



2015

Regulation on Assessment of Environmental Noise (RAMEN)

Harmonized with

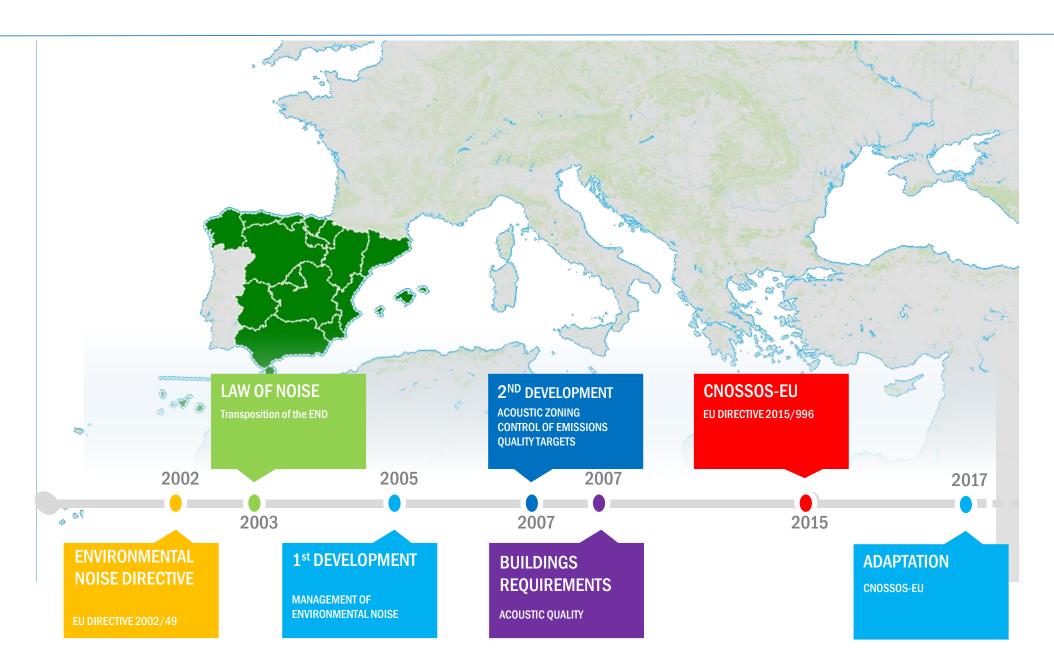
Environmental Noise Directive 2002/49/EC



ENVIRONMENTAL NOISE LEGISLATION IN SPAIN









ENVIRONMENTAL NOISE LEGISLATION IN ITALY





Decree on Noise measurements procedures and methodology (16/3/1998)

Decree on Limit values of noise sources (14/11/1997)

Still lacking -Decree on acoustic designing

Decrees of harmonization Italian/European laws n. 41 and 42/2017

Decree on transposition of Environmental Noise Directive 2002/49/CE D.lgs. 194/2005 Framework
National Law
on noise
pollution
n. 447/95

Decree on Acoustic Requirements of Buildings (5/12/1997)

> Decree on Aircraft Noise (31/10/1997)

Decree on Noise Mitigation Infrastructures Noise Planning (29/11/2000)

Decree on Railway Noise n.459

(18/11/1998)

Decree on Road Noise n. 142 (30/3/2004)







ENVIRONMENTAL NOISE LEGISLATION IN TURKEY

Noise Limit Values for Noise Sources

Roads **Airports Industrial plants** places **Entertainment places** Workplaces, Factories Railways Waterways **Constructions plants** Indoor noise limit values

Depending on land category

Of the uses sensitive to noise, areas where educational, cultural and health activities together with summer cottages and camping areas are concentrated.

Of the areas where commercial structures and the noise-sensitive uses are located together, areas where there are concentrations of dwellings

Of the areas where commercial structures and the noise-sensitive uses are located together, areas where there are concentrations of work places

Industrial areas

Depending on Differential Limit

the environmental noise limit values depends on differentials between the backgound noise and the noise emitted from the noise source.

Independent from the land category

The regulation also defines the environmental noise limit values for light rail systems passing underground and over the ground.

Construction site activities performed in and around settlements shall not be continued after day time period, during evening and night time periods. Only noise limit value in Lday is defined.



ENVIRONMENTAL NOISE LEGISLATION IN SPAIN

Noise Limit Values for Noise Sources





☐ The noise emissions are verified at the			
receivers' location, where the receivers			
are the acoustic areas in the			
surroundings.			

☐ The limits outdoors are set depending on the noise area classification.

☐ The noise immission limit values are the same with the acoutic quality targets in Ld, Le and Ln.

Health, education and culture requiring special protection against noise pollution.

Residential

Land for tertiary use other than that referred to in (c).

Recreational and entertainment.

Industry

Sectors of the territory affected by general transport infrastructure systems or other public facilities (1)

Port

Industrial plants

New Road Traffic

New Airport Infrastructure

New Railway Infrastructure

Activities, entertainment places

Depending on acoutic area category

Depending on acoustic area category

The immision limit values are 5 dbA lower than the values defined for acoustic quality targets after 2007-year.

. Noise levels at any of the stages ($L_{Keq,T}$) cannot exceed the limits in 5 dB or more (this is a value that can be audited). The noise level of each stage can be estimated through 5 seconds short-term measurements.

For entertainment places, sound insulation limits before opening and sound limiters inside.

Constructions plants, Temporary activities

local regulations establish requirements for starting **new** activities and for construction sites

Indoor noise limit values

Limits for building insulation,

Noise limits for the acoustic zone and time restriction.



ENVIRONMENTAL NOISE LEGISLATION IN ITALY Noise Limit Values for Noise Sources





- The road infrastructure is classified into 5 category and
- for each type of road and distinguishing between existing roads and new roads, the width (in meters) of the acoustic bands and related limit values are defined by

New Road Traffic

- A special commission of stakeholders (region, municipalities, aircraft management companies, etc.) defines boundary of the noise zones as A, B, And C.
- And the limits re defined for day and night time.

New Airport Infrastructure

- •The railway infrastructures are distinguished between:
- existing / new railways with project speed not exceeding 200 km/h and exceeding 200 km/h
- Noise limits are defined for day/night time and according to area schools/hospitals and to other receivers

New Railway Infrastructure

- Regions define criteria on the basis of which the municipalities establish areas where to allocate temporary events.
- Regions also define criteria for authorization, also in derogation from established limit values, of temporary activities and events in public/open to the public places and for temporary or mobile performances, in compliance with the rules indicated by the municipality itself.

Temporary activities

- Noise sources limit values: the maximum noise level that can be emitted from a sound source (evaluated at the receiver locations).
- Environmental noise limit values: the maximum noise value that can be introduced from one or more sound sources in the living environment or in the external environment, measured at the receiver locations.
- Limits are defined according to the territory function classes (assigned in the phase of Noise Zoning)

Industrial plants

CLASS I - particularly protected areas: hospital areas, schools, rural residential areas, public parks, etc.

CLASS II - areas mainly for residential use

CLASS III - mixed areas: includes urban areas affected by local traffic, with a medium population density, presence of commercial activities

CLASS IV - areas of intense human activity: includes urban areas affected by intense vehicular traffic, with a high population density

CLASS V - predominantly industrial areas

CLASS VI - exclusively industrial areas



ENVIRONMENTAL NOISE LEGISLATION IN ITALY Noise Limit Values for Industrial Plants





Class	Noise sources limit values - LAeq - dB(A) * LAeq values are evaluated/measured referred to the whole day/night reference period * The noise source limit values are waiting to be updated according to Italian Decree D.Lgs. 42/2017	
	Daytime period (06.00 am – 10 pm)	Nighttime period (10.00 pm – 06.00 am)
1	45	35
II	50	40
III	55	45
IV	60	50
V	65	55
VI	65	65

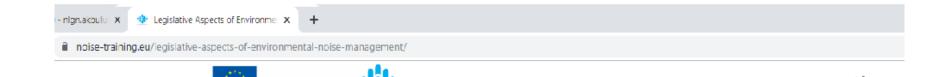
Class	Environmental Noise limit values - LAeq - dB(A) LAeq values are evaluated/measured referred to the whole day/night reference period Absolute limit values, determined with reference to the equivalent level of environmental noise	
	Daytime period (06.00 am – 10 pm)	Nighttime period (10.00 pm – 06.00 am)
I	50	40
II	55	45
III	60	50
IV	65	55
V	70	70
VI	70	70

<u>Differential limits</u> exist. They are applicable in the internal receiver living environment, considering open and close windows scenarios, and are determined with reference to the difference between the equivalent level, LAeq, of environmental noise (evaluated/measured referred to a measurement time, usually at least 10-15 minutes, considered representative for highest noise conditions of the examined source) and the background noise (usually evaluated/measured referred to the same measurement time used for environmental noise evaluation).

Daytime period (06.00	Nighttime period
am – 10 pm)	(10.00 pm – 06.00 am)
+5dB(A)	+3 dB(A)

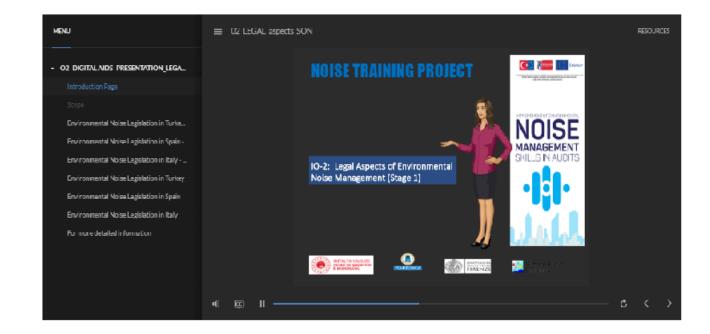






Module 2: Legal Aspects Of Environmental Noise Management





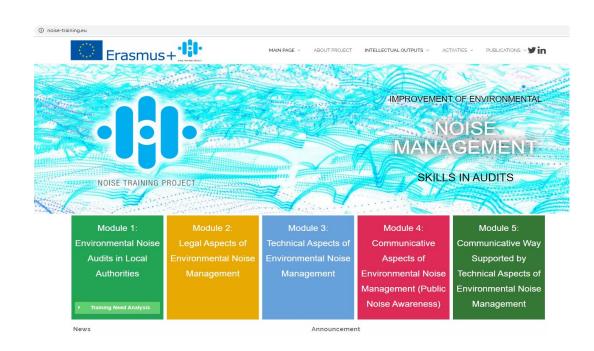
https://www.noise-training.eu/legislative-aspects-of-environmental-noise-management/



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