

GÜRÜLTÜ EĞİTİM PROJESİ KAPANIŞ KONFERANSI

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Handbook-1: Environmental Noise Management Applications in Local Authorities

Handbook-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



ANTALYA VALİLİĞİ
ÇEVRE VE ŞEHİRCİLİK
İL MÜDÜRLÜĞÜ



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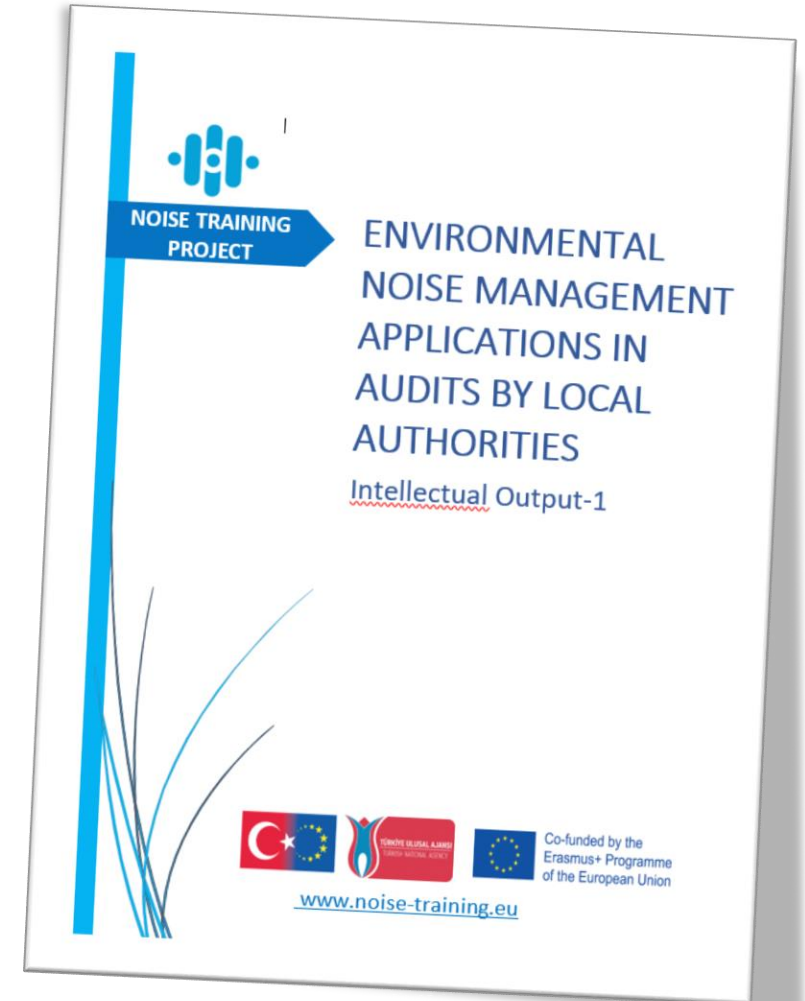
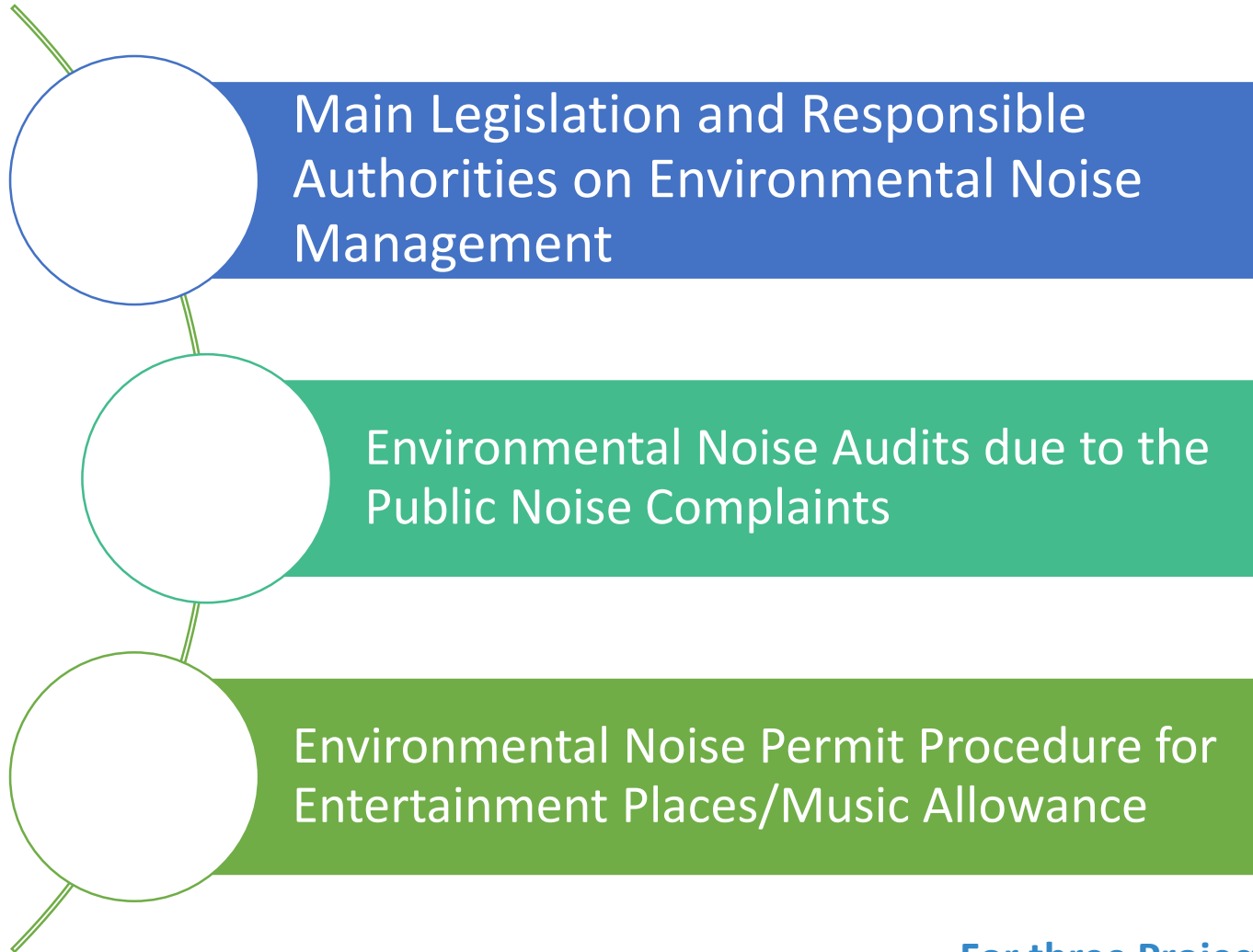
IMPROVEMENT OF ENVIRONMENTAL
NOISE
MANAGEMENT
SKILLS IN AUDITS





NOISE TRAINING
PROJECT

CONTENTS OF INTELLECTUAL OUTPUT-1



For three Project partner countries
as Italy, Spain and Turkey

- 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.

Turkey

- **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,

Italy

- **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.

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

Turkey

- **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.

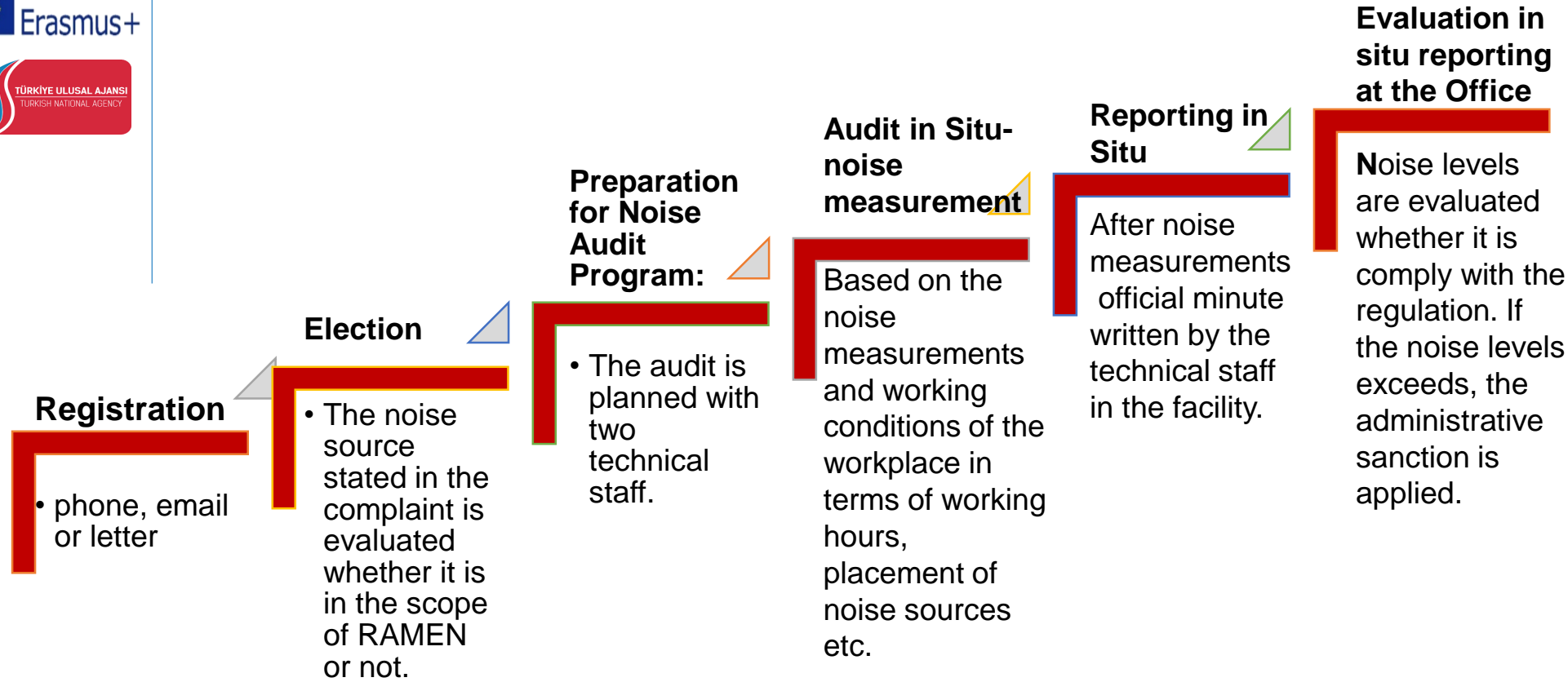
Italy

- **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.

Spain

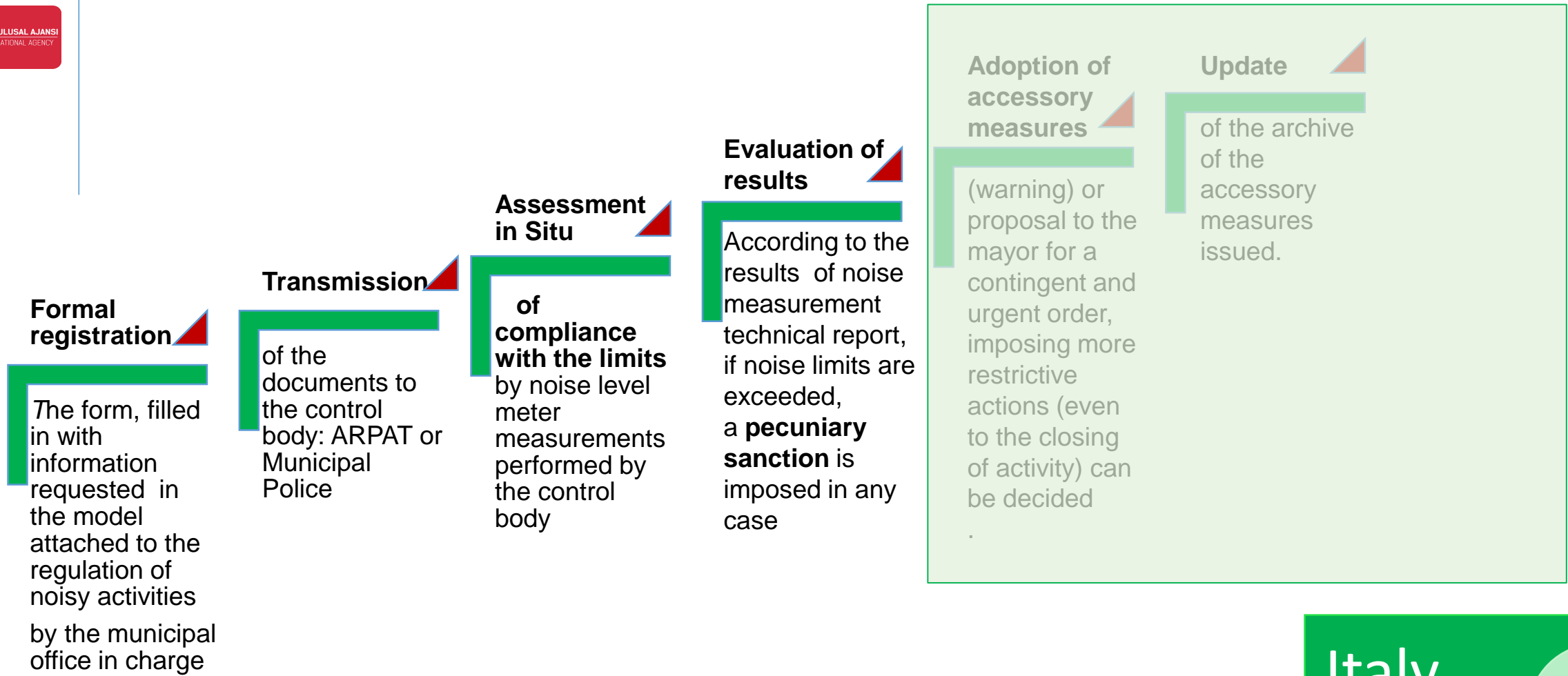


Noise Audit Procedure in Turkey



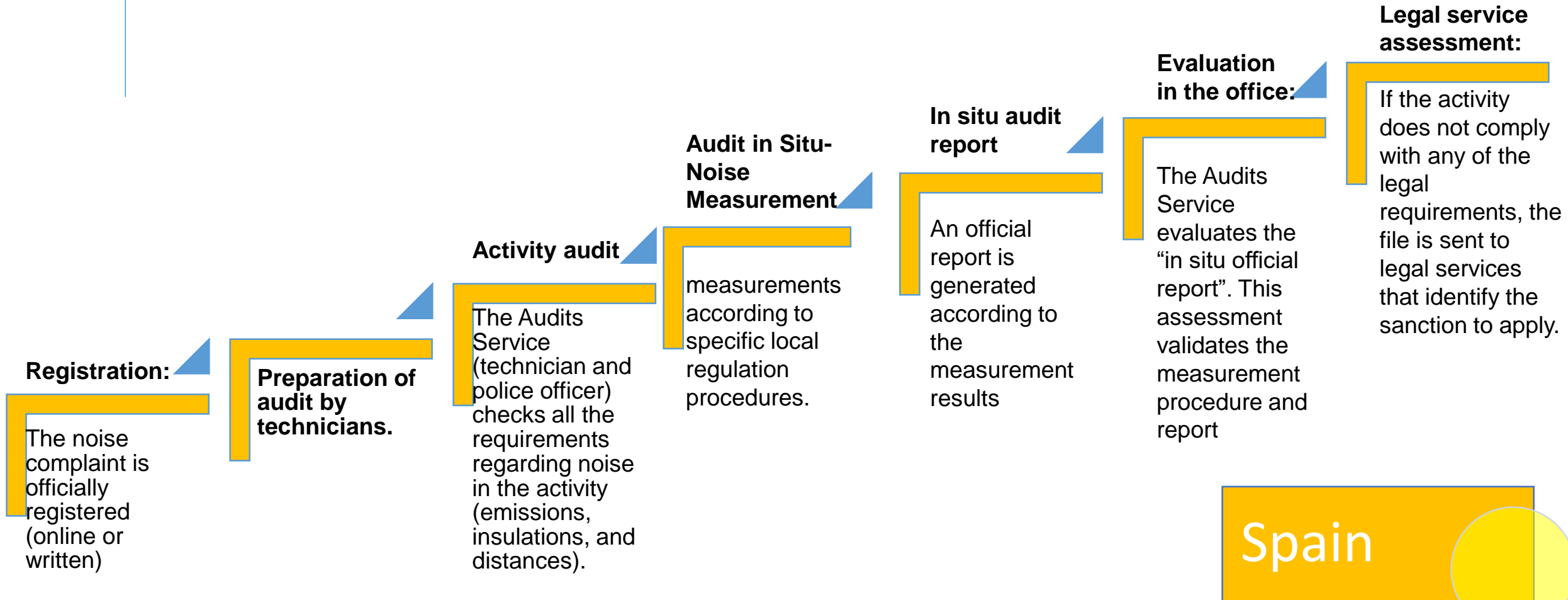


Noise Audit Procedure in Italy





Noise Audit Procedure in Spain



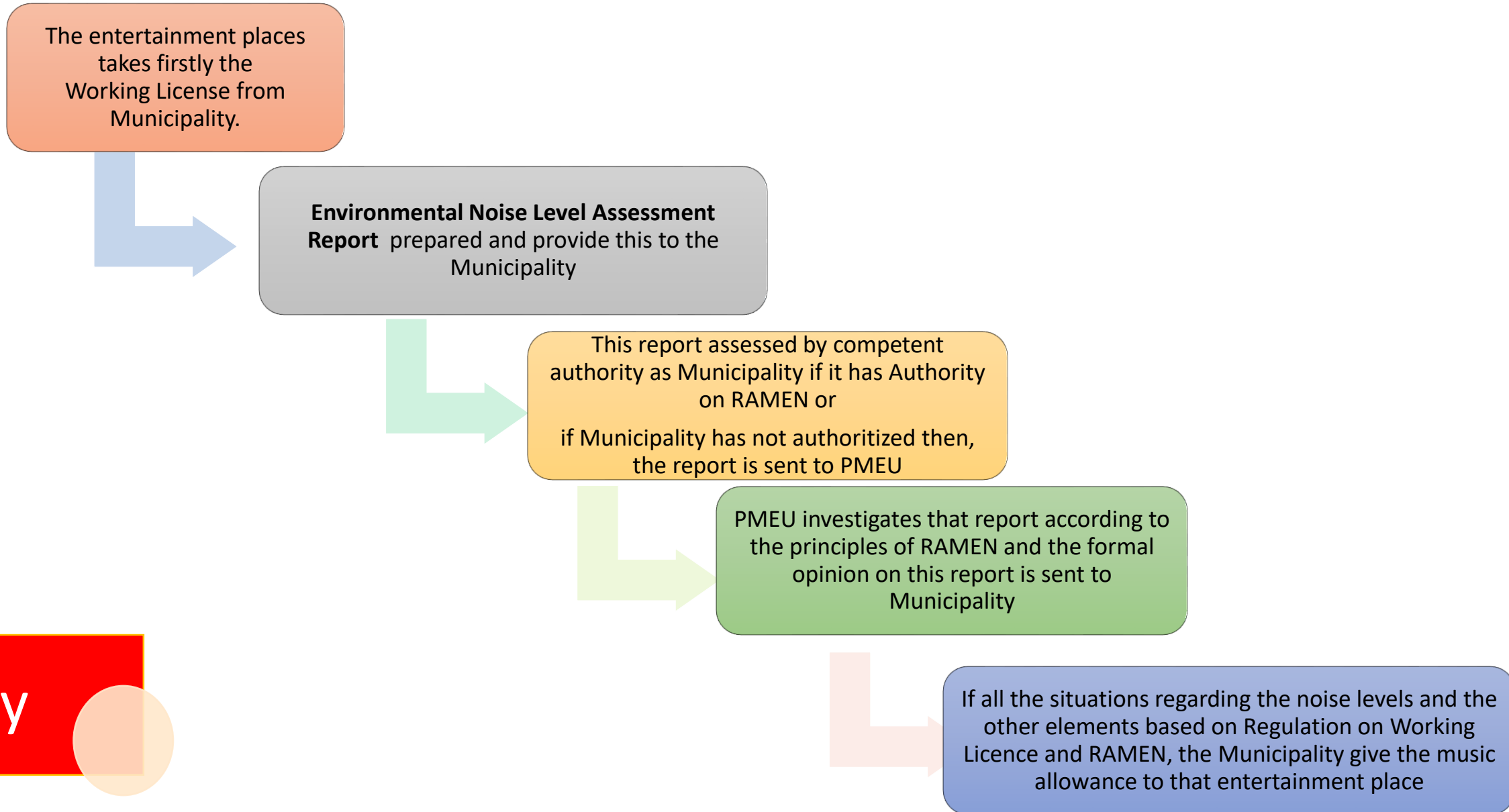
- Responsible Authority to Give Music Allowance
- Responsible Authorities for Noise Audit in Entertainment Places
- General Requirements for Taking Music Allowance**
- General Report Format for Noise Level Assessment Report
- Requirements of Staff for Preparing the Environmental Noise Assessment Reports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

PRACTICAL
HANDBOOK ON
INTELLECTUAL
OUTPUT 1/2

ENVIRONMENTAL
NOISE PERMIT
PROCEDURE for
ENTERTAINMENT
PLACES/MUSIC
ALLOWANCE

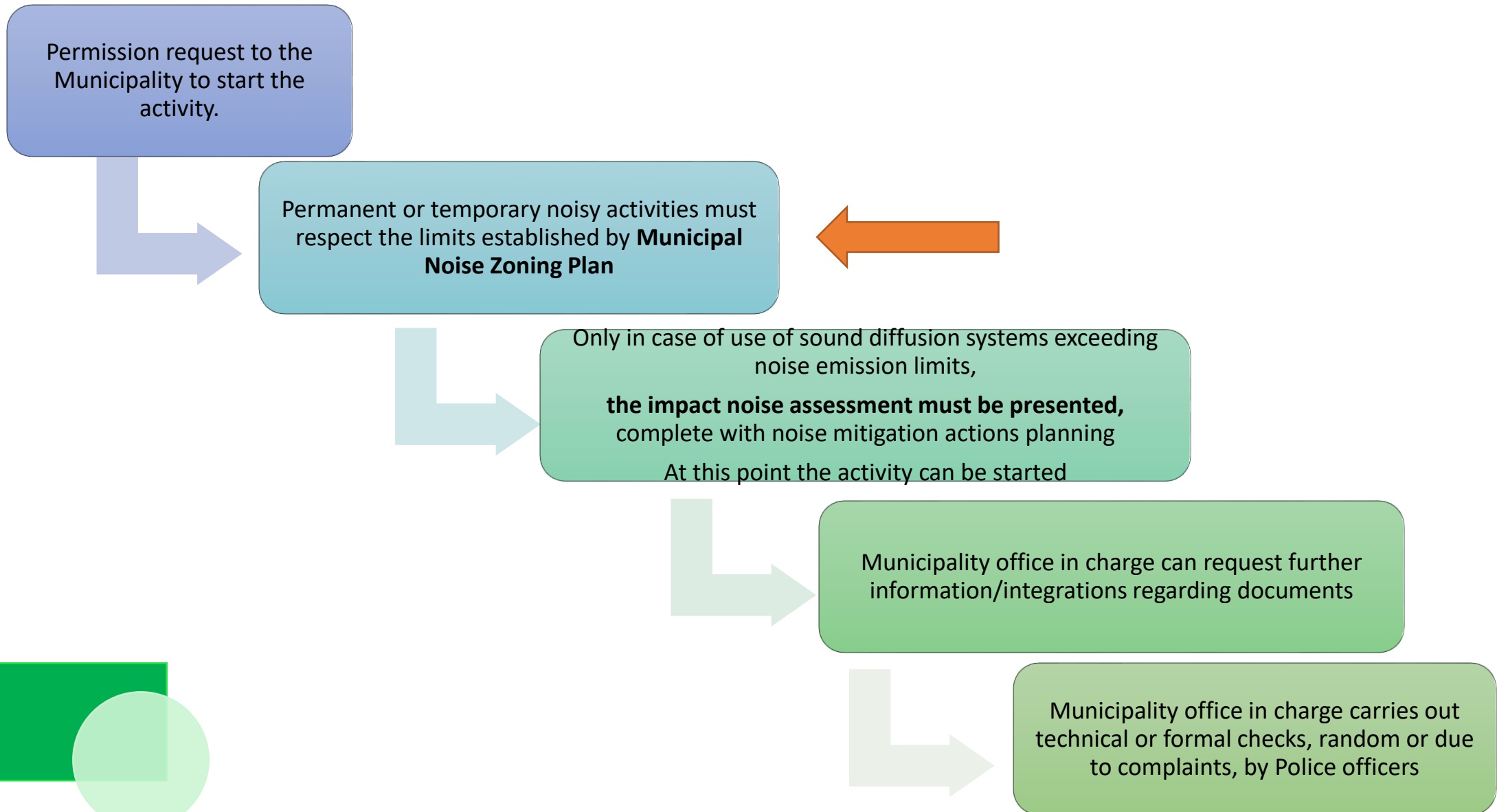


General Requirements for Taking Music Allowance





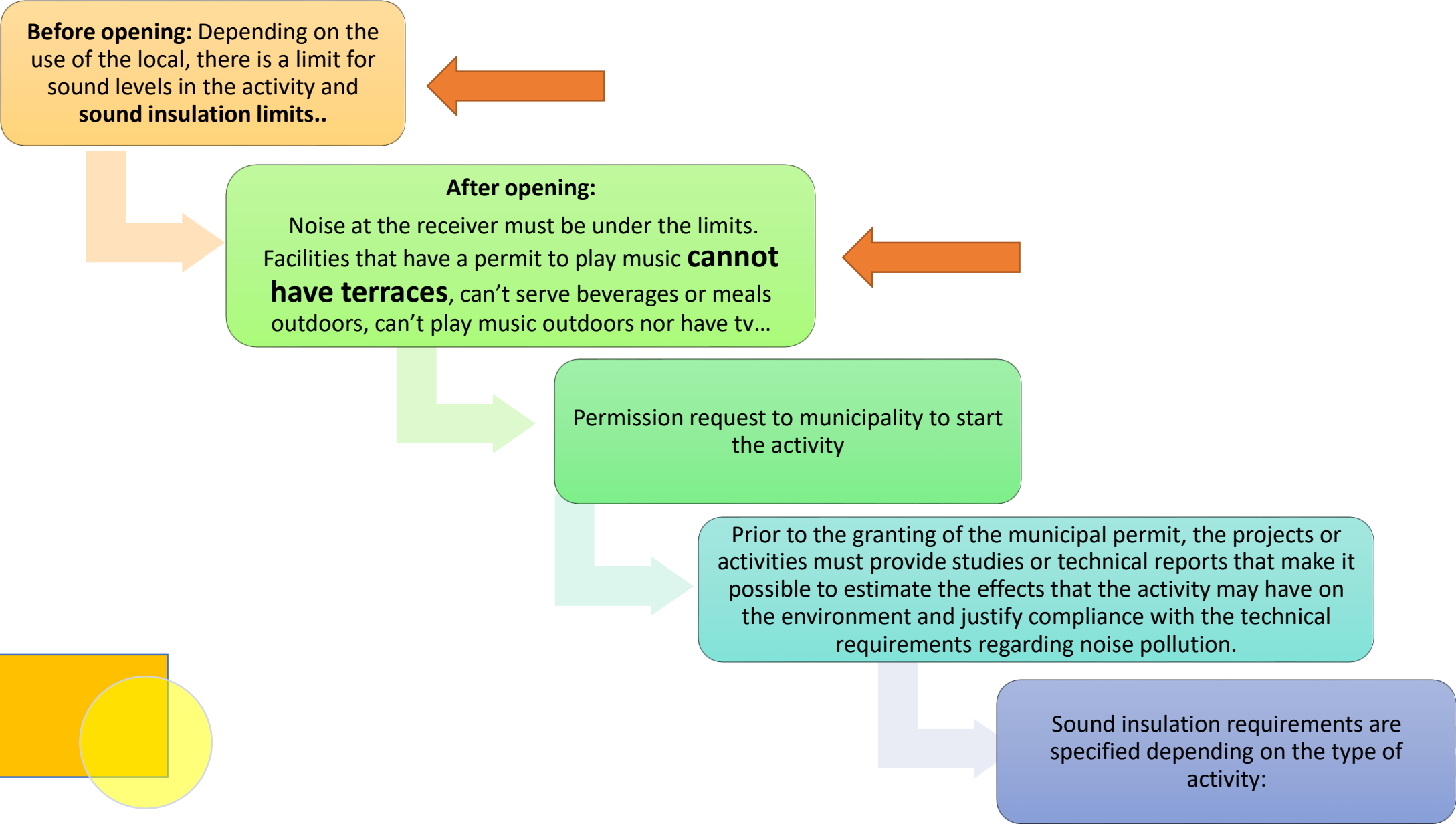
General Requirements for Taking Music Allowance



Italy



General Requirements for Taking Music Allowance



Spain



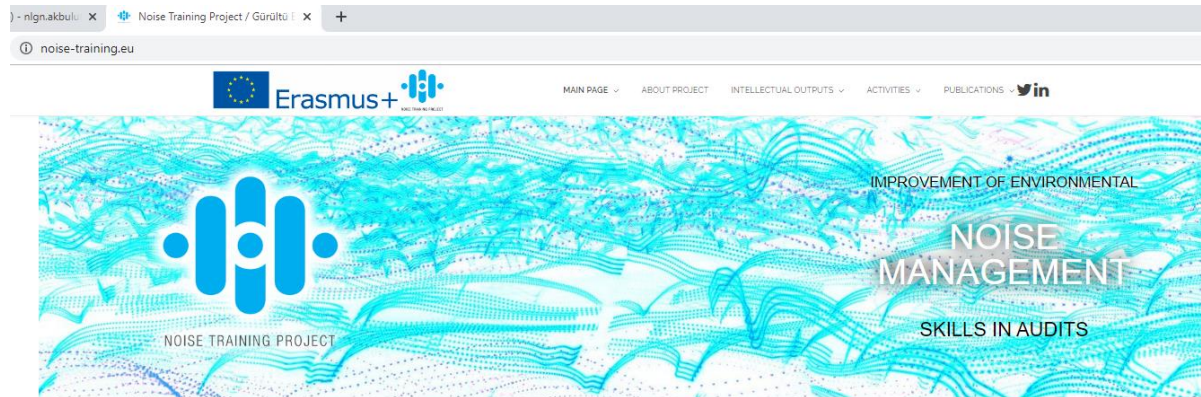
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Module 1: Environmental Noise Audits in Local Authorities

- » 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



Interactive Tools for Environmental Noise Management

<p>Module 1: Environmental Noise Audits in Local Authorities</p> <p>Training Need Analysis</p>	<p>Module 2: Legal Aspects of Environmental Noise Management</p>	<p>Module 3: Technical Aspects of Environmental Noise Management</p>	<p>Module 4: Communicative Aspects of Environmental Noise Management (Public Noise Awareness)</p>	<p>Module 5: Communicative Way Supported by Technical Aspects of Environmental Noise Management</p>
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- Introduction
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- Qualifications for Technical Staff
- Noise Audit Procedure
- General Requirements for Taking Measure...
- https://www.noise-training.eu

Output1_WEE

RESOURCES

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 Frequentest Plans/Major Activities

for three project partner countries (Italy, Spain and Turkey)

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

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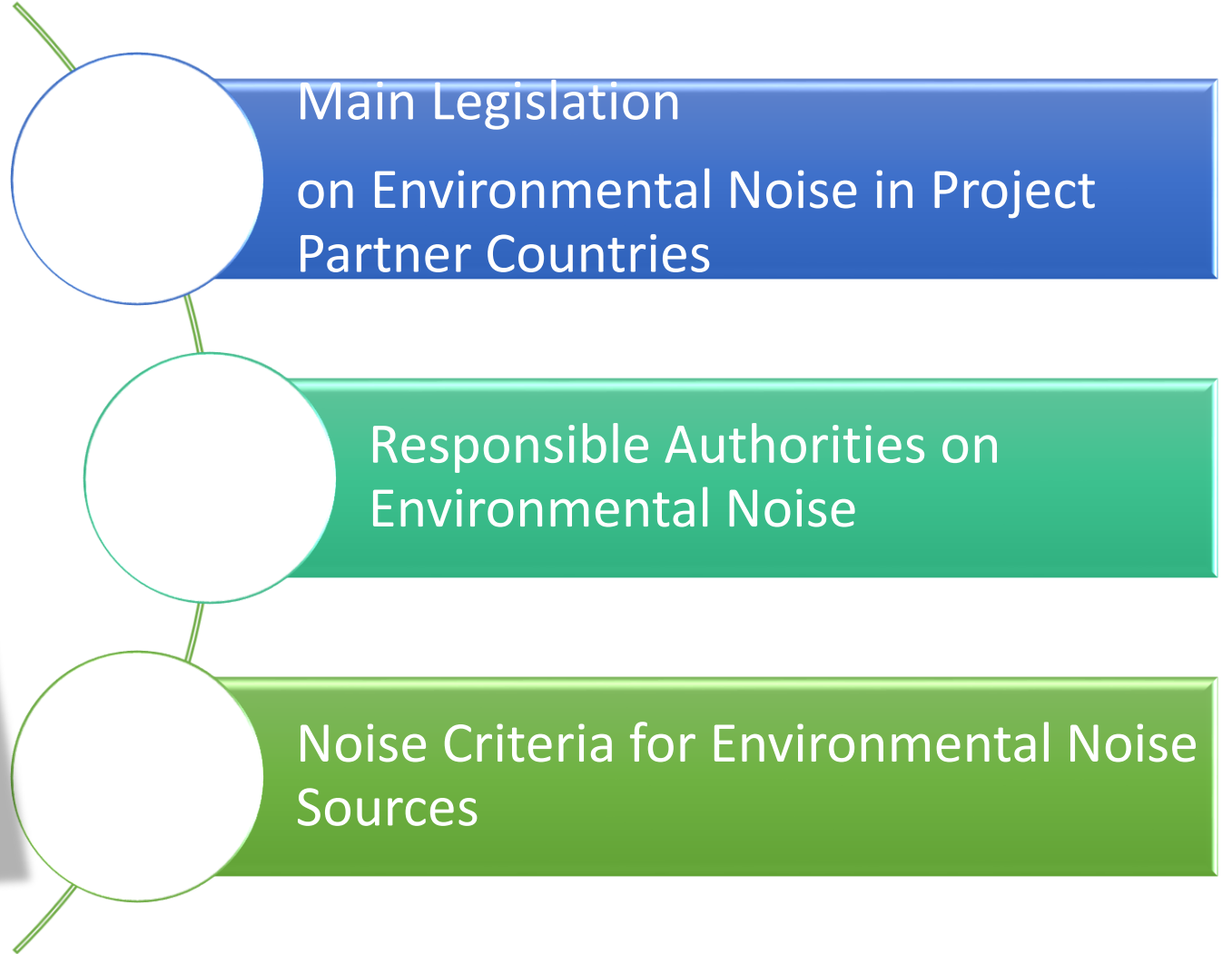
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SCOPE OF HANDBOOK FOR O2





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ENVIRONMENTAL NOISE LEGISLATION IN TURKEY



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



Noise
Control
Regulation

1986

Modifications
on 2008-2010-
2011

2005

Revised
version of
RAMEN in
2015

2015

**Regulation on Assessment of Environmental Noise
(RAMEN)**

Harmonized with

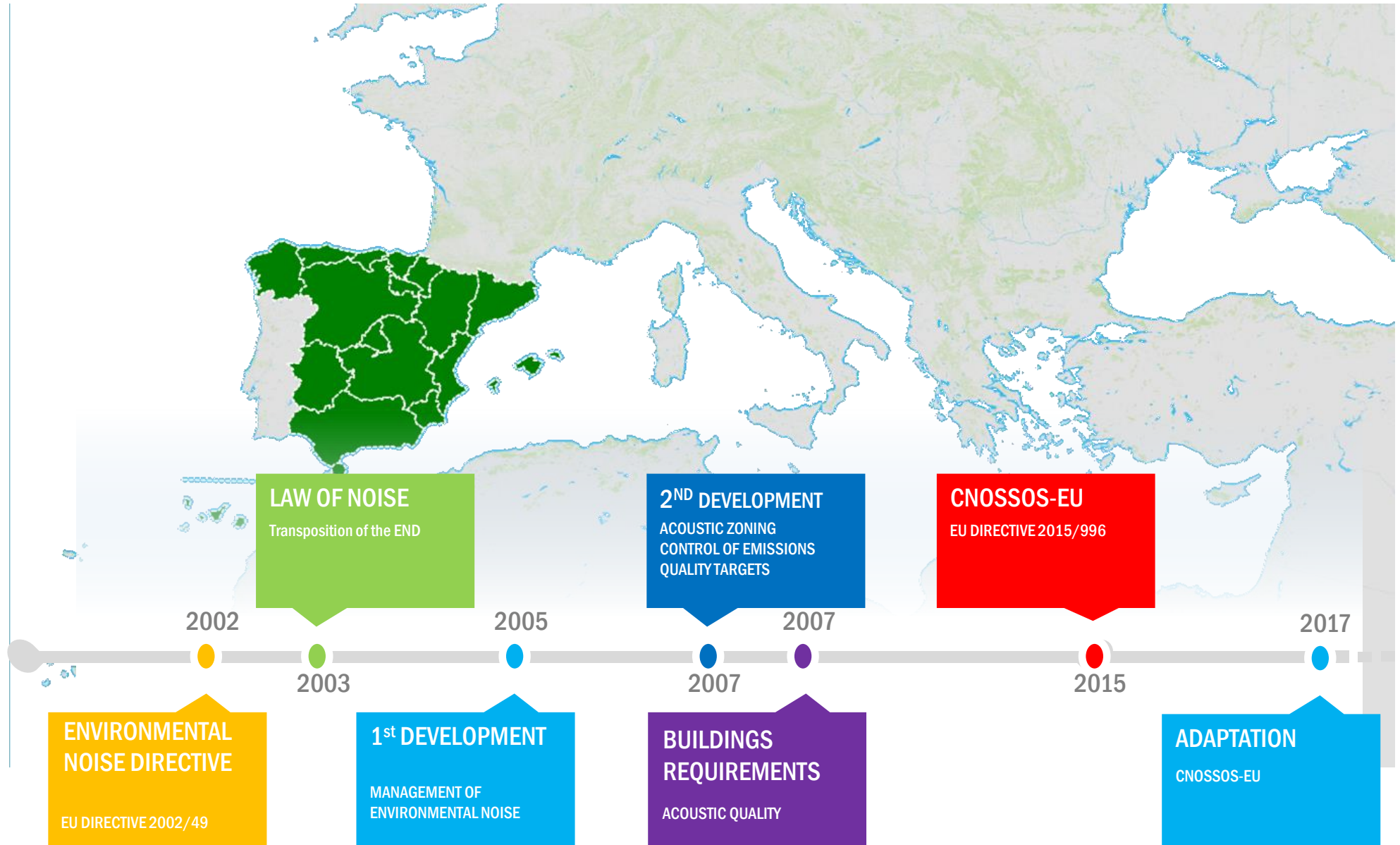
Environmental Noise Directive

2002/49/EC



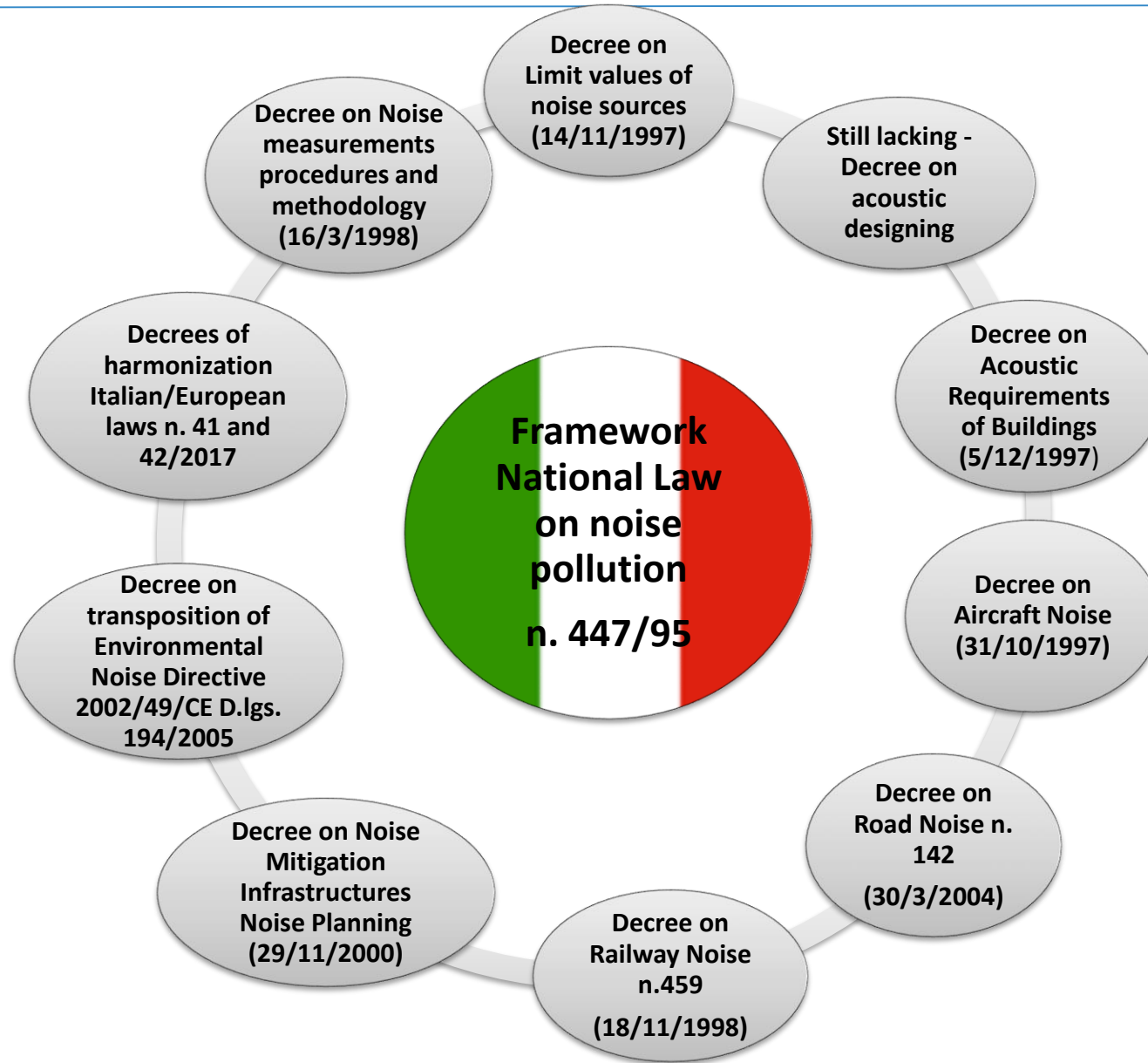
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ENVIRONMENTAL NOISE LEGISLATION IN SPAIN





ENVIRONMENTAL NOISE LEGISLATION IN ITALY





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ENVIRONMENTAL NOISE LEGISLATION IN TURKEY

Noise Limit Values for Noise Sources



Roads

Airports

Industrial plants

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 background 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



New Road Traffic

New Airport Infrastructure

New Railway Infrastructure

Port

Activities, entertainment places

Industrial plants

Constructions plants, Temporary activities

Indoor noise limit values

Depending on acoustic area category

- 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 immision 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)

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.

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

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 categories 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 are 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) *	
	Daytime period (06.00 am – 10 pm)	Nighttime period (10.00 pm – 06.00 am)
I	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)	
	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

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



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Module 2: Legal Aspects Of Environmental Noise Management

» Module Aim and Duration

» Target Audience

» Curriculum content

» Handbook of O2

» Digital Aids of O2

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

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Environmental Noise Legislation in Italy

For more detailed information

NOISE TRAINING PROJECT

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

NOISE MANAGEMENT SKILLS IN AUDITS

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UNIVERSITÀ DI FIRENZE



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IMPROVEMENT OF ENVIRONMENTAL NOISE MANAGEMENT SKILLS IN AUDITS

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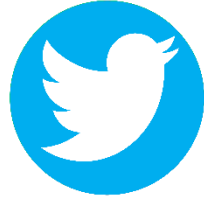
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