Category(ies) of vehicle: L, M & N

Literature Study
Measurements & Tests

(FRANCE) NATIONAL UPDATE: STUDY ON HEALTH AND SOCIAL COST OF NOISE IMPLEMENTATION OF SOUND CAMERAS

ENFORCEMENT
SOCIAL IMPACTS

MAIN MESSAGES FROM THE PRESENTATION(S)

Context:

- The environmental noise pollution is a major concern for France
- 2 studies have been conducted to highlight social costs of road noise by ADEME & BRUITPARIF
- 1 experiment supported by French government is on-going to participate in the fight against noise pollution

Main outputs:

- The cost of road noise is estimated at 81 billion euros per year in France according to ADEME
- The cost of road noise is estimated at 26 billion euros per year in Ile de France (Paris's region) according to BRUITPARIF
- The experimentation consists of 2 phases: the development of the sensor and next detection/recording of noisy vehicles for potential fines to drivers

SUMMARY

The presentation of France has the objective to give an up-to-date update of the transport noise status in France.

3 studies/experimentation have been mentioned:

- Social cost in France of all noise sources by ADEME [1];
- Social cost in Ile de France of road noise by Bruitparif [2];
- Noise cameras experiment launched by the French government in December 2021 [3].

The objective of the study led by ADEME, is to evaluate the social cost of all noise sources. This evaluation was carried out according to the ISO 1996-1:2016 standard and the 2002/49/EC regulation. The social cost has been estimated at 147.1 billion euros per year including direct costs (illness, accidents, hospitalization and medication) and indirect costs (health, well-being, productivity loss and property depreciation). According to the authors, the noise from transport (consisted of aeronautics, railways, and road transport) represents 66.5 % of the cost. The cost of road transport has been estimated to 54.8 %, i.e. 80.6 billion euros per year.

Bruitparif has carried out a second social cost study based on the data provided by ADEME on Paris and its suburbs area (Ile-de-France region). The authors inform that some calculation methodologies have been adjusted in comparison to calculations used in the ADEME study. The assessment conducted for the Île-de-France region (18 % of the French population) establishes that the costs caused by transport-related noise represent 26 billion euros per year, i.e. 27 % of the estimated cost of transport noise for the whole of France.

The last study presented is related to the inspection of vehicle noise emissions. Supported by the French government as part of the fight against noise pollution, the objective is to implement an experiment, that will allow the authorities to sanction vehicles that are too noisy. 3 French sonar companies have been involved in the project to propose a noise camera [4] able to automatic detect vehicle and its associated noise level. The implementation is leading in 2 phases: a first one dedicated to monitoring and calibration of noise cameras before their approval and a second phase dedicated to detection and recording of infractions.

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ADDITIONAL POINTS FROM DISCUSSIONS IN THE TF-VS
- Social benefits should also be considered: what is the benefit compared to this huge amount of costs? - Fine at 135€ after a transitional period with threshold still to be defined

REFERENCES
TFVS-07-07 Rev.1: Study on health and social cost of noise – Implementation of sound cameras [1]: Coût social du bruit en France, ADEME, 2021 - https://librairie.ademe.fr/air-et-bruit/4815-cout-social-du-bruit-en-france.html [2]: Coût social du bruit en Ile de France, Bruitparif, 2021 - https://www.bruitparif.fr/cout-social-du-bruit-en-ile-de-france1/ [3]: Radars sonores : une expérimentation en conditions réelles pour lutter contre la pollution sonore, 2022 - Radar sonore | Ministères Écologie Énergie Territoires (ecologie.gouv.fr) [4]: Information on Medusa sensor is available at https://viginoiz.com/meduse.html

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