Issues in transportation noise mitigation - highway and railway studies.

Transportation Research Board - The art of rail noise policy

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Darwin, Erasmus, 1731-1802.
Debts, Public.
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Railroads -- Noise.
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Noise and Vibration Mitigation for Rail Transportation Systems

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Noise above 55 dB A , where dB A is a measure that attempts to correct the way the human ear perceives loudness, is considered noise pollution for humans, and the sound values in the range 65—75 dB A cause stress to the body, leading to arterial hypertension high blood pressure , cardiovascular disease, and heart attacks Berglund et al.

Transportation noise pollution and cardiovascular disease

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Noise Control Engineering for Transportation

Hunsaker Professor of Aeroxnautics and Astronautics, Massachusetts Institute of Technology. Long-term exposure to road traffic noise and incidence of diabetes in the danish nurse cohort. In this article, we review some unique aspects of road, railway, and aviation noise and describe some efforts to reduce the effects of noise to accommodate anticipated increases in demand for transportation.

Issues in transportation noise mitigation: highway and railway studies

Stationary sources in fixed locations include noise at road crossings from horns and bells; noise from layover tracks from idling diesel engines; and yard noise from retarders, car couplers, and idling locomotives. Dampers are known to be an efficient way to reduce noise emission in railway networks Lakušić and Ahac. They fully understand the requirements of the regulatory approval agency and have assisted our clients both by providing quality acoustic assessment reports, and when necessary, developing practical solutions for noise excesses.

NAE Website

Another positive trend is tire-pavement research to reduce highway noise at the source instead of installing noise barriers, which shield only localized areas. The latter presents many challenges, and there are many examples where federal guidelines for land use have not been followed, exacerbating community noise problems. On railways, in particular, the biodegradation of PAHs and herbicides is extremely low and can persist over decades Wilkomirski et al.

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