# Noise in Europe

2017 overview of policy-related data



The Environmental Noise Directive (END) requires EU member states to assess exposure to noise from key transport and industrial sources with two initial reporting phases: 2007 and 2012. Where the recommended thresholds for day and night indicators are exceeded, action plans are to be implemented. This country fiche presents data related to END assessments as reported to EEA by 15<sup>th</sup> April 2016 for the two key END indicators: Lden (day evening and night exposure) and Lnight (night time exposure). 2012 strategic noise maps reported are presented, as well as HIA calculations for annoyance and sleep disturbance, hospital admissions and mortality. Trends are presented as the change in exposure from 2007 to 2012, for comparable sources only.

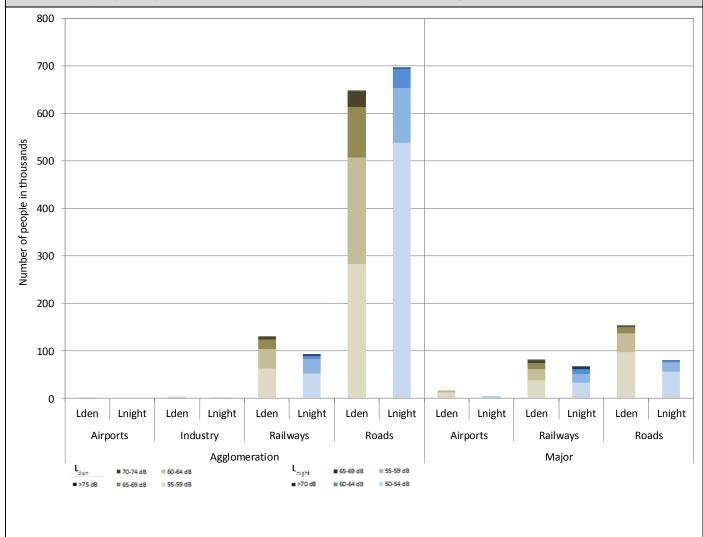


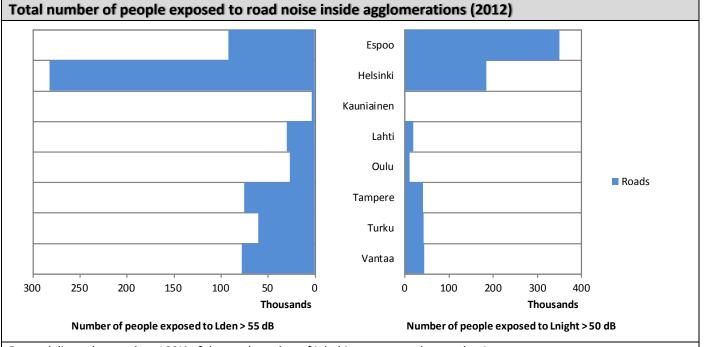
## **FINLAND**

# Agglomerations > 100.000 inhabitants Espoo, Helsinki, Kauniainen, Lahti, Oulu, Tampere, Turku, Vantaa 8 agglomerations in total, covering 1.627.352 inhabitants Major airports > 50.000 movements per year Major roads > 3 million vehicles per year Major railways > 30.000 train passages per year Espoo, Helsinki, Kauniainen, Lahti, Oulu, Tampere, Turku, Vantaa 8 agglomerations in total, covering 1.627.352 inhabitants Helsinki Vantaa Airport, Helsinki-Malmi Airport, Turku Airport 2243 km in total

### Number of people exposed to different noise bands per L<sub>den</sub> and L<sub>night</sub> (2012)

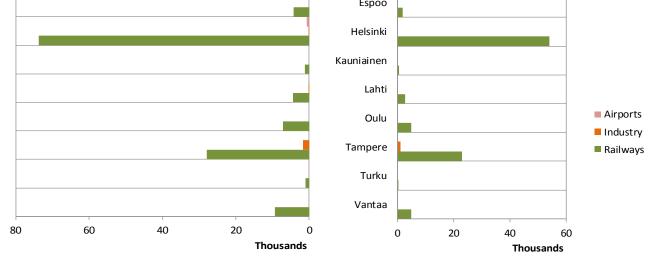
Data not applicable in 6 agglomerations for aircraft noise, out of 8 agglomerations.



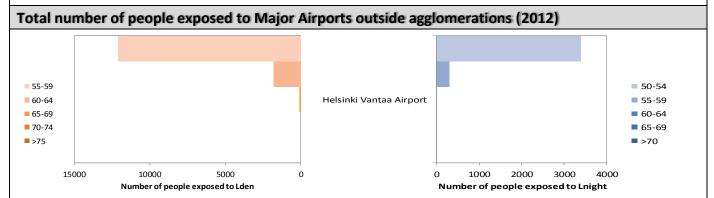


Espoo delivered more than 100% of the total number of inhabitants exposed to road noise

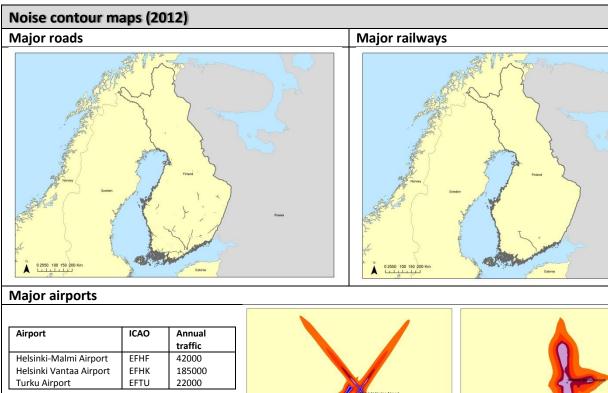




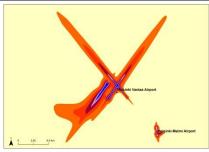
Number of people exposed to Lden > 55 dB Number of people exposed to Lnight > 50 dB

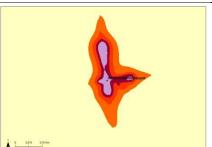


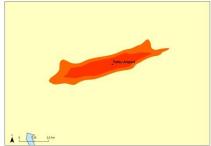
Helsinki-Malmi Airport and Turku Airport have not provided data on noise exposure.

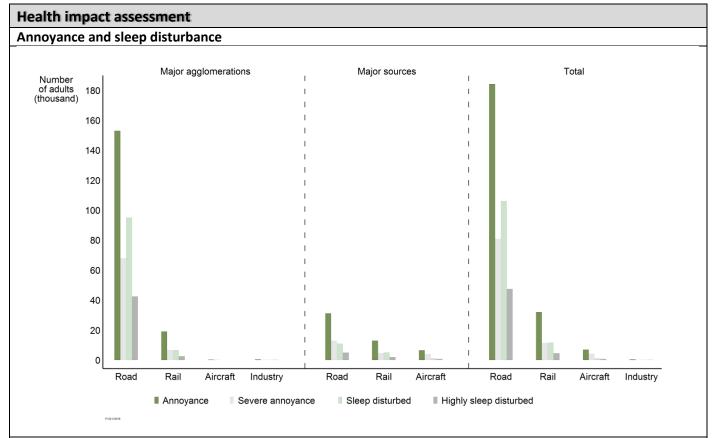




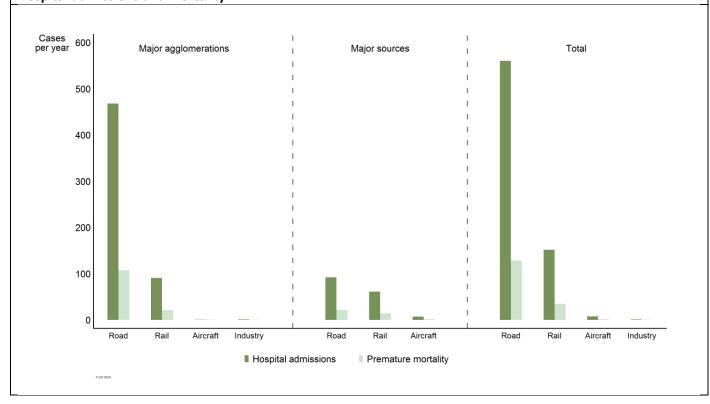












### Trends on noise exposure 2007 - 2012

Trends on noise exposure are shown only in those cases where data is available for both implementation rounds:

- For major airports: total number of people exposed to more than 55 dB Lden and to more than 50 dB Lnight outside agglomerations.
- For agglomerations: percentage of population exposed to more than 55 dB Lden and to more than 50 dB Lnight due to different noise sources.

### **Major airports:**

		L <sub>den</sub>	I	L <sub>night</sub>	
	First Round	Second Round	First Round	Second Round	
Helsinki Vantaa Airport	10200	14000	2900	3700	

### **Agglomerations:**

Air	L <sub>den</sub>		Lr	ight
(values in %)	First	Second	First	Second
(values III 70)	Round	Round	Round	Round
Helsinki	0.1	0.1	0	0

Railway	$L_{den}$		$L_{night}$		
(values in	First	Second	First	Second	
%)	Round	Round	Round	Round	
Helsinki	12.4	12.9	9.1	9.5	

	industry	L <sub>den</sub>		Lnight		
	(values in	First	Second	First	Second	
	%)	Round	Round	Round	Round	
	Helsinki	Data not p	orovided or u	nsuitable for	deriving	
HEISHIKI		trends				

Road	L <sub>den</sub>		L	L <sub>night</sub>		
(values in	First	Second	First	Second		
%)	Round	Round	Round	Round		
Helsinki	42	49	29	32		

Decrease in population exposed
No change
Increase in population exposed

For further information about environmental noise in Europe please

consult <a href="http://www.eea.europa.eu/themes/human/noise">http://www.eea.europa.eu/themes/human/noise</a> or visit the Noise Observation & Information Service for Europe at <a href="http://noise.eionet.europa.eu/">http://noise.eionet.europa.eu/</a> and EEA Data Service <a href="http://www.eea.europa.eu/data-and-maps/data/data-on-noise-exposure-2">http://www.eea.europa.eu/data-and-maps/data/data-on-noise-exposure-2</a>.