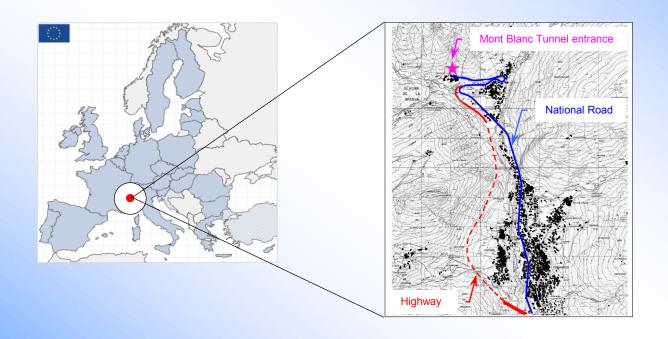
Noise impact of an international traffic corridor in alpine environment: traffic scenarios and population exposure in Mont Blanc area

Giovanni Agnesod,

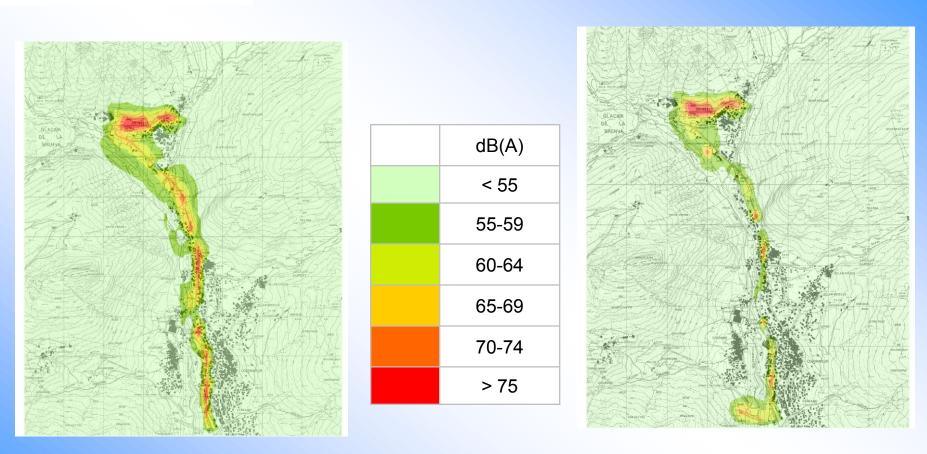
Marco Cappio Borlino, Christian Tibone, Christian Tartin, Daniele Crea, Filippo Berlier





The area object of the analysis and its position in Europe.

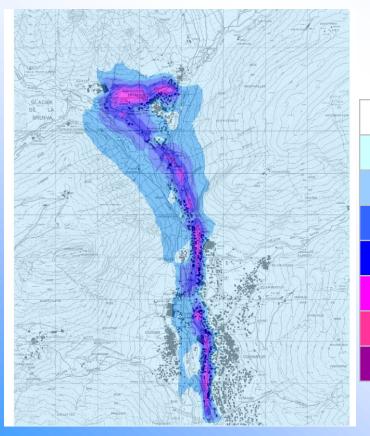


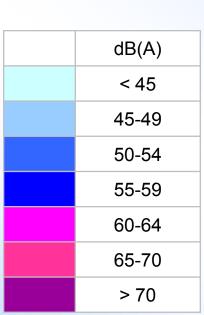


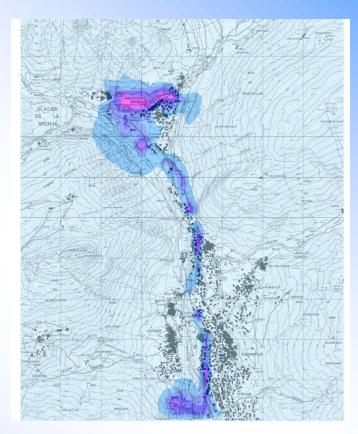
Lden sound levels territorial distribution before (a) and after (b) the opening of the last section of the highway E25, for the most in gallery.



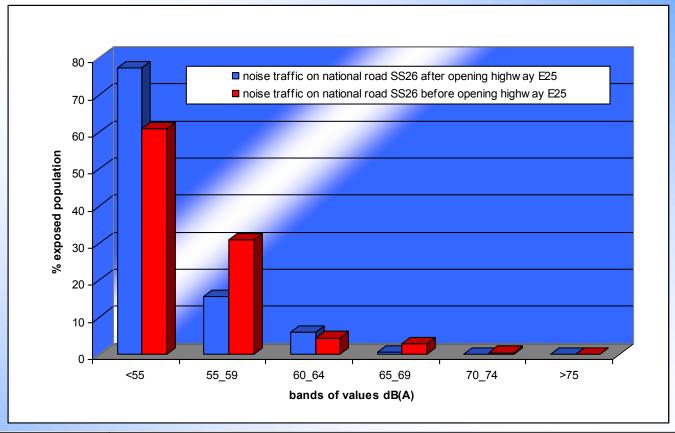
Lnight sound levels territorial distribution before (a) and after (b) the opening of the last section of the highway E25, for the most in gallery.





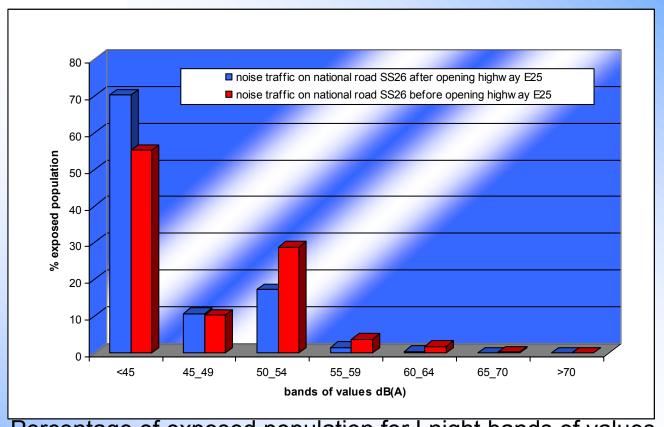






Exposed population (%)	Bands of values of L ₀₆₋₂₂ (dBA)					
	<50	50-54	55-59	60-64	65-70	>70
Scenario a	61	26	9	3	1	0
Scenario b	67	24	8	1	0	0

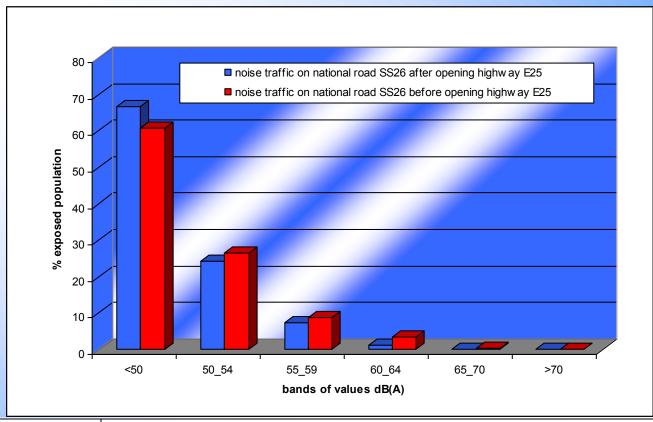




Percentage of exposed population for Lnight bands of values.

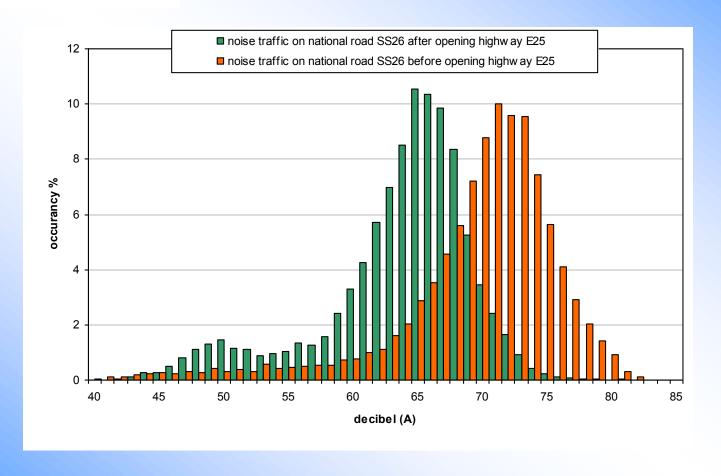
Exposed population (%)	Bands of values of L _{night} (dBA)						
	<45	45-49	50-54	55-59	60-64	65-70	>70
Scenario a	55	10	29	4	2	0	0
Scenario b	70	11	17	2	0	0	0





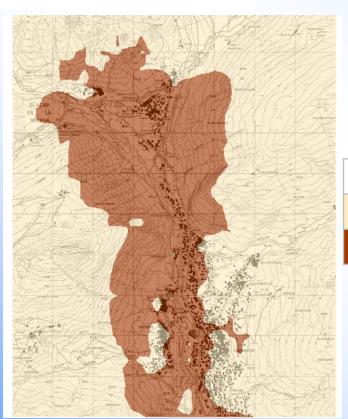
Exposed population (%)	Bands of values of L ₀₆₋₂₂ (dBA)					
	<50	50-54	55-59	60-64	65-70	>70
Scenario a	61	26	9	3	1	0
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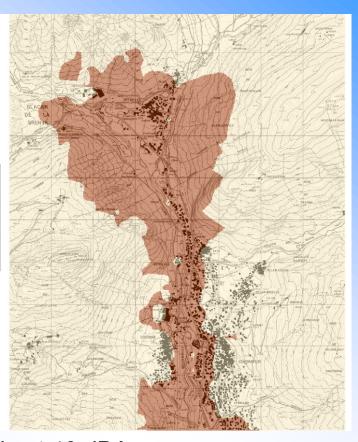


Statistic distributions of short term Leq values (30 s), 06-22 period, at an hotel near the national road.





dB(A)		
< 40		
> 40		



L06-22 curve of the sound levels at 40 dBA

before (a) and after (b) the opening of the last section of the highway E25,

for the most in gallery.

