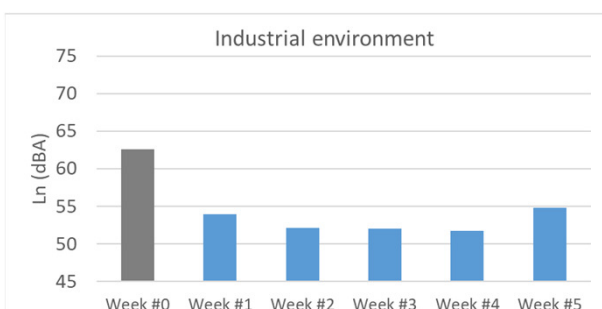
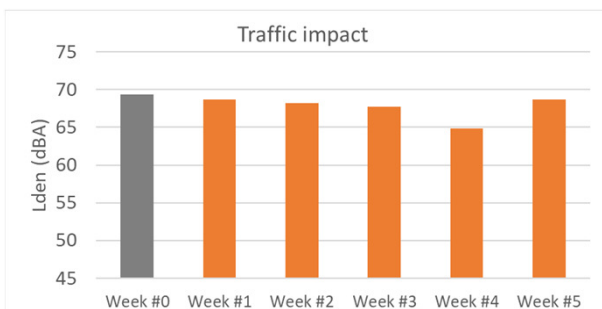
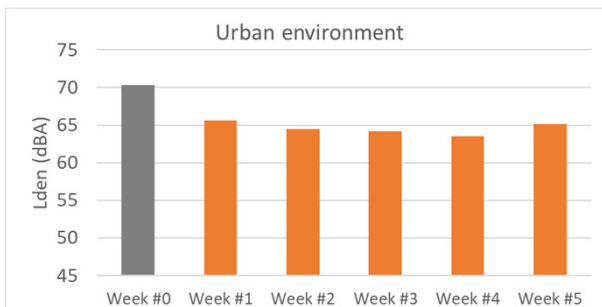


Scope

Environmental noise reduction analysis due to COVID-19 disease comparing sound levels before and during the lockdown for those noise sources which generate a greater acoustic impact on population: urban road traffic, interurban road traffic, industry and nightlife.



Description

COVID-19 has forced government to declare the state of alarm throughout the country and a general lockdown to avoid disease spread.

This lockdown has caused a radical modification of the acoustic landscape.

Results

An important noise reduction was observed during first week lockdown, but as weeks go by noise reduction becomes more evident, especially during third and fourth week when full lockdown was declared. Here's noise reduction between pre-COVID week and full lockdown (week #4):

- Urban environment: -7 dBA in Lden
- Interurban traffic: -4.5 dBA in Lden
- Industrial area: -11 dBA in Ln
- Nightlife: -24 dBA in Ln

Week #5 shows slight noise increment because of lockdown relaxation.



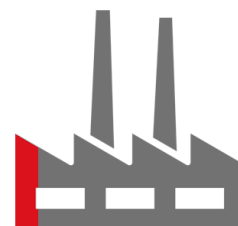
Urban environment

↓ 80%



Traffic impact

↓ 65%



Industrial environment

↓ 90%



Nightlife

↓ 99%

