





# **Objectives**



Measurement of Urban Noise Pollution: Location: Barcelona - Mar Bella Beach

- Utilize strategically placed the Smart Citizen to assess and record noise pollution levels in various coastal urban zones.
- Identify common sources of noise, such as vehicular traffic, industrial activity, and urban events, to comprehend their impact on the acoustic quality of the environment.
- Perception Range of Sea Sounds.



# **Questions**

- Does the rhythm of the waves change in the different beaches of Barcelona?
- Does the noise of the sea improve the quality of life of the citizens?
- Are the levels of noise pollution in Barcelona harmful to citizens?
- Does the frequencies of the waves resonate with the ones from the body?
- How does the prices differ from living near the sea than to live further away?
- How is living by the sea perceived as a currency?
- Can we hear the sound of the waves from 300m from the beach?

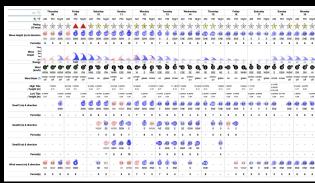
## Tool

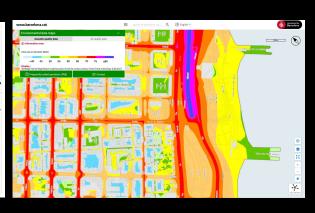




## **Data Resources**







**Skyline Webcams** 

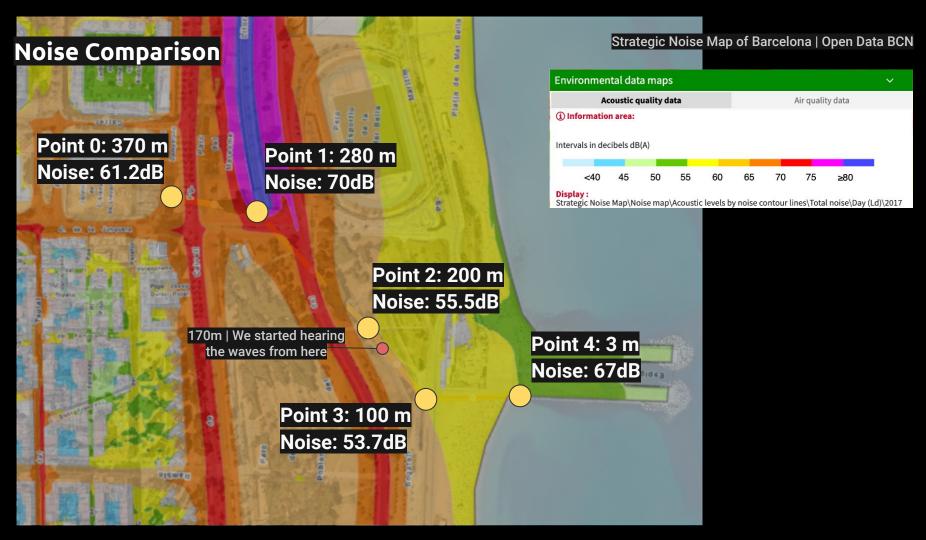
https://www.skylinewebcams.com/en/webcam/e spana/cataluna/barcelona/barcelona.html SurfForecast.com

https://www.surf-forecast.com/breaks/Barcelone ta/forecasts/latest/six\_day Open Data BCN

https://opendata-ajuntament.barcelona.cat/data/en/dataset/poblacio-exposada-mapa-estrategic-soroll











370 meters from the beach

### **Point One**

280 meters from the beach

#### **Point Two**

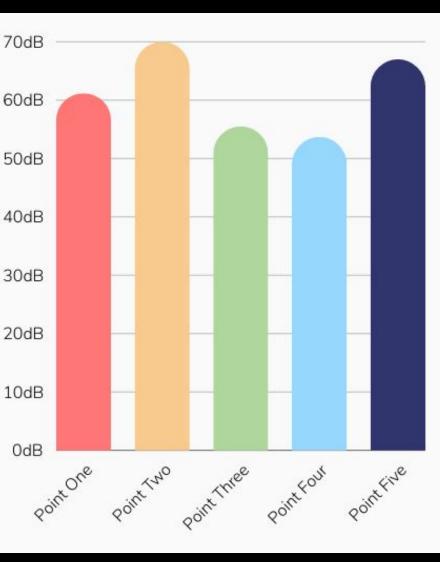
200 meters from the beach

### **Point Three**

100 meters from the beach

### **Point Four**

3 meters from the beach





Skiline Webcam at Mar Bella



