

SMART NOISE MONITORING

CONTROLLING NOISE, DETECTING IMPACTS & IDENTIFYING THE PROBLEM

As demand to improve urban quality of life continues to rise, projects are becoming the focus of increasingly restrictive constraints, and **noise pollution is becoming a major issue**.

Existing noise monitoring solutions trigger alerts only when thresholds are exceeded, but make no distinction between noise events produced on your worksite and those coming from the surrounding area: the only option is to **manually listen** to audio recordings or view images and videos recorded at the time of the event. A time-consuming process!

Novia listens to and automatically recognises noise events 24/7, allowing you to identify the cause of a noise threshold breach, manage your noise and detect problems.

Novia gives you:



A clear indication of your compliance in real time

The information provided by Novia is immediately beneficial to project management: "is the excess noise coming from my on-site activity or not?".



Fully automated sound recognition

You no longer have to investigate the origins of noise level violations, because **Novia does it for you**.



Greater transparency and accuracy

Towards **all stakeholders** (local residents, project owners and local authorities).



ARTIFICIAL INTELLIGENCE

THE HEART OF NOVIA

Machine learning technology allows Novia to automatically recognise sounds coming from the worksite or the wider urban area and process them in real time into twenty predefined or customised categories.



NOVIA KEY FEATURES



A single database of sound samples

Our database has been built using noise monitoring data measured on several major international projects and contains more than 15,000 labelled samples.



Easy-to-use data

A quick access, userfriendly online interface "Geoscope" that allows you to play back audio recordings.



Flexibility and adaptability

Novia works with standard (class 1 and 2) monitoring systems and can be activated whenever you think it can make a useful contribution to your project.



A dedicated virtual acoustician

You also benefit from having the added value of a virtual acoustician 100% dedicated to your project 24/7 at lower cost.





Roland-Garros stadium

Noise monitoring of the stadium redevelopment works as part of facilitating communication with stakeholders and justifying the option of night-time working.



Quay Street, Auckland, New Zealand

Automated differentiation between noise from quayside strengthening works and noise generated by road and sea traffic. Implementation of proactive management for events where thresholds are exceeded.



Boralex Wind Farm

Detection and analysis of specific noise events caused by the braking systems of wind turbines.



Noise compliance check

Measurements with automated sound recognition in the vicinity of an industrial facility in response to complaints from local residents.

Visit our website for more information on previous and current projects

www.sixense-group.com



Your challenges are unique, so are our solutions

At Sixense, we support our clients throughout the life cycle of their sites and infrastructure, during the design, construction, operations and dismantling phases.

Our activities are organised around 4 areas of expertise:



ENGINEERING

Specialised engineering to secure and optimise your operations



MONITORING

Instrumentation and monitoring solutions for soil, structures and the environment



PLATFORM SOLUTIONS

Business digital solutions to enhance infrastructure and their life cycle



MAPPING

Solutions for digitising the existing: acquisition and 3D reconstruction



