



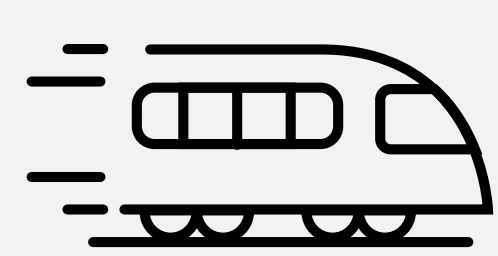
# SvanNET AI

Noise Sources  
Identification



SvanNET AI is a Svantek proprietary functionality for SvanNET Automatic Monitoring Services, an online solution that supports multi-point connection with SVANTEK's noise monitoring stations. The AI module enables automatic noise source recognition and classification by using artificial intelligence and machine learning. This AI system employs machine learning algorithms to analyse recorded audio data, accurately categorising sound sources into 26 distinct classes, such as industrial noise, traffic, and natural sounds.

## Benefits



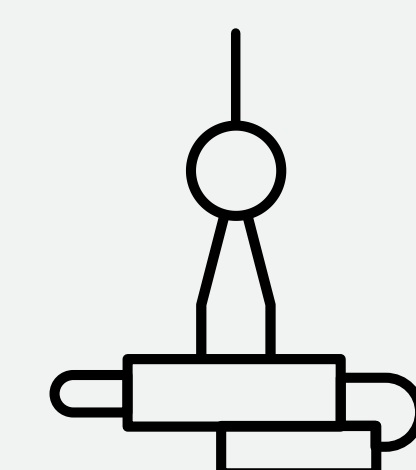
### Automatic Noise Source Classification

Provides accurate and automated identification of sound sources, allowing authorities and engineers to respond quickly and precisely to urban noise challenges.



### Real-Time Acoustic Event Analysis

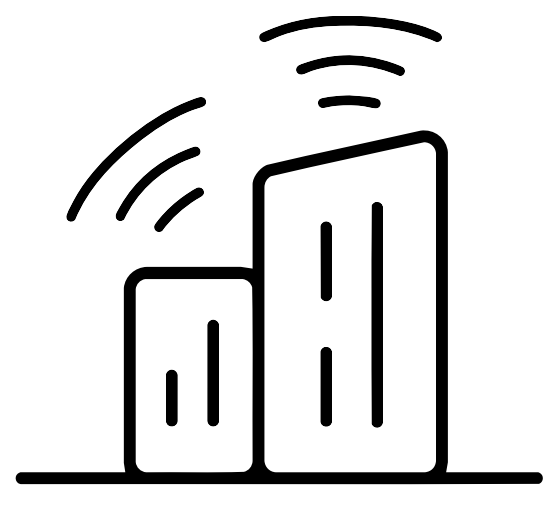
Eliminates the need for manual review of audio recordings, significantly reducing the time required for environmental noise assessments.



### Reports with Confidence Levels

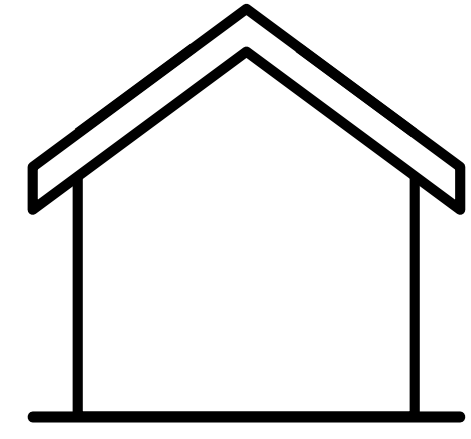
SvanNET AI is compatible with Svantek instruments equipped with audio recording functionality, including SV 307A, SV 200A, SV 258PRO, and the SV 27x series.

# Applications



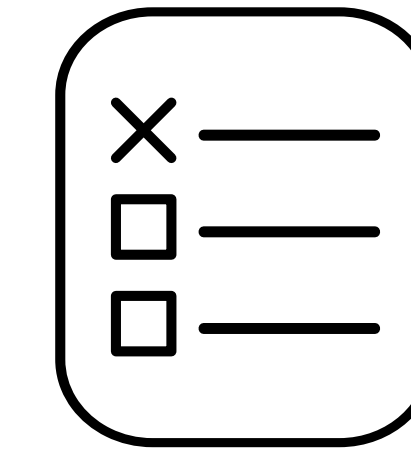
## Smart Cities and Urban Planning

Supports public authorities and city planners with real-time noise classification for better environmental policy-making.



## Construction and Infrastructure Monitoring

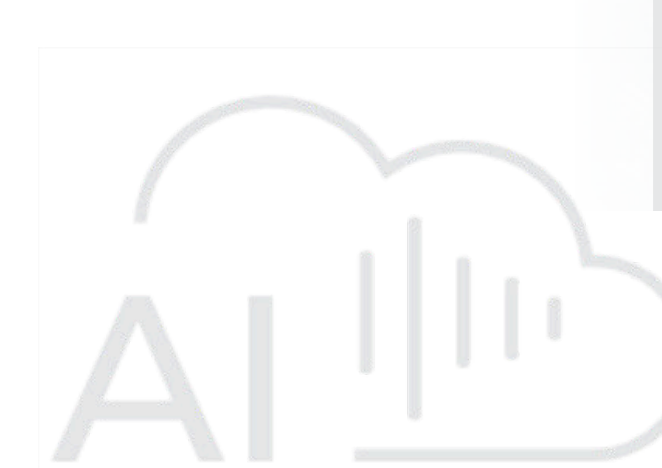
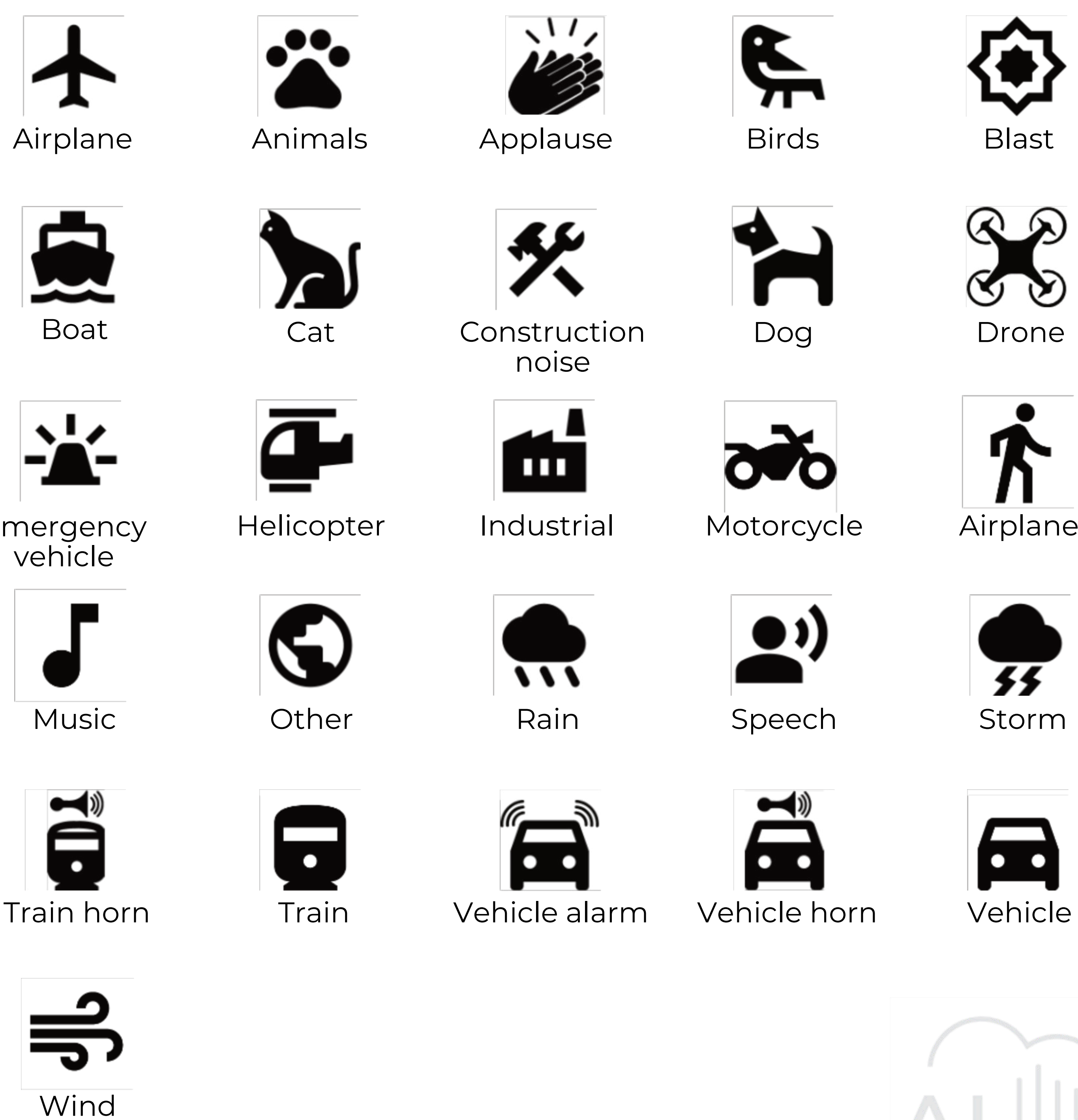
Enables automatic noise source tracking on construction sites and in surrounding areas.



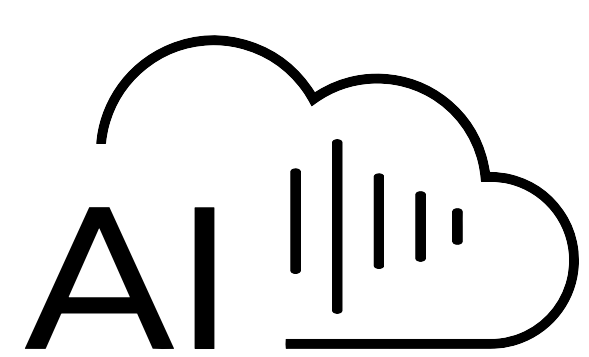
## Compliance and Reporting

Helps meet environmental regulations by delivering clear, data-backed insights into noise events.

## AI Noise Sources Identification: 26 Noise Classes

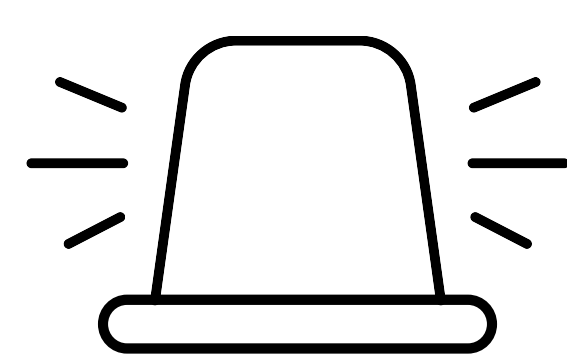


# Key Features



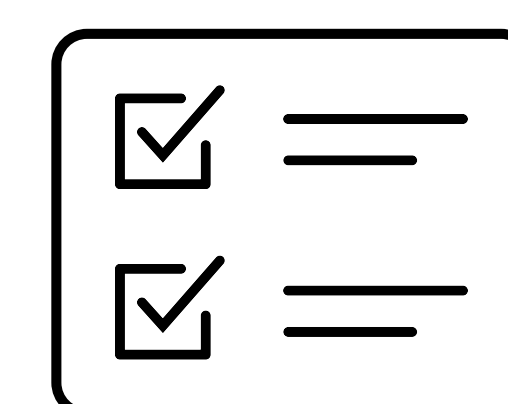
## Automatic Noise Source Classification

Utilises AI to identify and categorise sound sources into 26 classes, including road traffic, construction, industrial activities, vehicle noises, human voices, and warning signals.



## Real-Time Acoustic Event Analysis

Processes event-triggered audio recordings (WAV files), classifying each audio event automatically and providing rapid insights into the type of sound detected.



## Reports with Confidence Levels

Generates automated reports that include classification results and confidence levels, supporting fast and informed noise management decisions.

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See how it works!

Watch the video presenting SvanNET AI's functionality:

