acuvate
... where Acumen drives Innovation

Tune Out the Noise and Improve Citizen Well-being with Acuvate's Anois

An AI-enabled Noise Offense Identification Solution (Anois)
for reducing noise pollution & improving citizen's lives

Noise pollution is killing our health and well-being. Increasing vehicular traffic and illegal vehicle muffler modifications create noise levels exceeding the standard limitation of 70 dBA. It affects the lives of millions of people worldwide, especially in urban centers.

Road traffic noise remains a human and environmental hazard. It is a significant contributor to sleep disturbance, irritability, deteriorating cardiovascular health, hearing loss, and hypertension, among other challenges.

- **20%** of Europe's population is exposed to noise levels negatively affecting their health
- **22 million** European residents have high chronic annoyance due to excessive noise levels
- According to Dangerous Decibels, **10 out of 40** million hearing loss cases in the US are noise-related
- According to **WHO**, noise is the second largest environmental cause of health concerns

The writing is on the wall. Sprawling urbanization and increasing demands for mobility will only add to din unless SLG organizations wake up to this pressing citizen issue.

Identify excessive vehicular noise. Spot vehicles exceeding permitted decibels. Ensure prompt action by law enforcement agencies. Protect citizen well-being – All with Anois.

It merges the collective power AI & ML, IoT, data & analytics, cognitive search, and Acuvate's development proficiency & expertise.

Public Sector organizations can now deploy highly-customizable and secure noise detection and prevention applications and integrate them with external LOB systems without a hitch.

Anois - an intelligent, intuitive, and sustainable solution - paves the way for high-quality citizen lives and improved physical and mental health.
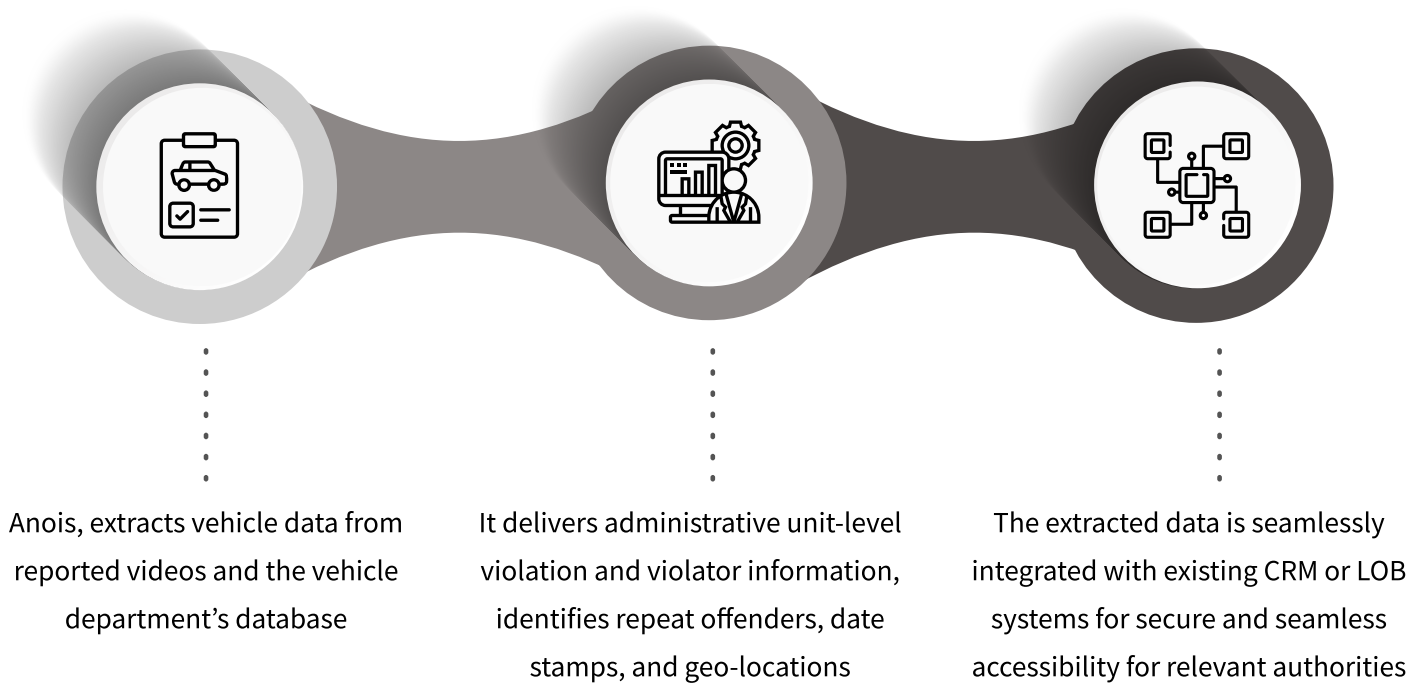

Video Analysis Based Air & Noise Pollution Monitoring (Muffler)
Smart And Sustainable Transportation Solutions

Watch Video

The Behind-the-Scenes of Anois Empowering SLG Organizations

Noise pollution is killing our health and well-being. Increasing vehicular traffic and illegal vehicle muffler modifications create noise levels exceeding the standard limitation of 70 dBA. It affects the lives of millions of people worldwide, especially in urban centers.

Anois, extracts vehicle data from reported videos and the vehicle department's database

It delivers administrative unit-level violation and violator information, identifies repeat offenders, date stamps, and geo-locations

The extracted data is seamlessly integrated with existing CRM or LOB systems for secure and seamless accessibility for relevant authorities

Anois makes traffic noise reduction and citizen well-being possible and efficient.

Anois: A One-Stop Solution To Cover All Your Noise Pollution Needs

- Identification of vehicles breaking local laws for noise pollution
- Extraction of vehicle information from centralized vehicle database
- Ticket generation for verification and penalties
- Customizable ML rules to adapt to regulatory changes

All of this, in near real-time. Protecting citizen well-being was never this easy.

What You Stand To Gain With Anois Implementation in Your Territory

Streamline the identification-to-penalization workflow. Detect vehicles violating noise pollution standards in the blink of an eye. Achieve evidence-based complaint recording and instant redressal. Assist city administrators in penalizing miscreants, boost fine revenues, and review each incident for muffler or non-muffler interferences hassle-free.

- Potential revenue gains between **~ 12M – 30M**
- Overall cost saving **~ 6M by saving 400 person-days/year** on video evidence reviews
- Instant identification and analysis of noise-polluting vehicles with **Intelligent Cognitive Tool**
- Clear visuals of the sound source **automatically tracked**
- Video analysis in **less than 3 minutes with AI-ML algorithms** replacing manual efforts
- **Quicker resolution** of pollution complaints and violations
- **Smooth integration** with CRM and external LOB systems
- **Real-time dashboard and analytics** for instant updates and access to critical operational information
- **Always-on and automated validation**, checking, and action on breaches

A public entity of a leading metropolitan witnessed a 12x cost savings per violation, increased fine revenue by USD 60 million, and reduced analysis time from 30 minutes to 3 minutes.

Read Case Study

Why Choose Anois for Reduced Vehicular Noise Pollution

Anois is the labor of love of the Acuvate, built with a single-minded agenda: making your city's noise pollution enforcement practices smarter.

Over the last decade and a half, Acuvate has been recognized for bringing cutting-edge technology interventions and partner networks to build SLG solutions. This ecosystem approach has solved real-world problems facing the world's largest, most modern cities. US and Europe's leading SLG bodies have been the beneficiaries of Anois' capabilities specifically and Acuvate's public sector expertise at large to streamline validation and review processes and keep repeat offenders under check.

Overcome noise-related hazards with razor-sharp AI & ML, cognitive search, and IoT interventions. All of this with a frictionless user experience for your office and field teams.

Your citizen's health and well-being are in your hands. Take your first step towards safeguarding them.

Connect with our experts to find out how.