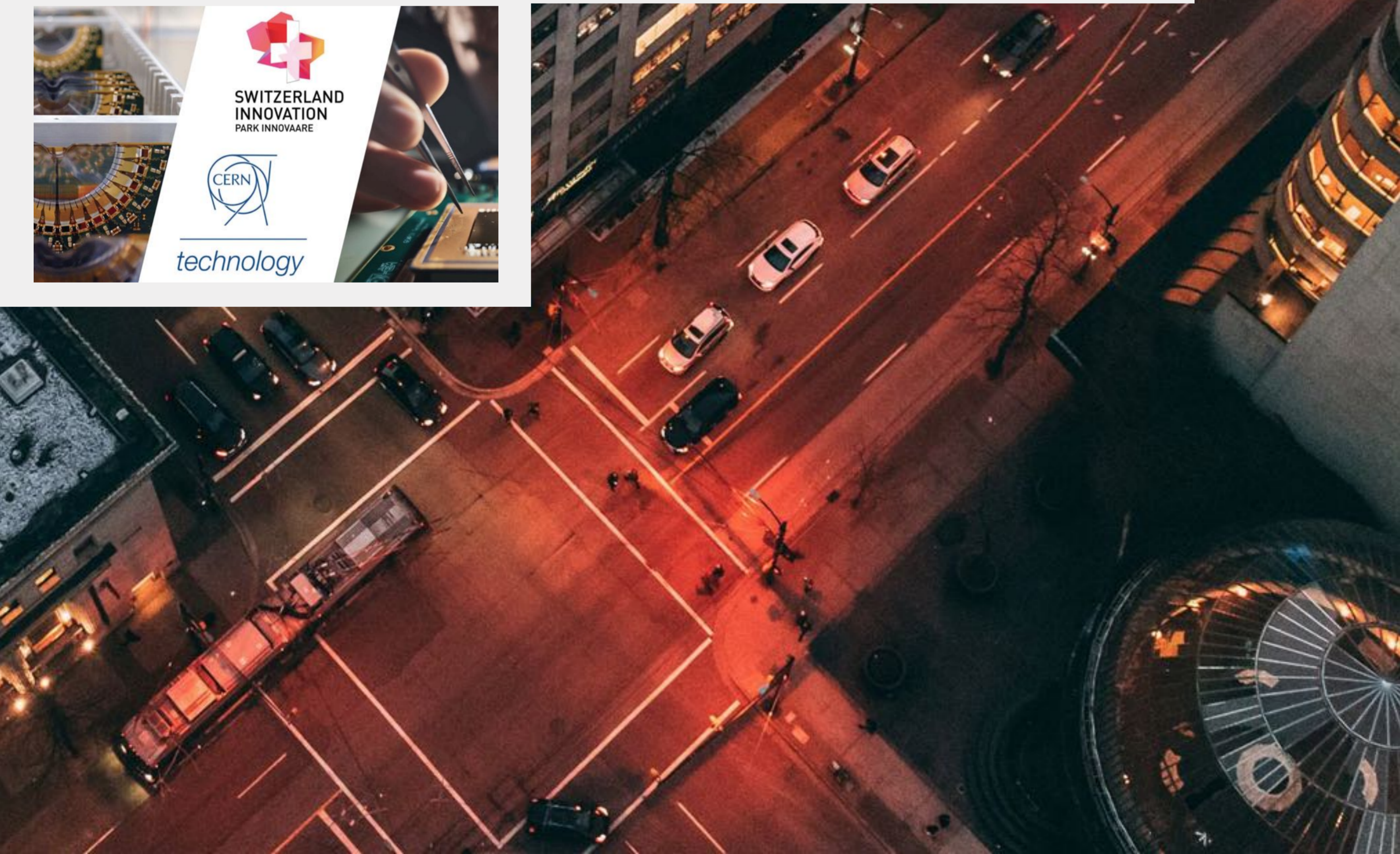




# SECURAXIS

Real Time Analysis, Reporting and Localization  
with Acoustic Sensors.





Real-time analysis, reporting, and localization with acoustic sensors make Securaxis' RTEXD an ideal solution for infrastructure monitoring for highways, bridges, tunnels, dams, pipes, wind turbines and more; or use it for traffic management or smart city safety.



Securaxis' acoustic sensors add the missing component to existing intelligent solutions: sound monitoring.

The Securaxis Real-Time Event Detector (RTEXD) is a smart acoustic sensor connected to a wireless network that can analyze sounds in an urban or noisy environment and then classify, locate, and report them accurately.

Acoustic event detection technology opens up many areas of application. The RTEXD information model is based on a data monitoring and acquisition (SCADA) system developed at CERN, designed to archive information and provide data visualization, alarms, and other functions.





## TRAFFIC MANAGEMENT

Our methodology combines the analysis of acoustic signals emitted by vehicles with artificial intelligence.

RTExD is a much cheaper solution and easier to implement than video cameras. RTExD can be easily implemented with any system, new or existing, because hybridization with other IoT sensors, such as air quality sensors, is the future of efficient smart cities.

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## CRITICAL INFRASTRUCTURE MONITORING

RTExD sensors placed on and integrated into infrastructure such as tunnels, bridges, roads, and dams can be used to monitor their health by capturing the sounds emitted when material failures occur. Acoustic sensors detect and locate failures before an infrastructure breakdown.

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## SMART SAFETY for SMART CITY

Securaxis Intelligent Acoustic Sensors are the ideal solution for citizen safety because they respect privacy as no sound is recorded and stored.

A multifunction sensor capable of detecting and analyzing all types of sounds such as car accidents, explosions, gunshots and blasts from other types of weapons, or roaring crowds, RTExD is perfect for safety and security. The sensor will help authorities (police, traffic authorities, fire departments) to overcome daily challenges by quickly sending warning signals.

RTExD is designed to be integrated into environments where video camera installations are not suitable for technical or privacy reasons, or it can also be combined with cameras.

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The Securaxis solution can easily be applied as a stand-alone system or integrated into any new or existing system, hybridization being the next step for IoT sensors.

According to "Sensors for IoT" (BCC Research, Sep. 18), "A new technology shaped by new requirements for IoT applications will create new product categories or give new life to existing products through adaptations...These new requirements include user privacy protection...Techniques such as hybridization will come into play to drive advances."

Securaxis is a Geneva startup developing human security solutions by leveraging new technologies in AI and IoT.

Securaxis' end-to-end solutions cover the entire value-creation chain of its customers, from components and design to the installation and operation of systems, all from a single source.

The core business comprises the development, installation, and operation of Securaxis systems.

