

Public sound sensor safety project ICT | Eindhoven, NL



Photo source: Municipality of Eindhoven

Sound sensors in the public space that are attached to the smart light poles enabled to detect specific sounds such as gunshots, car alarms and screams. The sensor is able to find out the exact position of a sound source. Safety features are enabled without continuously perceived intrusive monitoring via cameras. The neighbourhood watch receives access to relevant safety information via an app.




Lessons learned

- Safety issues are less pressing in the area and therefore the push towards implementation lower
- Interaction with other systems should be taken into account early. Getting the app accepted takes more time than expected
- Sensors work very well in combination with video surveillance systems to add additional information to the case

Challenges

Tuning of the sensor needs to be specific to the surrounding and is therefore time-consuming. Combination of sensing and acting via the smart lights is not trivial.

Supporting factors


-  Fibre optic infrastructure
infrastructural
-  In the early stages of the district development safety has been a concern
social
-  VolkerWessels
partners


Measured Impacts

7 smart lampposts
20 directly involved citizens

Benefits

- Improving personnel efficiency
- Improving life quality
- Increasing safety
- Customized sound analytics

 project scale **District level**

 development type **Technological development**

Contacts

VolkerWessels
Thijs van Dieren
tvdieren@volkerwessels.com