Quies4Fire

1. To test an algorithm to predict, from the sound spectrum, the event that provoked that specific noise
2. To test our noise mapping algorithm with sound pressure level (SPL) data collected in Santander

1. Virtual Wall and Tengu testbed allowed us to test the automatic setup and deployment of a big data analysis
2. Santander's testbed gave us the chance to test our noise mapping algorithm with a huge set of data

RESULTS

1. We tested an algorithm able to predict events, depending on the specific sound spectrum.
2. We tested a mapping algorithm to design the sound map, using Santander big data related to SPL (Sound Pressure Level) data.

FOLLOW UP

Experimenting these algorithms gave us the chance to be aware of potential and limits of this technology for next exploitation.
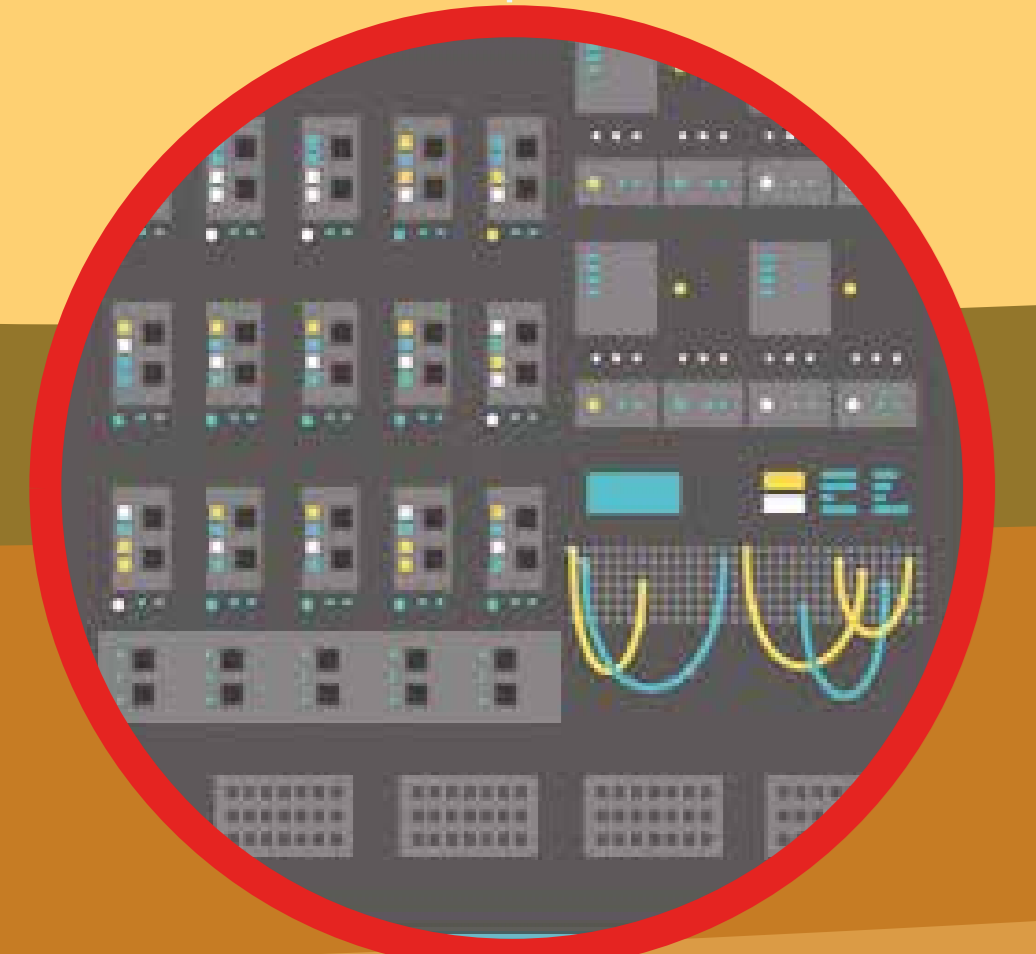
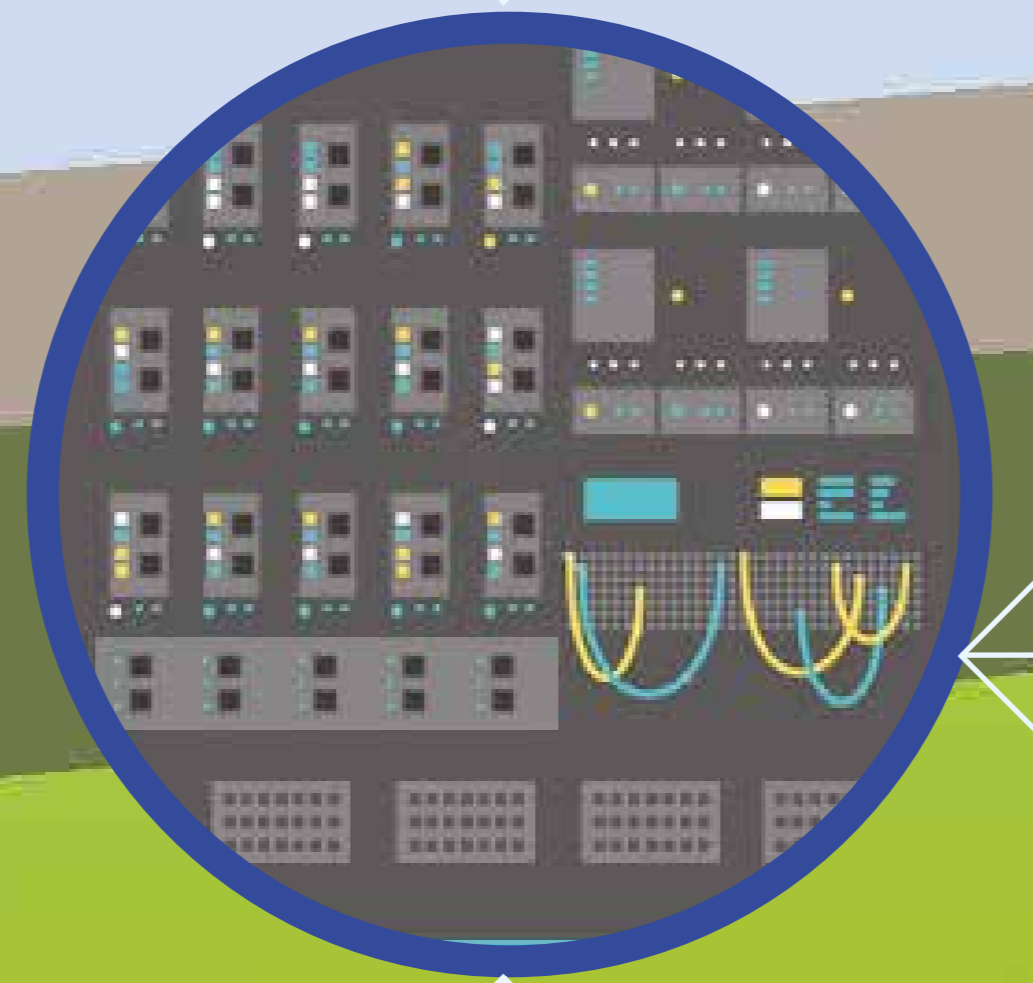SANTANDER MAP

FED4FIRE
• VIRTUAL WALL

API SANTANDER

ACOUSTIC SENSOR

FED4FIRE
• VIRTUAL WALL
• TENGU

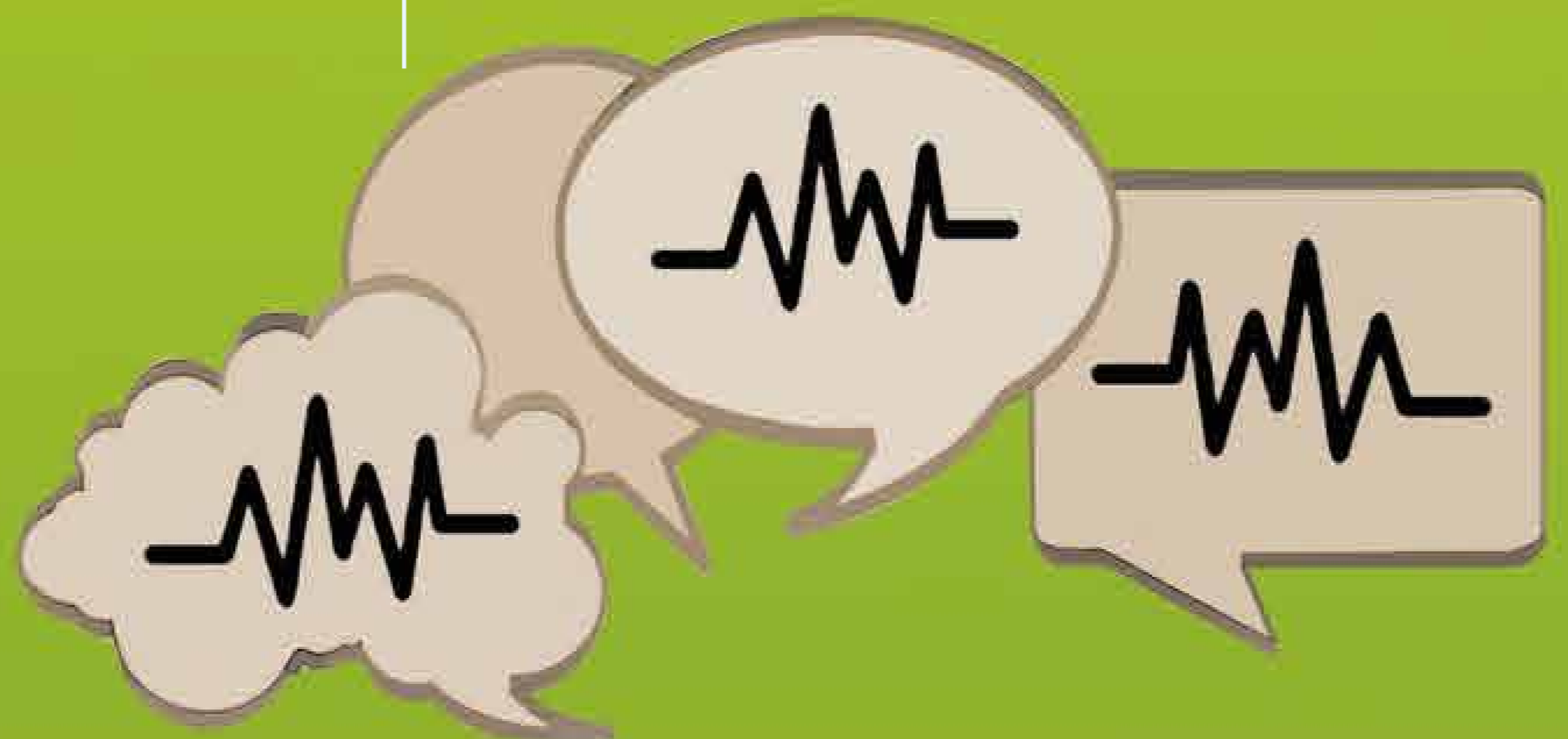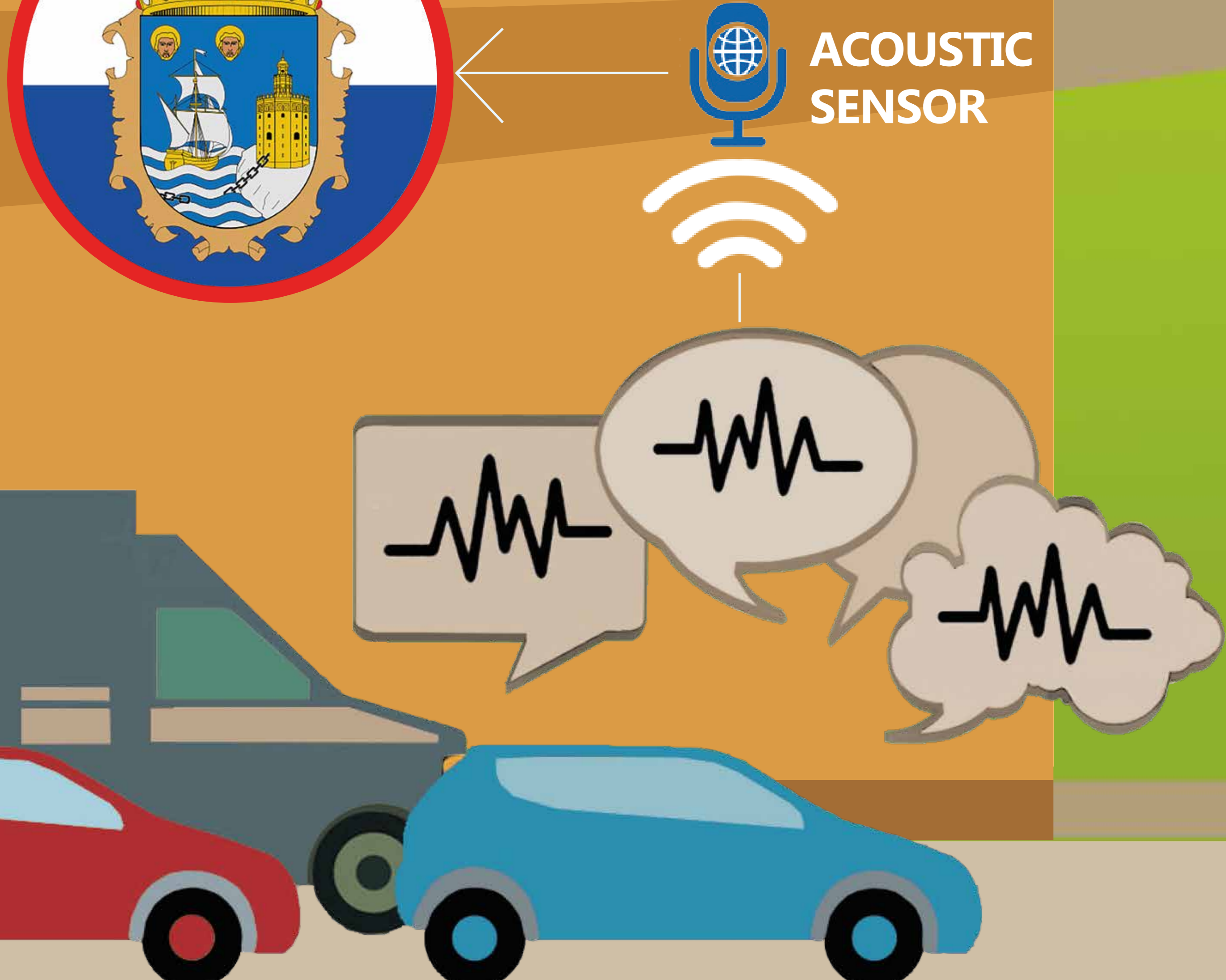SOUND RECOGNICTION ALGORITHM

WPWEB DATA CENTER

ACOUSTIC SENSOR

ACOUSTIC SENSOR

ACOUSTIC SENSOR