Remote and Real-Time Monitoring of the Urban Noise Environment

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Outline

Introduction & case study

Motivate acoustic sensing

Talk about SONYC project

Technology background

Talk about LoRaWAN and its relevance to the project

Project goals

Talk about desired sensor unit capabilities

Talk about in-network processing and trying to push LoRaWAN to the edge

Acoustic sensing basics

Explain how acoustic sensing works. High-level, just what's necessary to understand the next points:

Talk about noise monitoring standards (Class 2 sensors)

Talk about how "far away" a microphone can sense

Current project status

Where are we at?

Briefly discuss/motivate hardware choices

Show-and-tell with hardware we bring to the meeting

Questions/feedback

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