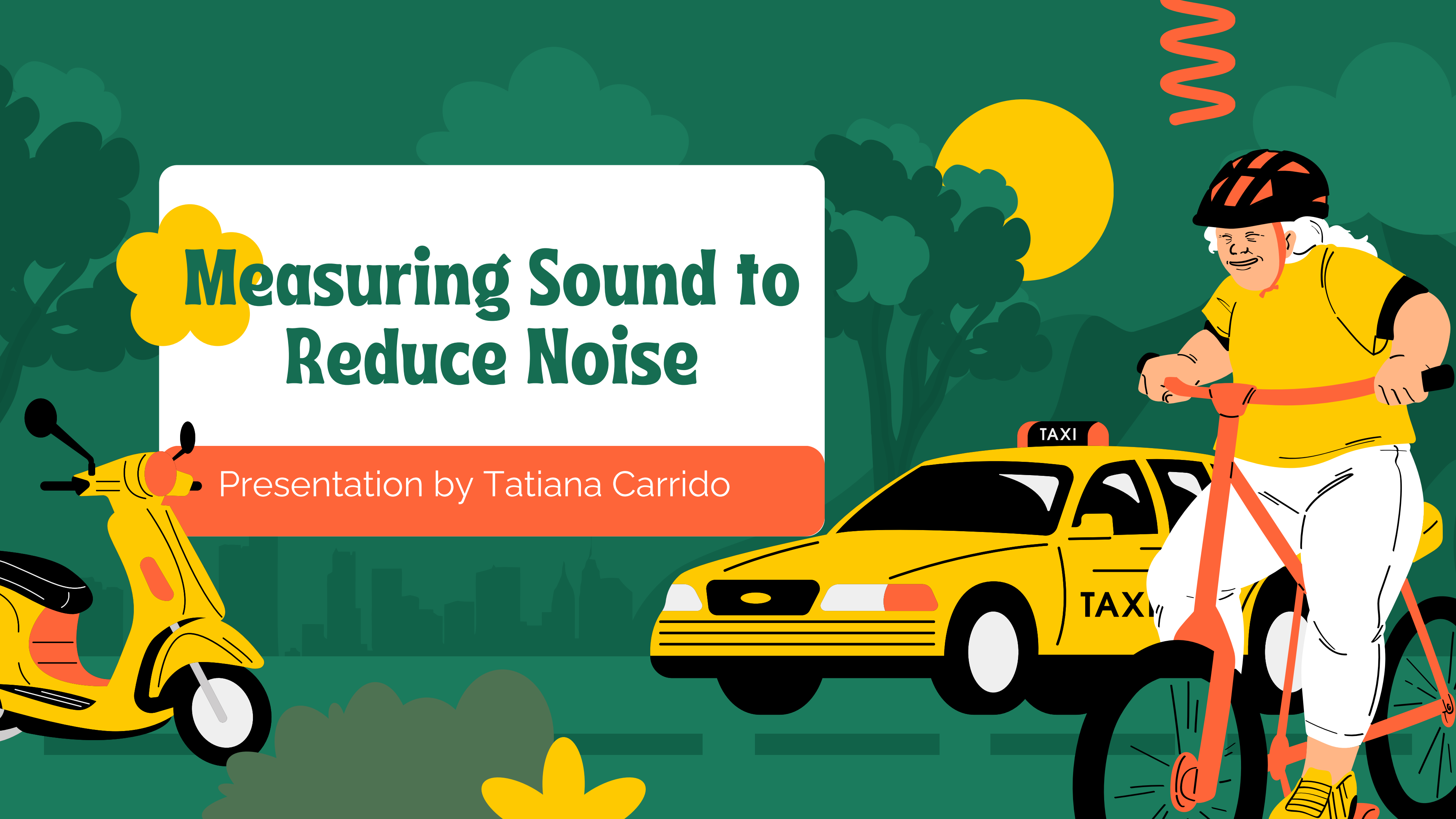


Measuring Sound to Reduce Noise

Presentation by Tatiana Carrido



WHEN DOES SOUND BECOME NOISE?



01.

NOISE INACTION

The Noise Control
Act of 1972

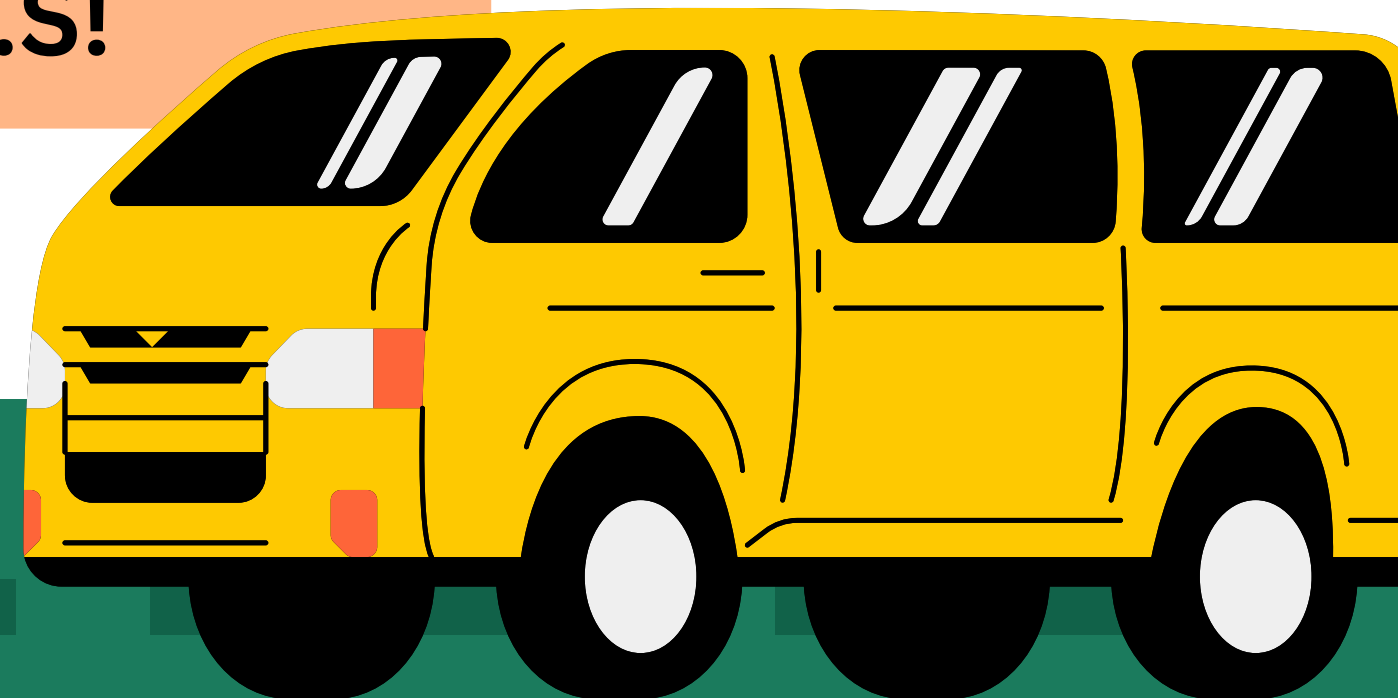


Quiet
Communities
Act of 1978



Defunded
in 1982

Almost 50 years of inaction to reduce
noise pollution in the U.S!



02.

WHAT WE DID

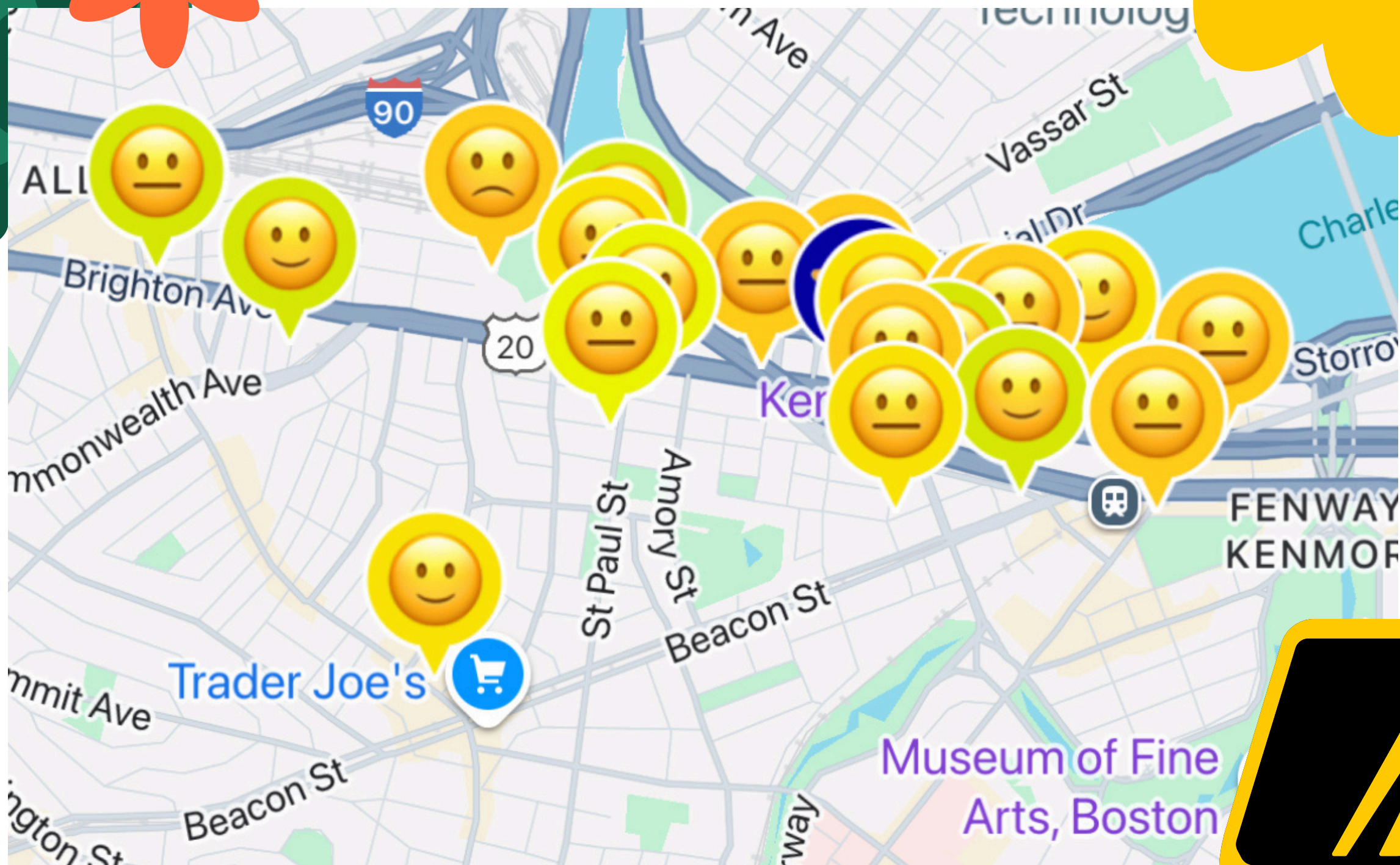
Fifteen students participated in a two-part study involving the use of sound recording apps:

NIOSH SLM & Noise Project.



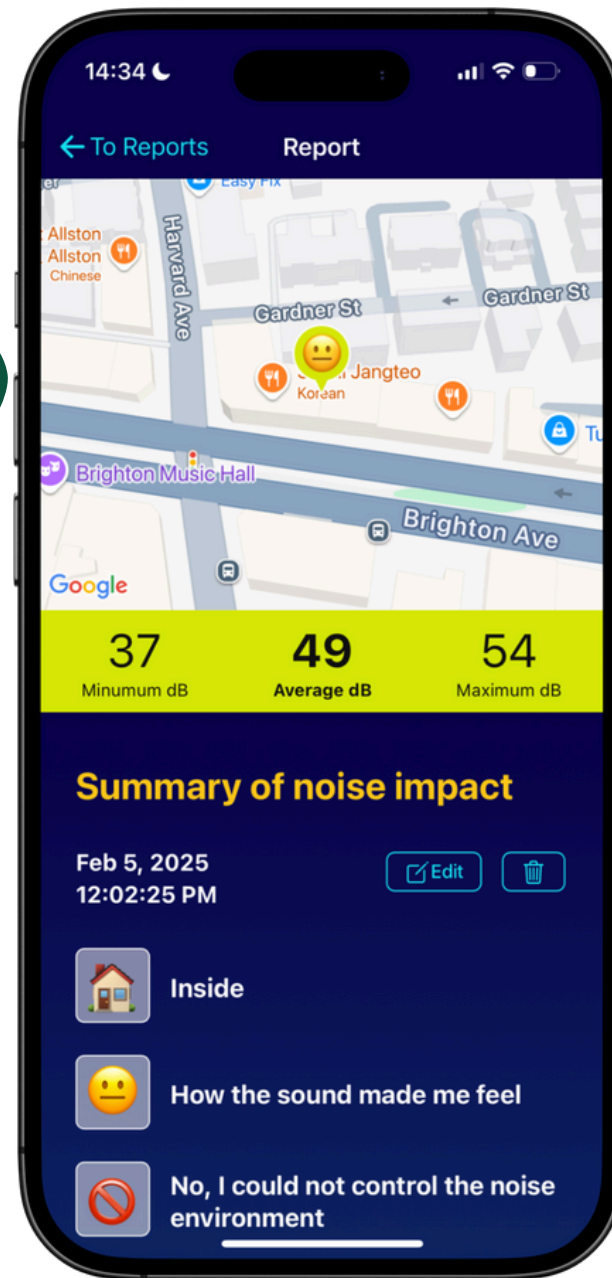
03.

OUR MAP

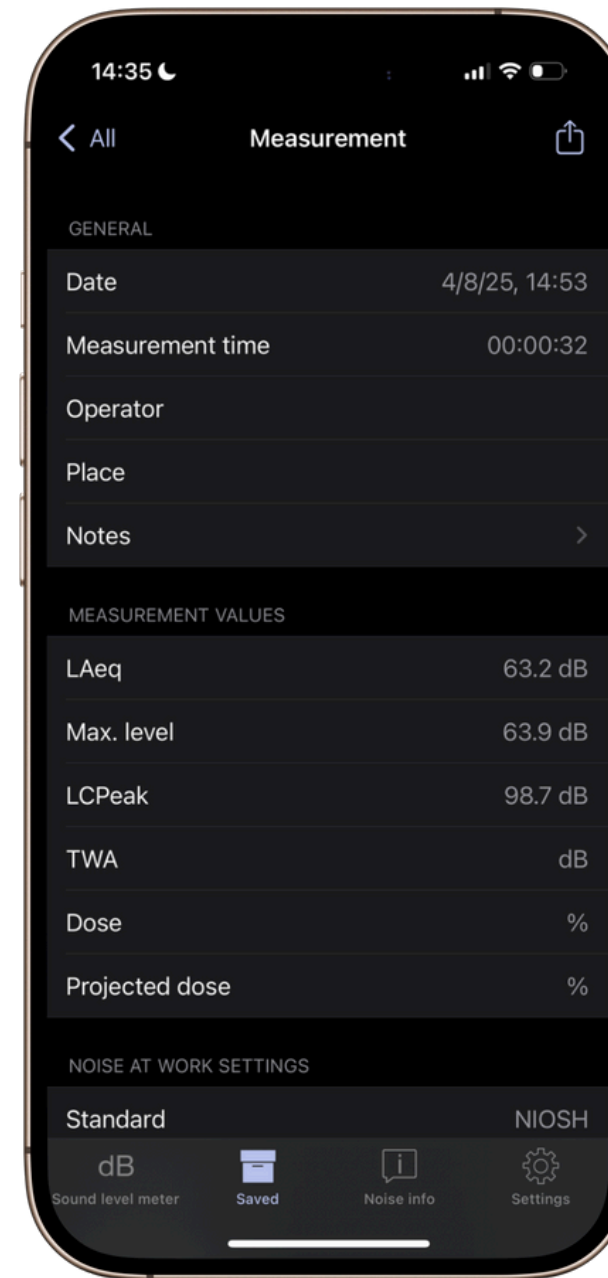


3.1

SAMPLE MEASUREMENTS



Noise Project



NIOSH SLM





04.

KEY THEMES

Intuitiveness

- User-friendly features
- Live sound meters
- Guided recordings
- Automatically saves to device

Information

- Irreversible hearing damage from sustained exposure to loud noise
- Sound perception and well-being

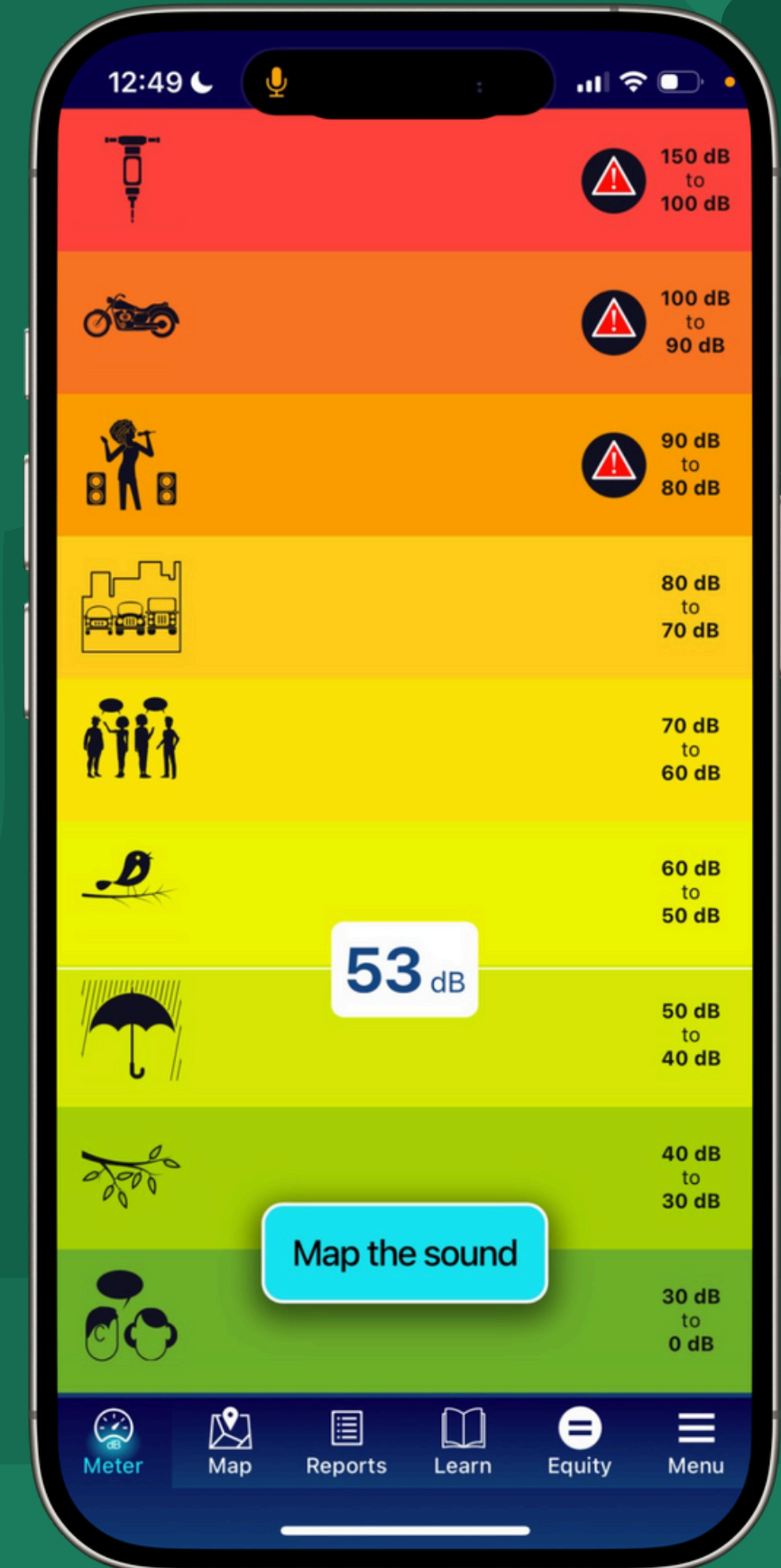
Introspection

- Pleasant sounds vs. noise and how we cope (headphones)
- Encourage changes in behavior

4.1

INTUITIVENESS

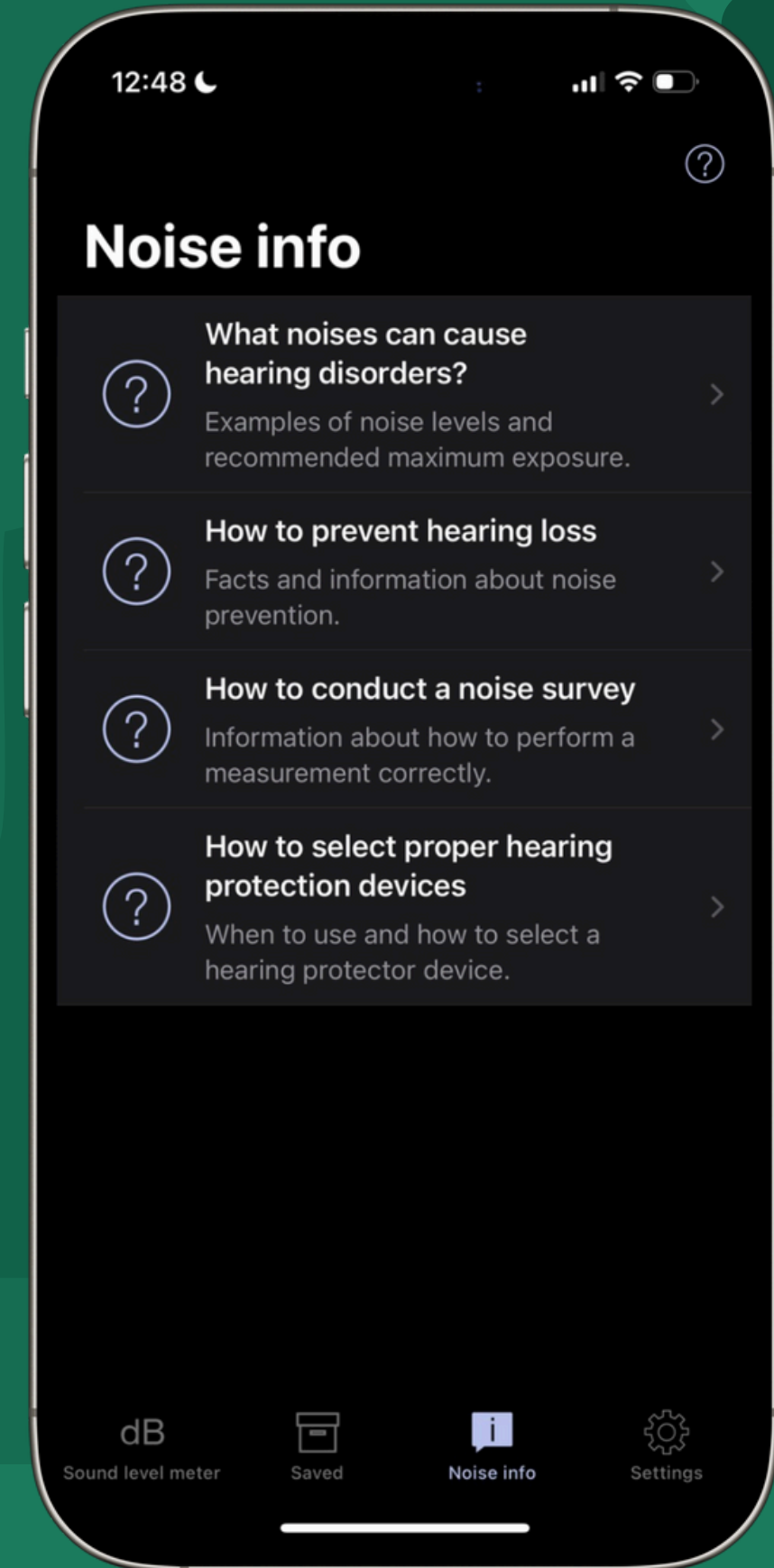
Noise Project has more user-friendly features than NIOSH SLM, including meters that **compare live sound to similar sources**. It also **guides users** when making recordings (e.g., recording length) and **saves to device automatically**.



4.2

INFORMATION

NIOSH focus on the **long-term effects** of sustained noise exposure, **specifically with hearing**. **Noise Project** promotes a reevaluation of the user's **relationship with sound** and how it relates to **well-being**.



4.3

INTROSPECTION

We often use technology and even **added sound to cope with noise** (noise-cancelling headphones). Such equipment has its own set of risks and **affects the way we connect with others and the world.**

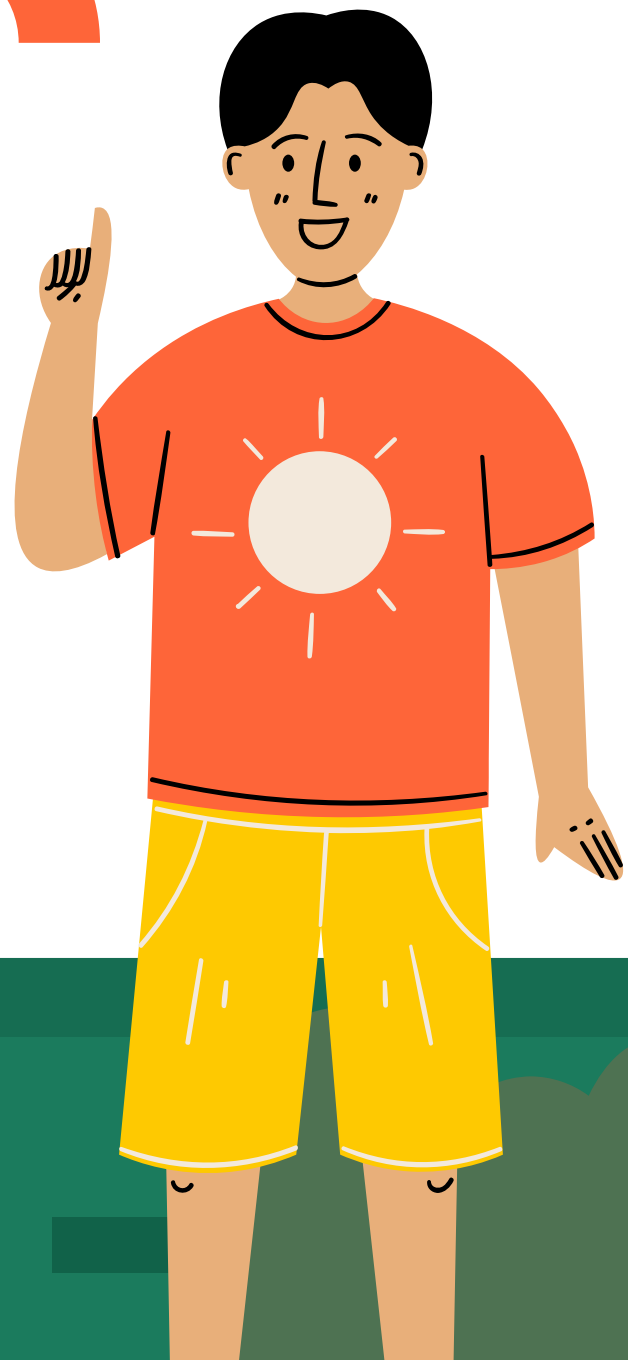


Passengers including Brandon Long (right) on his cell phone while going to work on a Muni train stopping at Powell Street station in San Francisco, California, on Friday, October 4, 2013. Liz Hafalia/The Chronicle

05.

IMPACT

Leveraging community participation and facilitating discussions lead to **validation, empowerment, and documentation**. We are not alone in our experience, and **there is a way to move forward**.

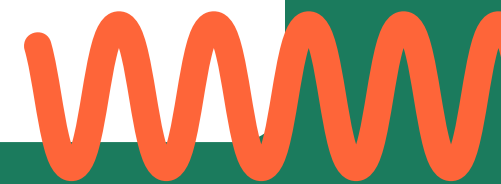


06.

RESOURCES



***IOS devices only*





THANK
YOU