

Sidewalk Condition Mapping

Service Fact Sheet

Overview

We specialize in mapping the condition of sidewalk infrastructure. Cities use our maps to:

- 1. Streamline their assessment process*
- 2. Prioritize repairs based on actual need*
- 3. Stretch their maintenance dollars to be more impactful*

The result is greater sidewalks without greater spending.

Organic 🌱 Navigation



Methodology

Our mapping is done using a customized wheelchair equipped with advanced motion sensors. With it, we measure the sidewalk condition as experienced by a rolling user as well as other sidewalk condition metrics. Data is collected by pushing the wheelchair through a neighborhood, and processed into sidewalk condition maps using software.

Why a Wheelchair?

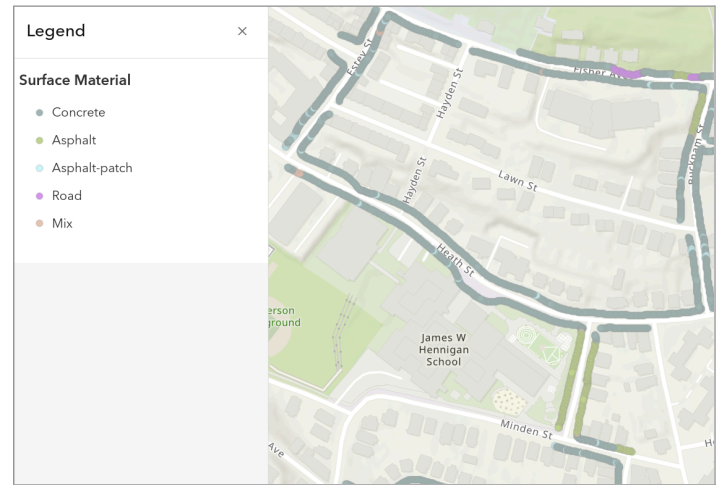
Simultaneously mapping and using a path brings a level of insight which can be missed if the assessment or mapping is done otherwise. We've designed our mapping technology to maintain both feet and wheels on the sidewalk and leverage advanced software algorithms to efficiently process that data.

Map Layers

The GIS map layers are customizable and can include:

- Surface Material Classification
- Bump or Trip Hazards Experienced
- Slope Experienced (Forward, Cross)
- Rolling Quality Experienced
- Surface Rating

As well as a **Summarizing Sidewalk Condition Index** which captures multiple factors and provides a single condition metric for each stretch of sidewalk.



Comments from Residents


“This is a neat piece of technology. I love it. It’s a great way to keep accessibility in mind. I’m glad I saw this.”

“Can I take a picture? This is so cool!”

Contact

This service is built on our core technical expertise in sensing, location, and sensor fusion technology.

Organic Navigation is a technology services company founded in 2016 and based in Minnesota.

 (612) 208 3413

 team@organicnavigation.com

Organic  Navigation