August 31, 2020
ACCESSPATH DATA README

ACCESSPATH DATA

AccessPath is a pedestrian wayfinding app tailored towards wheelchair users and people with visual impairments. Typical pedestrian wayfinding apps do not use the sidewalk network to provide navigation, nor do they know the quality of the routes that they direct their users. In addition, these apps are not user-friendly for people with disabilities AccessPath considers the pathway network, quality of routes, and user settings when suggesting pedestrian routes to travel.

Primary Features:

1) **Set A New Path**: *Set A New Path* provides real-time step-by-step directions from the user's current location to a destination. AccessPath directions are based on the pedestrian network of sidewalks and crosswalks, and considers the user's custom Comfort Settings described below.
2) **Comfort and Alert Settings**: *Comfort and Alert Settings* is a settings menu that allows users to specify which sidewalk attributes they prefer to travel or avoid and their level of comfort doing so. Users can set their comfort settings for the following pathway attributes: tripping hazards, roughness, running slope, cross slope, and width.
3) **Reports:** Users can submit *Reports* regarding potential hazards along pathways. These reports can be used to alert users of potential hazards visually, audibly, and haptically. When submitting reports, users submit an image, location, and type of report. Hazard types include tripping hazards, construction, curb ramps, and other.

The data in these files is implemented into the AccessPath app for pedestrian navigation. pathMet was used to collect sidewalk data in Pittsburgh and Washington, D.C. pathMet is a manually propelled device that collects data about sidewalk tripping hazards, roughness, running slope, and cross slope.

LICENSE INFORMATION

This data is licensed under the Creative Commons 1.0 Universal (CC0 1.0) license, which can be accessed at: https://creativecommons.org/publicdomain/zero/1.0/

RELEASE NOTES

GIS software required to use data

Files included:

Pittsburgh, PA: Shapefile and .xlsx of 60+ miles of sidewalk centerlines with pathMet data, curb ramp locations, and transit locations

Portland, OR: Shapefile and .xlsx of 50+ miles of sidewalk centerlines and curb ramp locations

Washington, D.C.: Shapefile and .xlsx of 50+ miles of sidewalk centerlines with pathMet data, curb ramp locations, and transit locations

.xlsx contains data and legend/schema with field names and descriptions

SUPPORT CONTACT:

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