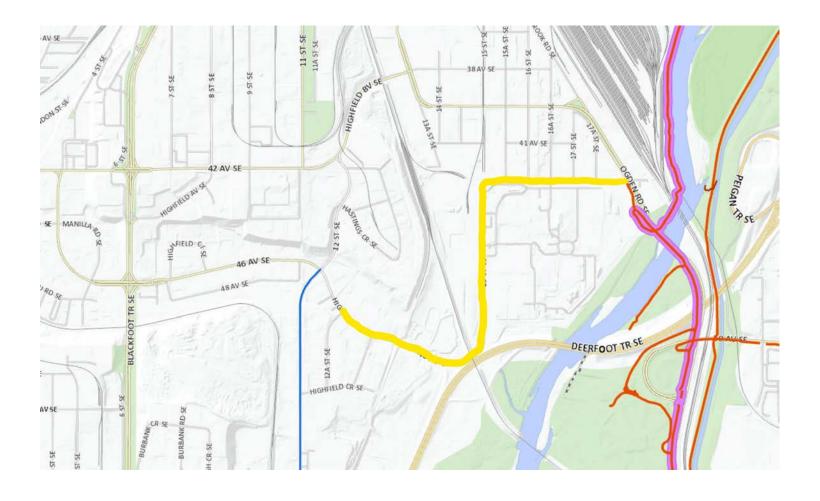




Team: Karly Ross | Cyrus Topflight | Ed





"The city's poor pedestrian infrastructure has driven newcomers to believe they need a car to become full-fledged Calgarians, research suggests." (The Star, Calgary)

Hypotheses About Mental Models

Mental map for walking | Maps where one can't go

Mental map for accessibility | Maps where one can't go

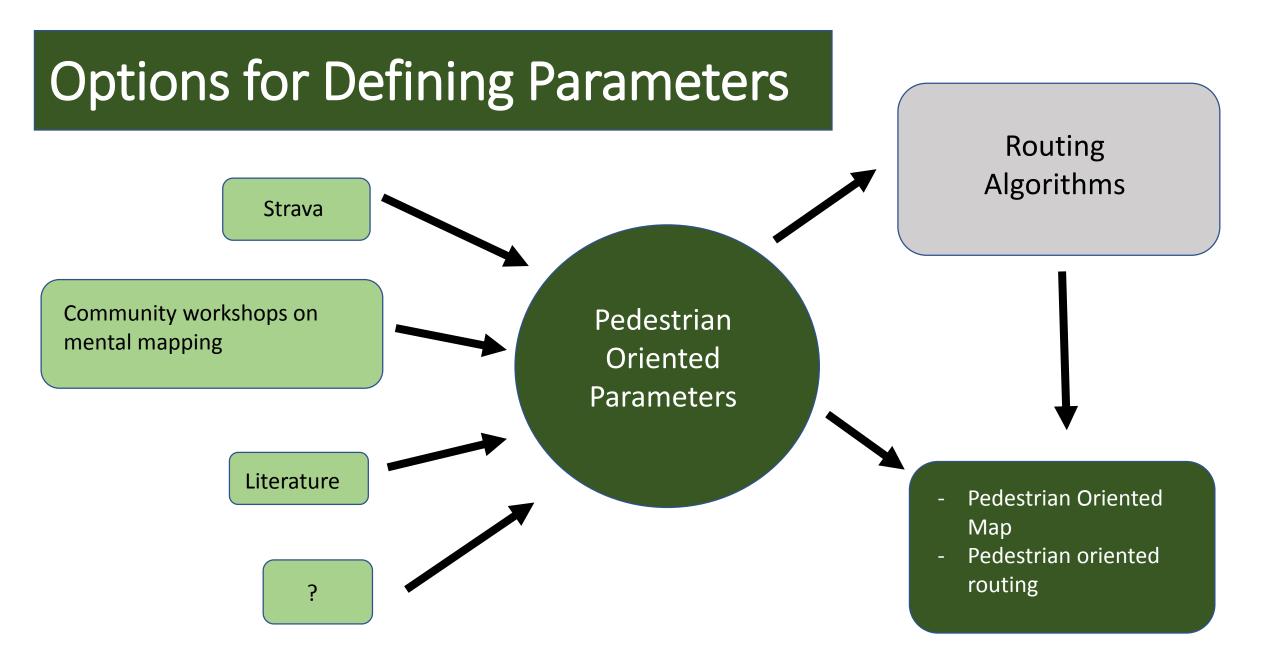
Mental map for driving | Maps where you can go

Hypotheses About Data Use and Implementation

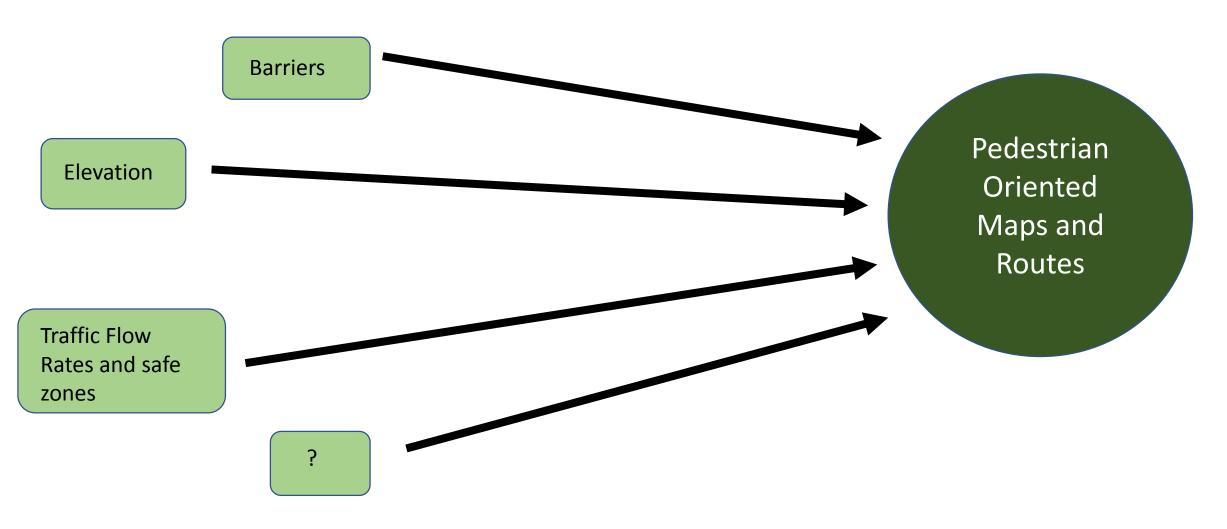
Data Collection is based on car usage

Defining pedestrian route by barriers and no go zones

The algorithms are effective, the parameters input are not



Hypothesized Parameters



Pedestrian Routing The Paths We Walk

Do you like to walk to your destination instead of driving?

According to Mayo Health Clinic, walking has many health benefits which include:

- Keeping a healthy weight
- Improving your mood
- Preventing or managing conditions like heart disease
- Strengthening bones and muscles

But mapping algorithms for Google Maps typically work best for cars. Calgary has datasets that could improve pedestrian routing!

ROUTING

Park Barriers, Park Planting Beds, Plus 15, Land Usage, Rail Tracks, Current Traffic Incidents and Construction

6 Datasets

that are currently available.

SAFETY

Traffic Volumes for 2017, Traffic
Incidents Heat Map, Pedestrian Motor
Vehicle Collisions Map

4 Datasets

that can improve pedestrian routing.



FUTURE

Sidewalk Availability, Alleyways, City Barriers, Underground Rivers, Pathway Usage

5 Datasets

that could help improve pedestrian routing.

BROCHURES

Based on pathway usage, local communities can create personalized walking brochures!

Let's remember that not everyone is tech savvy.

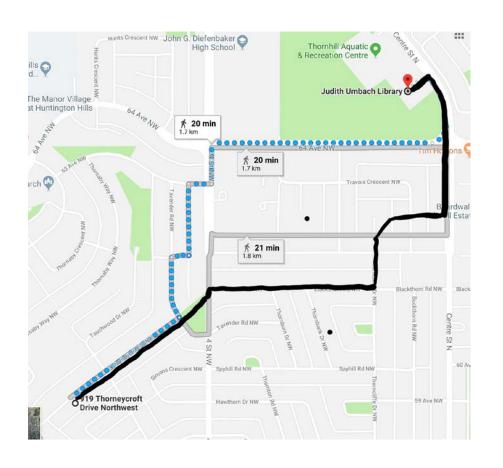
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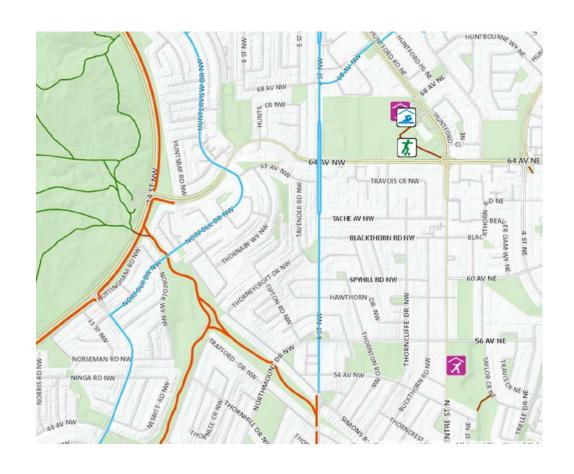
http://data.calgary.ca

inttps://www.invavorinidum.c.24, 2018



Mapping Outcomes





Google maps Route with Actual Route in Black

City of Calgary Pathways Route Does not correspond with actual route in yellow