

advanced case studies in digital open government

OUR SPEAKERS



Christine Symington (@ChristineSyming)
Energy Director, Sustainable Princeton

Tweet at us!



Anna Lukasiak (@adlukasiak)
Director of Development, Open Data Science



Cassidy Boulan (@DVRPC)
Transportation Planner, Delaware Valley Regional Planning
Commission



Randall Solomon (@randallsolomon)
Co-Founder, Sustainable Jersey



christine symington (@ChristineSyming)



- energy director at Sustainable Princeton (@sustainptn)
- ✓ led the collaboration between Princeton mayor's administration and civic technologists as Sustainable Princeton liaison to Code for Princeton
- open data evangelist, techie wanna-be, and sustainability apprentice

View Christine's presentation: http://bit.ly/Symingtonslides



anna lukasiak (@adlukasiak)



- ✓ director of development for Open Data Science (@OpenDataSci), which organizes conferences, meetups & hackathons to create an ecosystem for data scientists
- founder of Open JC, a group of civic technologists working with the Jersey City administration to develop useable application out of government data
- organized several hackathons & data jams throughout NJ
- ✓ an active #opendata & #opensource advocate

View Anna's presentation: http://bit.ly/Annalslides



cassidy boulan (@DVRPC)



- transportation planner at Delaware Valley Regional Planning Commission's Office of Transit, Bicycle and Pedestrian Planning (@DVRPC)
- manages a regional cyclical bicycle count program and developing a bicycle and pedestrian plan for downtown Trenton, NJ.

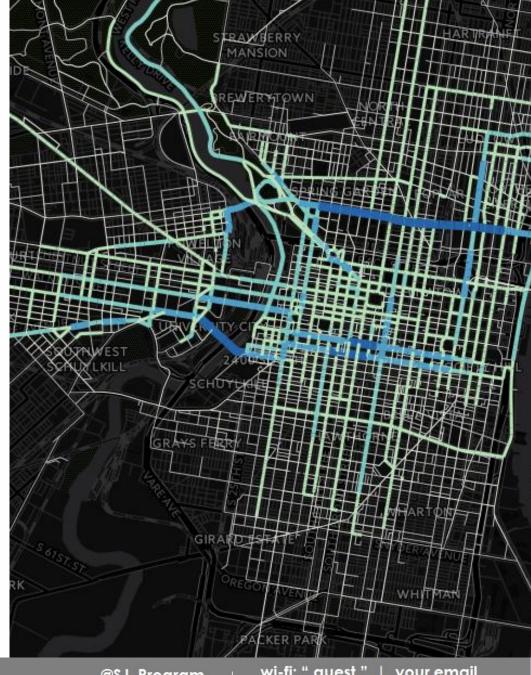
CyclePhilly:

Development,
Deployment,
Data, and (future)
Directions

Cassidy Boulan, AICP

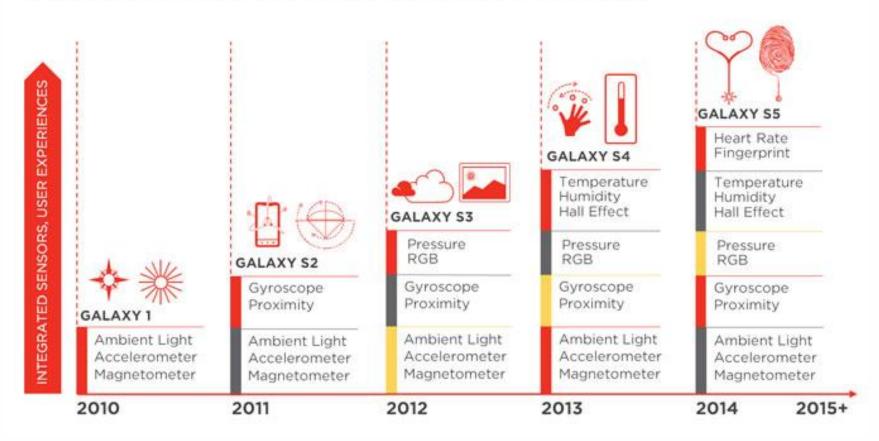


October 2, 2015



Smarter Phones

SENSOR GROWTH IN SMARTPHONES











Austin

- Raleigh
- Minneapolis/St. Paul
- Seattle
- Salt Lake City
- Toronto
- Los Angeles

- 2009-2013
- Understand needs and prioritize infrastructure
- Use to create a bicycle route choice model
- Information about plan implementation



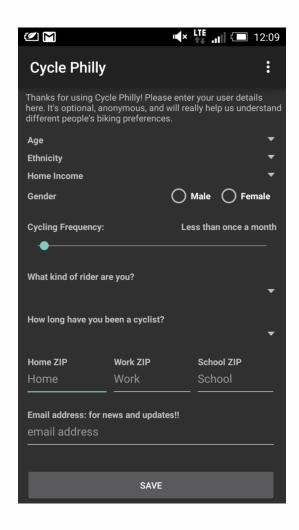


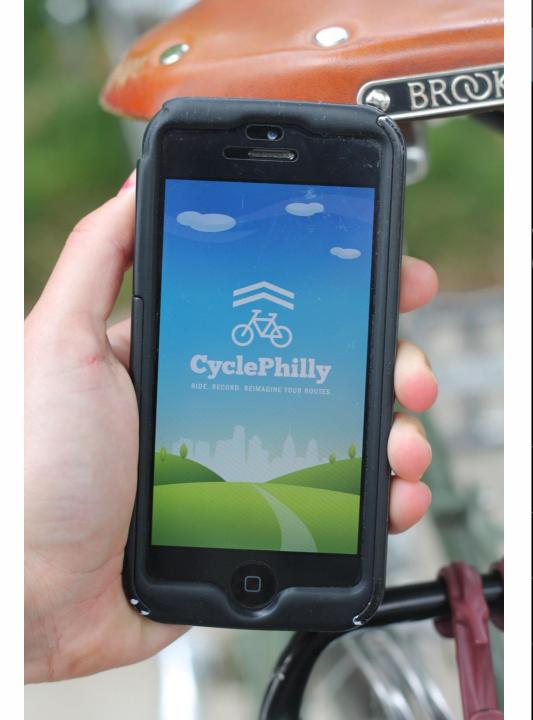


Improvements: better anonimization, bike to transit, focus on the entire region

User Demographics

- User Characteristics
 - Age
 - Ethnicity
 - Gender
 - Income (Household)
- Cycling Frequency
- Cyclist Classification
- Cycling History









Start Trip!

Weather Alert: Clear throughout the day.

41 saved trips:

1,12,11110	Exercise	7/12/14 1:36 PM
------------	----------	-----------------

6.9 miles, 42 minutes.

Errand 7/12/14 1:26 PM

0.9 miles, 7 minutes.

Exercise 7/6/14 10:38 AM

2.0 miles, 14 minutes.

Exercise 7/6/14 10:02 AM

0.8 miles. 33 minutes.

Data Collection Flow



Cycle Philly

User starts recording their trip



GPS Tracking

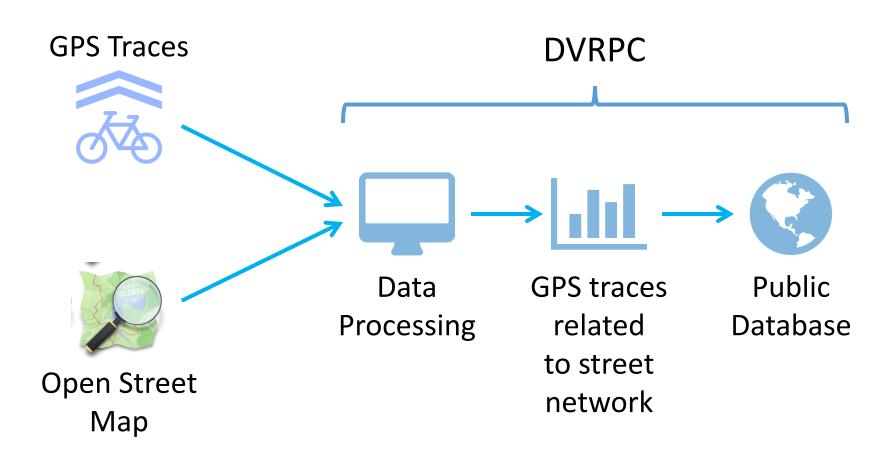
App records timestamped geographic coordinates



Data Upload

Once the trip is completed, recorded data is uploaded

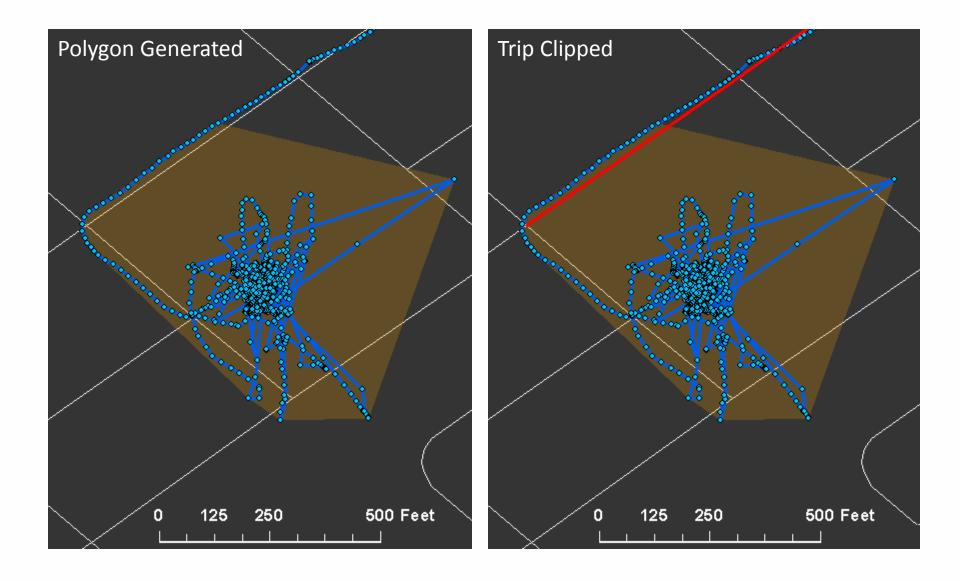
Data Processing Flow



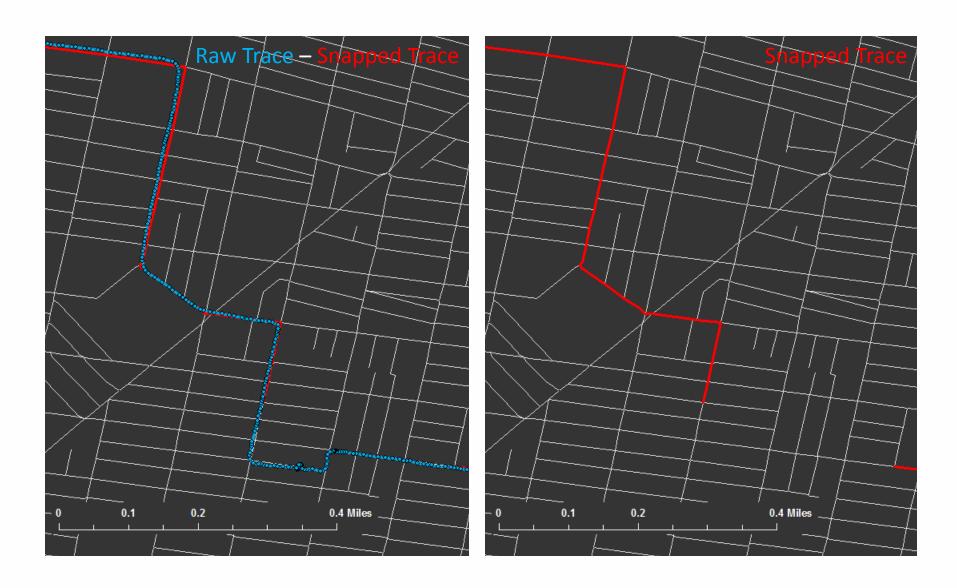
Handling Raw Data

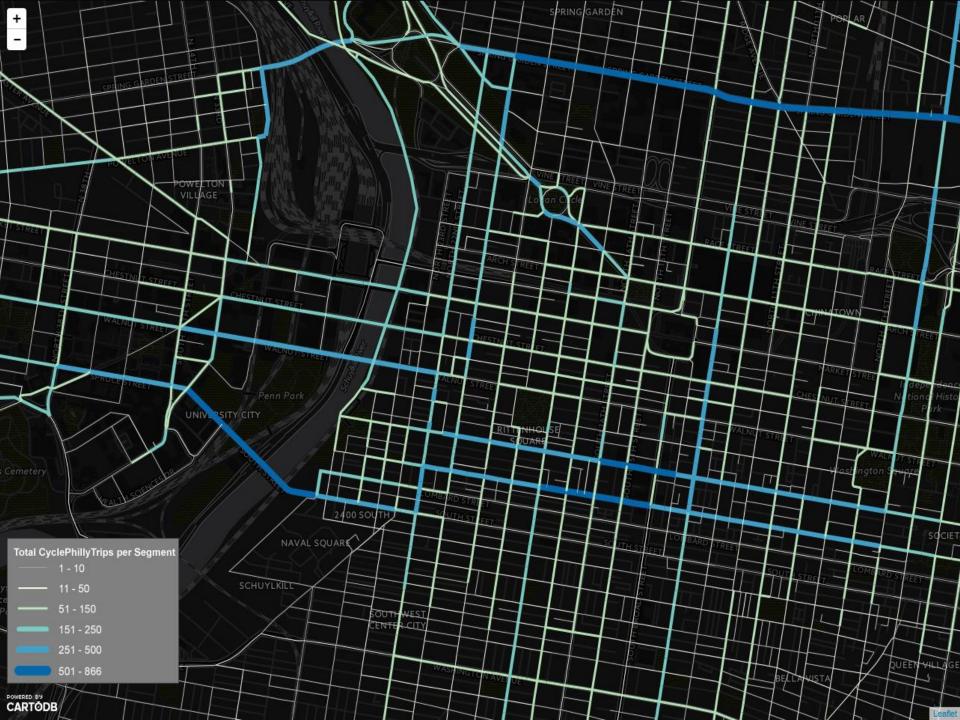
- GPS accuracy variability
 - Urban (Street) Canyon
 - Obscured line of sight
- Anonymization concerns
- Accidental multi-modal trips
- ... other unspecified strangeness

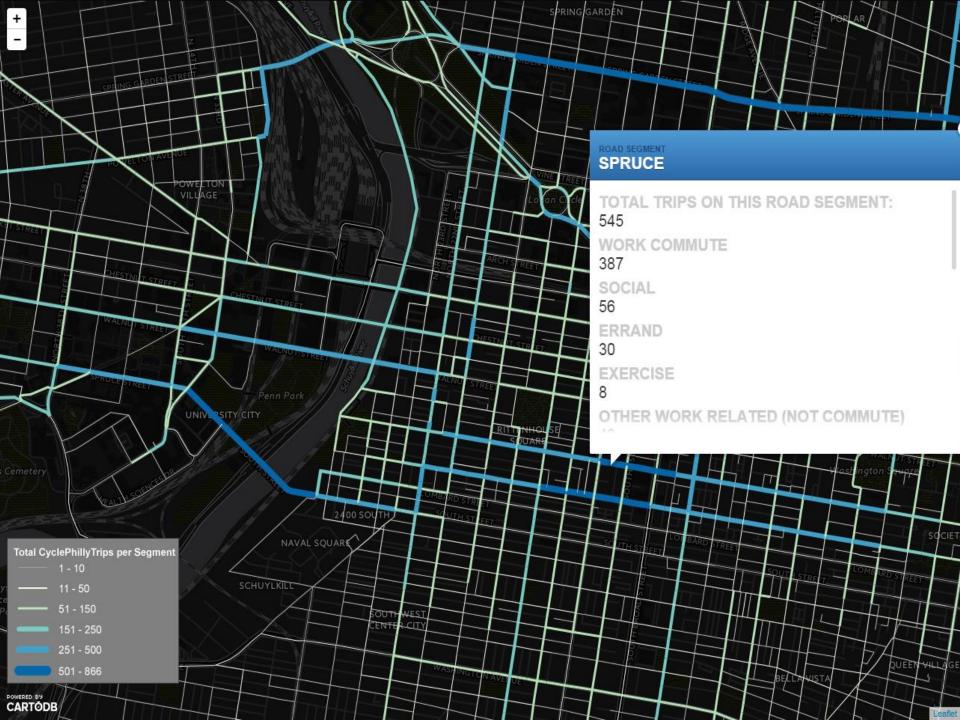
Cleaning & Anonymization

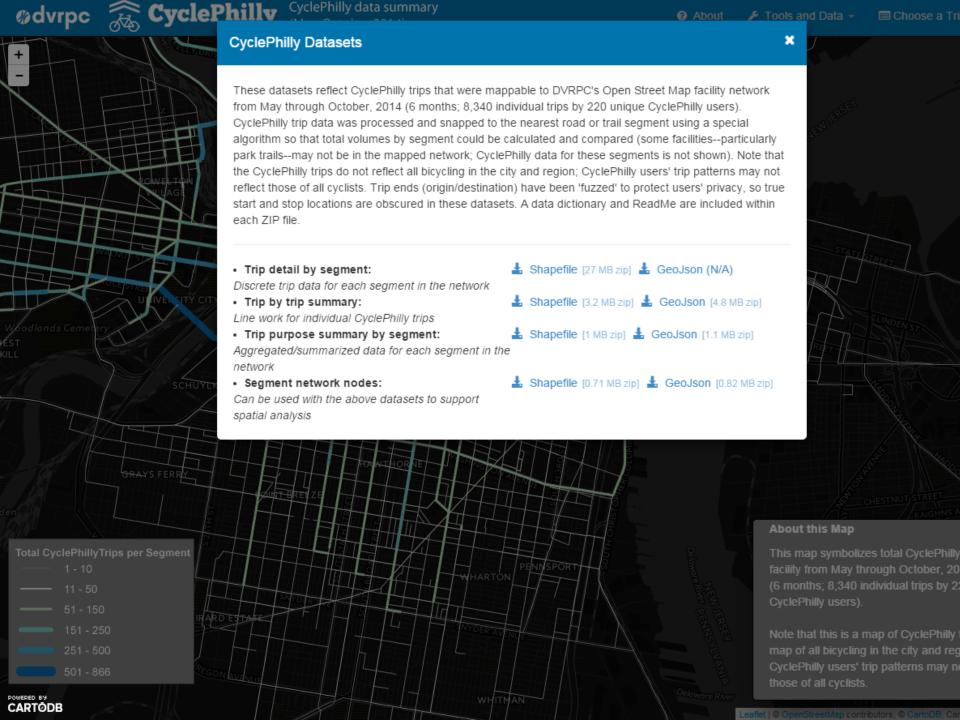


Trip Snapping

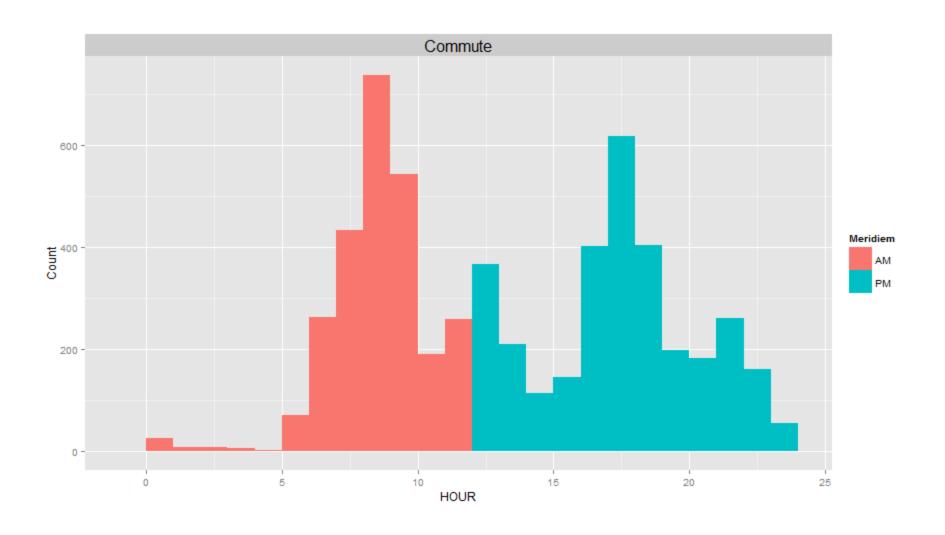




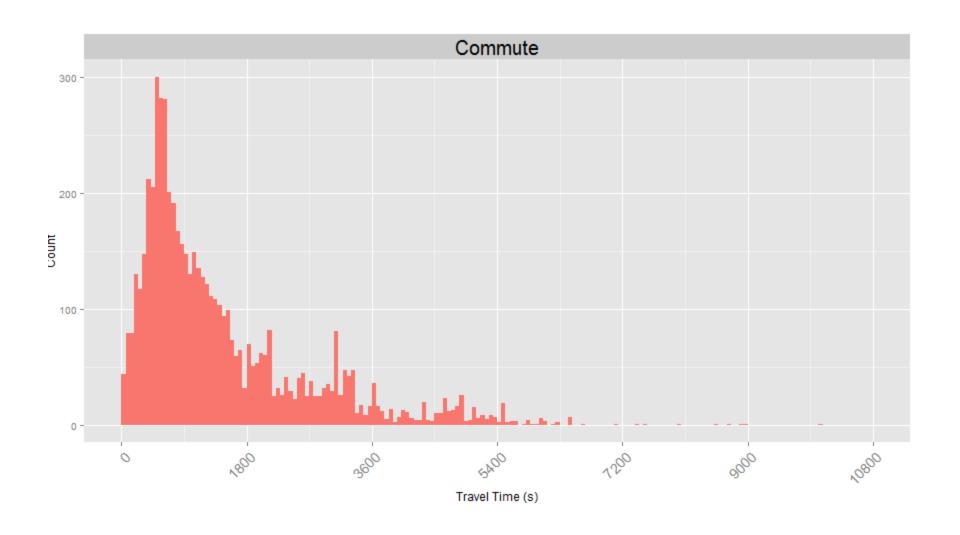




Trips by Purpose



Travel Time by Purpose



Data generation and usage

Improvements for 2015:

- Improved and expanded publicity
- Giveaways!!
- User and trip goals promotion
- Analysis of 2014 data

Long-term work:

- Analysis pre- and post-bike share
- Analysis using CyclePhilly and regional bike counts
- Development of a regional bike plan
- On-going improvements to processing



Data:

http://www.dvrpc.org/ webmaps/cyclephilly

Questions:

cboulan@dvrpc.org



October 2, 2015





new sustainable jersey actions access to public info

1. Digitizing Public Information

✓ Put highly demand information & records online in digital formats

2. Open Data Inventory & Management (coming soon)

- ✓ Take stock of data sets that exist in your town
- ✓ Share them with the public through a repository or links on your website
- Engage the public in learning what data is important to them and collaborate with them to create useful applications