Stormwater Mapping

Naomi Farkas 3/27/21



CAPERS





Flooding in Princeton

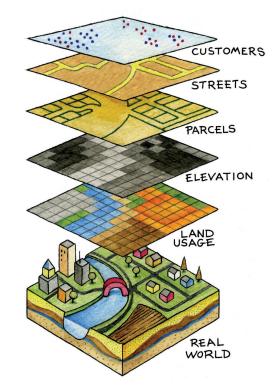
- Runoff/flooding is becoming more frequent and intense
- Infrastructure needs repairs/changes



Geographic Information System (GIS)

- Computer based tool/system
- Data collection/visualization/analysis
 - Geographic data- has a geographic location
- Layers of information
 - street/buildings/boundaries
- ArcGIS





Current Stormwater System

- Inlet, storm sewers, stormwater drains
 - Drain water from impervious surfaces
 - Impervious: water cannot pass through
 - Roads, sidewalks, parking lots
 - Stormwater runoff
- Data collected with Google Maps
 - Location Picture
 - Inlet Type Year of
 - Labels Imagery
 - Condition Bike Safe

SUSTAINABLE PRINCETON.

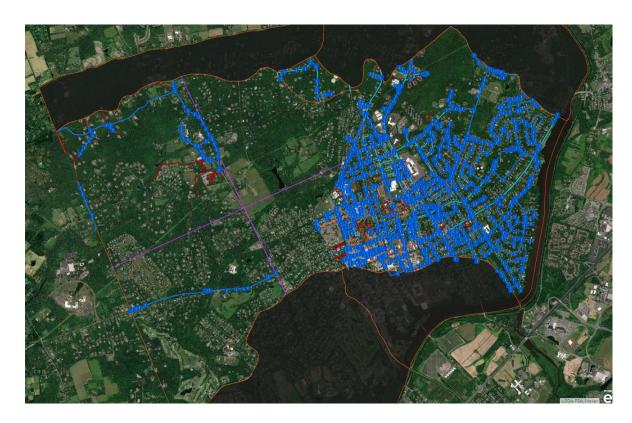




Progress

- Harry's Brook Area
- Blue dots = inlets
- Blue lines = streets
 reviewed
- 1538 inlets mapped so far





Next Steps

- Finish google maps part by April 2021
- Finish in-person inspections by Jan 2022
 - Verify Google Maps images
 - Collect data in obstructed/blurry areas
- Analyze data
- Green Infrastructure to alleviate flooding





Thank You

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- CAPERS, Sustainable Princeton, Princeton Environmental Commission







- https://planetprinceton.com/2014/05/01/photos-of-princeton-area-floo ding/
- https://planetprinceton.com/2018/05/27/several-princeton-area-roadsclosed-due-to-flooding-11-a-m-sunday/
- https://www.jmu.edu/facmgt/gis/index.shtml

