

Extending Into the Community



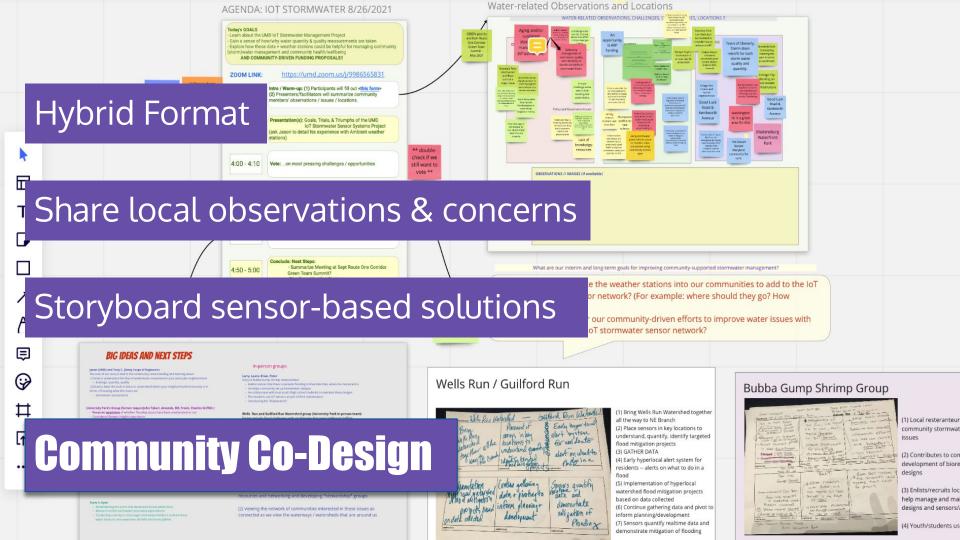




Representatives from key stakeholders

Notes: Representatives from key stakeholders: UMD Facilities; Riverdale Park; University Park; Berwyn Heights, College Park, North Brentwood; Brentwood; Cheverly; Laurel; PGC-Council; PGC-DPW&T; M-NCPPC; Green consulting businesses; non-profit community orgs (Greenbelt Homes Coop; Metamorphosis; Joes Stream Team)

Community participants



PPortunities



Community Challenges & Opportunities

er-related Observations and Locations



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Recent Storms

Stormwater Infrastructure & Drainage Issues

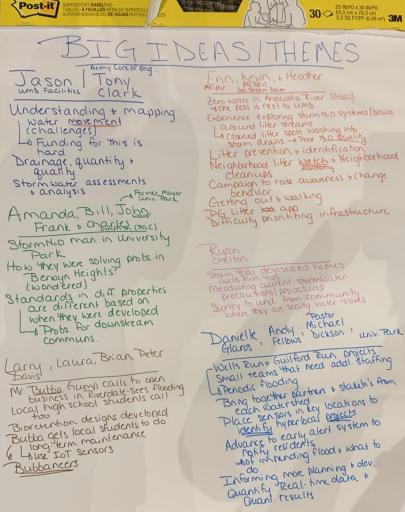
Litter & Trash in Catchment Areas

Community Concerns

wusa9.com

September 2020 Flash Flood

Community Concerns



BIG IDEAS AND NEXT STEPS

Jason (UMD) and Tony C. (Army Corps of Engineers)

The core of our story is tied to the community understanding and learning about 1) how to understand the flow of water/water movement in your particular neighborhood

· drainage, quantity, quality

(2) how to have the tools in place to understand where your neighborhood/community is in

terms of knowing what the issues are

Jniversity Park's Group (former mayor/John Tabori, Amanda, Bill, Frank, Charles Griffith) Focus on guestions of whether flooding issues have been ameliorated or not Considered Berwyn Heights experience

Longstanding issue (>20 years) Stormwater management standards are often different depending on when they were developed - (do we need more coherent standards across the board?)

Understanding how these variable standards have an effect downstream

Team/Room 3 - Stream Team focus - reducing litter/trash clutter in storm drains Kevin, Heather, Frin Mever

Anacostia River goal: trash-free river / "Zero Waste" in Anacostia

- One of their sites is close to UMD
- · Exploring litter traps around the streams /water entry ways Litter prevention and identification
- Campaigns to adddress
- Can we address some of the 'clogging' of these litter traps and storm drains in order to ensure better flow into the streams entering larger waterways (e.g., NE branch of
- Anacostia) Instantiating "Neighborhood Litter Watch"
- Awareness of the Litter App

- Measure current stormwater precautions/procedures

In-person groups

Larry, Laura, Brian, Peter

- Story of Bubba Gump Shrimp restauranteur Bubba notices that there is periodic flooding in Riverdale Park, where his restaurant is
- He helps community set up bioretention designs
- He collaborates with local youth (high school students) to maintain these designs
- The students use IoT sensors as part of their maintenance
- · Introducing the "Bubbaneers!"

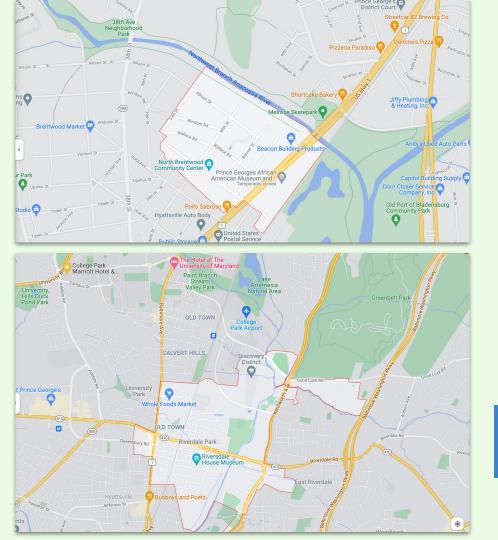
Wells Run and Guilford Run Watershed group (University Park in-person team)

- Facing periodic flood challenges with small teams that need additional staffing
- Bring all the stakeholders together => partners and stakeholders from each watershed area
- By collecting the data real-time, would have enough to prioritize hyperlocal actions, projects, locations
- if we can prioritize these sensors in hyperlocal areas, we can:
- (1) Implement "hyperlocal alerts" for early warning system that notifies residents (2) Quantify real-time data with quantifiable results (e.g., impending flood)
- (3) inform planning/mitigation responses that target these hyperlocal areas more personally and
- show up for the residents who are most impacted

Additional Big Ideas.... (major themes related to all teams' stories) (1) Having a means for sharing these stories more often to help coordinate resources and networking and developing *stewardship* groups

(2) viewing the network of communities interested in these issues as connected as we view the waterways / watersheds that are around us

Key Take-aways



Water movement/flow & water build-up

Litter & trash locations

Community projects

Community Mapping



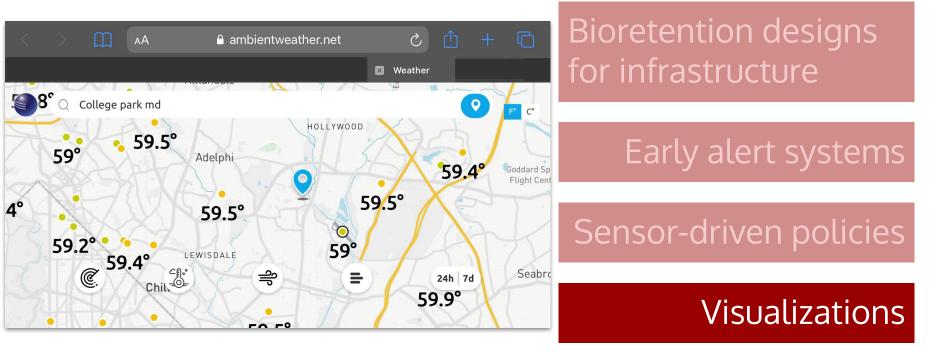
Bioretention designs for infrastructure

Early alert systems

Sensor-driven policies

Visualizations

Building tools, technologies, & resources



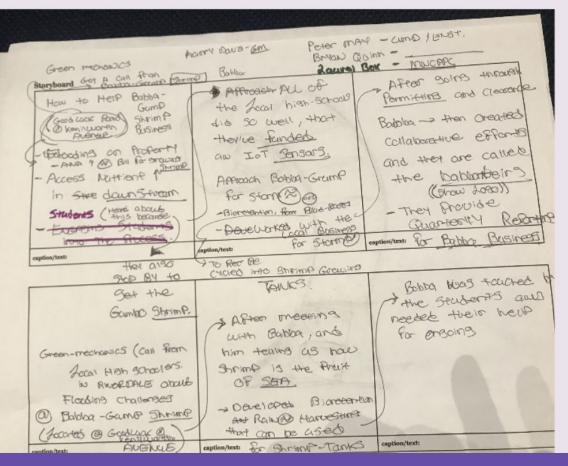
Building tools, technologies, & resources

Guillord Rin Waterdes Early hyperlocal loca hons Rolpina exptiles, inst cantion deat caption/testaption/text

(1) Bring Wells Run Watershed together all the way to NE Branch (2) Place sensors in key locations to understand, quantify, identify targeted flood mitigation projects (3) GATHER DATA (4) Early hyperlocal alert system for residents -- alerts on what to do in a flood (5) Implementation of hyperlocal watershed flood mitigation projects based on data collected (6) Continue gathering data and pivot to inform planning/development (7) Sensors quantify realtime data and demonstrate mitigation of flooding

Building tools, technologies, & resources





(1) Local resteranteur notices local community stormwater runoff issues

(2) Contributes to community development of bioretention designs

(3) Enlists/recruits local youth to help manage and maintain these designs and sensors/activities

(4) Youth/students use IoT sensors

Engaging community youth

The "Bubbaneers!"

