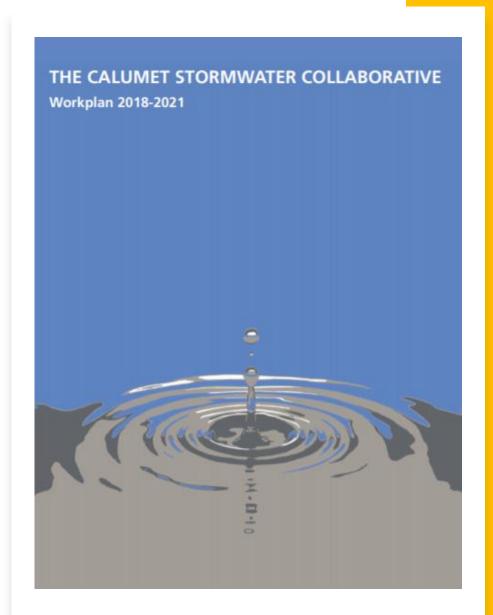


Urban Flooding Baseline CSC Update - 3/6/2020

Center for Neighborhood Technology

For today

- Project summary
- Objectives/deliverables
- Timeline
- CSC Touchpoints
- Discussion



FOUNDATIONAL ACTIVITIES

ACTIVITY 2:

Establish baseline of non-overbank flooding

Purpose: Document the extent of current urban flooding events and the scale in order to strategically pursue future activities, like green infrastructure site selection, where they are needed most.

Lead: Planning & Policy Work Group + Data & Modeling Work Group

GOAL: Significant reduction in non-overbank flooding

GOAL: Data-driven decision-making is more prevalent in stormwater management planning

PHASE 1

Conduct a needs assessment confirming the need for, desired use and data sources available or needed in order to compile a baseline of non-overbank flooding in the Calumet

PHASE 2 & 3

Advance establishing baseline and how best to plan future activities upon results

Objectives Activity Advances:

- Increase grey and green infrastructure implementation to effectively manage stormwater
- Increase distribution of grey and green infrastructure implementation
- Increase stakeholder understanding of Calumet-region non-overbank flooding

Establishing a baseline of non-overbank flooding helps advance other activities, such as:

- · Strategically planning % increase of new green infrastructure over baseline and in more equitable distribution
- · Targeting pilots of developing stormwater master plans with municipalities
- Building stormwater management capacity with municipalities—Chicago Metropolitan Agency for Planning (CMAP),
 Illinois Department of Natural Resources (IDNR), Metropolitan Planning Council (MPC)
- Engaging residents in planning green infrastructure projects—University of Illinois at Chicago (UIC)

Near-term measures of success:

- Baseline documented
- CSC Data Mapping Viewer Tool updated

Long-term measures of success:

 Percent increase in distribution of new green infrastructure built equitably in areas of need

Project Phasing

Phase 1: conduct a needs assessment to establish an urban flooding baseline, including identifying data sources and gaps

Phase 2: produce the urban flooding baseline scoped in Phase 1

Phase 3: use the results of the urban flooding baseline in investment and policy decisions - TBD

Long-term:
document changes
in urban flooding
occurrence and
evaluate
effectiveness of
interventions



Phase 1: Process



Create shared definitions of key elements



Inventory previous local efforts to create a baseline of urban flooding.



Review other methods used nationally to measure and track urban flooding.



Produce an inventory and assessment



Research "use cases" for urban flooding baseline.

Identifying existing data sources to measure urban flooding and data gaps where desired data is not available.

Propose and research potential predictive methods that could fill these gaps, including surveys of residents and community groups.

Determine need for new primary data to be collected through focus groups. Identify likely users, such as municipalities, MWRD, individual property owners, insurance companies, real estate developers and investors, and any other members of the CSC.

Conduct interviews or focus groups and determine what information and method of presentation would be most valuable for them.

Deliverables Due June 2020



Work plan for Phase 2



technical documentation of the findings of Phase 1



results of focus groups and workshops



materials to guide discussions at CSC work group meetings



communication materials to support findings.



CSC Touchpoints





Working Group Discussion

Discussion questions

What is urban flooding?

Who needs an urban flooding baseline?

What would be useful to you?

What is the geographic scope?

What timeframe does it cover?



What is Urban Flooding?

"Urban flooding occurs when rain overwhelms drainage systems and waterways and makes its way into the basements, backyards, and streets of homes, businesses, and other properties." Cost and Prevalence of Urban Flooding, CNT, May 2014

"The inundation of property in a built environment, particularly in more densely populated areas, caused by rainfall overwhelming the capacity of drainage systems, such as storm sewers. 'Urban flooding' does not include flooding in undeveloped or agricultural areas." Illinois Urban Flooding Awareness Act, August 2014

Who needs an urban flooding baseline?



What is your role?



How do you contribute to ending urban flooding?



What challenges do you face in that work?



What kinds of data could help you overcome those challenges?



How would a tool need to "look" or "feel" to be most effective?



Who else should we talk to?

What is the geographic scope?

Municipality Evergreen Park Palos Hills

Alsip Flossmoor Palos Park

Bedford Park Harvey Phoenix

Blue Island **Hazel Crest** Posen

Riverdale Bridgeview **Hickory Hills**

Hometown

Burnham Homewood South Holland

Robbins

Thornton

Justice

Markham Calumet Park Tinley Park

Chicago Merrionette Park Worth

Chicago Ridge Midlothian

Burbank

Calumet City

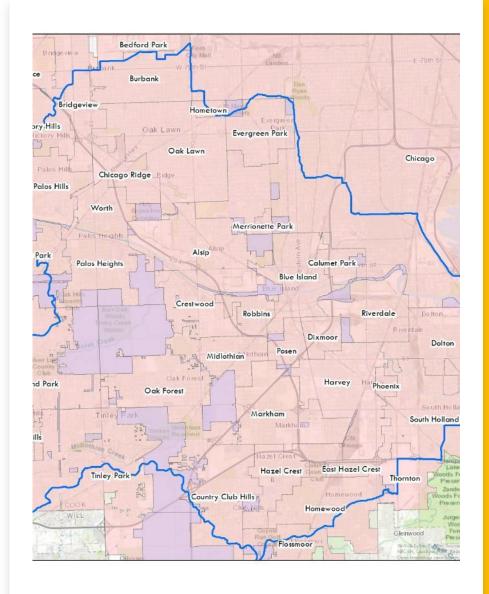
Country Club Hills Oak Forest

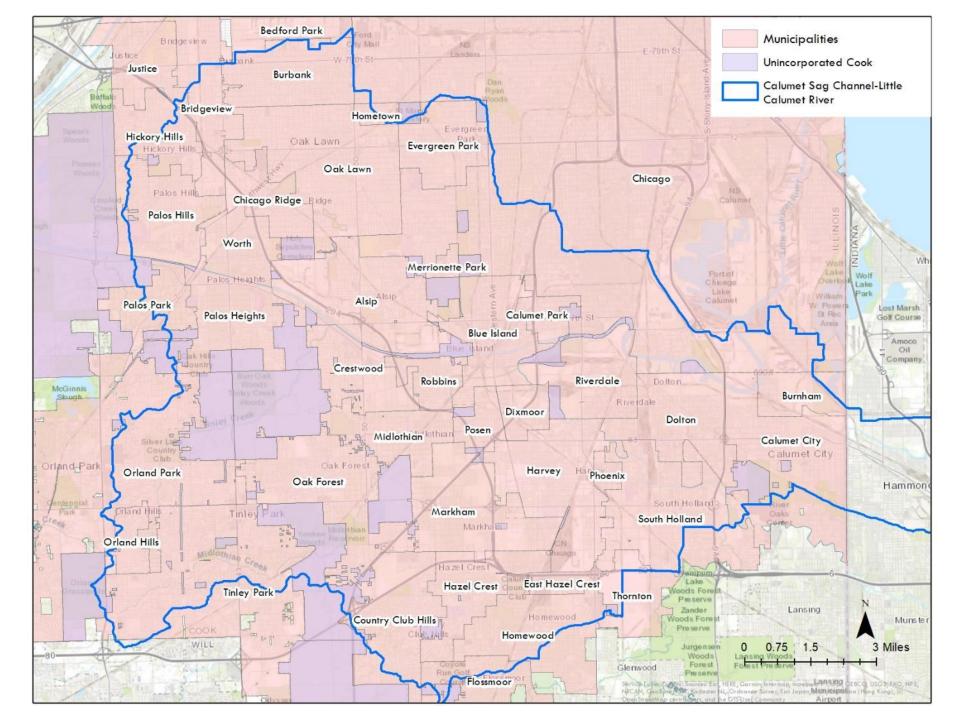
Crestwood Oak Lawn

Dixmoor Orland Hills

Dolton Orland Park

East Hazel Crest **Palos Heights**

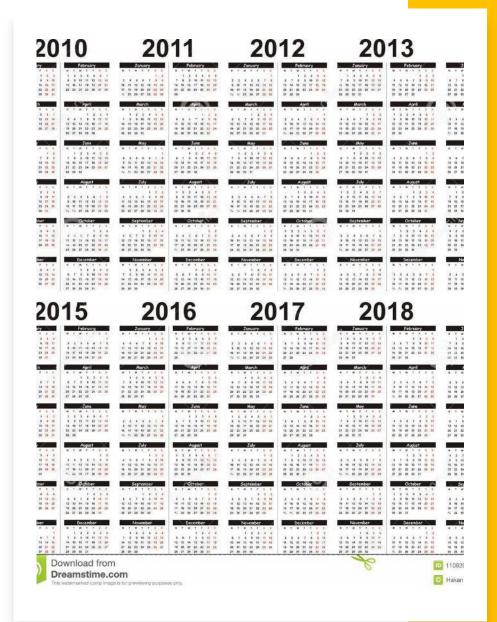




What is the timeframe of the baseline?

• 2010-2020

- Aligns with decennial census
- Broad enough to capture a wide range of data
- Recent enough for memory
 focus groups/survey
- Thoughts, concerns, questions?







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