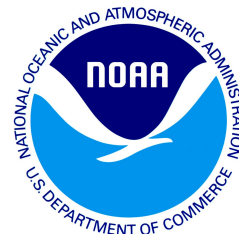# Calumet Stormwater Collaborative
Update: Green Infrastructure Baseline Inventory

Justin Keller

August 6, 2021

Agenda

- **Sign-in sheet**

- **GIBI Overview**

- **Phase 2 Updates (v1 complete!)**

- **Immed. Next Steps & Phase 3 Discussion**

- **2022 Work Planning**

GIBI Overview

What is the GIBI?

- Inventory of all existing green infrastructure installations in the Calumet region of Illinois

- Free, publicly available dataset with various attributes (location, ownership, size, etc)
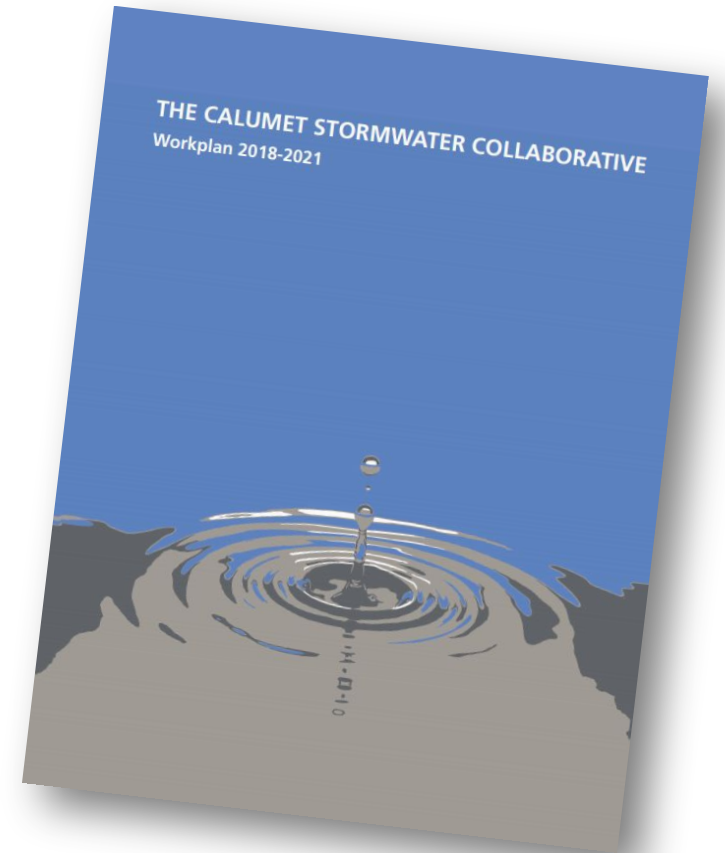
Why the GIBI?

- Meet the goals of the CSC 3-Year Work Plan

THE CALUMET STORMWATER COLLABORATIVE
Workplan 2018-2021

Significant reduction in non-overbank flooding

Grey and green infrastrucure maintains its designed performance over time

Increase municipal capacity and reduce fragmentation across Calumet government actors

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

GIBI Overview

Primary functions

- *Short term:* Assess the location, performance, and maintenance status of <u>existing</u> green infrastructure.

- *Long term:* Strategically plan and guide investments in <u>new</u> green infrastructure that will have the greatest impact.

Primary users

- Regional planning agencies (CMAP, MWRD, CDOT, IDOT, IDNR, IEPA)
- Units of local government
- Other organizations (MPC, CSC member agencies)
- Researchers
- Funders

GIBI Overview – Phase 2

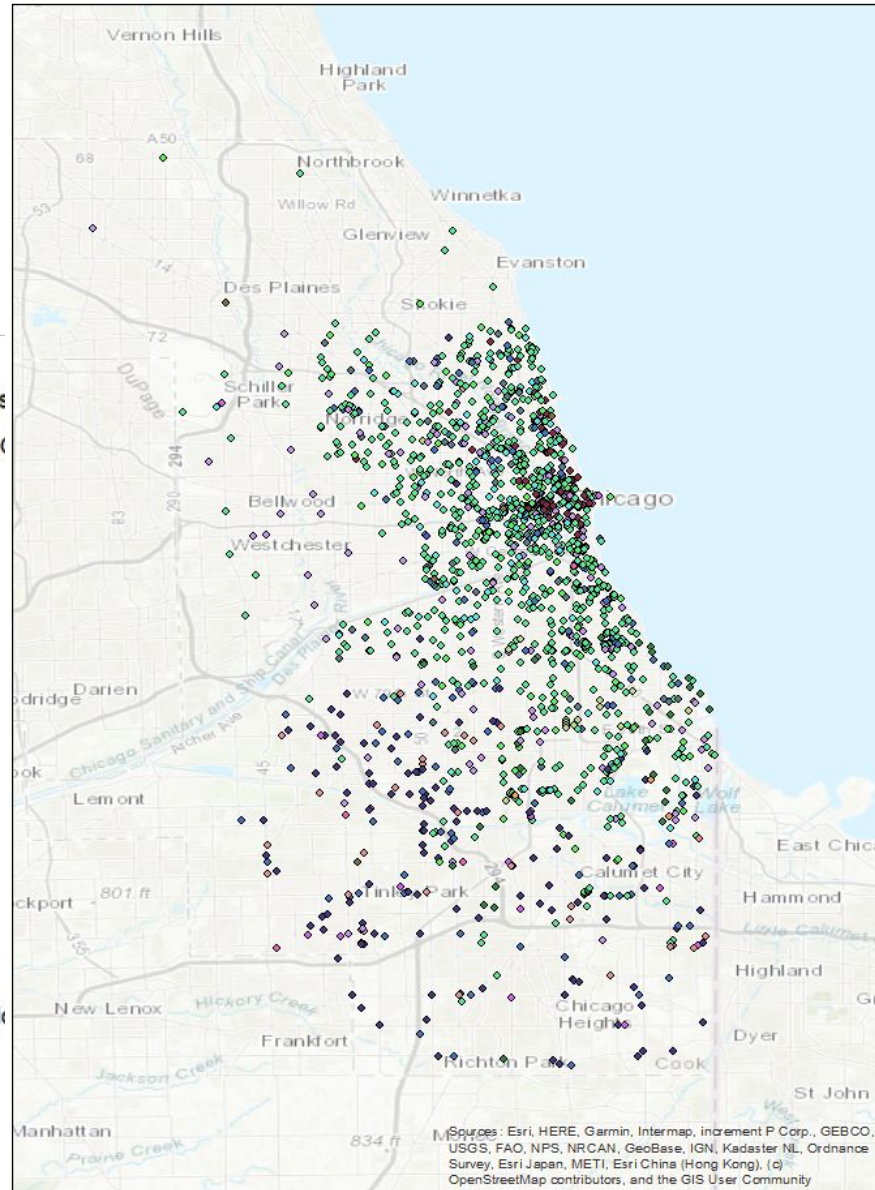**Phase 2**

Data collection:
January 2021 – June 2021

Activities:
- Convene data providers
- Collect existing data
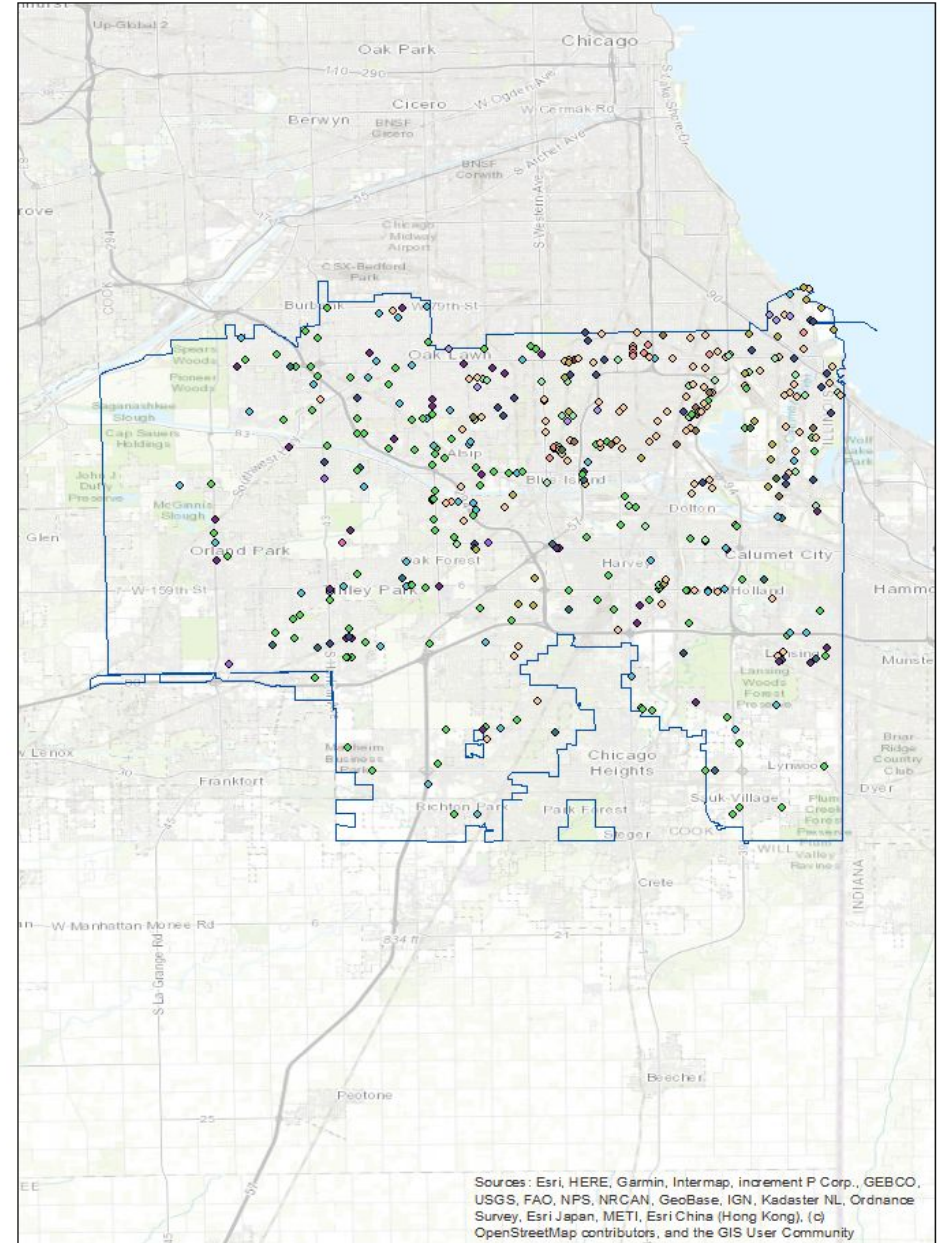- Conduct direct outreach
- Build the dataset

COMPLETE

Total: 1,853 points

Target Geography: 457 points

Type of Green Infrastructure

- Artificial turf/play surface with subgrade void s...
- Bioinfiltration System, e.g., Engineered Rain (...
- Bioswale
- Constructed Wetland
- Green Roof
- Native Landscaping
- Naturalized Detention Basin
- Oversized detention + restrictor
- Permeable Asphalt
- Permeable Pavement (Unknown type)
- Permeable Pavers
- Pervious Concrete
- Rainwater Harvesting - Cistern
- Underground Detention System (with Infiltratic...
- Unknown
- ☐ MWRD South Basin

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Next step: Promotional materials

- **Data hub ([example](#))**
  - CSV
  - Shapefile
  - Geodatabase

- **Project landing page ([example](#))**
  - About the project
  - How dataset was compiled
  - Who can use it and how
  - How to contribute data

Next step: Promotion

- **Promotion, educate Calumet region stakeholders**
  - CSC listserv
  - Non-CSC "data request" listserv
  - GIBI Advisory Committee
  - Partner newsletters (IDNR, CMAP, SSMMA, MMC, …)
  - Education: _____

- **Discussion #1**
  - What's missing from the promotional materials?
  - What's missing from the promotion?

Phase 3 scoping

- **Phase 1 advisors recommended:**
  - web-based map with suite of relevant data layers (e.g., FEMA floodplains, combined sewer areas), and/or
  - custom-built application with analytic functionality

- **Phase 3 Advisory Committee:**
  - discuss scope of work for building one or both of these resources
  - required funding
  - specific end users and required functionality
  - develop funding proposal (will vary widely based on functionality)

Discussion #2

- **Web-based map and/or Custom-built application**
  – Preference?

- **Functionality**
  – Who are the users? (e.g., general specialties, organizations, specific people)
  – What need will the tools fill?
  – What should the tools do?

2022 Work Planning

- **Primary Functions: How can the CSC begin to…?**

  – *Short term:* Assess the location, performance, and maintenance status of <u>existing</u> green infrastructure.

  – *Long term:* Strategically plan and guide investments in <u>new</u> green infrastructure that will have the greatest impact.

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Thank you!

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