Building Coastal Resilience in the Calumet

Proposal overview to the
Calumet Stormwater Collaborative

General grant information

- $5 million available
- Will award 5-10 grants of $500,000-$1 million each
- Cook County is considered part of the eligible coastal zone
- Requires 50% local match
- Regional organizations are a primary target

Goals of funding

- Identify and address priority data, information, and capacity **gaps**
- **Integrate natural/hard infrastructure approaches** to planning and decision-making
- Use **regional approach** to foster broader geographic impact
- Result in **increased access** to or understanding of information for reducing risk and increasing resilience

Recap of Collaborative Challenges

- Many Calumet communities **lack basic data** about their infrastructure systems, which limits their abilities to make investment decisions

- Calumet infrastructure systems are **aging and insufficient** for current conditions, not to mention future conditions that will be exacerbated by climate change

- Calumet communities often experience **repeated, ineffective interventions** that drain public and private resources

Proposal elements

1. Infrastructure condition and vulnerability assessments

2. Follow-up CIPs

3. Regional capacity-building through feedback of local findings into larger initiatives

Proposal elements

- 4-5 communities
- 3-year grant timeline (Jan. 1, 2016- Dec. 31, 2018)
- Local match: $250,000 MPC, $150,000 CMAP

1. Infrastructure Assessments

- Collect information and assess condition and vulnerability of 4 infrastructure systems
    - Stormwater and sanitary systems
    - Drinking water systems
    - Road networks
    - Green infrastructure
- Comprehensive consideration of green/gray as related networks

2. Resilient Capital Improvement Planning

- Findings of infrastructure assessments will inform follow-up CIPs
- Use science-based approach to prioritize financial resources and activities that build resilience
- Use results of ISWS updated precipitation projections to prepare for future conditions
- Unlike individual CIPs, coordinated CIPs will ensure strategic coordination of local activities and more effective results

3. Regional Capacity Building

- Funds CSC as a forum for peer exchange
- Builds regional capacity by developing basis of a regional H/H model and feeding local data understandings into larger initiatives such as the Chicago Regional Trees Initiative and GIV
- Puts climate science into practice by reducing the lag between climate research and new design standards/policies

Infrastructure Assessment Activities

- **Stormwater and sanitary systems:** collection of data on age, diameter, and location of pipes; diagnostic smoke testing and televising, manhole inspections; and flow monitoring to test system capacity.

- **Drinking water systems:** collection and digitization of data on the age, materials, location, and flushing records of pipes, lift stations, pumping stations, and reservoirs; surveys of main breaks and known pressure problems; review of meters and accounting practices.

- **Road networks:** documentation of average daily traffic volumes and the level of service class of road networks; pavement condition assessments.

- **Green infrastructure:** inventory of existing trees and installed green stormwater infrastructure projects; analysis of stormwater volume capture from the green infrastructure.