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.