

Climate-Ready Infrastructure and Strategic Sites Protocol

Simon Belisle, Program Manager Great Lakes and St. Lawrence Cities Initiative Water Resilient Cities Conference April 21, 2016



AECOM GIS/ NOAA RISA TEAM



Great Lakes and St Lawrence Cities Initiative Alliance des villes des Grands Lacs et du Saint-Laurent

### The Cities Initiative



- Started in 2003 20 Cities
- Grown to 122 Cities over 17 million people
- Covers entire Great Lakes and St. Lawrence Basin
- Get seats at decision-making tables for cities
- Broader sustainability focus



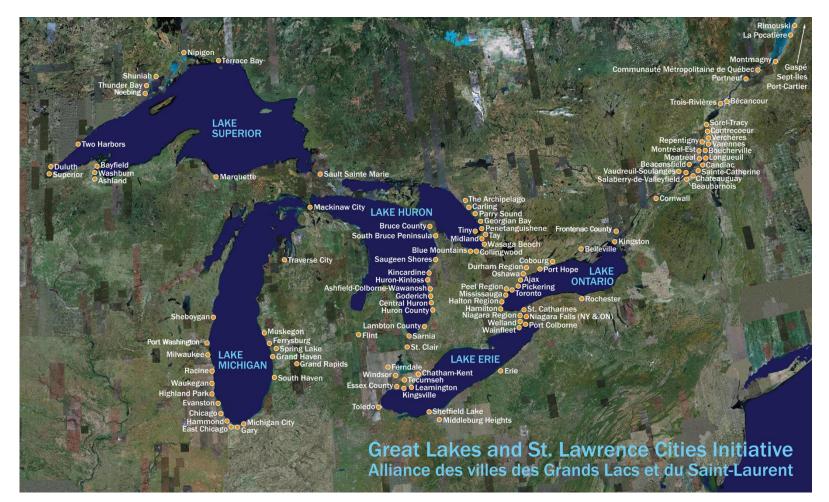






### Cities Initiative Members













### Problem



- Two challenges that municipalities face:
- The lack of reliable data on anticipated weather changes due to climate change; and
- 2. Limited municipal financial and staff resources to devote to identifying and assessing vulnerability









Photos: NW Indiana Times/Toll Road News

# Solution : the CRISSP



- Climate-Ready Infrastructure and Strategic Sites Protocol
- Create an <u>expedited</u> methodology for municipalities to identify and protect their strategic sites and infrastructure in advance of extreme weather









#### Partners



- GLISA
- City of Gary, IN
- AECOM
- Advisory Committee
  - Evanston, IL
  - Niagara Falls, NY
  - Milwaukee, WI
  - Traverse City, MI









## Solution : the CRISSP



- Existing Data
- Internal/Close External Human Resources
- Lower Cost
- Target Audience
  - Small to mid-size municipalities









# Tools and Deliverables

- The Guide
- The Matrix
- The White Paper



Photo: JoeyBLS Photography









### The Guide



- Technical Paper
- Explains bases of the project, research, methodology
- Presents reasoning behind matrix questions
- Presents pilot project implementation









### The Matrix



- The list of vulnerability assessment questions a municipality needs to ask itself
- Comprehensive
- Identifies Data Needs
- Touches on various aspects of risk management
- Works in conjunction with the Guide









### The White Paper



- Focus on Methodology
- Link to Matrix
- Findings of interest to new grantees

AEC	
	The Climate-Ready Infrastructure and
	Strategic Sites Protocol (CRISSP)
	Nicola Crawhall, GLSLCI, Project Lead Michael Donahue, AECOM Lawrence Frank, AECOM Brenda Scott-Henry, City of Gary Daniel Brown, GLISA Simon Beliale, GLSCI Melissa Soline, GLSLCI
	This project was funded by Great Lakes Integrated Sciences + Assessments through a 2014 Great Lakes Climate Assessment Grant.
Recommended (	Antital devices of a second manager management commonstation from the second
and Strategic	M. Donahue, L. Frank, B. Scott-Henry, D. Brown, S. Beilsle, M. Soline. The Climate-Ready Infrastructure Sites Protocol (CRISSP). In: <i>Project Reports</i> . D. Brown, M. Krajewski and I. Robinson, eds. Available from es Integrated Sciences and Assessments (GUISA) Center.
	For further questions, please contact Nicola Crawhall at nicola.crawhall@rogers.com











- Become a member
- Establish scope
- Establish team, assign data gathering roles
- Use matrix to answer questions and establish vulnerability
- Take actions to ensure sustainability









### Lessons learned



- Data management
- Sensitive to Strategic
- Integration in Existing Plans
- Staff champion needed
- Be flexible
- Interdependencies and Cascading Effects
- Learn about your infrastructure











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2016 Annual Meeting and Conference

 June 15-17, Niagara Falls, NY







