



GREAT LAKES STORMWATER COLLABORATIVE

Closing The Gap In Technology Transfer

DECEMBER, 4, 2018

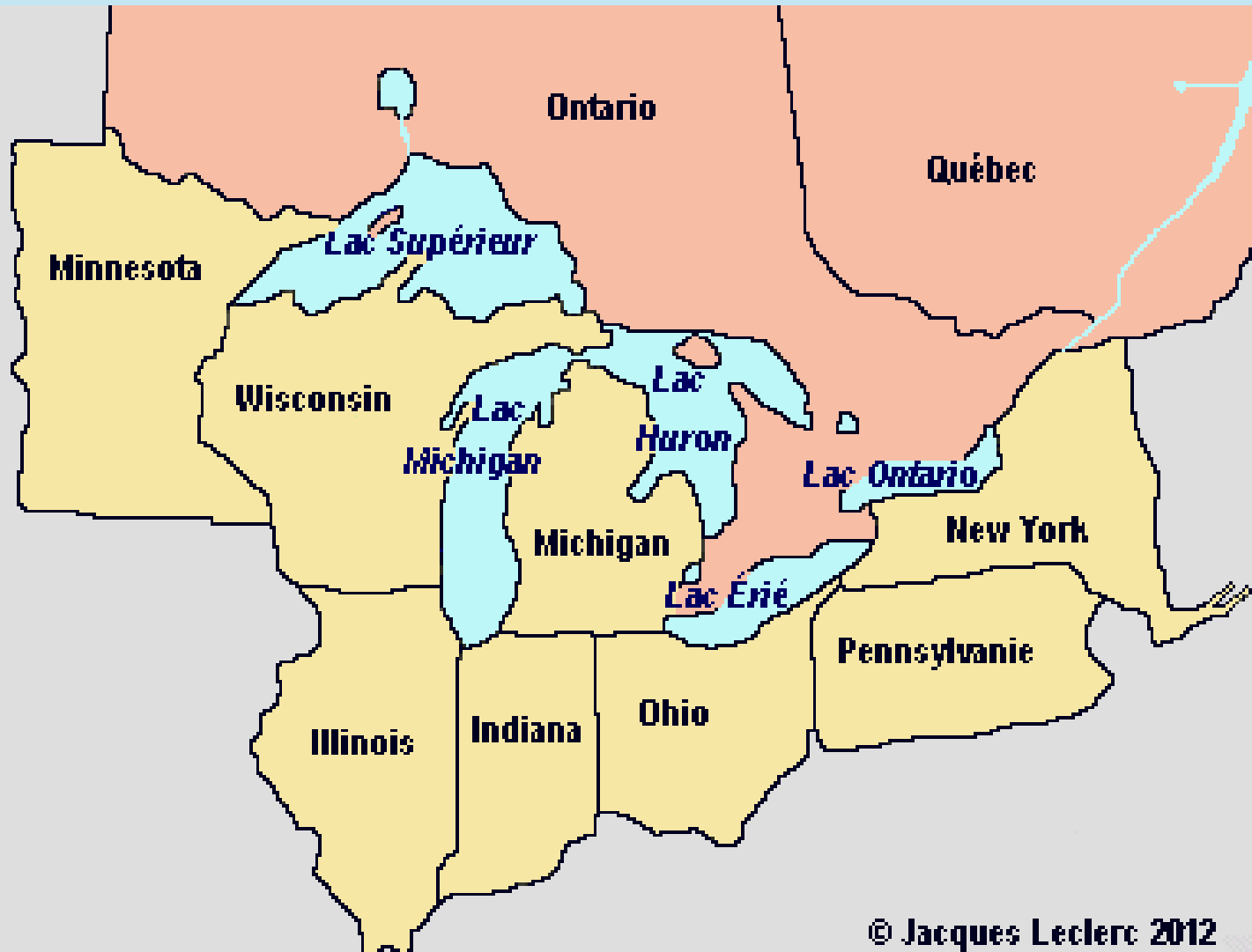
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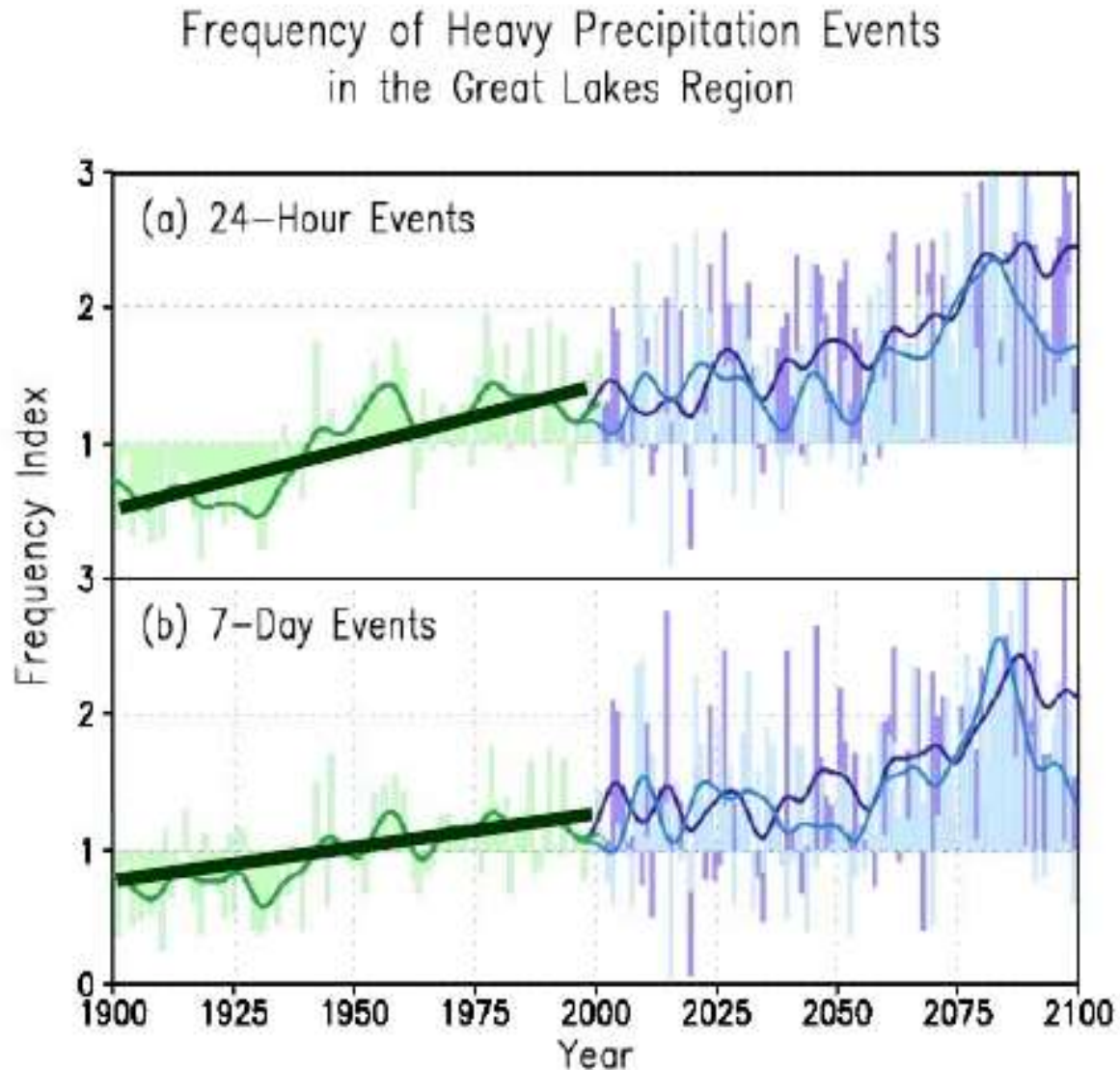
GREAT LAKES REGION



BACKGROUND

- Current infrastructure
- Additional stressors
 - Rising populations
 - Increases in impervious surfaces from urban development
 - Human-caused changes to river systems
 - More frequent severe storm events

PROJECTED PRECIPITATION CHANGES IN GREAT LAKES REGION



IMPACTS OF INCREASED RUNOFF IN THE GREAT LAKES REGION

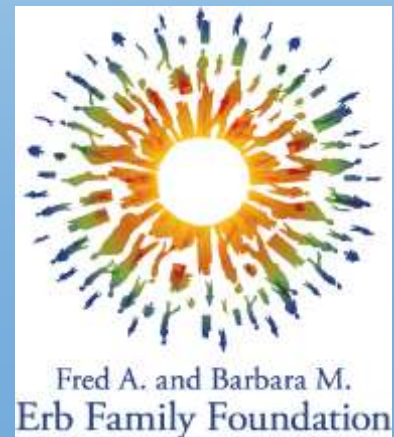
- Increased flooding
- Sewer overflows
- Nutrient runoff → harmful algae blooms
- Managing SW more challenging
- \$5 billion investment needed in SW infrastructure
- Avg. annual damages from flooding risk in the midwest : >\$500 million by 2050.

INNOVATIONS IN STORMWATER MANAGEMENT

- There is more evidence that they are needed and effective
- However, they are:
 - Slow to proliferate
 - Historically limited to pilot projects
 - Limited by gap in technology transfer

GREAT LAKES STORMWATER COLLABORATIVE: HISTORY

- Great lakes stormwater technology transfer project
 - 2-year effort between 2016 and 2018
 - Partnership between the great lakes commission and Lawrence technological university
 - Funded by the Erb family foundation
 - Started in June 2016



GREAT LAKES STORMWATER COLLABORATIVE: HISTORY

- Project goal: understand the barriers of the adoption of innovative SW management technologies and designs
- Completed a needs assessment (Oct. '16 – May '17)

GREAT LAKES STORMWATER COLLABORATIVE: HISTORY

1. Interviews

- > 40 interview with a wide range of SW professionals:
- Supply (9) , demand (23) , consultants (11)

2. Focus groups

- Mississauga, ON
- Cleveland, OH
- Appleton, WI

GREAT LAKES STORMWATER COLLABORATIVE: HISTORY

- Major barriers preventing better SW management:
 - Difficulty matching technology to needs
 - Confidence in performance of new technologies
 - Uncertainty over cost and cost/benefit ratio
 - General risk aversion
 - Missing drivers: regulations, leadership, and coordination

GREAT LAKES STORMWATER COLLABORATIVE: HISTORY

- **Collaborative kickoff workshop** – Nov. 2017
 - Leadership team was formed
 - GLSC charter was developed



GLSC CHARTER

- VISION, MISSION, OBJECTIVES
- STRUCTURE
 - Co-chairs: representative of both sides of the industry - supply and demand
 - Leadership team: 5-9 members, supports the co-chairs
 - General membership: broad industry support, wide range of stormwater professionals

COLLABORATIVE VISION

To protect the great lakes and its watershed by advancing SW technology & practices and addressing barriers between supply & demand



GLSC MISSION

- GLSC is a multi-sector binational coalition of SW management stakeholders that works to regionally address the impacts of the quantity and quality of SW, enhance ecosystem services, reduce non-point source pollution, and promote social and economic benefits of SW technology and practices. It provides a forum for networking, partnership building, and the exchange of information to advance the development, transfer, and deployment of innovative SW management technology and practices in the binational great lakes-st. Lawrence river region.

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GLSC OBJECTIVES

- A. Help match available verified innovative SW technologies & practices to the needs
- B. Build confidence in the performance of innovative SW technology & practices through education, advocacy, robust metrics, & performance standards
- C. Evaluate & promote the life-cycle costs & associated benefits (TBL & co-benefits) of innovative SW technology & practices
- D. Advance & promote post development/installed ownership, inspection, maintenance, & performance assessment of innovative SW technology & practices

GLSC OPERATING PRINCIPLES

- Broad, balanced membership across multiple sectors of SW management
- Wide range of perspectives is enabled through a collaborative process
- Decisions are made by consensus
- GLSC decisions, products or services do not necessarily reflect the opinions or positions of the agencies, organizations, or companies employing participants
- *Actions of the GLSC shall not prevent or preclude a GLSC member from taking differing positions*

BRIDGING THE GAP



- Providing fact-bound, easy to understand information about SW management
- Helping build the economic, environmental and innovation case for positive development effects of SW management
- Offering technical guidance, actual track record and data you can tailor to your local conditions

BRIDGING THE GAP

- Connecting with communities with the most similar conditions to give you the best illustrations, guidance and data on techniques, costs and benefits of alternative approaches
- Making informed, reliable decisions and navigate potential risks before they become a challenge to your goals
- Collecting, sharing and using cold weather data
- Get help addressing long term planning and life cycle costs

GLSC WORK IN PROGRESS

- MEMBERSHIP
- COMMUNICATION & WEBSITE:
WWW.GLC.ORG/WORK/GLSC
- PARTNERSHIPS: WEF, STEPP
- FUNDING
- COMMITTEES

COMMITTEES

- Executive Committee
- Communications Committee
- Funding Committee
- Spotlight Project Committee

GETTING INVOLVED

- GENERAL MEMBERSHIP
 - Open to groups & individuals that agree to fulfil GLSC mission & operating principles
 - Participate in periodic GLSC events
 - Contribute to executing the annual workplan
- COMMITTEE MEMBERSHIP
- EXCHANGE IDEAS



Thank You