

The Power of the Great Lakes Region



4,530 miles of US coastline



30 Million people



5 out of 10 leading agricultural states



160 Million Tons of Cargo transported Annually



80% of the surface freshwater in the US



Growth & Opportunity Under a Changing Climate



Agricultural Growth



Population Growth





Ag-tech/water tech/ industry growth

In neighborhoods flooding annually @ 3'SLR

History of Policy Impacts



RACIST ZONING POLICY



URBAN RENEWAL AND FHWA
"BLIGHT" REMOVAL



STATE SANCTION VIOLENCE



SUBPRIME MORTGAGE TARGETING



Overcoming History in a Changing Context

Detroit

- Detroit Climate Action Collaborative
- Detroit Climate Ordinance
- We the People of Detroit

Milwaukee

- MMSD Capital [\$35 Million]
- MMSD CSO Reduction [55/year to 2.3/Year]
- New GI RFP for a PPP to capture 50 million gallons of stormwater

For the small cities too...

Duluth, MN (pop. 86,000)

Resilient Walkway investment \$25
 Million

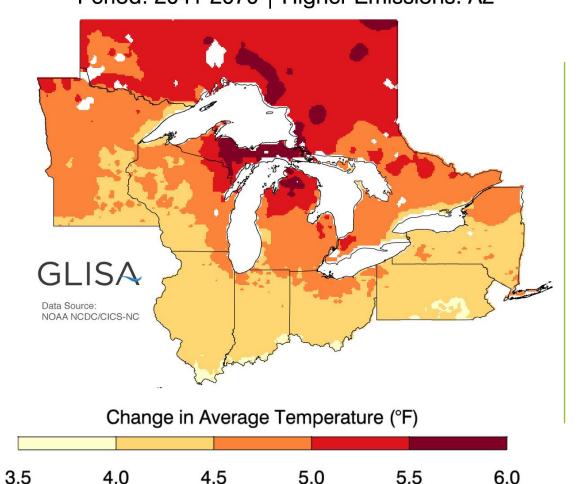
Marquette, MI (pop. 21,000)

- \$5 Million in road shift
- Civilian Conservation Corps



Changes from 1951 - 2017 We are in the change, right now.

Projected Change in Average Temperature Period: 2041-2070 | Higher Emissions: A2



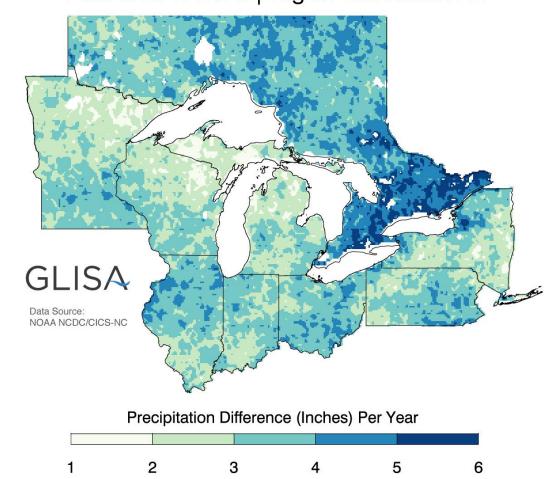
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5.5

6.0

4.0

Projected Change in Average Precipitation Period: 2041-2070 | Higher Emissions: A2



Policy Recommendation Themes



Mainstream climate.



Be proactive.



Develop lasting authority.



Elevate social equity.



Support naturebased solutions.



Facilitate local and regional action.

Specific Policy Recommendations: Policy Updates

- Modernize the Stafford Act
- Renew the National Flood Insurance Policy
- Update FEMA Disaster Funding
- Accelerate CDBG relief
- Increase and Expand Great
 Lakes Restoration Initiative
 Funding to Great Lakes
 Restoration & Resilience
 Initiative
- Maintain soil health priorities in Farm Bills

Every \$1 on resilience bears an \$11 return on investment.

- National Institute of Building Science

- Federally Mandated Resilient Building Codes and Standards
- Establishment of Resilience Revolving Loan Fund
 - (e.g. H.R. 3779: Resilience Revolving Loan Fund Act of 2019)
- Establish funding for separating legacy combined sewer systems

Support Critical Climate Programs

- NOAA's Regional Integrated Sciences and Assessments (RISA) program
- NOAA's Regional Climate Centers (RCCs)
- NOAA's National Estuarine Research Reserves (NERRS) program
- USGS Climate Adaptation Science Centers (CASC)
- USDA Climate Hubs.
- Bureau of Indian Affairs
- National Climate Assessment

Policy Recommendations in Summary







INNOVATE

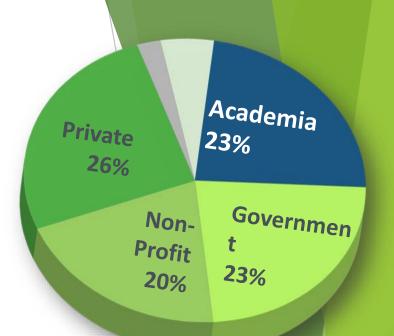


SUPPORT

American Society of Adaptation Professionals

Connecting & Supporting Adaptation Professionals to advance innovation & Excellence in the field of adaptation









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