MID-OHIO REGIONAL
MORPC
PLANNING COMMISSION

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NOTICE OF A MEETING
SUSTAINING SCIOTO BOARD
MID-OHIO REGIONAL PLANNING COMMISSION

April 27, 2022, 2:30 pm – 4:00 pm

AGENDA

2:30 pm	**Welcome –** *Glenn Marzluf, Chair*
2:35 - 2:40 pm	**MORPC Updates –** *Brandi Whetstone*
2:40 - 3:10 pm	**Presentation – Max Herzog,** *Cleveland Water Alliance* *Lake Erie Volunteer Science Network: Organizing Communities for Credible Water Monitoring*
3:15 - 3:25 pm	**Agricultural and Rural Communities Outreach Team Update –** *Brian Brandt, Team Chair*
3:25 – 3:35 pm	**Presentation – Aaron Wilson & Jason Cervenec** *Federal Grant Opportunity – Precipitation Data Modelling* *Bryd Polar & Climate Research Center*
3:35 – 4:00 pm	**Board Member Updates –** *Glenn Marzluf, Chair*
4:00 pm	**Adjourn –** *Glenn Marzluf, Chair*

Please notify Lynn Kaufman at 614-233-4189 or LKaufman@morpc.org to confirm your attendance for this meeting or if you require special assistance.

The next Sustaining Scioto Board Meeting will be on June 22, 2022, 2:30 pm – Location to be determined

William Murdock, AICP *Executive Director*
Erik J. Janas *Chair*
Chris Amorose Groomes *Vice Chair*
Michelle Crandall *Secretary*

Mid-Ohio Regional Planning Commission
Hybrid Meeting

Sustaining Scioto Board

April 27, 2022, 2:30 pm

Members Present
Larry Antosch, Ohio Farm Bureau Federation
Jessica D'Ambrosio, The Nature Conservancy
Laura Fay, Friends of the Lower Olentangy Watershed
Jennifer Fish, Franklin Soil & Water Conservation District
Chair Glenn Marzluf, Del-Co Water Co., Inc.
Jennie McAdams, Franklin County Public Health
Danella Pettenski, City of Columbus
Rob Priestas, City of Columbus
Scott Stephens, Delaware Soil & Water Conservation District
David Straub, U.S. Geological Survey
Rick Van Gundy, Village of Tarlton
Chloe Welch, Ohio EPA
Aaron Wilson, OSU, Byrd Polar & Climate Research Center

Public Present
Max Herzog, Cleveland Water Alliance
Mark McCabe, JEO Consulting Group
Connie Skinner, Trustee, Brown Township (Delaware)

Staff Present
Lynn Kaufman
Edwina Teye
Brandi Whetstone

SUSTAINING SCIOTO BOARD MEETING

April 27, 2022

MID-OHIO REGIONAL
MORPC
PLANNING COMMISSION

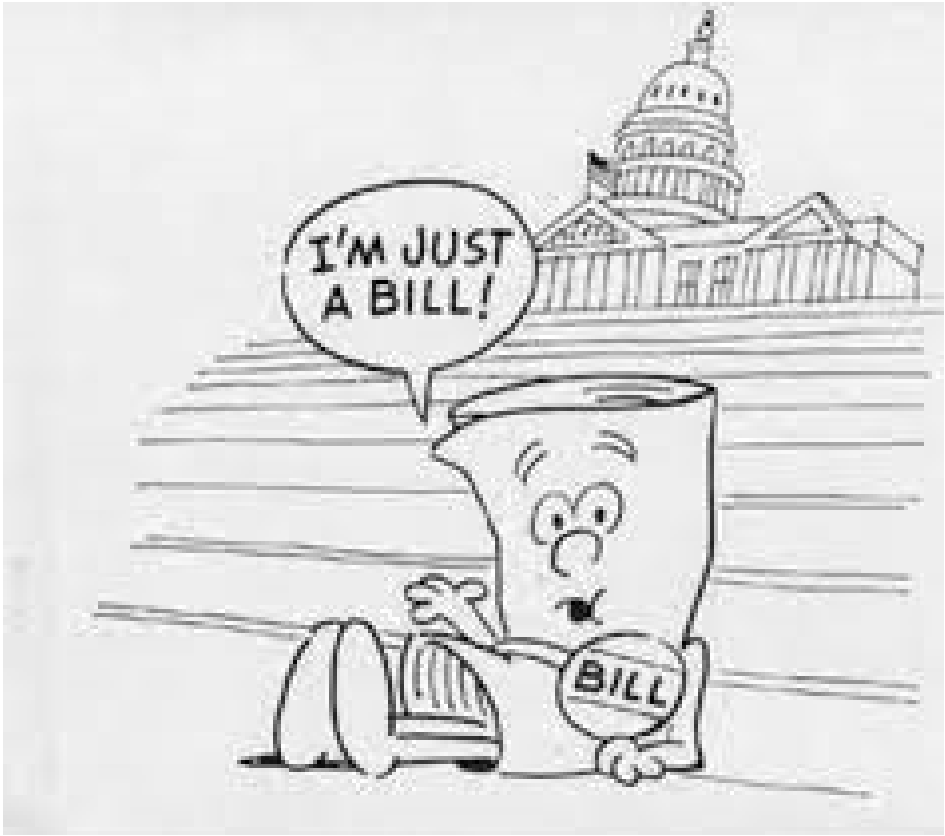
MORPC Updates

Sustaining Scioto Board
April 27, 2022

MID-OHIO REGIONAL
MORPC
PLANNING COMMISSION

LOCAL GOVERNMENT LEGISLATIVE TOOLKIT

Brandi Whetstone, MORPC
Elizabeth Ellman, City of Bexley



MORPC

SAVE THE DATE

2022

SUMMIT ON SUSTAINABILITY

Transforming Our Region

October 14, 2022
8:00 a.m. – 4:30 p.m.
Hilton Columbus Downtown

REGIONAL SUSTAINBILITY AWARDS

Nominations Open May 2nd

LEADERSHIP IN SUSTAINABILITY

COLLABORATIVE ACHIEVEMENT

LEADERSHIP IN MOBILITY

MORPC

Brandi Whetstone
Sustainability Officer
Mid-Ohio Regional Planning Commission
bwhetstone@morpc.org

MID-OHIO REGIONAL
MORPC
PLANNING COMMISSION

Featured Presentation

Max Herzog

Cleveland Water Alliance

“Lake Erie Volunteer Science Network: Organizing Communities for Credible Water Monitoring”

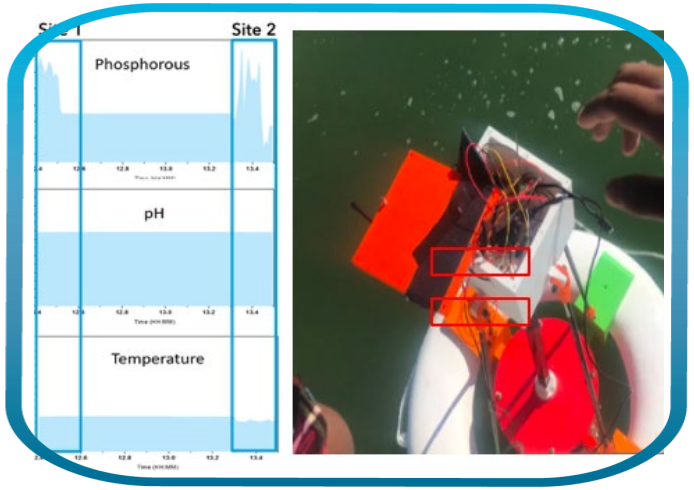
cleveland water alliance

Lake Erie Volunteer Science Network

Organizing Communities for Credible Water Quality Monitoring

PRESENTED BY:
Max Herzog
mherzog@clewa.org

We Need a “Smart Lake”



Data

- Deployed Sensors & Data Sondes
- Remote Sensing & Satellite Imaging
- Grab Samples & Volunteer Science

Information

- Analytics and Visualizations
- Notifications and Dashboards

Action

- Serving solution providers
- Engaging the public

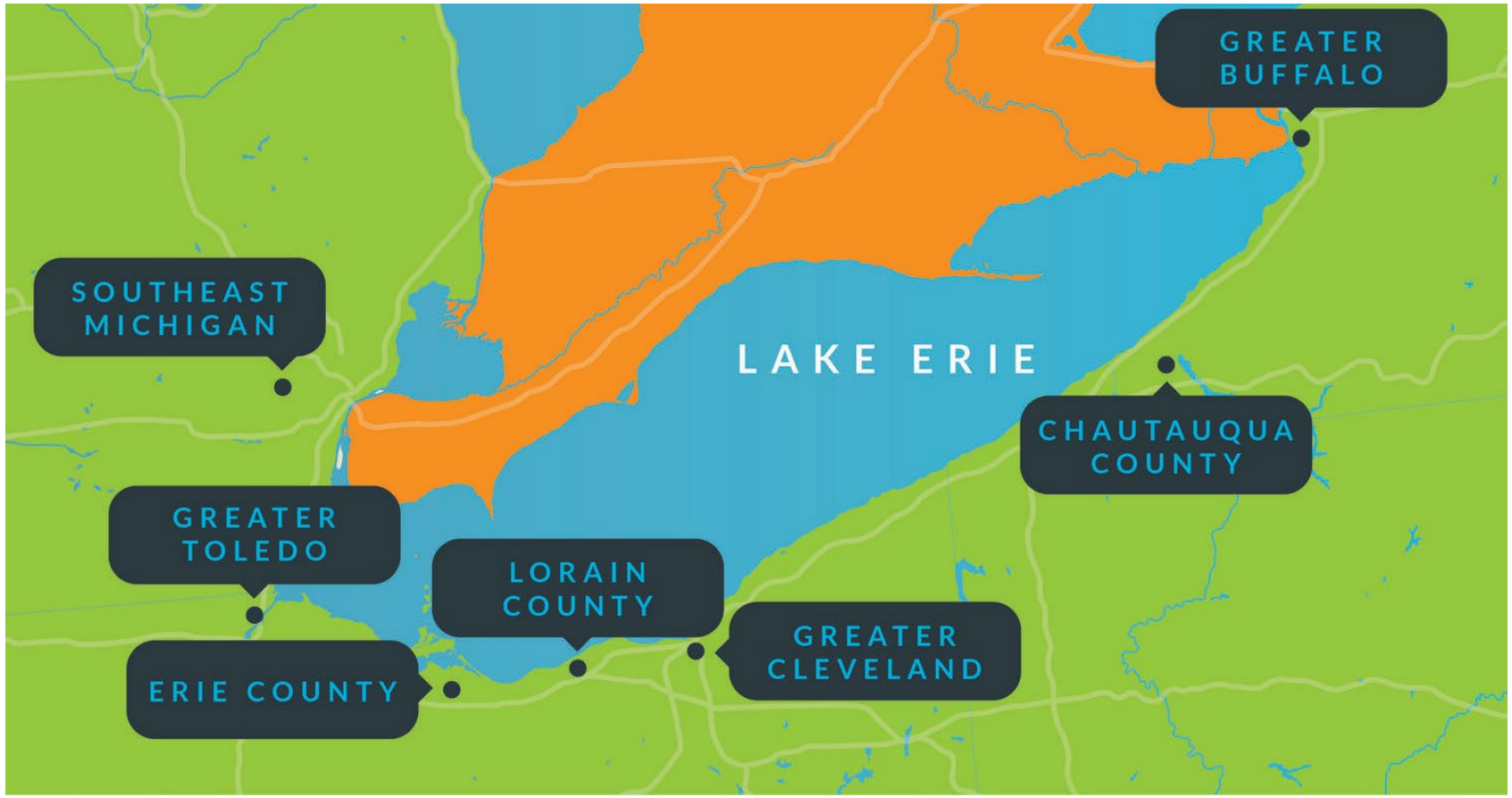
People Care About the Great Lakes

Local Groups Are Harnessing This Energy

Huron River Watershed Council

TMACOG

METROPARKS TOLEDO



BUFFALO NIAGARA WATERKEEPER

FREDONIA
STATE UNIVERSITY OF NEW YORK

Cleveland Metroparks

Lorain SWCD

ERIE Conservation DISTRICT

OLD WOMAN CREEK
NATIONAL ESTUARINE RESEARCH RESERVE

Lorain County Community College

cuyahoga SOIL&WATER conservation district

Limits to Local Focus

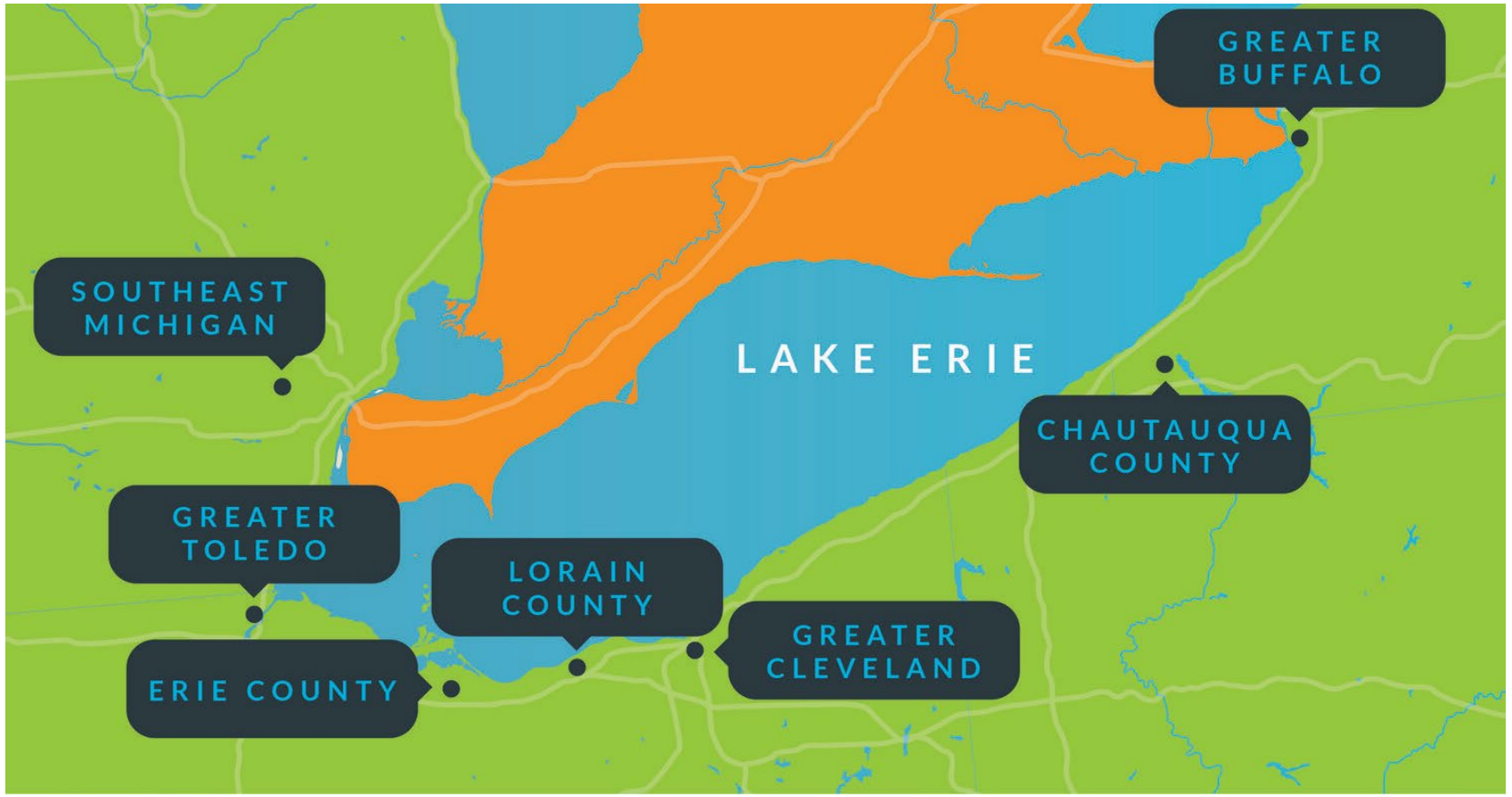
- Lack of standard protocols and methods result in fragmented and incomparable data sets
- Lack of organizational reach results in limited data visibility and discoverability
- Lack of communication between communities results in duplicated or siloed efforts

Can we unlock regional potential without losing local impact?

Huron River Watershed Council

TMACOG

METROPARKS TOLEDO



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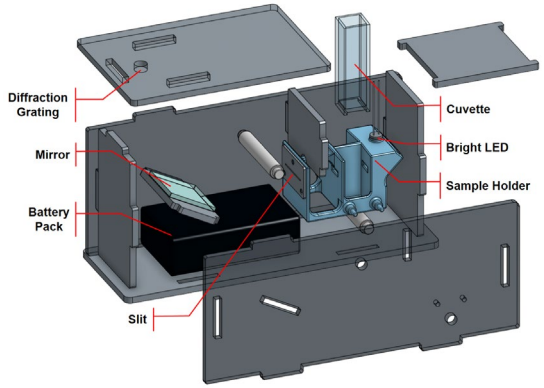
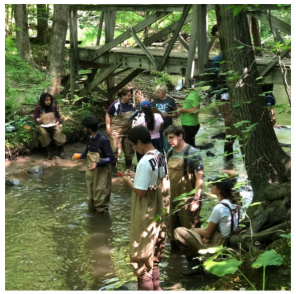
Building a Community of Practice Centered on Collective Impact

Technology Pilots

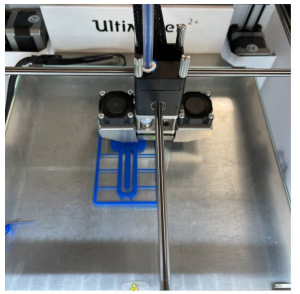


Curriculum Development

CLIMATE CHANGE AND HABS

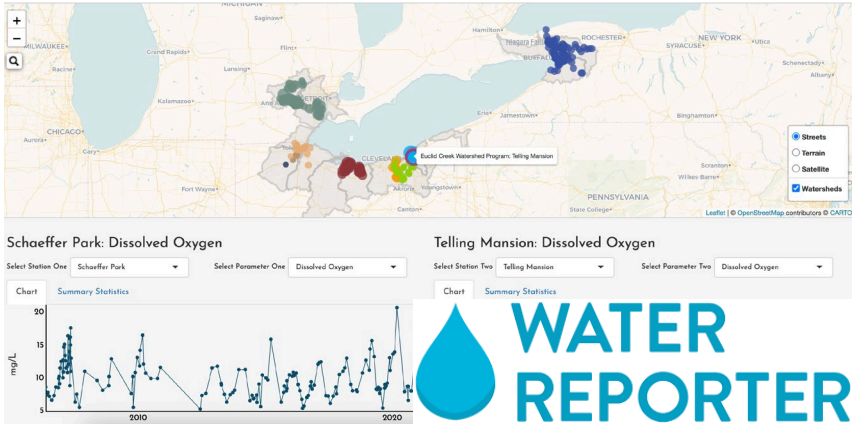


ECOSYSTEM ASSESSMENT



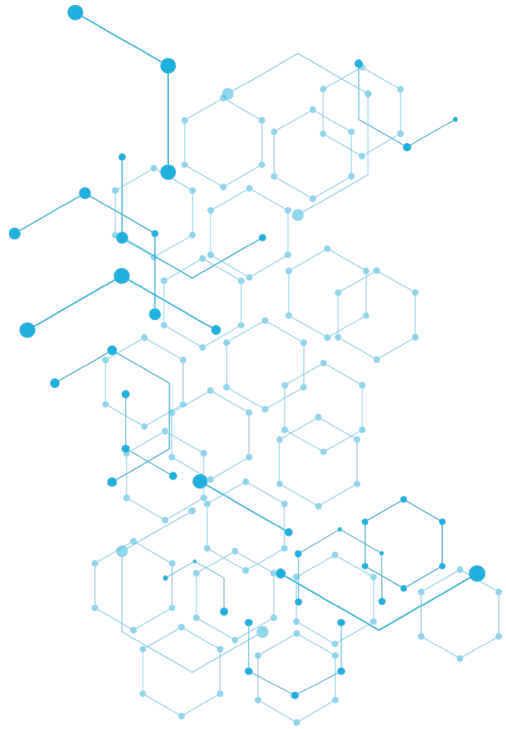
DIGITAL FABRICATION

Shared Data Platform



WATER REPORTER

Shared Approach to Data Standardization



- Audited local programs and surveyed data users to identify shared purposes and priorities as well as low-hanging fruit
- Consensus around assessing baseline watershed condition for engagement, planning, and early issue identification
- Initial focus on standardizing basic water chemistry collection methods across the region (Conductivity, DO, pH, Temp)
- Established a process and set of stakeholders that will build in other parameters and standardizations over iterations

Water Data Collaborative

Growing and Evolving

- Piloting first iteration of this standardized approach with 13 volunteer science programs across three states
- Organizing opportunities for the volunteer science and professional science communities to connect
- Working with IJC Water Quality and Science Advisory Boards to develop a GL regional roadmap to support best practices
- Synergy with other CWA projects: Technology Testbeds, Smart Lake Erie Initiative, LE Research Consortium

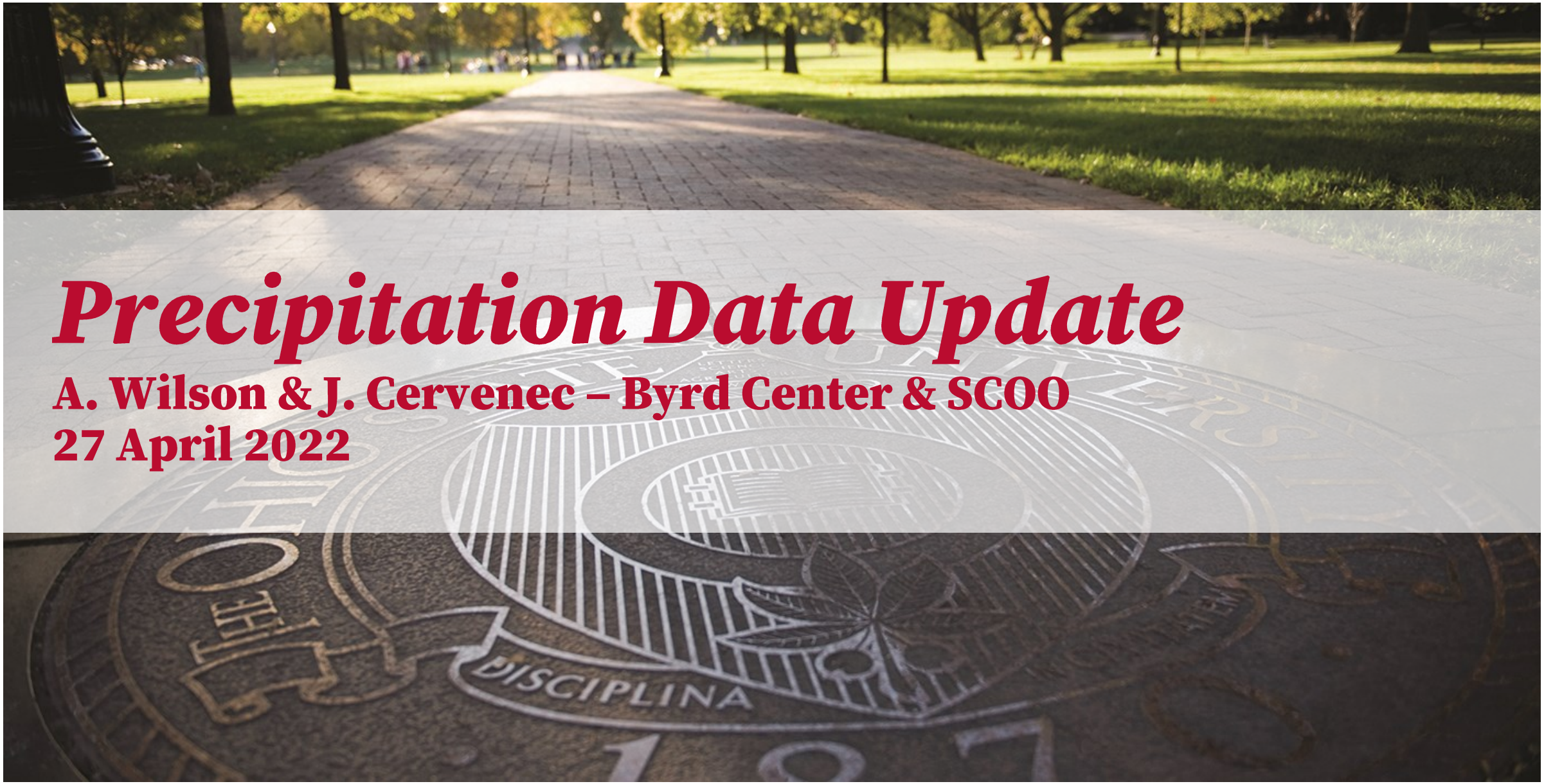
Thank You!

Max Herzog, Cleveland Water Alliance
mherzog@clewa.org

Featured Presentation

Dr. Aaron Wilson & Dr. Jason Cervenec
Byrd Polar & Climate Research Center

“Federal Grant Opportunity – Precipitation Data Modelling”



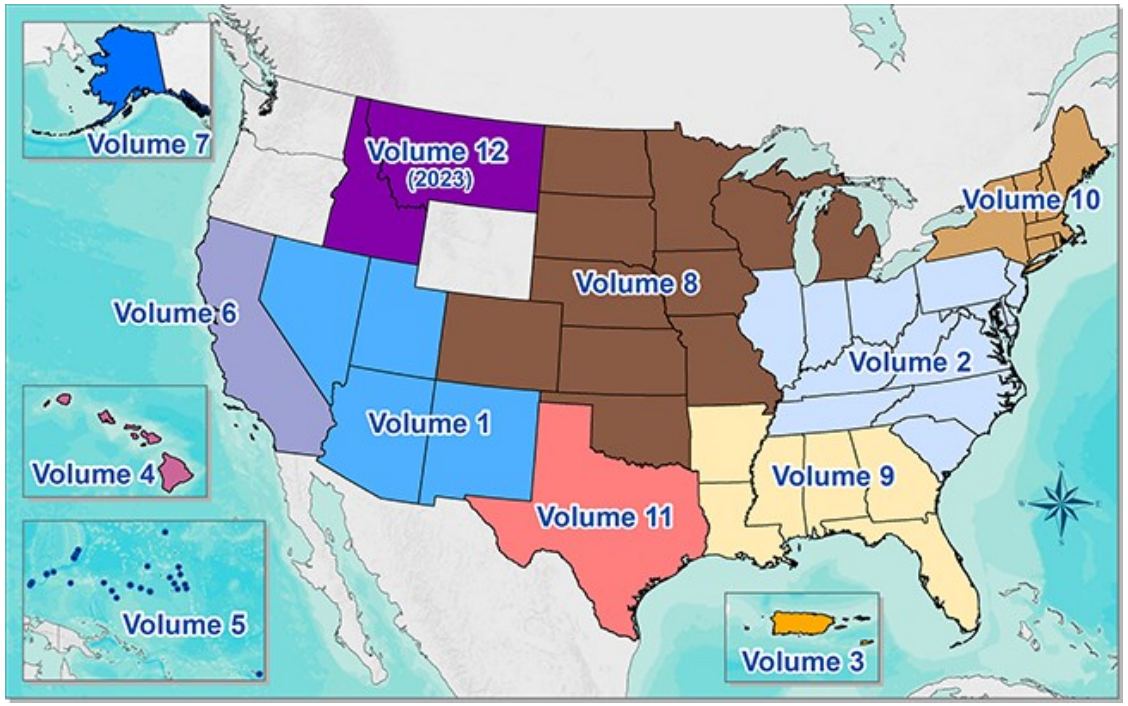
Precipitation Data Update

A. Wilson & J. Cervenec – Byrd Center & SCOO

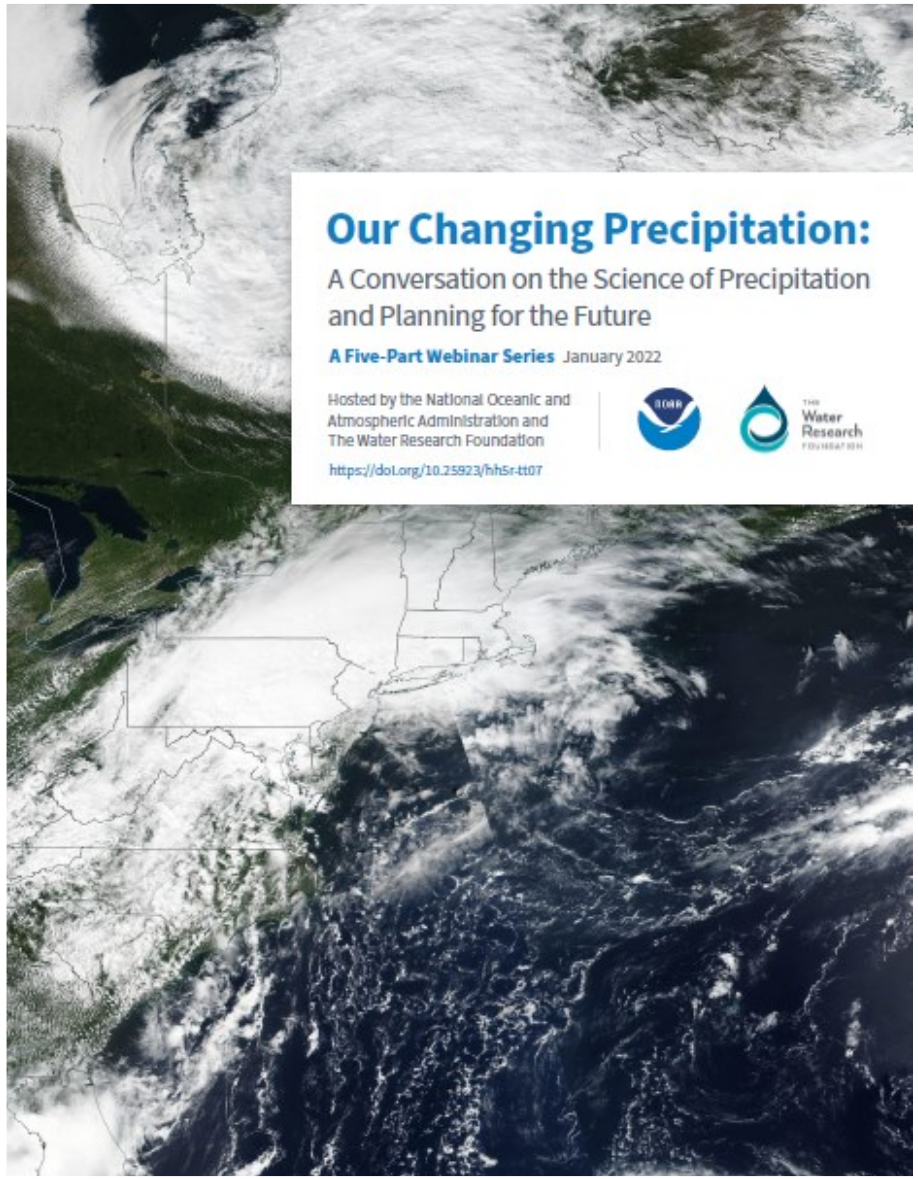
27 April 2022

Review

- Concerns have been raised from several communities and agencies across Ohio on the need to update precipitation guidance needed for development, infrastructure design, etc.
- NOAA-Atlas 14: The official peer-reviewed record of precipitation frequency estimates for the United States and affiliated territories is produced by the NWS Office of Water Prediction.
- Atlas 14 information quantifies the precipitation amount, at a particular location and for a given duration, that qualifies as a “NN-year” precipitation event (i.e., has a 1-in-NN chance of being exceeded in any given year)
- NOAA Atlas 14 is not funded by Congressional appropriations, but rather by affected states and other users on a cost-reimbursable basis.



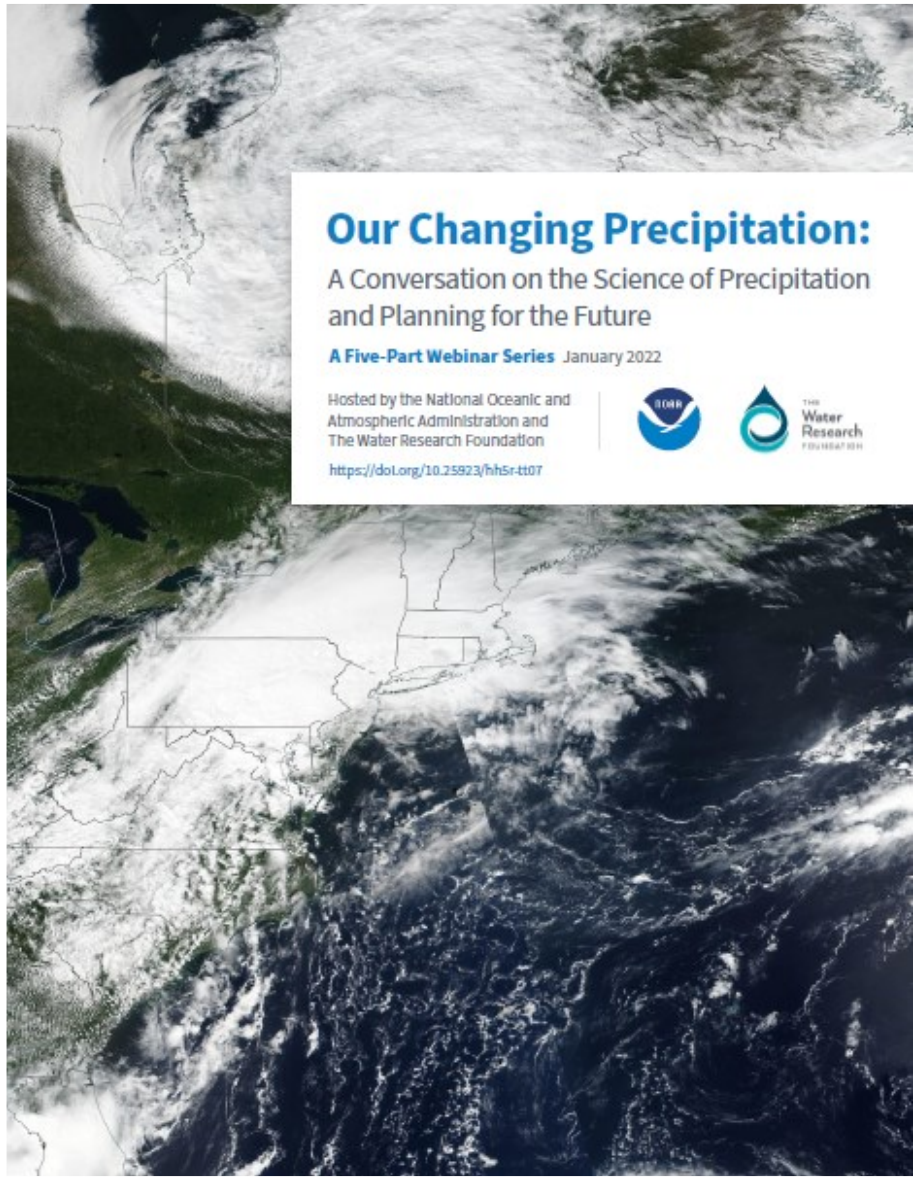
- Volume 2 - The records of these stations extend through December 2000 and average 63 data years in length for daily stations and 40 data years for hourly.
- MORPC Precipitation Forum in May 2021
- SCOO Letter to Governor’s Office in late 2021



https://repository.library.noaa.gov/view/noaa/37601

National Effort Summary

- NOAA Atlas-14 based on a concept of temporal stationarity which assumes that the extreme precipitation events do not change significantly over time (https://hdsc.nws.noaa.gov/hdsc/files25/NA14_Assessment_report_202201v1.pdf)
- Assessment recommendations
  - Timely updating of Atlas 14 or its equivalent;
  - Incorporating nonstationarity using observational data;
  - Considering future climate change and conducting risk assessments for planning long-lived infrastructure;
  - Improving accuracy of climate models for precipitation predictions.



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National Effort Summary

- "State and local planners are urgently calling for NOAA to update Atlas 14 or its successor as it is the authoritative source for precipitation statistics cited in state and local codes nationwide for designing stormwater and other water infrastructures. States, water utilities, and engineering firms want NOAA to continue to be an authoritative source by improving availability and use of precipitation statistics in three ways:
  - Update NOAA Atlas 14 (or its successor) nationwide at least every 5–10 years using the most updated observations (FLOODS Act/PRECIP ACT – In Committee);
  - Update NOAA Atlas 14 methodology to incorporate nonstationarity; and
  - Provide guidance on evaluating future statistics under climate change, for mid-century and end-of century.

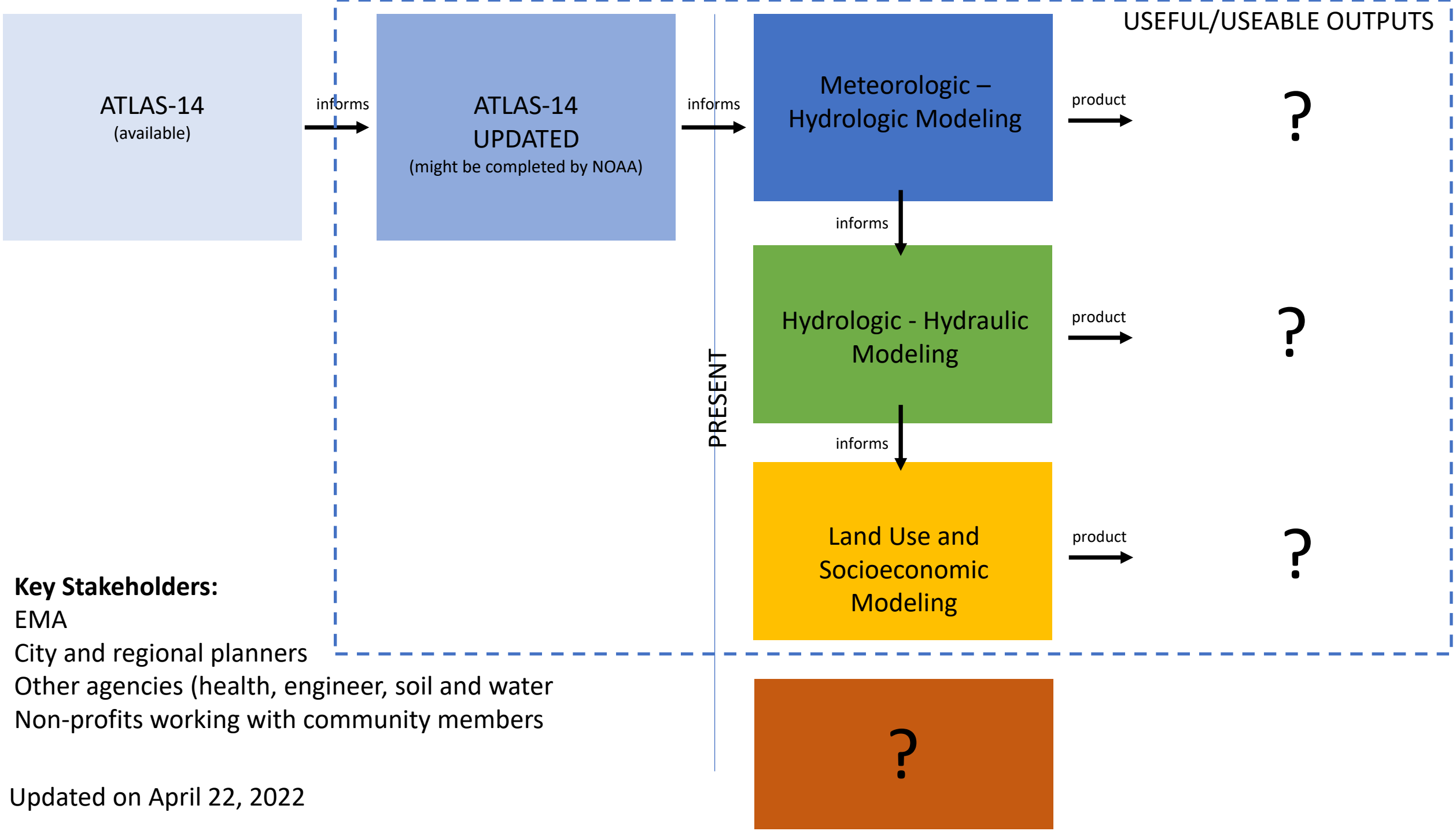
Latest Local Effort

- NSF: The Civic Innovation Challenge (CIVIC) is a research and action competition that accelerates the transition to practice of foundational research and emerging technologies into communities through civic-engaged research.

- By addressing priorities at the local scale that are relevant across the US, CIVIC is laying the foundation for a broader and more fluid exchange of research and technology capabilities and civic priorities through joint partnerships involving civic stakeholders and the research community.

- CIVIC funds projects that pilot state-of-the-art solutions over 12 months, following a six-month planning phase, and have the potential for lasting impact in the partnering community as well as the potential to be scaled and implemented in other communities.

- NSF CIVIC is a funding stream that incentivizes researcher to work with practitioners to deploy readily available knowledge and tools to communities to have lasting impact. Phase 1 grants fund involves dialogue and planning in service of submitting a Phase 2 grant to implement. Phase 1 is 5 months and phase 2 is 10 months, so the turnaround is rapid.



Key Stakeholders:
EMA
City and regional planners
Other agencies (health, engineer, soil and water
Non-profits working with community members

Updated on April 22, 2022

Glenn Marzluf
Chair
Sustaining Scioto Board
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