

welcome



WELCOME



Goals for Tonight:

- 1. Introduction to the *Resilient Bridgman* Project
- Learn from experts
 Presentations on the impacts of climate variability and coastal resilience, lake dynamics and coastal erosion
- 3. Ask questions and begin a community conversation





LIAA is a Section 501(c)3 nonprofit corporation created in 1993 to stimulate & support greater civic engagement.

Our mission statement is:

Helping people shape better communities through:

- participation,
- education,
- information &
- the effective use of technology







What is Resilient Bridgman?

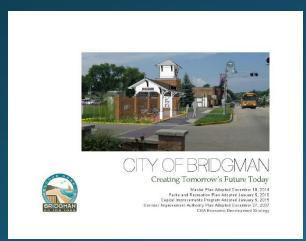
Resilient Bridgman is a new land use planning and community development project for the City



The <u>purpose</u> of the project is to:

- Engage citizens, public officials and community stakeholders
- Establish a vision for the City
- Develop a new Master Plan

Why do we need a New Master Plan?



Last comprehensive update to the Master Plan (2014)

What is a Master Plan?

A formal policy guide or "blueprint" for community development

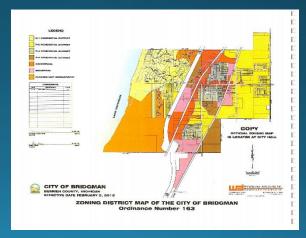
A formal assessment of the strengths & weaknesses of the community

Through civic engagement, it's the expressed vision for the future of the community

A flexible document - should respond to changing conditions, innovations, new information









How is a Master Plan used?

Basis for land use regulation (e.g., zoning)

Guides decisions on development and public capital improvements

Provides support and improves eligibility for potential projects

- Grant Requests
- Millage
- Special Assessments

Provides a guide for the conservation of community resources and quality of life

Positions community to meet future challenges











Why is this Master Plan effort unique?

RESILIEMT BRIDGMAN

Planning for a <u>Resilient</u> Bridgman Learning, Adapting & Thriving

A different way of viewing the master plan process, focusing on the cooperative preparation, adaptation and the creative development of community systems in the face of changing conditions and circumstances.

What changing conditions and circumstances?

Rapidly changing economy

Population shifts

Extreme weather events and climate variability

Changes in health, lifestyle and financial stability

The next unknown shift







Road damage on Lake Michigan Drive near Ludington due to runoff from the June 12, 2008 storm that dumped 10 inches of rain in 12 hours. Photo: Chris Pierce

Floodington

On June 12, 2008, a massive storm inundated the city of Ludington, Michigan with 10 inches of rain in 12 hours. The rain flooded waterways and caused erosion that damaged numerous roads and infrastructure, including the sewer main that carries 90 percent of the city's sewage. The storm sent large amounts of debris and sediment into the harbor, and beaches and boat launches were closed due to contamination. The storm cost the city nearly \$400,000 in emergency repairs and clean-up, and hundreds of homeowners reported basement flooding and wind damage.





If the Bridgman Community can plan and prepare for change, they can reduce exposures and increase their adaptive capacity; that is, communities can develop greater **resilience**.

Community Resilience Is:

- The capacity to withstand disruptions & shocks (i.e., take the hit)
- 2. The capacity learn from adversity and adapt quickly to new circumstances

Acknowledging Community Challenges



Climate Change and Variability

Potential Impacts and Challenges

- Increases in winter and spring precipitation
- Less precipitation as snow and more as rain
- Less winter ice on lakes
- Greater frequency and intensity of storms
- More flooding events and risk of erosion
- Increases in frequency and length of severe heat events
- Increased risk of drought, particularly in summer

Rivers, Streams and Lakes

Decline in cold water fish - changing fisheries

Increases in stormwater runoff

Lower lake levels

Plants and Wildlife

Increase in invasive species that damage trees and plants

Changes in tree species able to survive Extended growing seasons

Energy & Industry

Increase in electrical demand Reduced water availability

Transportation

Increased damage to roads and other infrastructure

Public Health

Increased risk of illness due to heat Increased risk of water contamination Increased risk of vector diseases



Pirates beat Tigers again

SPORTS, 1B



Movie legend Lauren Bacall dies at 89

OBITUARY, 2A

Creditor bares teeth in Chap. 9 objection

City lawyer disputes Syncora claim of 'conflicted' mediators

> BY CHAO LIVENGOOD The Ostroit News

The financial insurance vi-



August 11th 2014 Metro Detroit - 6 inches of rain in 36 hours





Image: NOAA



Photo: Detroit News



Photo: Detroit News



Impacts to Community Systems continue to be significant



Access and Transportation







Public Services and Community Health





Natural Areas



Businesses and Neighborhoods

Warren, one of the communities hardest hit by the flooding, estimated \$231 million in total property damage to 22,782 affected homes and buildings.



General Approaches to Building Community Resilience



There are a number of "pathways" to greater resilience:

- Prepare for Climate Variability & Extreme Weather
- ☐ Increase Energy Efficiency & Renewable Supplies
- Renew & Strengthen Infrastructure(e.g., green infrastructure/ecosystem services)
- Strengthen the Local Economy (e.g., diversify, increase local production)
- Build Social Connections & Social Capital

Planning for Resilient Communities **Program Partners**















Project Grant Support from: @GL





Coastal Zone Management, MDEQ

Planning for Resilient Communities



Why are we here?

- To provide community assistance in planning with the most up-to-date information & processes.
- 2. To demonstrate these techniques for adoption and use by other communities.

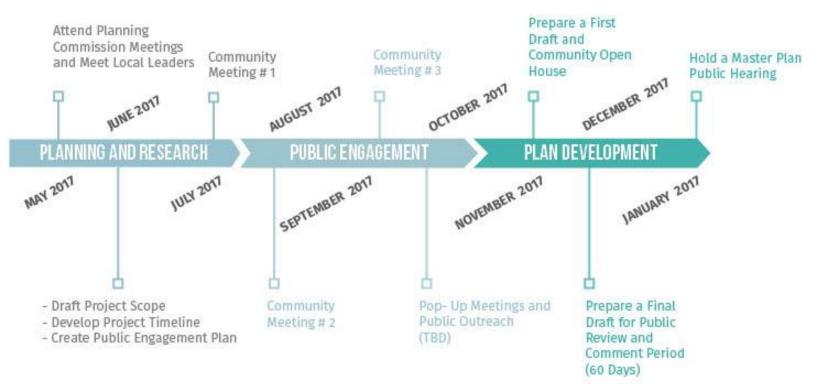
What's in it for the Bridgman Community?

- The opportunity to complete the required 5-year master plan review.
- The opportunity to receive detailed information, analysis, and support.

What's in this bargain?

You get assistance in exchange for thoughtfully considering new ideas and approaches. You are **NOT** obligated to adopt them. You choose what you want.





Opportunities for Public Involvement

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Citizen Engagement

- Meeting with students (once school is back in session)
- Community Stakeholder Meetings
- About Town
- Public Meetings







Opportunities for Public Involvement

Kick-Off Meeting (7:00 p.m.)

Monday, July 31st - Weko Beach House



Public Meeting (7:00 p.m.)
Thursday, August 17th – Weko Beach House

Public Meetings (7:00 p.m.)
Tuesday, September 12th – Weko Beach House

Open House (6:30 pm - 8:00 p.m.)
TBD

Public Hearing
TBD

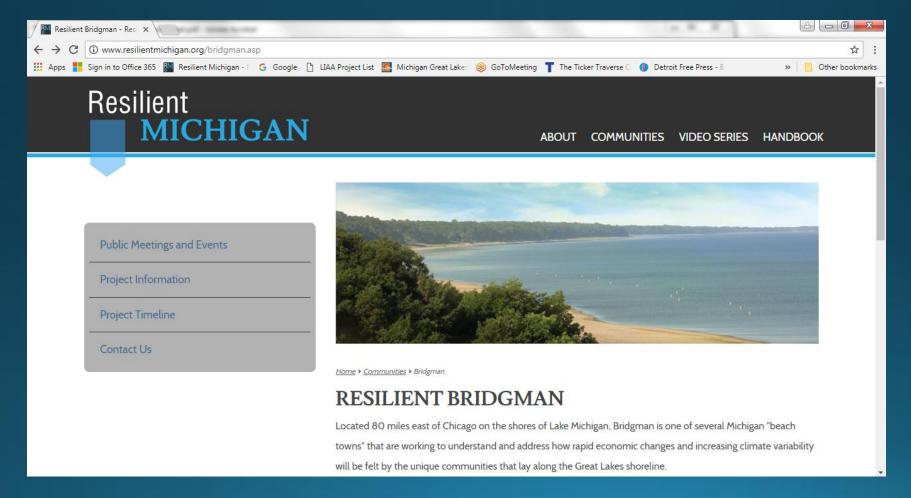


All Events Open to the Public

Resilient Bridgman Opportunities for Public Involvement

RESILIENT BRIDGMAN

Project Website www.resilientmichigan.org/bridgman



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Project Website www.resilientmichigan.org/bridgman

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www.resilientmichigan.org/bridgman

SIGN IN SHEET // MONDAY JULY 31 2017



What is Community Resilience?

community Resilience is a measure of the long-term ability of a community to utilize available resources to respond to, withstand, and recover from adverse situations. Communities that are resilient are able to learn from adversity and adapt quickly to change.

Please share your email address for project updates, news, and public input opportunities!





Featured Speakers

- 1. Dr. Richard Norton, Ph.D.

 Professor, University of Michigan School of Urban Planning
- 2. Guy Meadows, Ph.D.

 Director, Great lakes Research Center, Michigan Tech. University



Brain Storming Exercise

Brainstorming Exercise Instructions

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- 1. Using the flip-charts and maps: (15 min)
 - a. List assets on flip-chart
 - b. Label assets with red dot on map
- 2. Using the sticky notes: (15 min)
 - a. What are the strengths of the community? (yellow notes)
 - b. What/where can the community improve? (blue notes)

- 3. Using the flip charts: (15 min)
 - a. Key words and phrases describing community vision

4. Report Out (15 min)



Thank You For Coming!

www.resilientmichigan.org/holland