

A Guide to Climate Adaptation Resources for City Planning

Outline

Environmental Justice

- Climate and Economic Justice Screening Tool
- EJSCREEN Environmental Justice Screening and Mapping Tool
- Environmental Sensitivity Index

Coastal Resources

- Coastal Flood Exposure Mapper
- Great Lakes Coastal Wetland Decision Support Tool
- Coastal County Snapshots
- Coastal Restoration Toolkit
- Great Lakes Coastal Resilience Planning Guide

Risk Resources

- Substantial Damage Estimator
- Populations at Risk
- Environmental Resilience Institute Toolkit (ERIT)
- Environmental Resilience Tools Wizard
- Resilience Metrics
- Risk Mapping, Assessment, and Planning (Risk MAP) Program

Climate Change Resources

- Template for Assessing Climate Change Impacts and Management Options (TACCIMO)
- Climate Adaptation Knowledge Exchange
- Climate Explorer
- G-WOW (Guiding for Tomorrow) Changing Climate, Changing Culture Initiative

Tribal Resources

- Indigenous Health Indicators Tool
- Tribal Climate Change Adaptation Planning Toolkit
- Dibaginjigaadeg Anishinaabe Ezhitwaad: A Tribal Climate Adaptation Menu

Community Planning

- Green Infrastructure Benefits Handout
- Rapid Vulnerability & Adaptation Tool for Climate-Informed Community Planning
- Federal Crowdsourcing and Citizen Science Toolkit
- Engaging Socially Vulnerable Communities and Communicating About Climate Change

Resource Categories

Color coded and indicated on the resource description

Interactive Map

Interactive Website

Guidebook

Software

Statement of Purpose

This document is intended to be used by municipalities and city planners to use when planning for climate change adaptation. These resources are taken from the Climate Tools Inventory spreadsheet and presented here in a more accessible format for concerned parties to use. I hope this document is used in collaboration with Ottawa's Biosphere Region.

Environmental Justice	Coastal Resources	Risk Resources	Climate Change Resources	Tribal Resources	Community Resources
Climate and Economic Justice Screening Tool EJSCREEN Environmental Justice Screening and Mapping Tool Environmental Sensitivity Index	Coastal Flood Exposure Mapper Great Lakes Coastal Wetland Decision Support Tool Coastal County Snapshots Coastal Restoration Toolkit Great Lakes Coastal Resilience Planning Guide	Substantial Damage Estimator Populations at Risk Environmental Resilience Institute Toolkit (ERIT) Environmental Resilience Tools Wizard Resilience Metrics Risk Mapping, Assessment, and Planning (Risk MAP) Program	Template for Assessing Climate Change Impacts and Management Options (TACCIMO) Climate Adaptation Knowledge Exchange Climate Explorer G-WOW (Guiding for Tomorrow) Changing Climate, Changing Culture Initiative	Indigenous Health Indicators Tool Tribal Climate Change Adaptation Planning Toolkit Dibaginjigaadeg Anishinaabe Ezhitwaad: A Tribal Climate Adaptation Menu	Green Infrastructure Benefits Handout Rapid Vulnerability & Adaptation Tool for Climate-Informed Community Planning Federal Crowdsourcing and Citizen Science Toolkit Engaging Socially Vulnerable Communities and Communicating About Climate Change

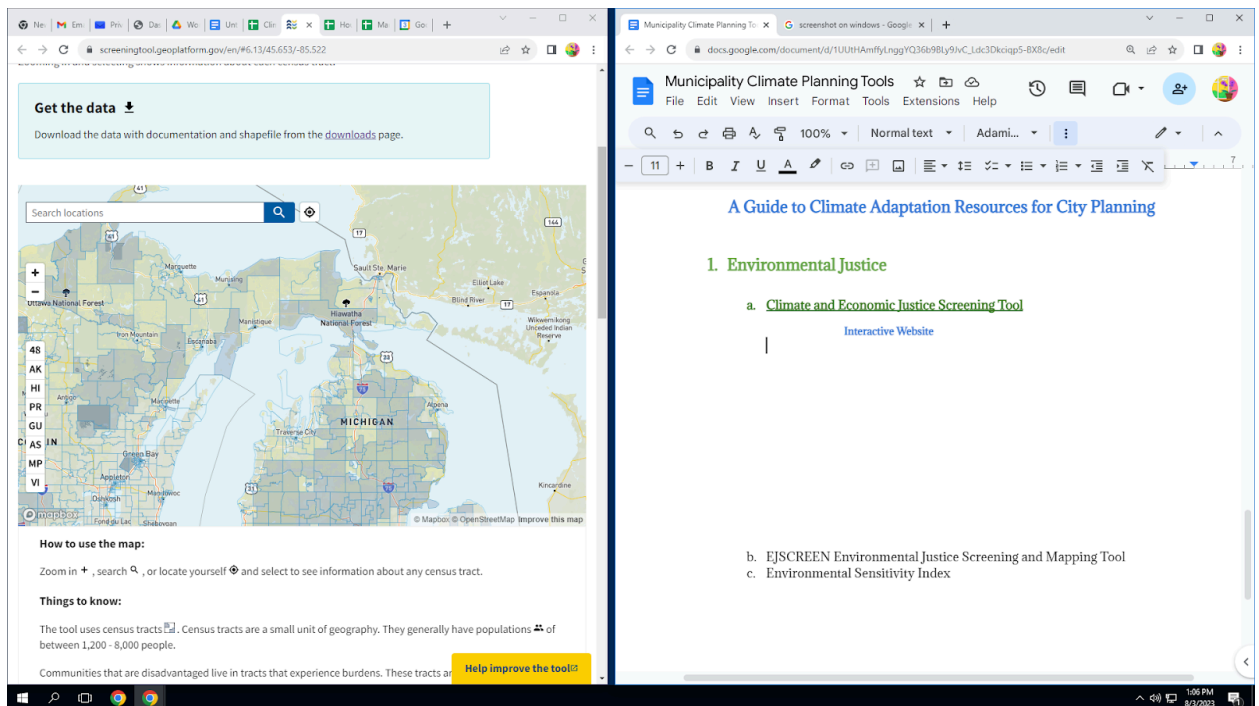
Environmental Justice

[Climate and Economic Justice Screening Tool](#)

Category: [Interactive Website](#)

Contact: Council on Environmental Quality, Screeningtool-Support@omb.eop.gov

[Preview of site](#)



Use for: Identifying disadvantaged communities by counties across the US , has information on demographics, race, and population . Information on climate change : expected agriculture loss rate, building loss rate, population loss rate, flood risk, wildfire risk, and low income.

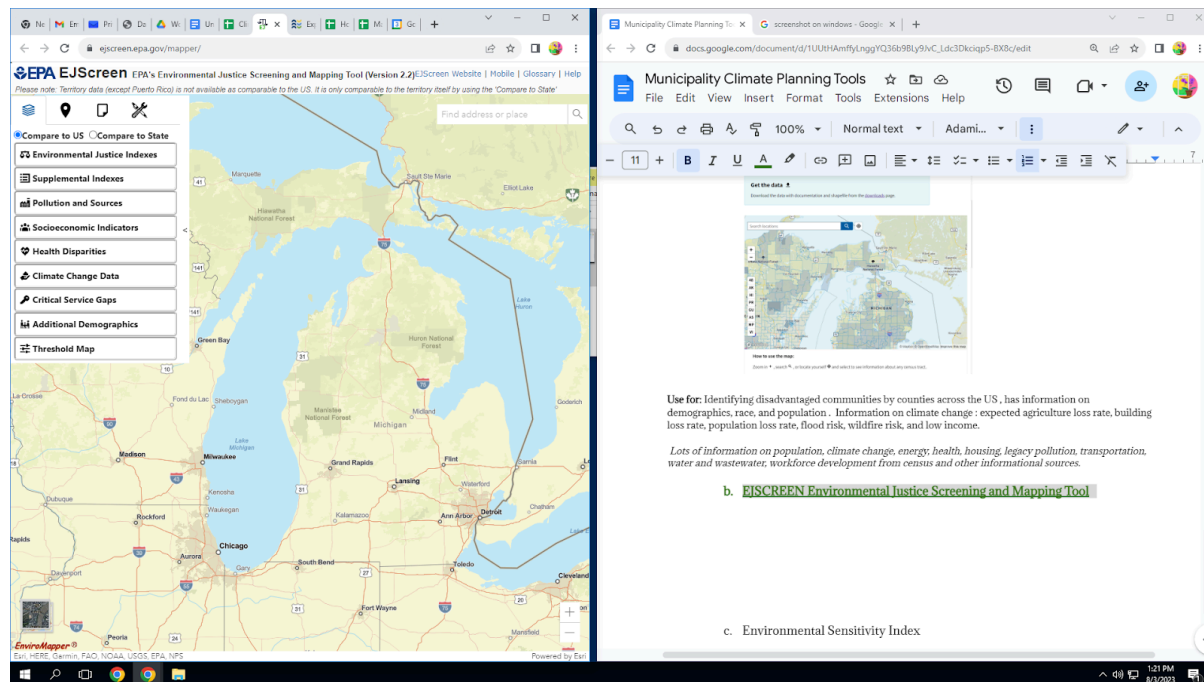
Lots of information on population, climate change, energy, health, housing, legacy pollution, transportation, water and wastewater, workforce development from census and other informational sources.

EJSCREEN Environmental Justice Screening and Mapping Tool

Category: [Interactive Website](#)

Contact: Dominique Joseph: joseph.dominique@epa.gov

Preview of site

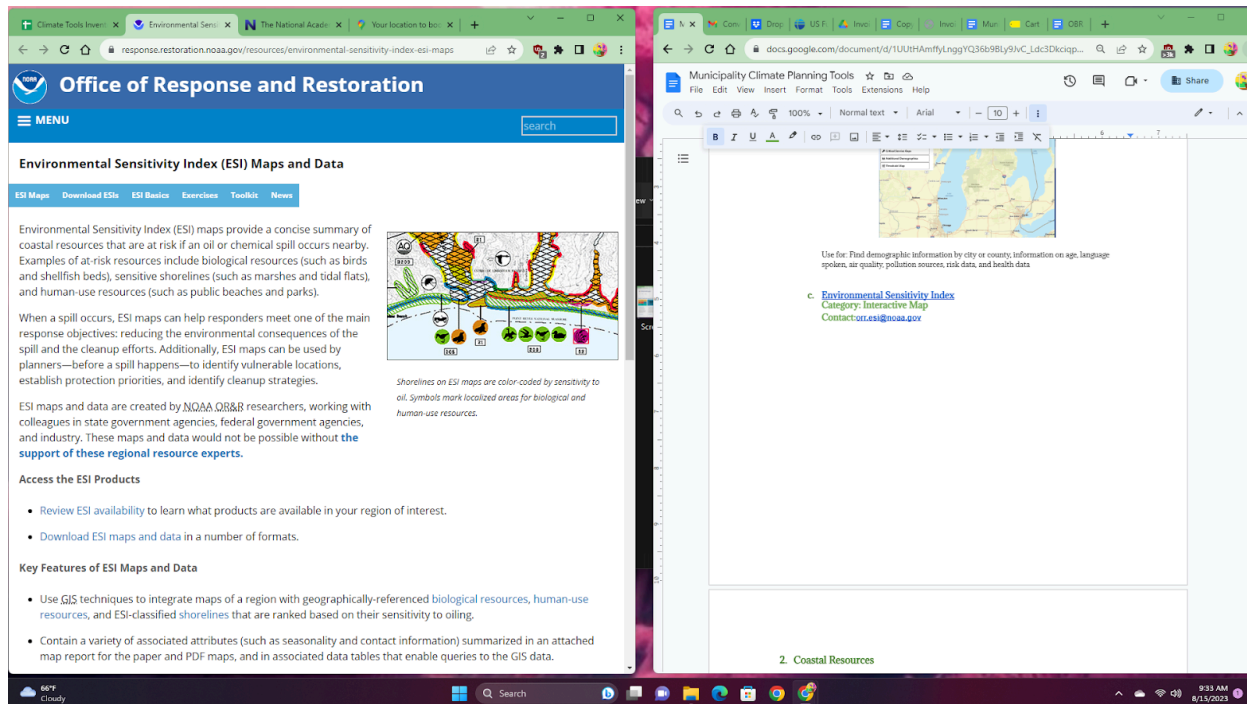


Use for: Find demographic information by city or county, information on age, language spoken, air quality, pollution sources, risk data, and health data

Environmental Sensitivity Index

Category: Interactive Map

Contact: orr.esi@noaa.gov



Use for: Coastal city planning to assess hazards and risk of disaster and highlights at risk resources.

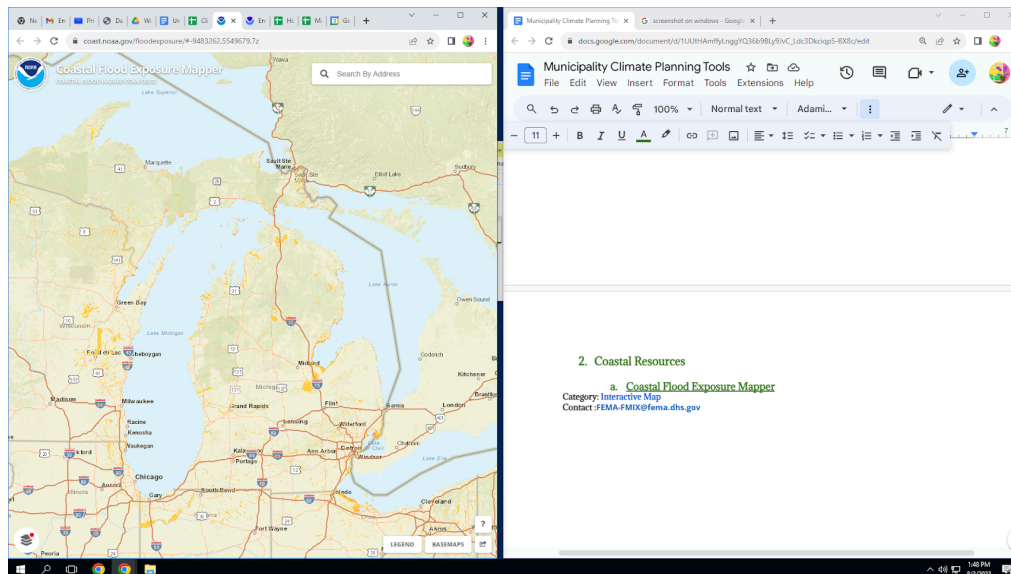
Coastal Resources

Coastal Flood Exposure Mapper

Category: Interactive Map

Contact : FEMA-FMIX@fema.dhs.gov

Preview of site



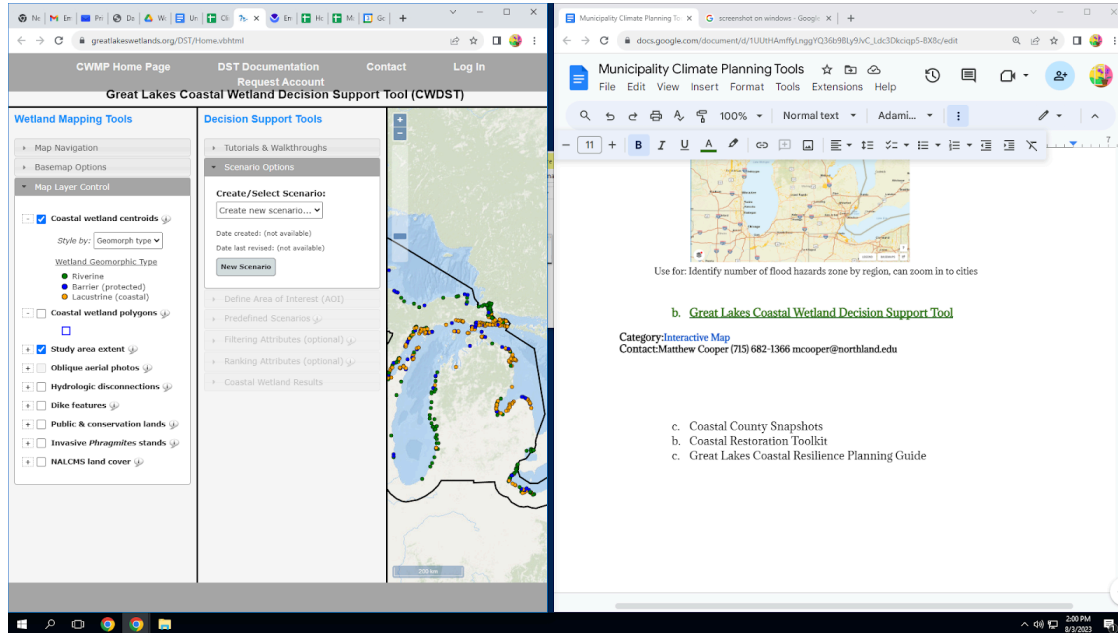
Use for: Identify number of flood hazards zone by region, can zoom in to cities

[Great Lakes Coastal Wetland Decision Support Tool](#)

Category: [Interactive Map](#)

Contact: Matthew Cooper (715) 682-1366 mcooper@northland.edu

[Preview of site](#)



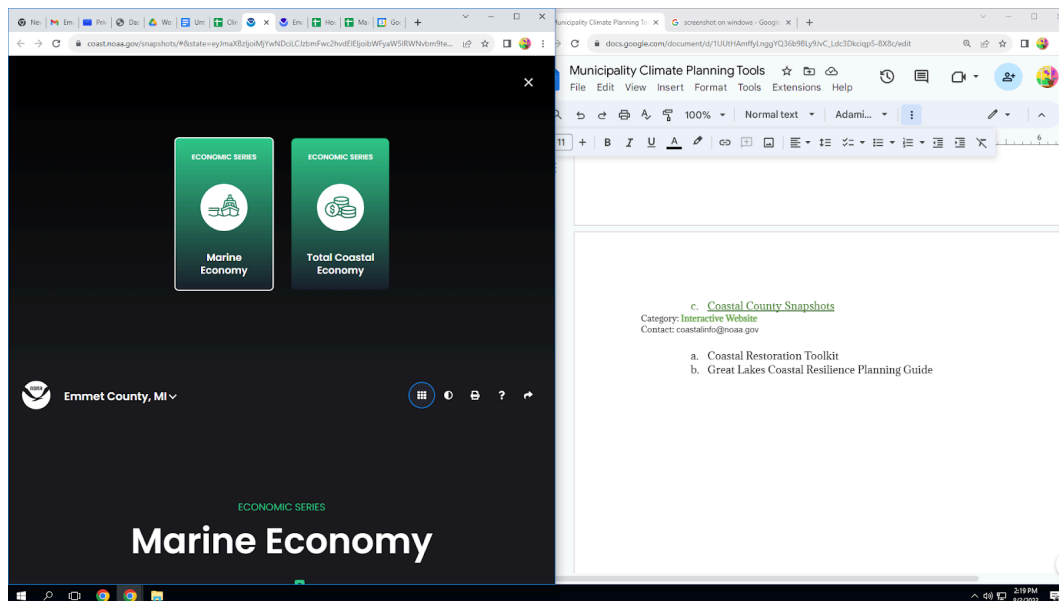
Use for: Identify wetlands for restoration by clicking on sites and create scenarios

[Coastal County Snapshots](#)

Category: [Interactive Website](#)

Contact: coastalinfo@noaa.gov

[Preview of site](#)



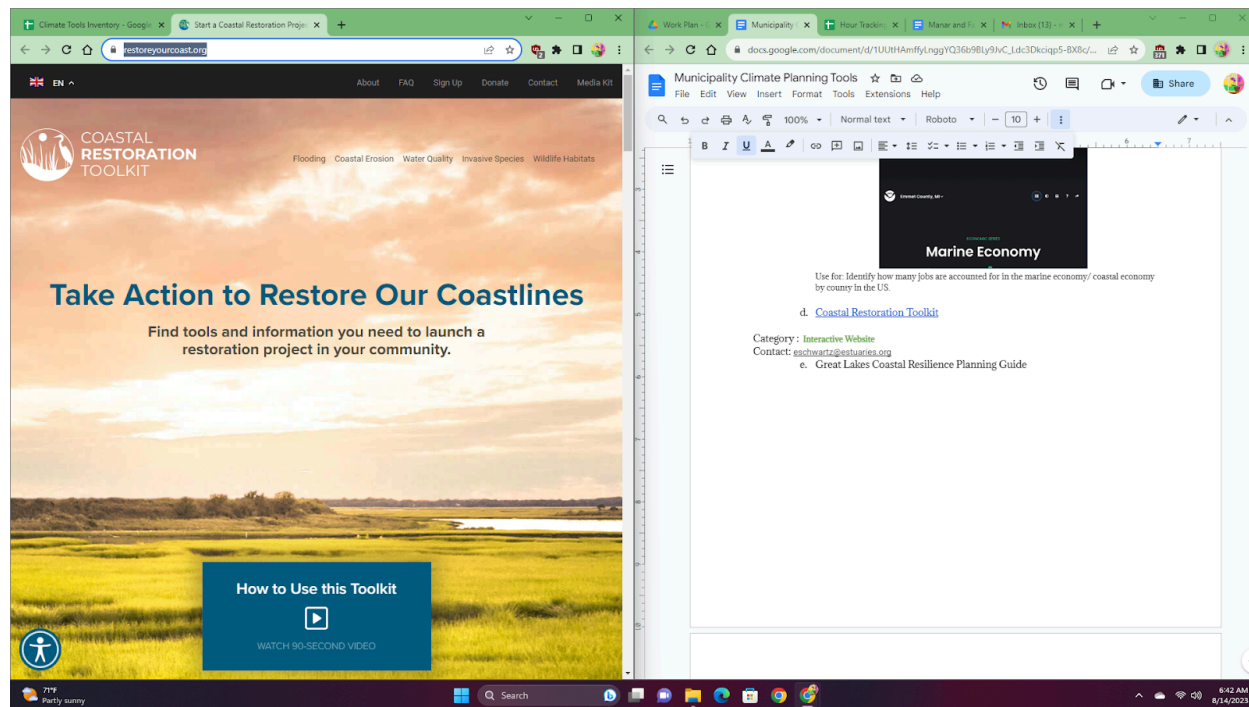
Use for: Identify how many jobs are accounted for in the marine economy/ coastal economy by county in the US.

[Coastal Restoration Toolkit](#)

Category : **Interactive Website**

Contact: eschwartz@estuaries.org

Preview of Site

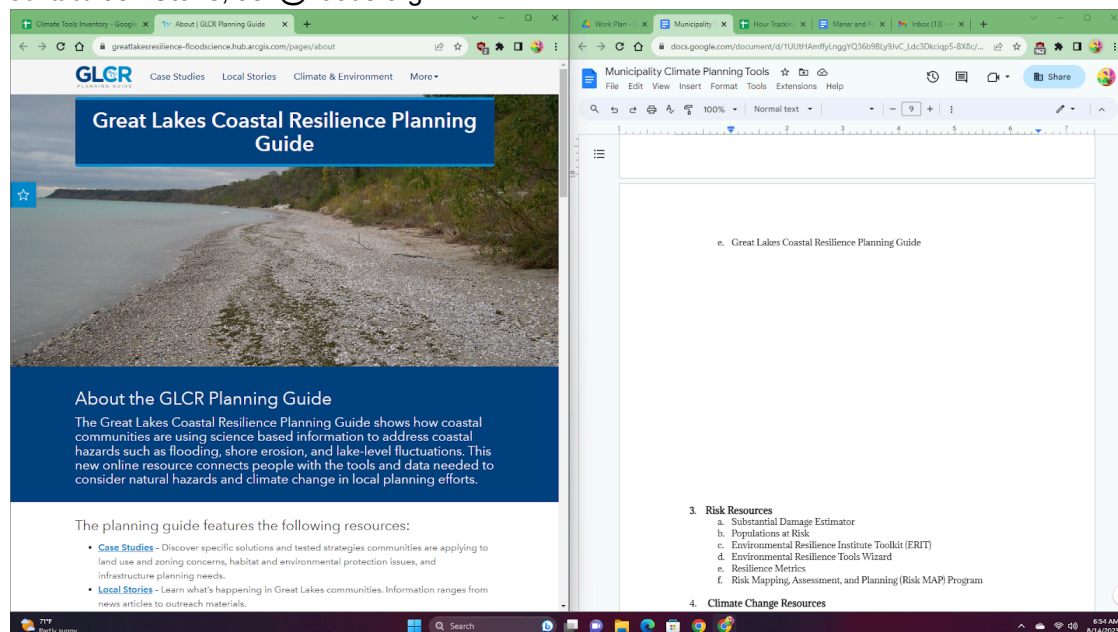


Use for: Guide project planning based on different categories (flooding, coastal erosion, flooding, water quality, invasive species, wildlife habitat restoration)

[Great Lakes Coastal Resilience Planning Guide](#)

Category : **Interactive Website**

Contact: Jeff Stone, Jeff@floods.org



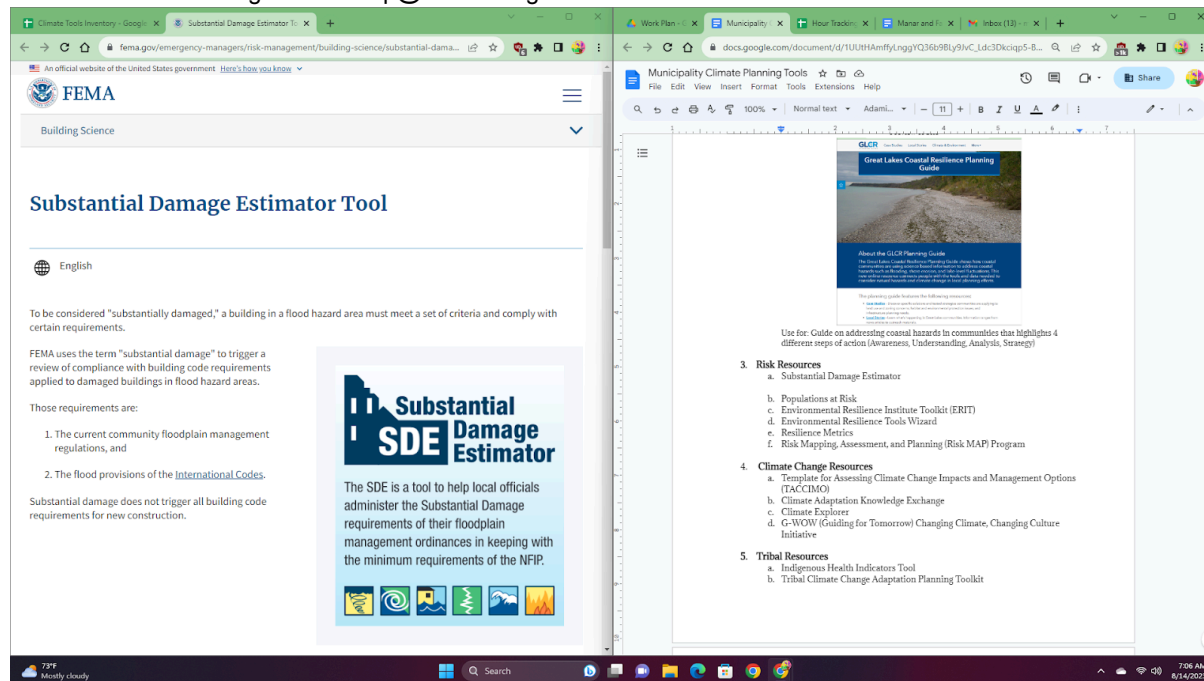
Use for: Guide on addressing coastal hazards in communities that highlights 4 different steps of action (Awareness, Understanding, Analysis, Strategy)

Risk Resources

[Substantial Damage Estimator](#)

Category: **Software**

Contact :FEMA-BuildingScienceHelp@fema.dhs.gov

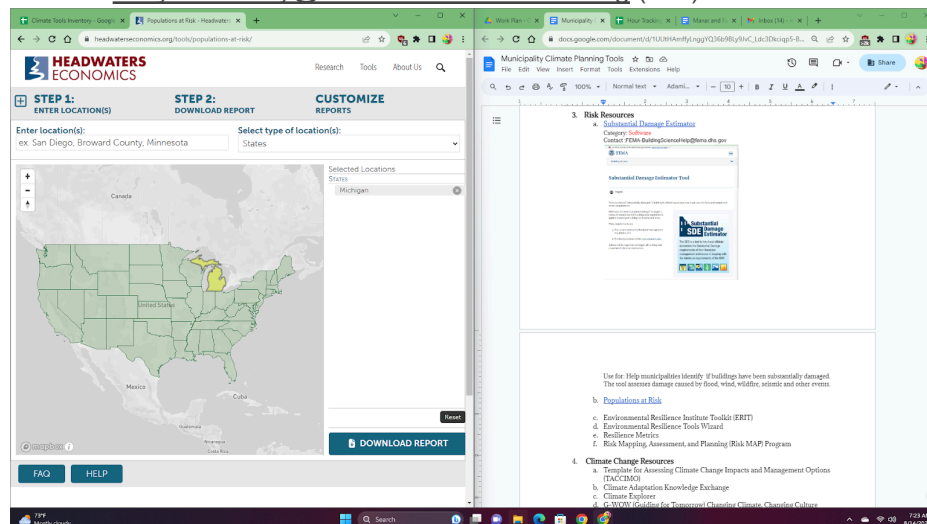


Use for: Help municipalities identify if buildings have been substantially damaged. The tool assesses damage caused by flood, wind, wildfire, seismic and other events.

[Populations at Risk](#)

Category: **Interactive Map**

Contact: Kelly Pohl kelly@headwaterseconomics.org (406) 599-7841

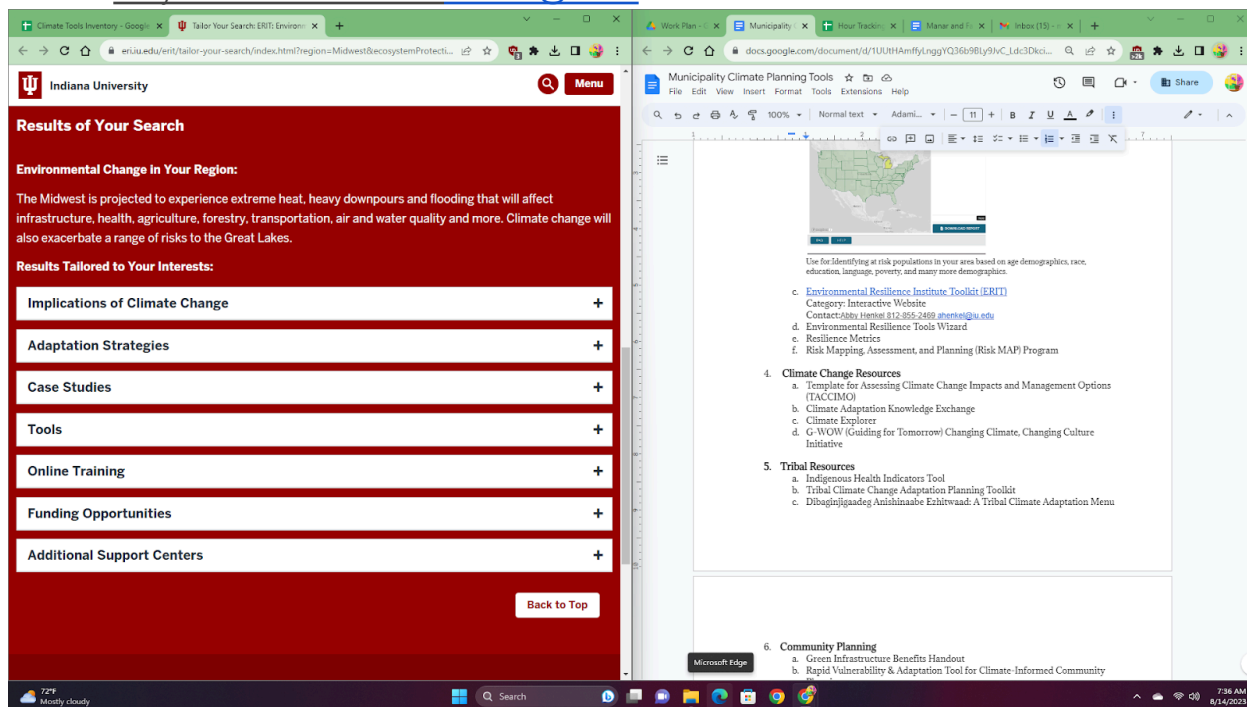


Use for: Identifying at risk populations in your area based on age demographics, race, education, language, poverty, and many more demographics.

[Environmental Resilience Institute Toolkit \(ERIT\)](#)

Category: Interactive Website

Contact: Abby Henkel 812-855-2469 ahenkel@iu.edu

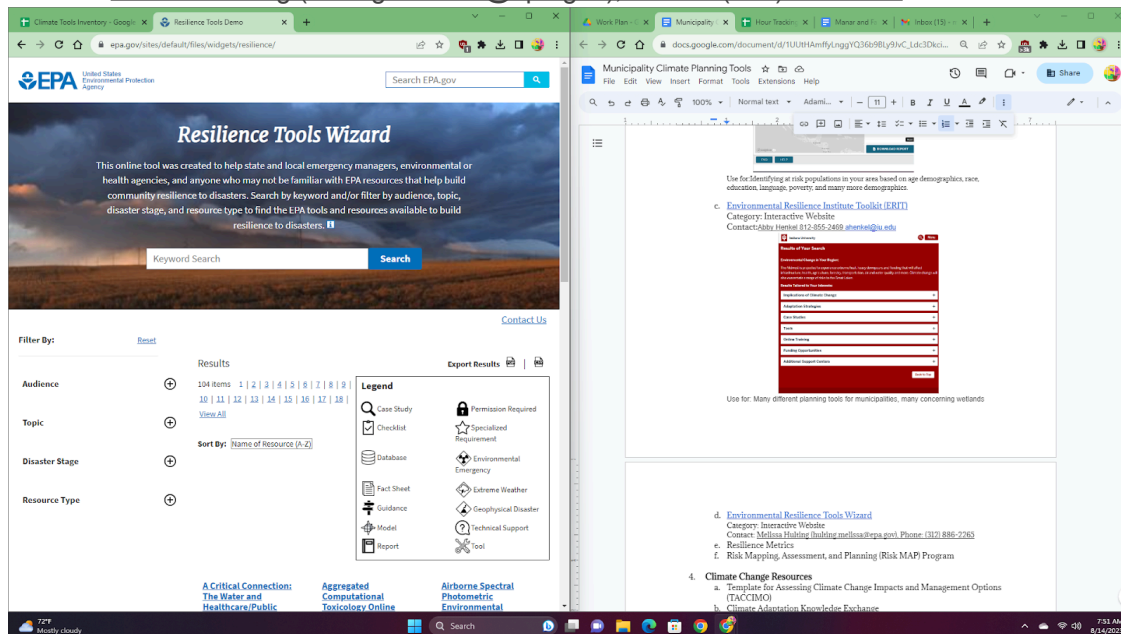


Use for: Many different planning tools for municipalities, many concerning wetlands

[Environmental Resilience Tools Wizard](#)

Category: Interactive Website

Contact: Melissa Hulting (hulting.melissa@epa.gov), Phone: (312) 886-2265

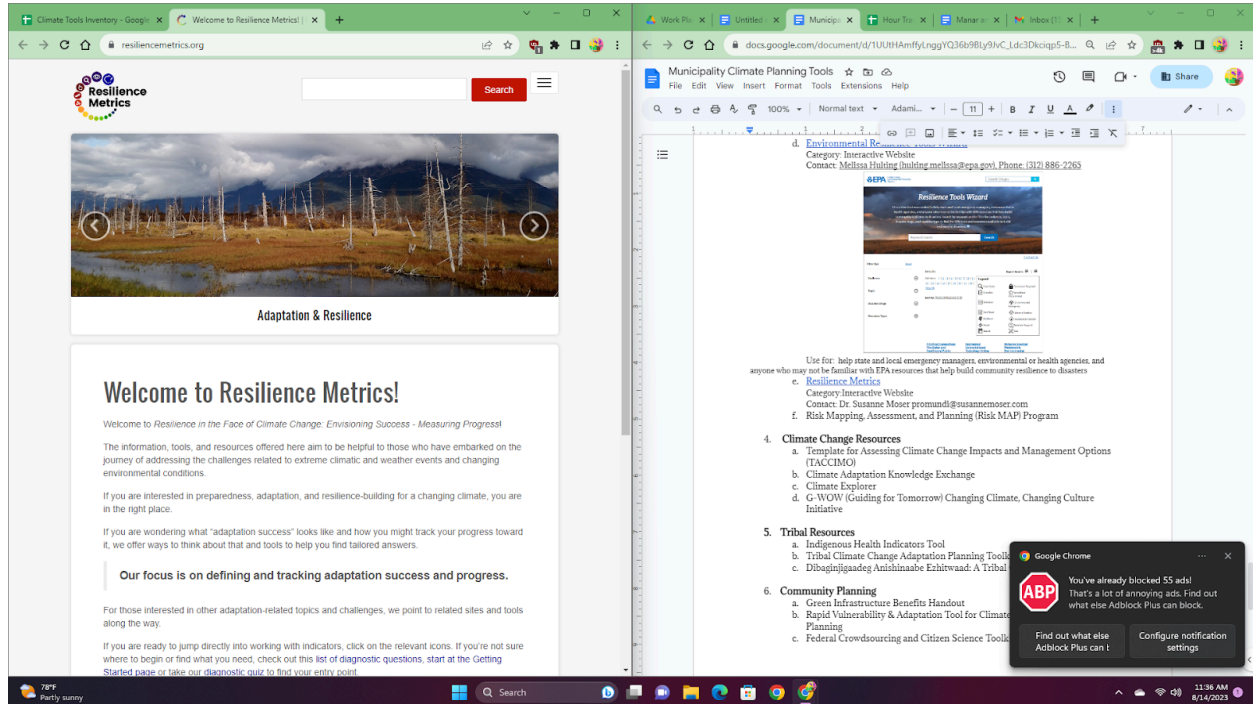


Use for: help state and local emergency managers, environmental or health agencies, and anyone who may not be familiar with EPA resources that help build community resilience to disasters

[Resilience Metrics](#)

Category: Interactive Website

Contact: Dr. Susanne Moser promundi@susannemoser.com

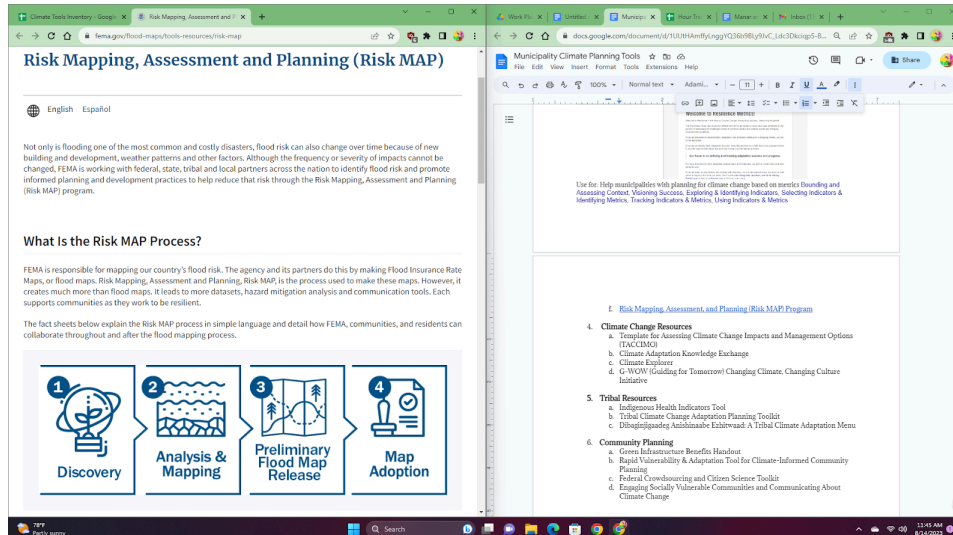


Use for: Help municipalities with planning for climate change based on metrics [Bounding and Assessing Context](#), [Visioning Success](#), [Exploring & Identifying Indicators](#), [Selecting Indicators & Identifying Metrics](#), [Tracking Indicators & Metrics](#), [Using Indicators & Metrics](#)

[Risk Mapping, Assessment, and Planning \(Risk MAP\) Program](#)

Category: Interactive Website

Contact: Flood Mapping Questions 877-336-2627 fema-fmrx@fema.dhs.gov



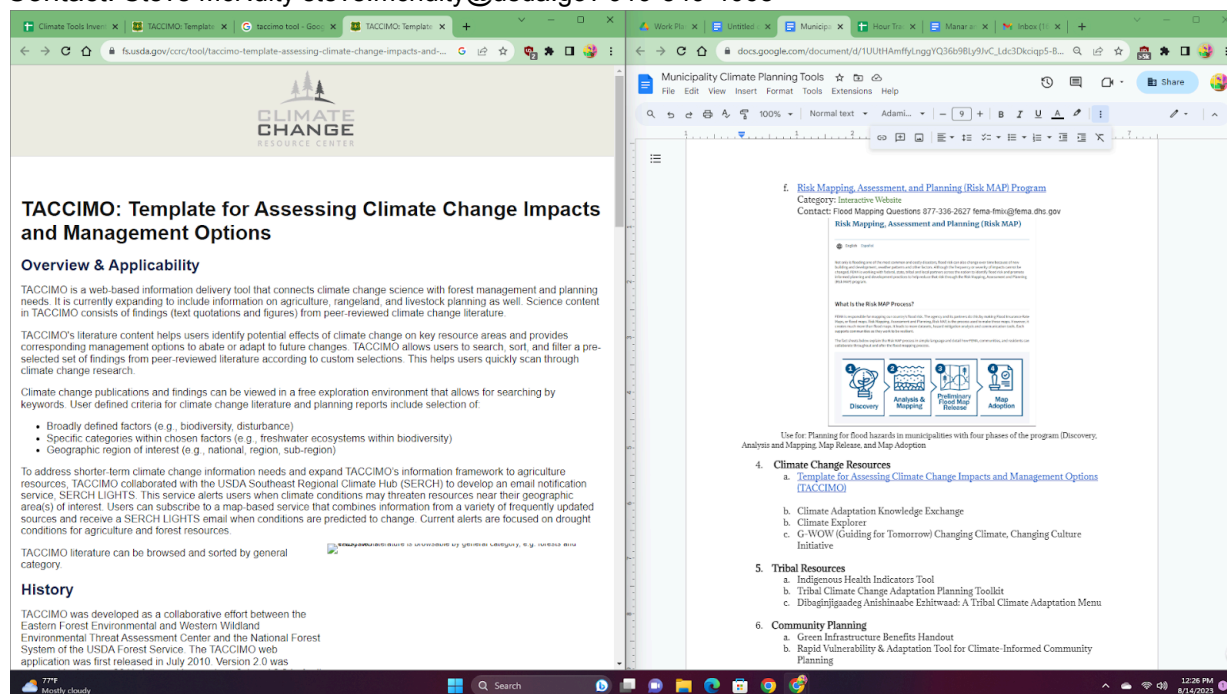
Use for: Planning for flood hazards in municipalities with four phases of the program (Discovery, Analysis and Mapping, Map Release, and Map Adoption)

Climate Change Resources

[Template for Assessing Climate Change Impacts and Management Options \(TACCIMO\)](#)

Category: Interactive Website

Contact: Steve McNulty steve.mculty@usda.gov 919-549-4068

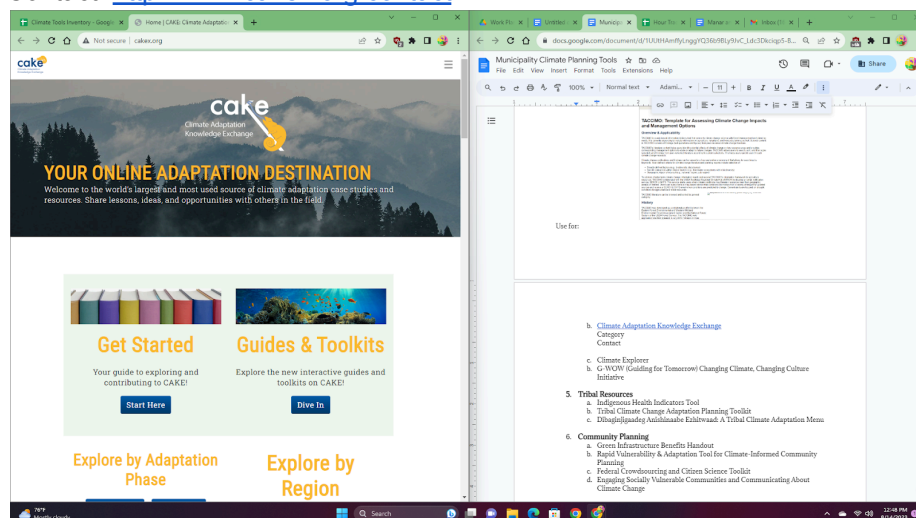


Use for: city planning to assess climate change impacts over cities

[Climate Adaptation Knowledge Exchange](#)

Category: Interactive Website

Contact: <http://www.cakex.org/contact>

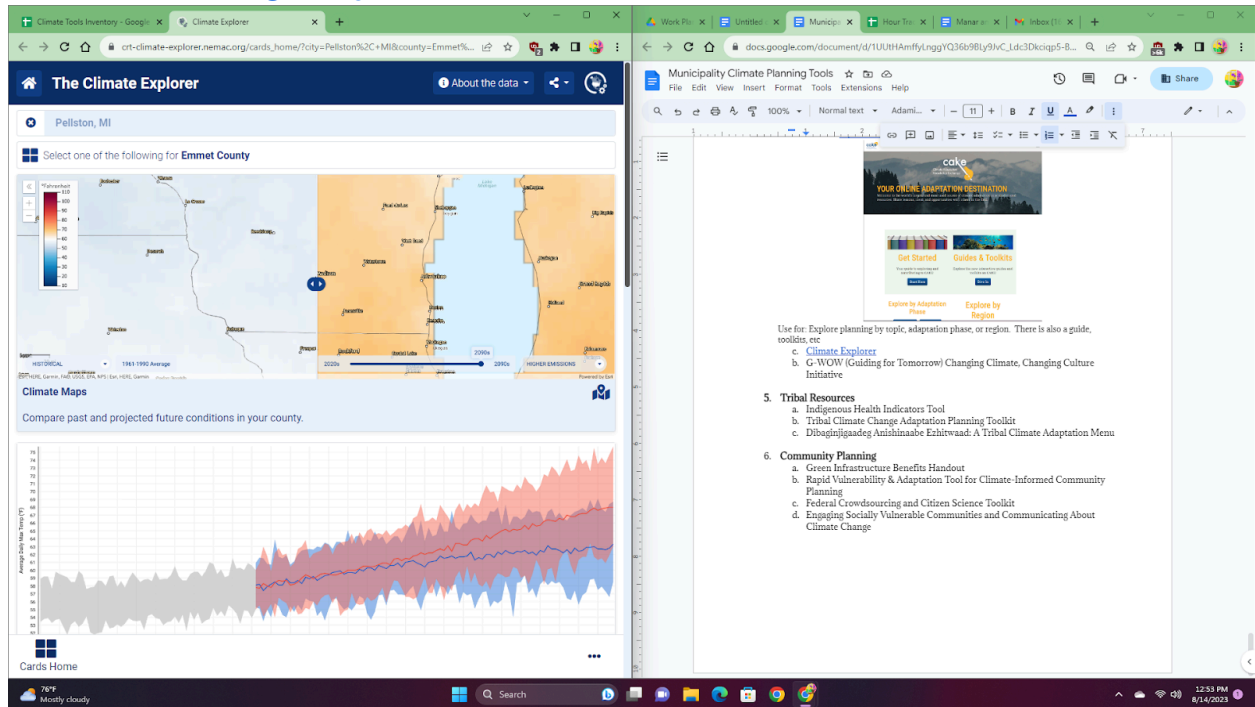


Use for: Explore planning by topic, adaptation phase, or region. There is also a guide, toolkits, etc

Climate Explorer

Category: Interactive Website

Contact: noaa.toolkit@noaa.gov



Use for: Explore climate maps, graphs, flooding, weather data, historical data to help with assessing risk and planning

G-WOW (Guiding for Tomorrow) Changing Climate, Changing Culture Initiative

Category: Guidebook

Contact: <http://g-wow.org/en-us/contact/default.aspx>

The screenshot displays the G-WOW website interface. The top navigation bar includes 'Gikinoow'wizhiwe Onji Waaban (Guiding for Tomorrow) "G-WOW" Changing Climate, Changing Culture'. The main content area is titled 'WHAT CAN WE DO?' and 'READY TO GO - PROJECT IDEAS'. It features a section for 'Fighting Climate Change, With Change!' with a photo of a person in traditional Indigenous attire. Below this is a 'Reflect on the issue' section with a list of questions for reflection. The bottom of the page features a 'Cards Home' section with a weather forecast for 76°F and 'Mostly cloudy'.

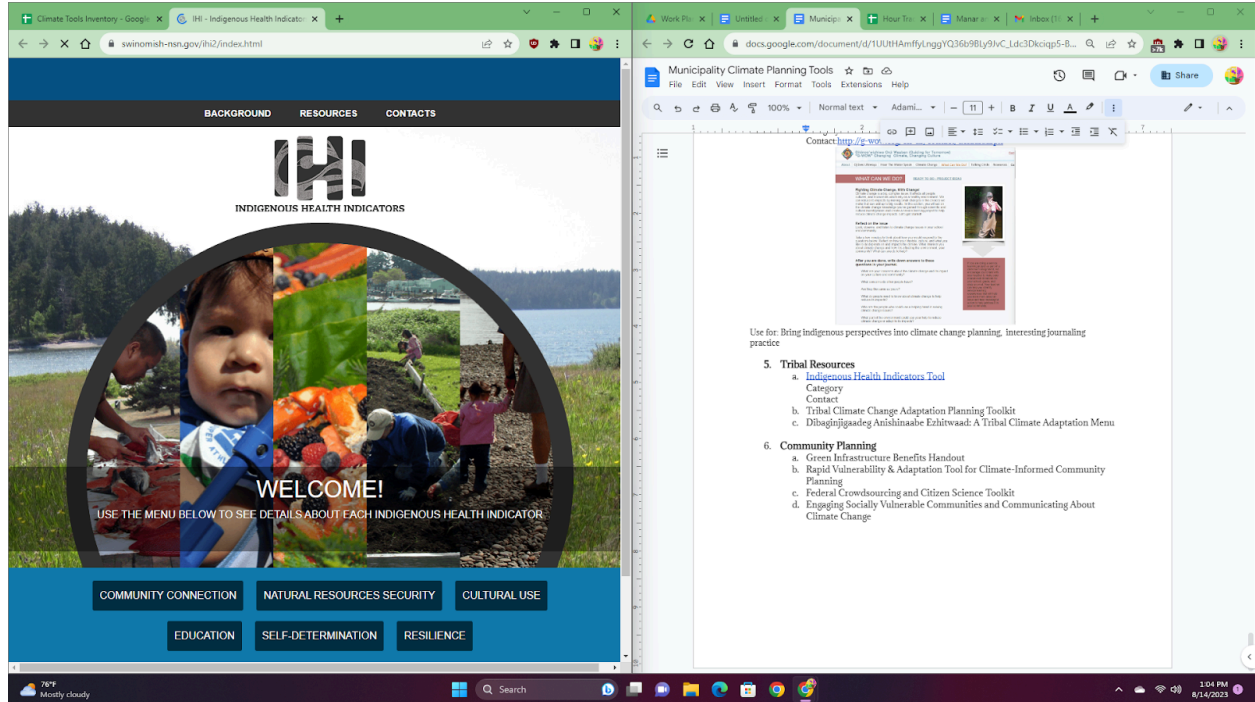
Use for: Bring indigenous perspectives into climate change planning, interesting journaling practice

Tribal Resources

[Indigenous Health Indicators Tool](#)

Category: Interactive Website

Contact: Jamie Donatuto Environmental Health Analyst jdonatuto@swinomish.nsn.us

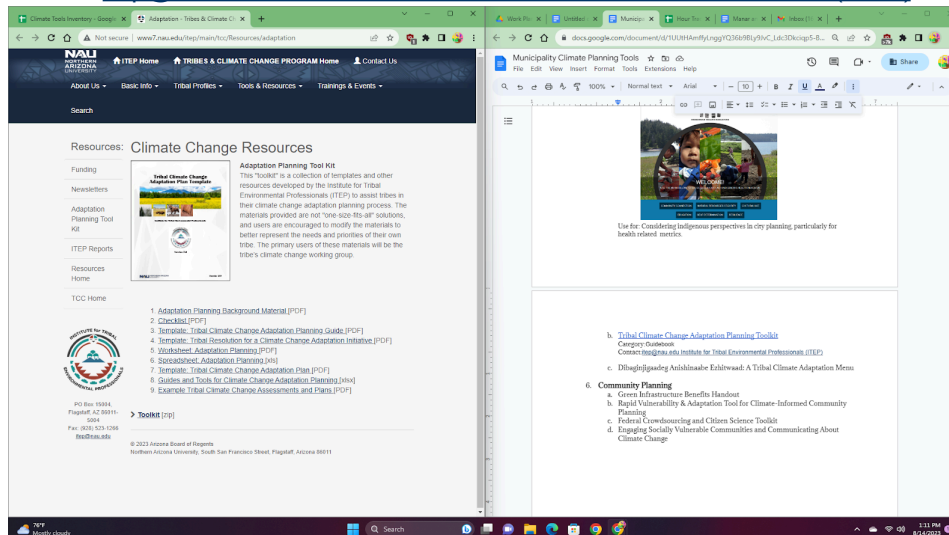


Use for: Considering indigenous perspectives in city planning, particularly for health related metrics.

[Tribal Climate Change Adaptation Planning Toolkit](#)

Category: Guidebook

Contact: itep@nau.edu Institute for Tribal Environmental Professionals (ITEP)

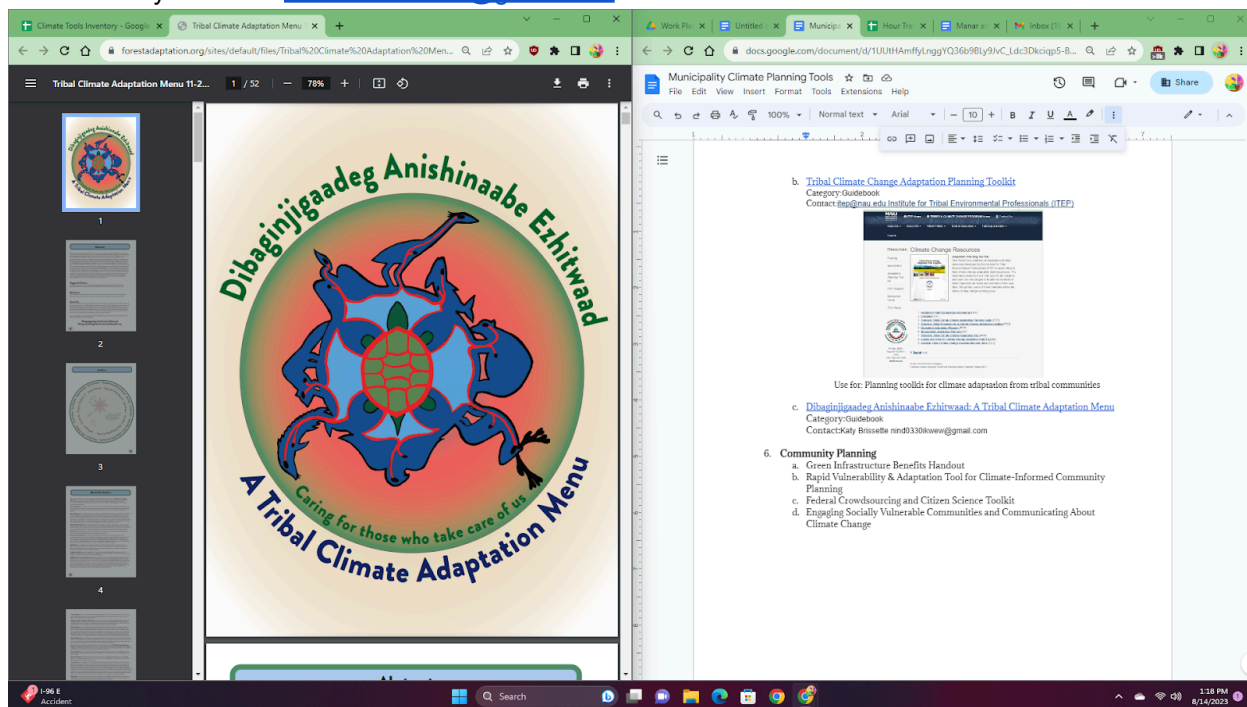


Use for: Planning toolkit for climate adaptation from tribal communities

[Dibaginijigaadeg Anishinaabe Ezhitwaad: A Tribal Climate Adaptation Menu](#)

Category: Guidebook

Contact: Katy Brissette nind0330ikwew@gmail.com



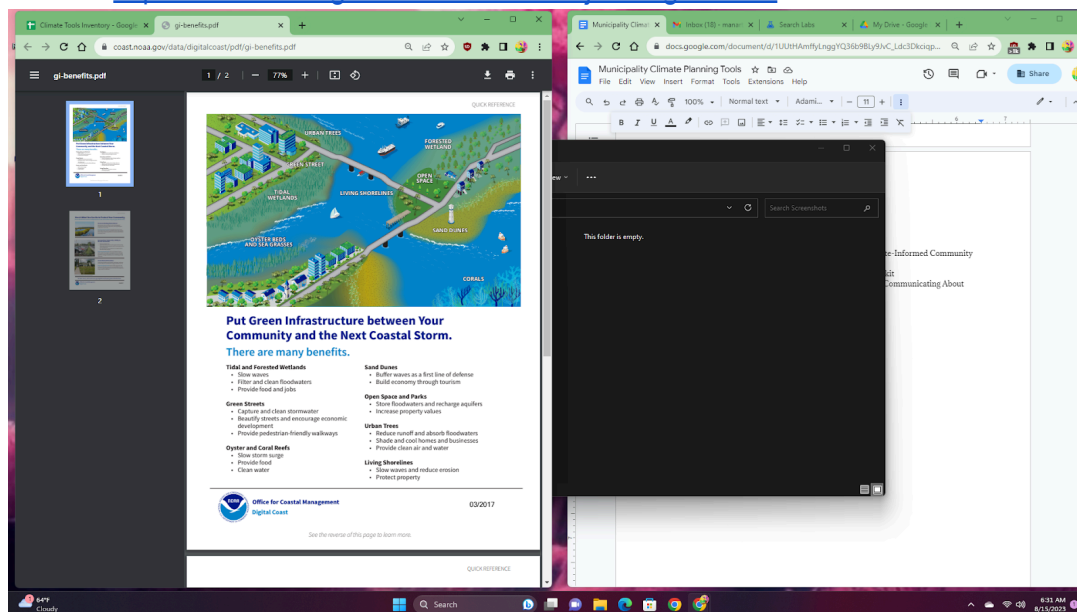
Use for: Climate adaptation planning from indigenous communities in the Ottawa BR

Community Planning

[Green Infrastructure Benefits Handout](#)

Category: Guidebook

Contact: <https://coast.noaa.gov/contactform/?subject=digitalcoast>

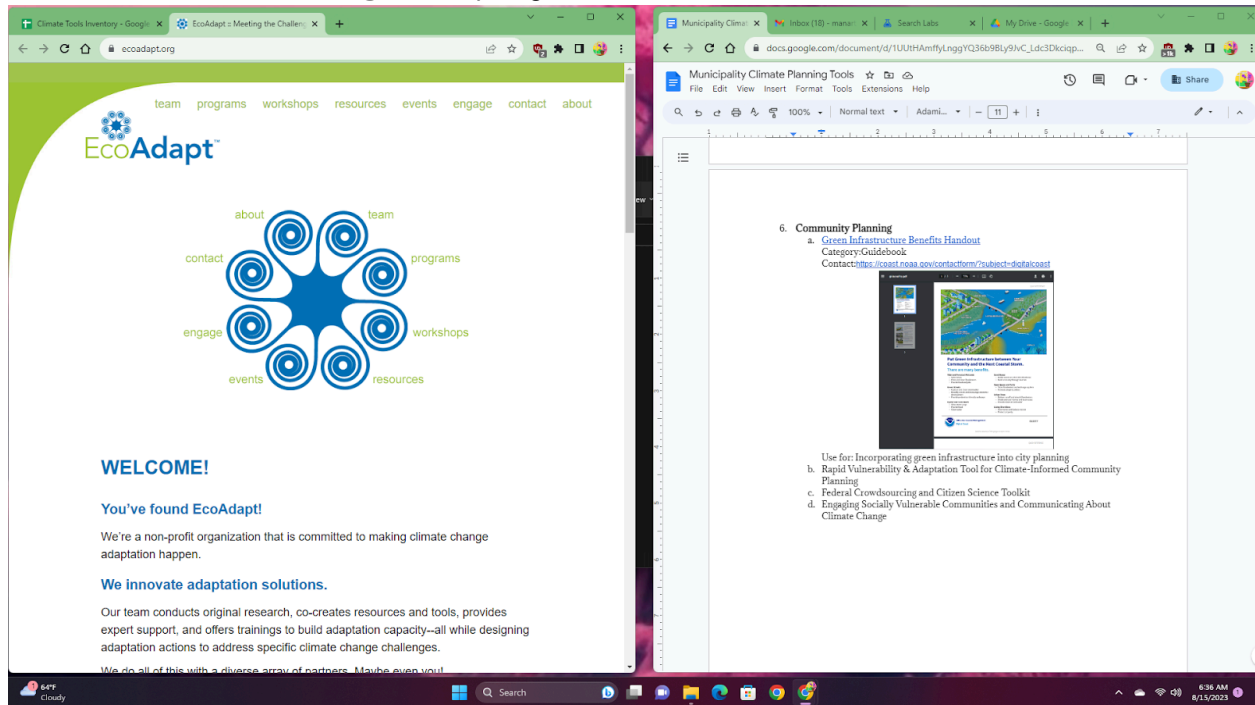


Use for: Incorporating green infrastructure into city planning

Rapid Vulnerability & Adaptation Tool for Climate-Informed Community Planning

Category: Guidebook

Contact: Lara J Hansen Lara@EcoAdapt.org

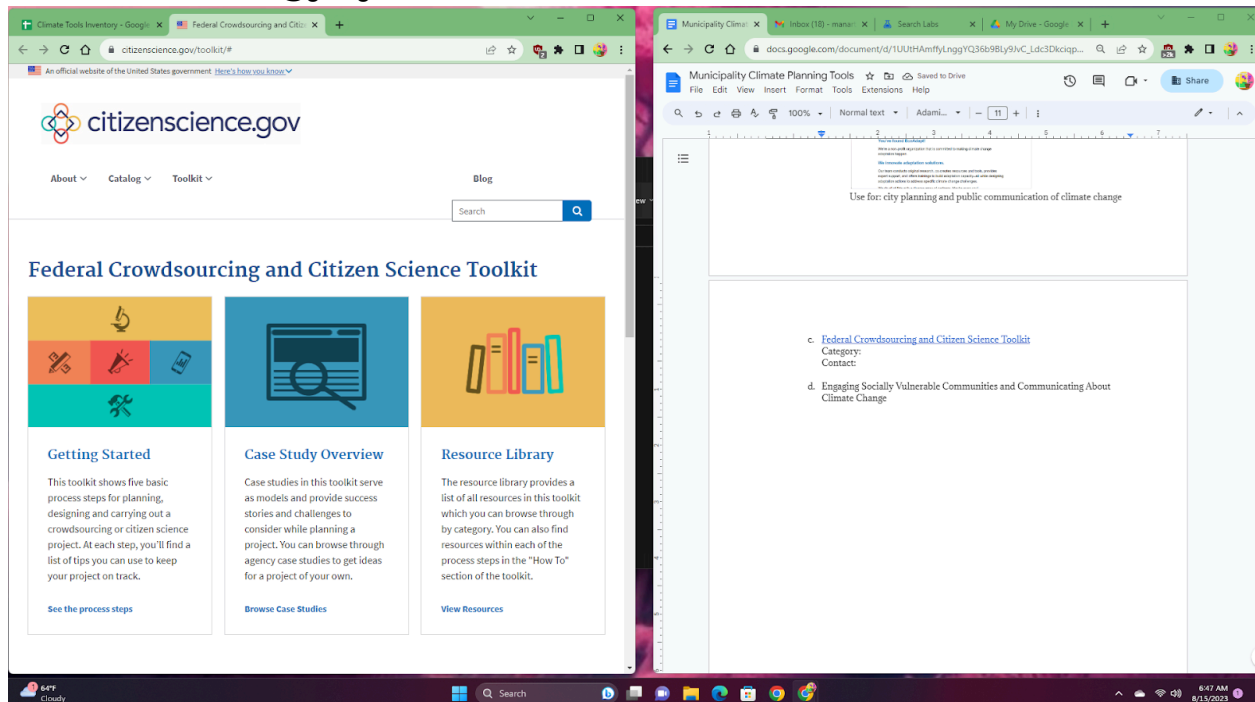


Use for: city planning and public communication of climate change

Federal Crowdsourcing and Citizen Science Toolkit

Category: Interactive Website

Contact: citizenscience@gsa.gov

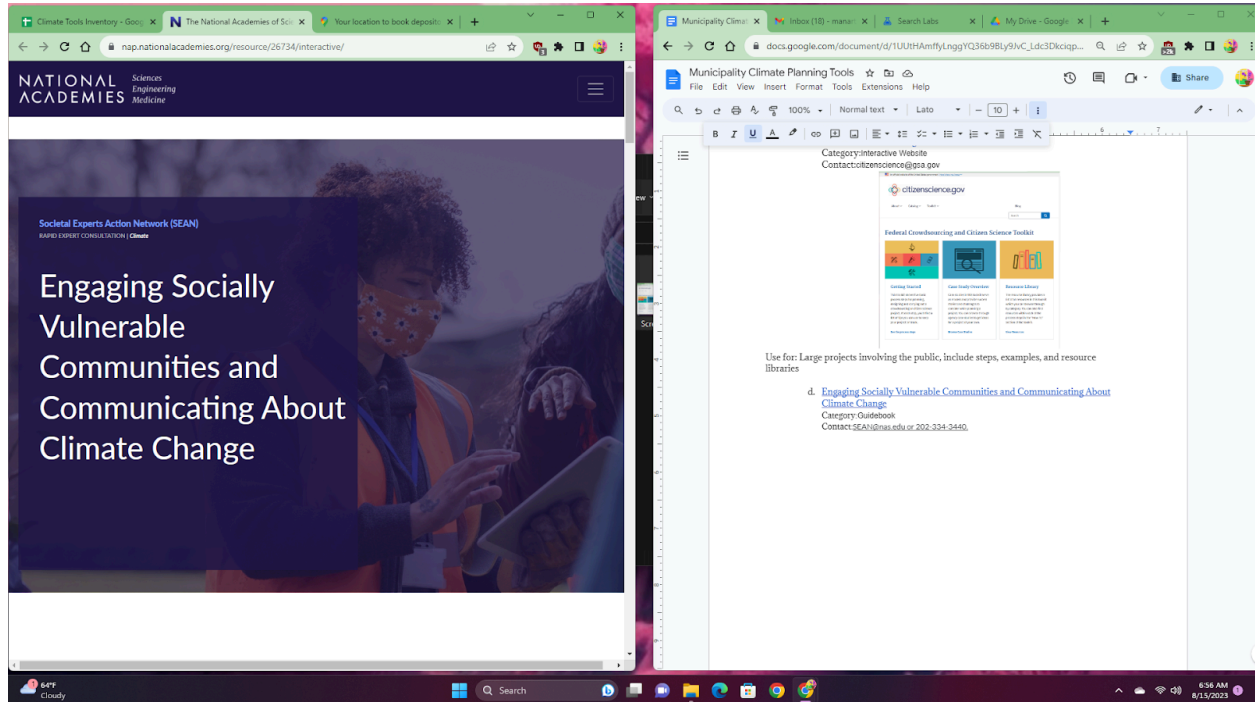


Use for: Large projects involving the public, include steps, examples, and resource libraries

[Engaging Socially Vulnerable Communities and Communicating About Climate Change](#)

Category: Guidebook

Contact: SEAN@nas.edu or 202-334-3440.



Use for: Communicating climate adaptation plan to communities, features 10 key steps and resources