

A STATEWIDE NETWORK FOR EMERGENCY MANAGERS

SHARING GIS RESOURCES



WALTER CHOMENTOWSKI
JUNE 7, 2022

Presentation Roadmap

- Using ArcGIS Online (AGOL) to support stakeholders
- Who are our stakeholders?
- The Michigan Emergency Manager AGOL network
- AGOL network organized by Groups
- What content is inside the Groups?
- How the Emergency Manager AGOL network is used
- Gaylord tornado example
- Lessons learned



EMERGENCY MANAGEMENT HOMELAND SECURITY DIVISION STAKEHOLDERS



Each county in Michigan and several municipalities have paid positions for emergency managers

EMHSD stakeholders are the 100 emergency managers representing 83 counties and 17 municipalities across the state.

Adequate training is essential to manage emergencies effectively

Training & Exercise



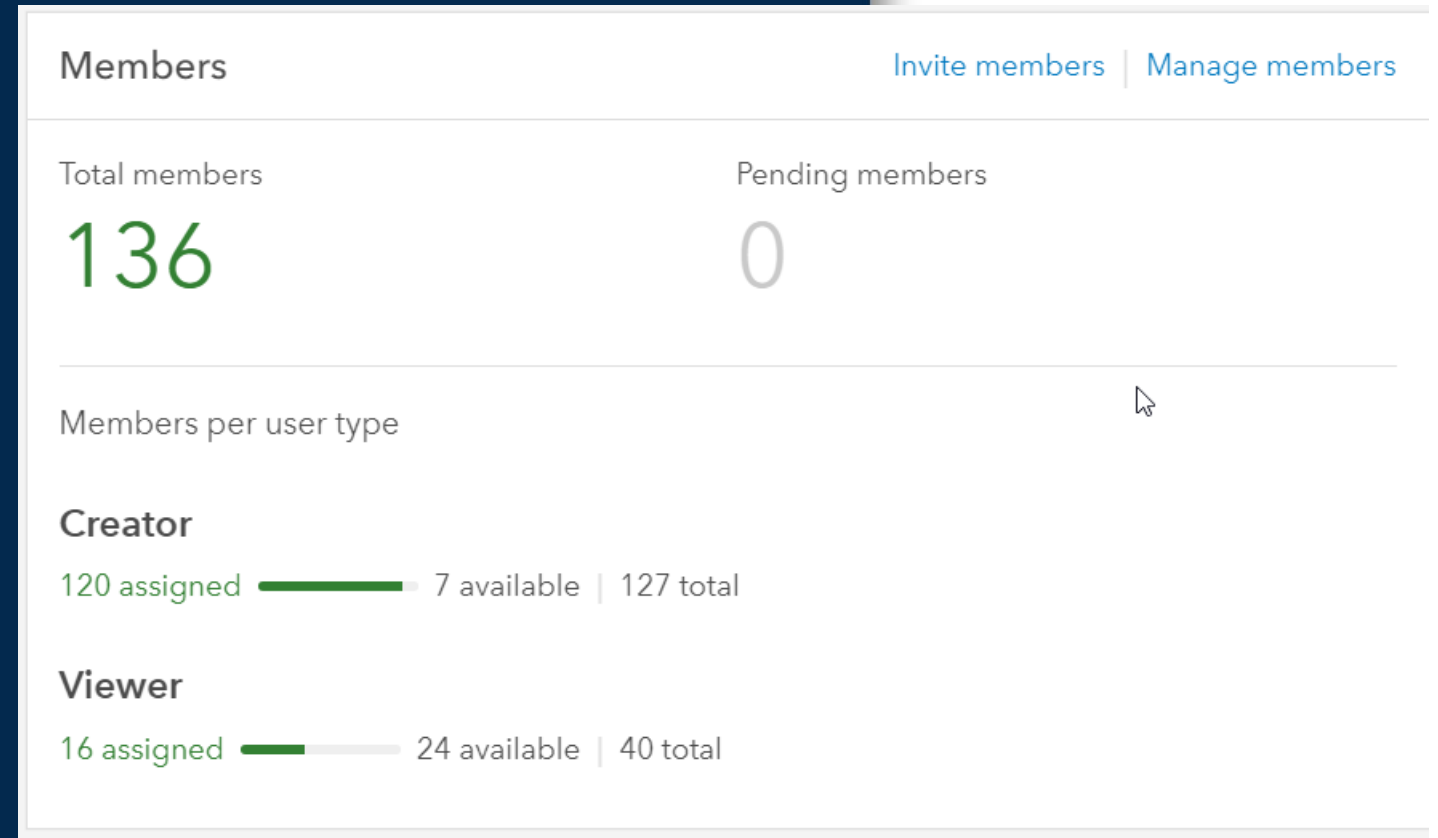
THE ARCGIS ONLINE NETWORK MEMBERS

The Emergency Management Homeland Security Division (EMHSD), Michigan State Police, built a GIS network with ArcGIS Online for sharing data and applications with our 100+ stakeholders

The network consists of 167 total users

- 120 assigned 'creator' user-types
- 16 assigned 'viewer' user-types

Unassigned licenses are available for training or emergencies



AGOL NETWORK ORGANIZATION

Stakeholders are assigned an AGOL 'Group'

- 83 county groups
- 14 City groups

State and federal agencies also are assigned groups with relevant members to facilitate data and application sharing throughout the hierarchy of government

Local

State

Federal

The screenshot displays a list of AGOL groups categorized into three levels: Local, State, and Federal. Each group entry includes a letter icon, the group name, the owner (msp.seocgis), creation and last update dates, and visibility settings. A search filter 'Any organization' is visible for each category.

Category	Group Name	Owner	Created	Last Updated	Visibility
Local	County- Otsego Damage Assessment Group	msp.seocgis	Mar 1, 2019	May 23, 2022	Group members
	City - Kalamazoo Damage Assessment Group	msp.seocgis	Apr 21, 2021	Apr 21, 2021	Group members
	County- Midland Damage Assessment Group	msp.seocgis	Apr 25, 2019	Apr 22, 2022	Group members
	City- Ann Arbor Damage Assessment Group	msp.seocgis	Mar 11, 2019	Mar 11, 2019	Group members
	City- Battle Creek Damage Assessment Group	msp.seocgis	Feb 22, 2019	Feb 22, 2019	Group members
	County- Oakland Damage Assessment Group	msp.seocgis	Mar 11, 2019	Jul 30, 2021	Group members
	City- Birmingham Damage Assessment Group	msp.seocgis	Mar 11, 2019	Mar 11, 2019	Group members
State	County- Wayne Damage Assessment Group	msp.seocgis	Mar 11, 2019	Jul 30, 2021	Group members
	City- Dearborn Damage Assessment Group	msp.seocgis	Mar 11, 2019	Mar 11, 2019	Group members
	EGLE-SEOC	msp.seocgis	Dec 13, 2018	Jan 21, 2020	Group members
	MDARD-SEOC	msp.seocgis	Jul 5, 2018	Dec 13, 2018	Group members
	MDNR-SEOC	msp.seocgis	Dec 13, 2018	Dec 13, 2018	Group members
Federal	MDOT-SEOC	msp.seocgis	Dec 13, 2018	Dec 13, 2018	Group members
	National Guard-SEOC	msp.seocgis			
	FEMA GIS	msp.seocgis	Jun 19, 2018	Jun 19, 2018	Group members

This block shows a detailed view of two federal groups. The FEMA GIS group is used for data sharing with FEMA GIS, and the Red Cross group is used for data sharing with Red Cross. Both groups are owned by msp.seocgis and are visible to group members.

Group Name	Owner	Created	Last Updated	Visibility
FEMA GIS	msp.seocgis	Jun 19, 2018	Jun 19, 2018	Group members
Red Cross Damage Assessment Data Sharing	msp.seocgis	Jun 10, 2020	Jul 1, 2021	Group members

WHAT'S INSIDE THE GROUPS?

Stakeholder Groups contain a suite of applications for damage assessment which include:

- Surveys for mobile applications
- A survey for citizens to report damage at their property
- Dashboards linked to the surveys and the Michigan Critical Incident Management System (MiCIMS)
- Instructions on how to use the applications

Collection

Michigan Damage Assessment

Collection of all damage assessment tools for public data collection, mobile applications for IA and PA, dashboards to view data, and editing tool.

Michigan State Police: Emergency Management and Homeland Security Division

Get started

GUIDE
How to use this application

1 Using This Application

GUIDE
survey123

2 Survey123 User Guide

Dashboard
IA MI CIMS

3 IA MI CIMS Dashboard

SURVEY
self-reporting

4 Self-Reporting Survey

Dashboard
self-reporting

5 Self Reporting Dashboard

EDIT
self-reporting

6 Self Reporting Editing Dashboard

SURVEY
individual assistance

7 Individual Assistance Survey

Dashboard
individual assistance

8 IA Damage Assessment Dashboard

EDIT
individual assistance

9 IA Editing Dashboard

SURVEY
public assistance

10 Public Assistance Survey

Dashboard
public assistance

11 PA Damage Assessment Dashboard

EDIT
public assistance

12 PA Editing Dashboard

Dashboard
PA MI CIMS

13 PA- MI CIMS Dashboard

GAYLORD TORNADO

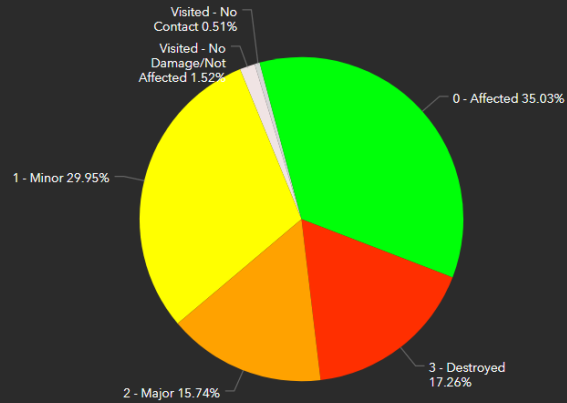
IA Mobile app feed data to dashboard

2020 IA- Local Damage Assessment Dashboard County of Otsego

Dates of Assessment
5/25/2022

Select a category
None

Level of Damage



Last update: a few seconds ago

Affected
69

Last update: a few seconds ago

Major
31

Minor

59

Last update: a few seconds ago

Destroyed
34

Units Impacted

204

Water Depth Damage

- 1900 nottingham 0 - Affected
- 1910 nottingham 0 - Affected
- 889 Goslow Rd 0 - Affected
- 895 Goslow Rd 0 - Affected
- 319 N Ohio 1 - Minor
- 311 N Ohio 1 - Minor
- 305 N Ohio 2 - Major
- 1920 nottingham 0 - Affected
- 1930 nottingham 1 - Minor
- 1940 nottingham 0 - Affected

Last update: a few seconds ago

Inaccessible

0

Last update: a few seconds ago

Visited No Damage/Not Affected

3

Last update: a few seconds ago

Visited - No Contact

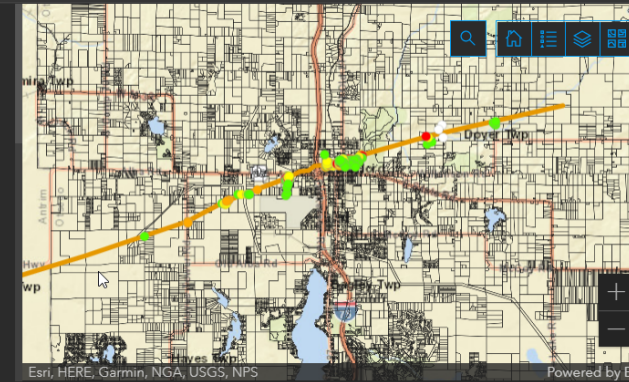
1

Last update: a few seconds ago

IA Local Damage Assessment App Otsego County

Level of damage assessed:

- 0 - Affected
- 1 - Minor
- 2 - Major
- 3 - Destroyed
- Inaccessible
- Visited - No Contact
- Visited - No



Esri, HERE, Garmin, NGA, USGS, NPS

Powered by Esri

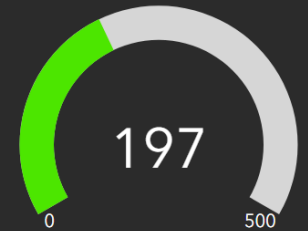
1 of 50

Number of Damage Assessments Completed

Damage Summary

Unique ID	daeab782-5230-425d-9956-440224e84d64
Date Assessment Occurred:	5/25/2022, 12:00 PM
What caused the damage?	tornado
Specify Other:	
Street Address:	1900 nottingham
Apartment/Unit/Building:	

Last update: a few seconds ago



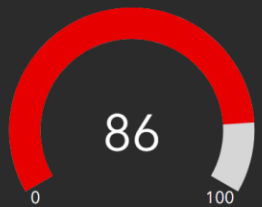
Download excel data by clicking icon on the bottom right.

Download icon

Self Reporting Dashboard Survey County of Otsego

Date Range:
No date selected

Number of Reports



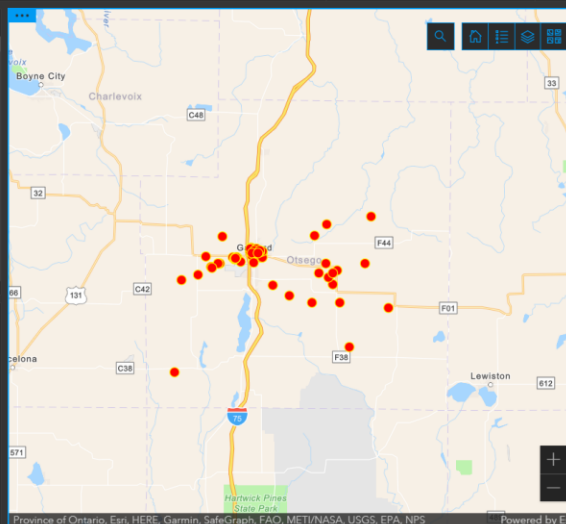
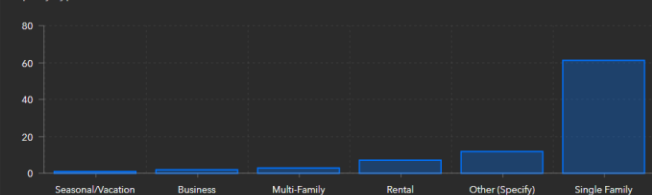
Last update: 5 minutes ago

Damages

- Damage caused: Damage_to_roof_decking,Loose_or_broken_siding,Other
- Damage caused: Other
- Damage caused: Damage_to_roof_decking,Gutter_damage,Loose_or_broken_siding,Minor_roof_damage
- Damage caused: ChimneyDamage,Minor_roof_damage,Damage_insulation,Other
- Damage caused: ChimneyDamage,Damage_to_roof_decking,Minor_roof_damage

Last update: 5 minutes ago

Property Type



Province of Ontario, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS

Powered by Esri

Self reporting app feed data to dashboard

LESSONS LEARNED

- You can build it, but they may not come until the last minute
- Training is key
- Sharing apps and data is seamless





CONTACT INFORMATION

WALTER CHOMENTOWSKI
CHOMENTOWSKIW@MICHIGAN.GOV