Steering Committee Meeting 4 Cayuga-Oswego
CLEAR

Coastal Lakeshore Economy and Resiliency Initiative

July 28, 2021

Agenda

- Status of Process & Deliverables
- Public Workshop Highlights
- Community Profiles
- Asset Inventory
- Vision for a Resilient Future
- Homework and Next Steps

CLEAR Deliverables

- Steering Committee coordination
- Community engagement
  - Community Workshop #1
- CLEAR plan
  - Community Profiles
  - Asset Inventory
  - Risk Assessment
  - Vision Statement
  - Needs/Opportunities Assessment
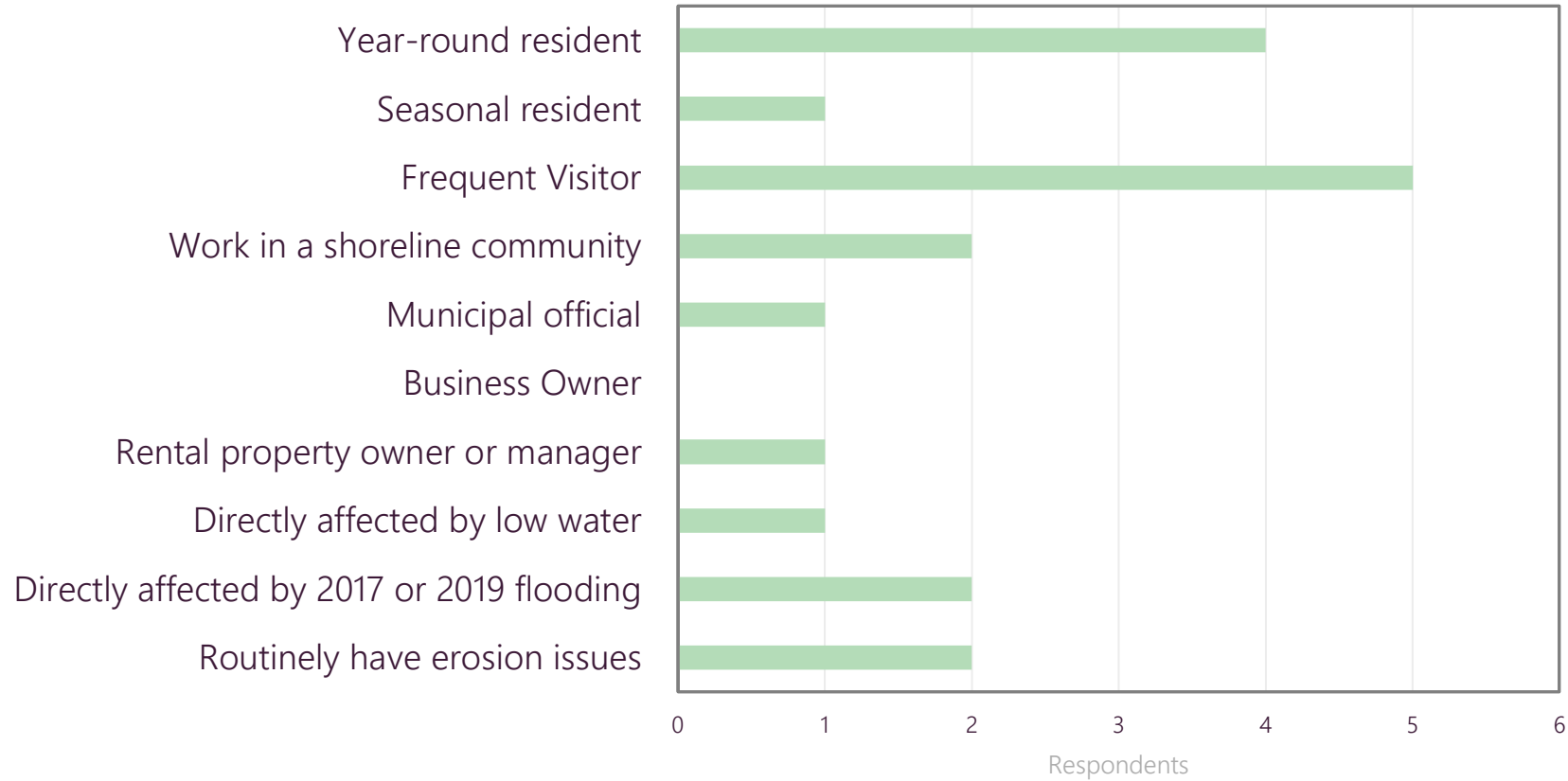 - Long-term Strategies, Projects, Programs, Actions

Is your community prepared to withstand and recover from extreme water levels?
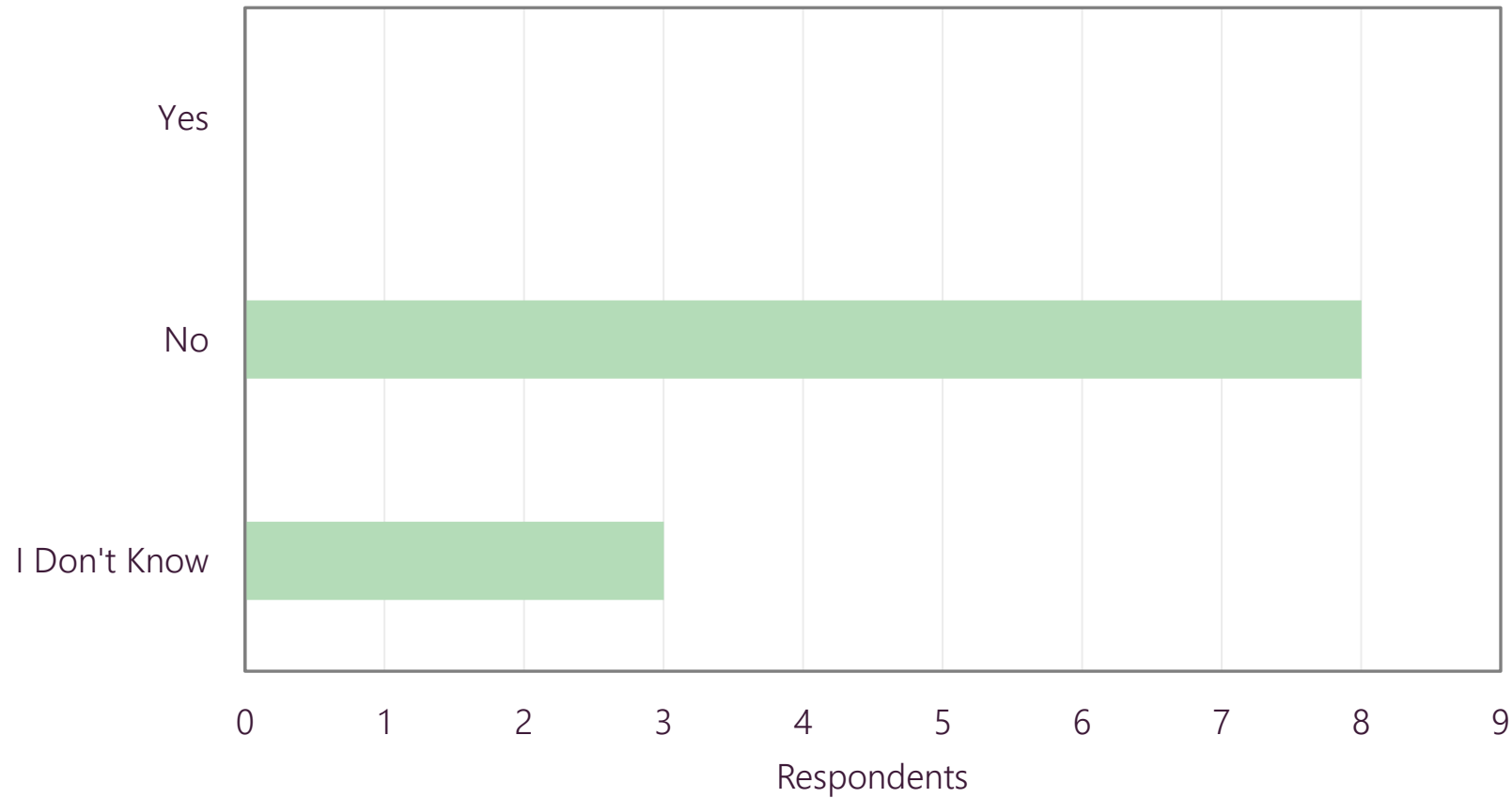
How Did You Hear About This Meeting?
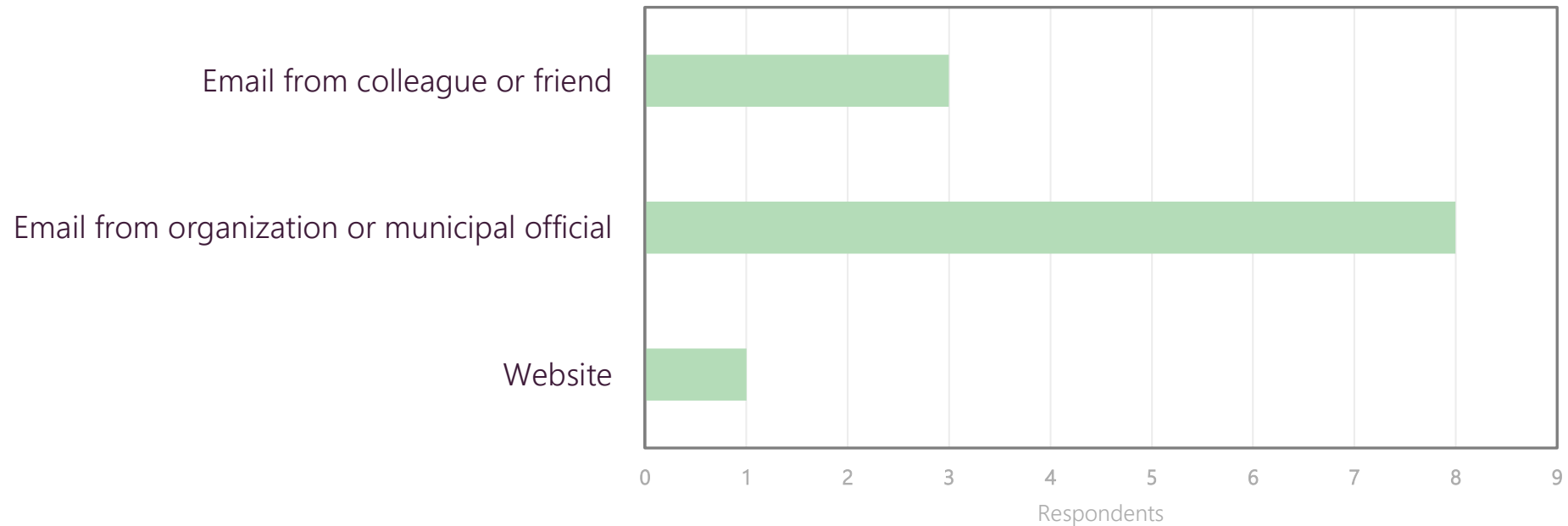
Tell Us About Yourself.

Public Workshop Highlights

Introduction to CLEAR

- Goals, process, deliverables, timeline, and responsibilities

Interactive group activity

- Elaborated on their community's risk, vulnerability, and exposure
- Notes are posted on the website

Discussion comments

- Need for education on factors affecting water levels
- Enlist local, trusted voices as sources of information
- Unique ecosystem requires careful stewardship

**CLEAR** Steering Committee Meeting

Progress Update: Community Profile

The Community Profile provides a foundation of data to guide resiliency planning in the Cayuga Oswego region.

By evaluating current conditions and identifying recent trends, this profile will provide an overview of vulnerable infrastructure and coastal hazards and risks, both today and in the future.
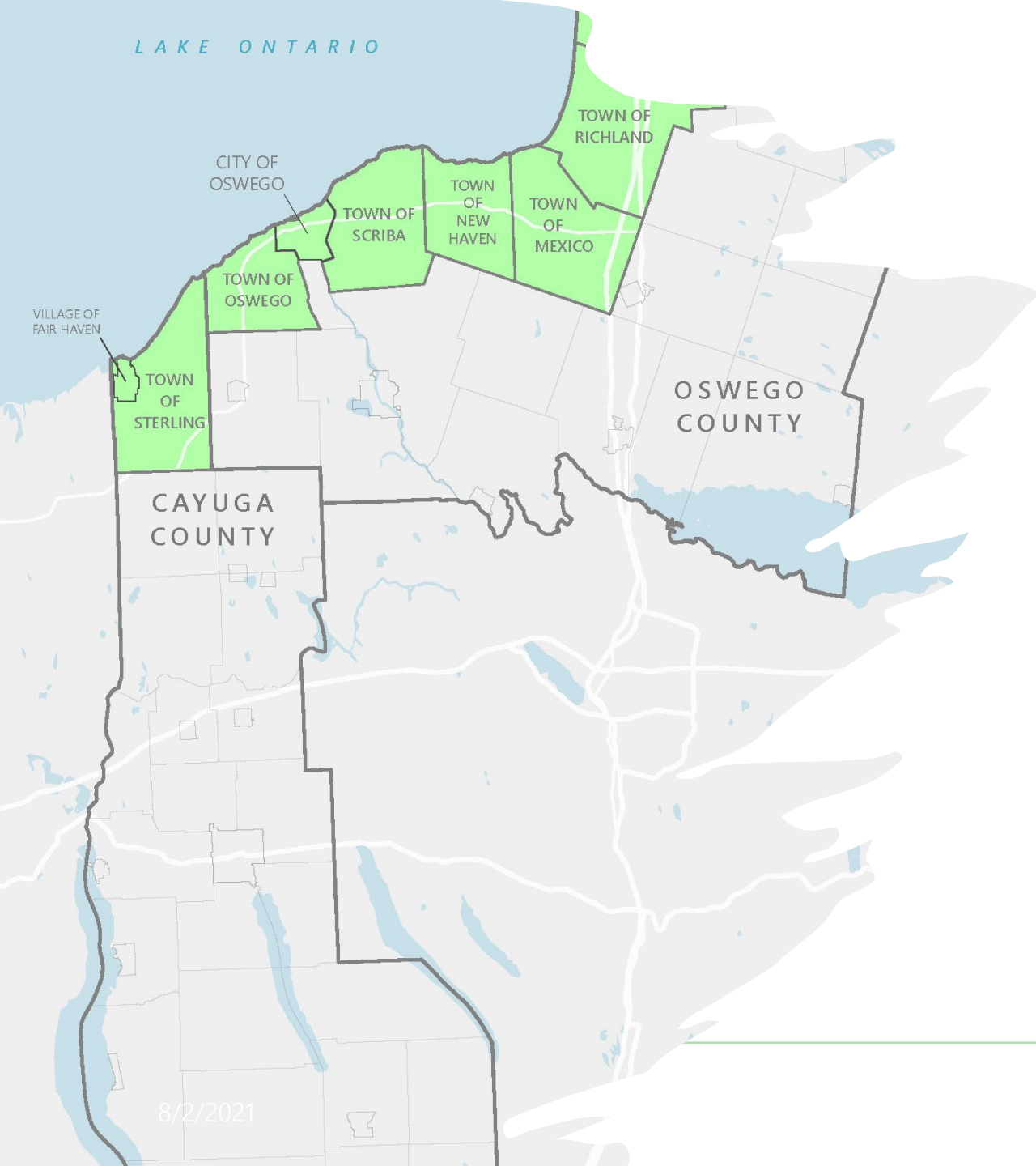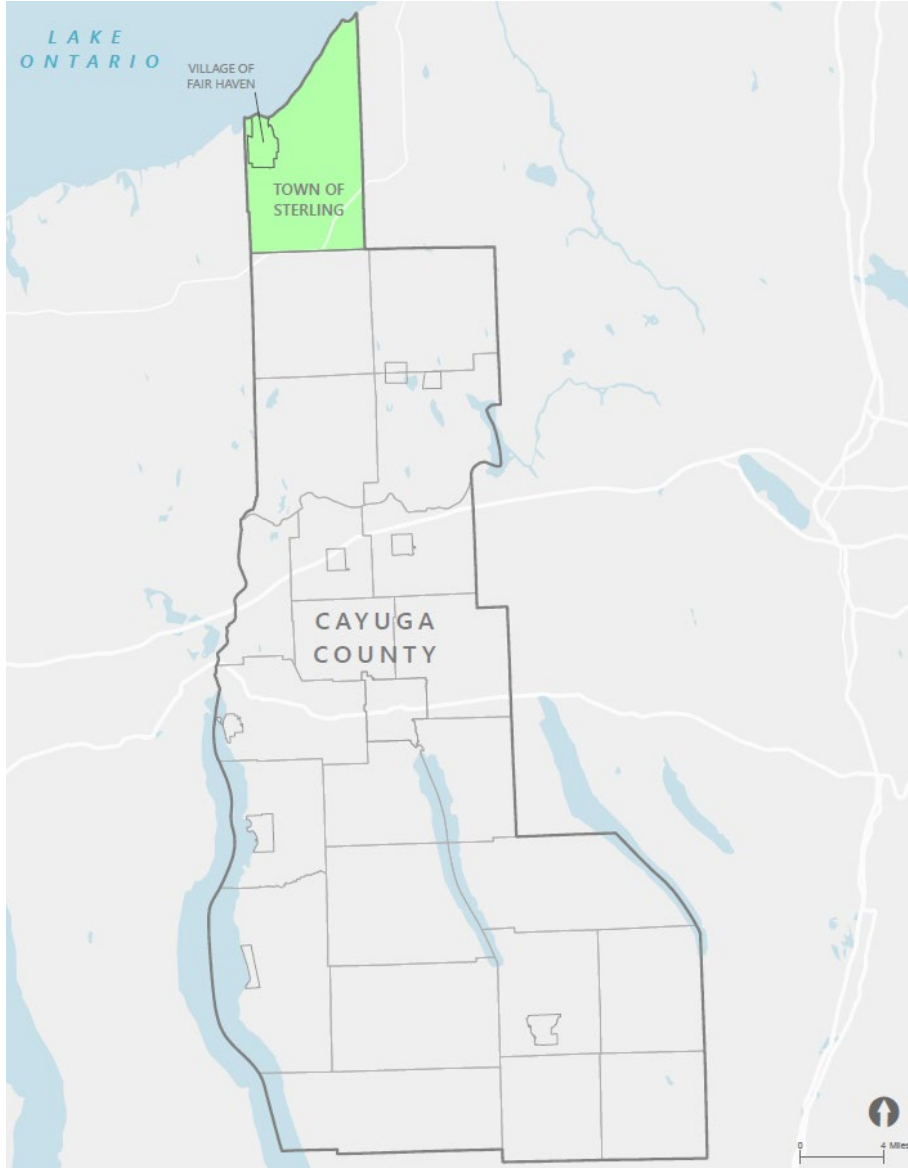
Central NY CLEAR

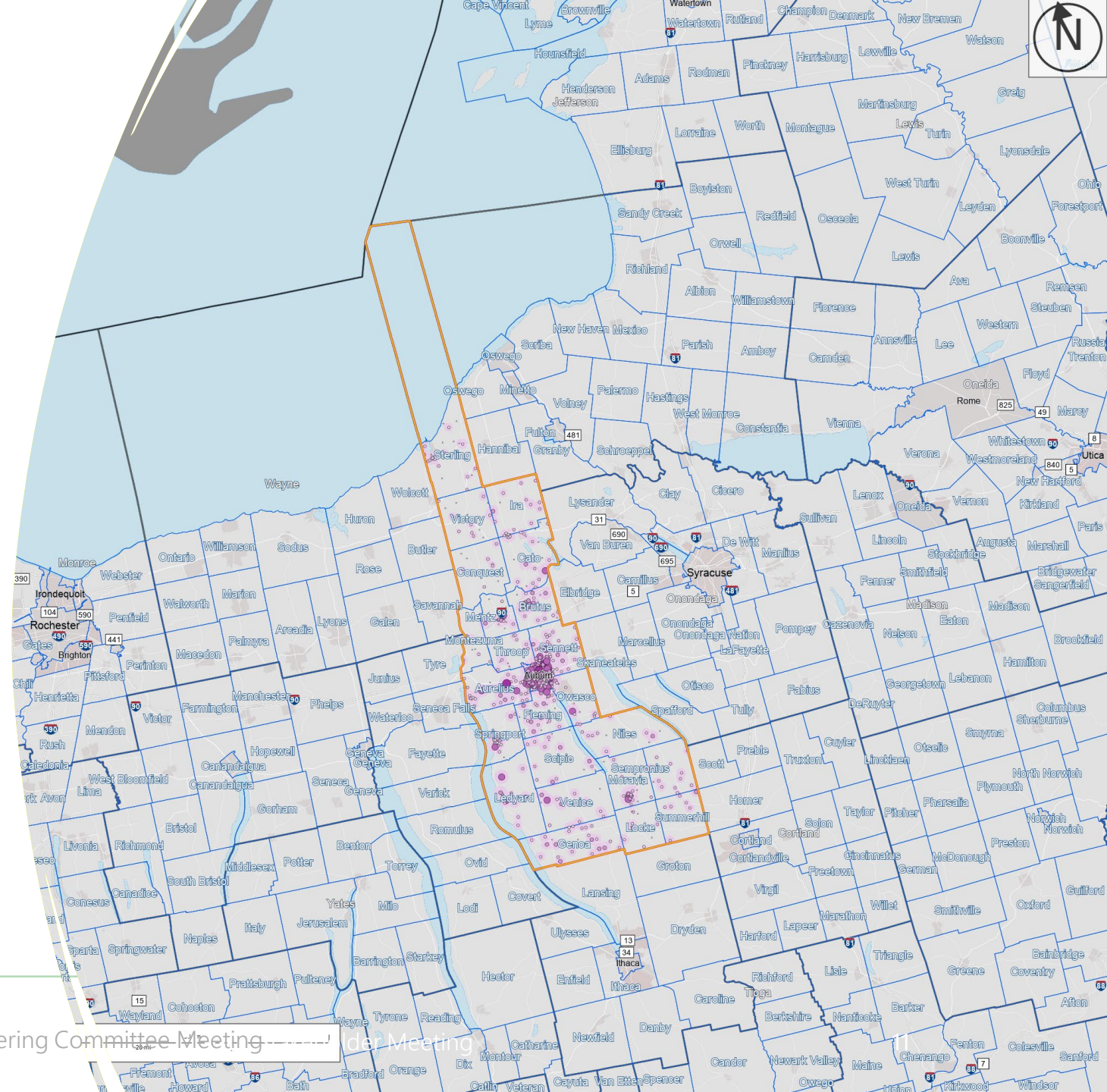The Cayuga-Oswego region contains 53 miles of shoreline along Lake Ontario.

Cayuga County

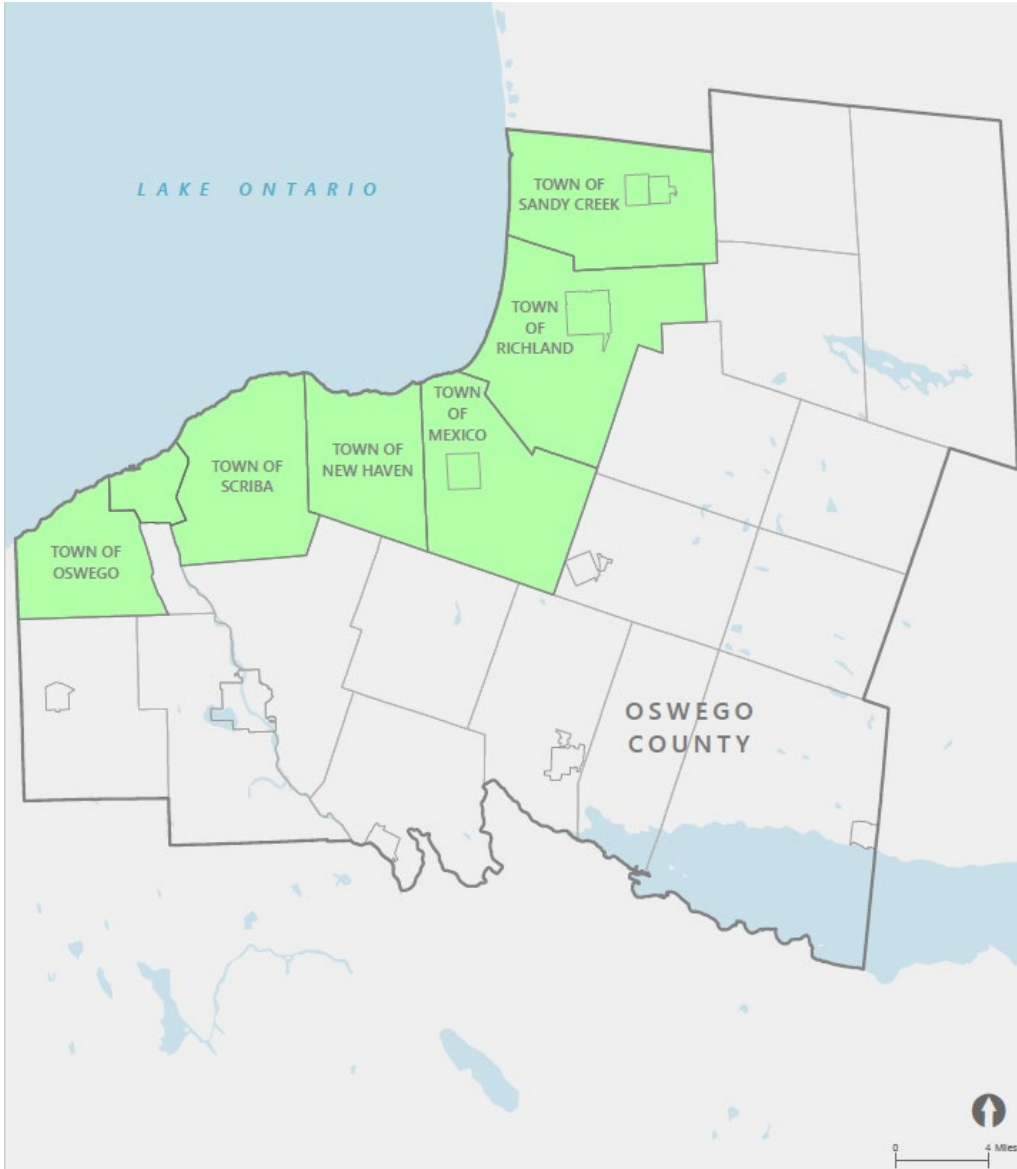Municipalities in the CLEAR study area comprise 5% of the county's population and 6% of the land within the county.

49% of the total assessed value of parcels in the county are in a risk area.

Cayuga County

Less than one percent (0.946%) of the County's jobs are within the CLEAR Study Area shoreline communities.
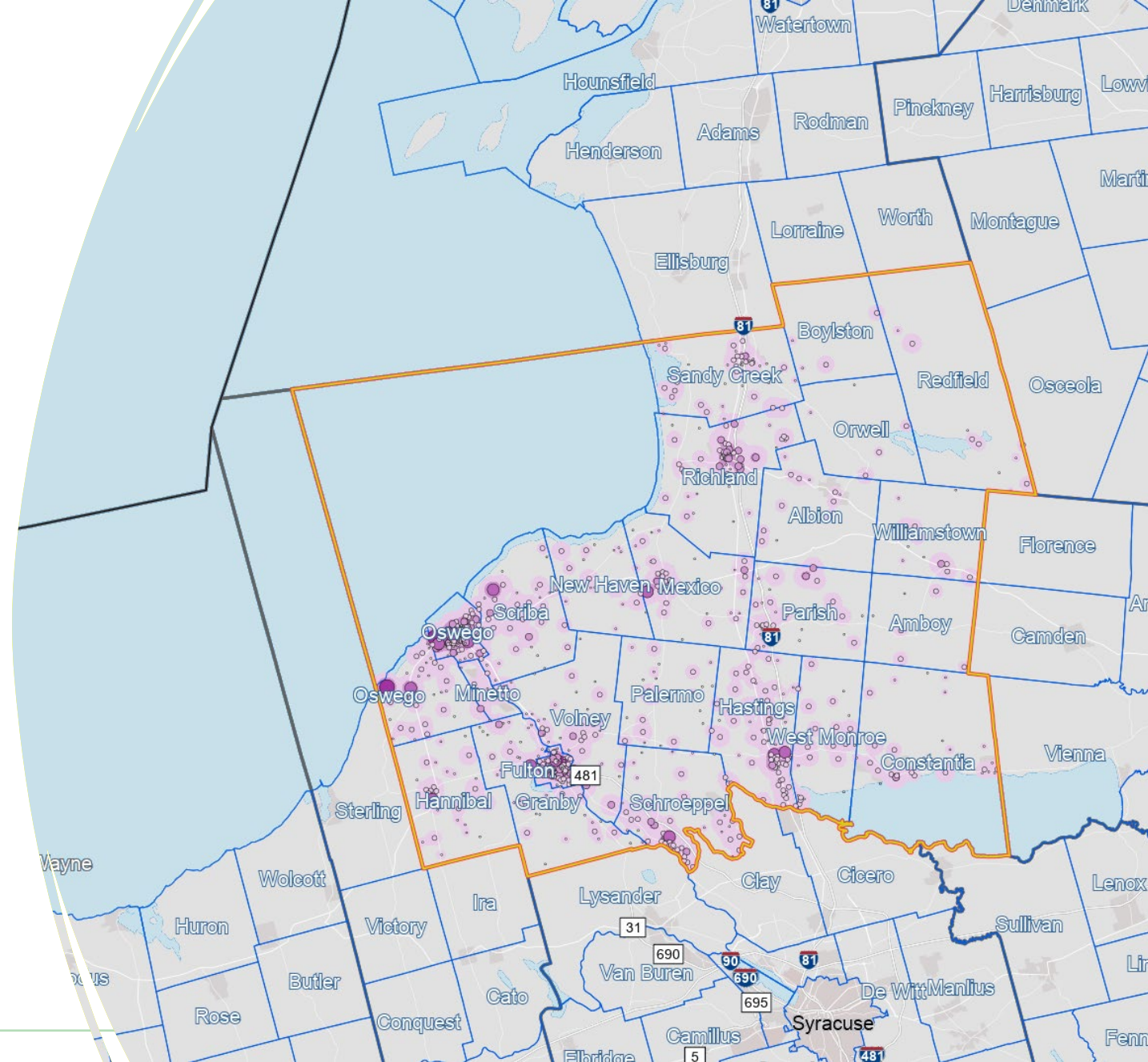
Oswego County

Municipalities in the CLEAR study area comprise 42% of the county's population and 19% of the land within the county.

60% of the total assessed value of parcels in the county are located in a risk area.

Oswego County

Over half (58.8%) of the County's jobs are within the CLEAR Study Area shoreline communities.

CLEAR Steering Committee Meeting

Example of Municipal Level Data
Town of Sandy Creek

4.9 miles of shoreline along Lake Ontario

CLEAR Steering Committee Meeting
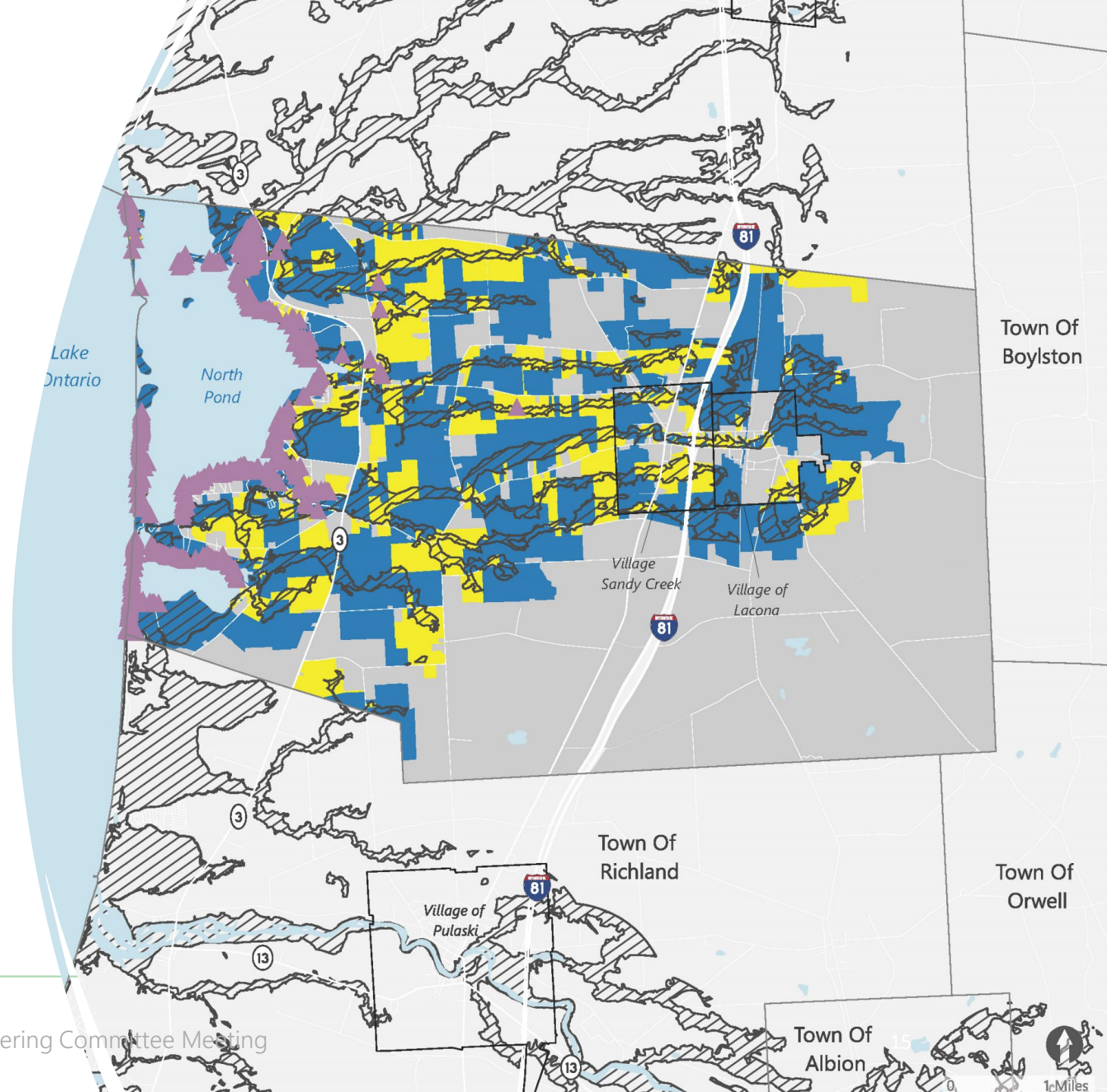
Example of Municipal Level Data
Town of Sandy Creek

48% of parcels located within the Risk Area.

Many are privately owned residences.
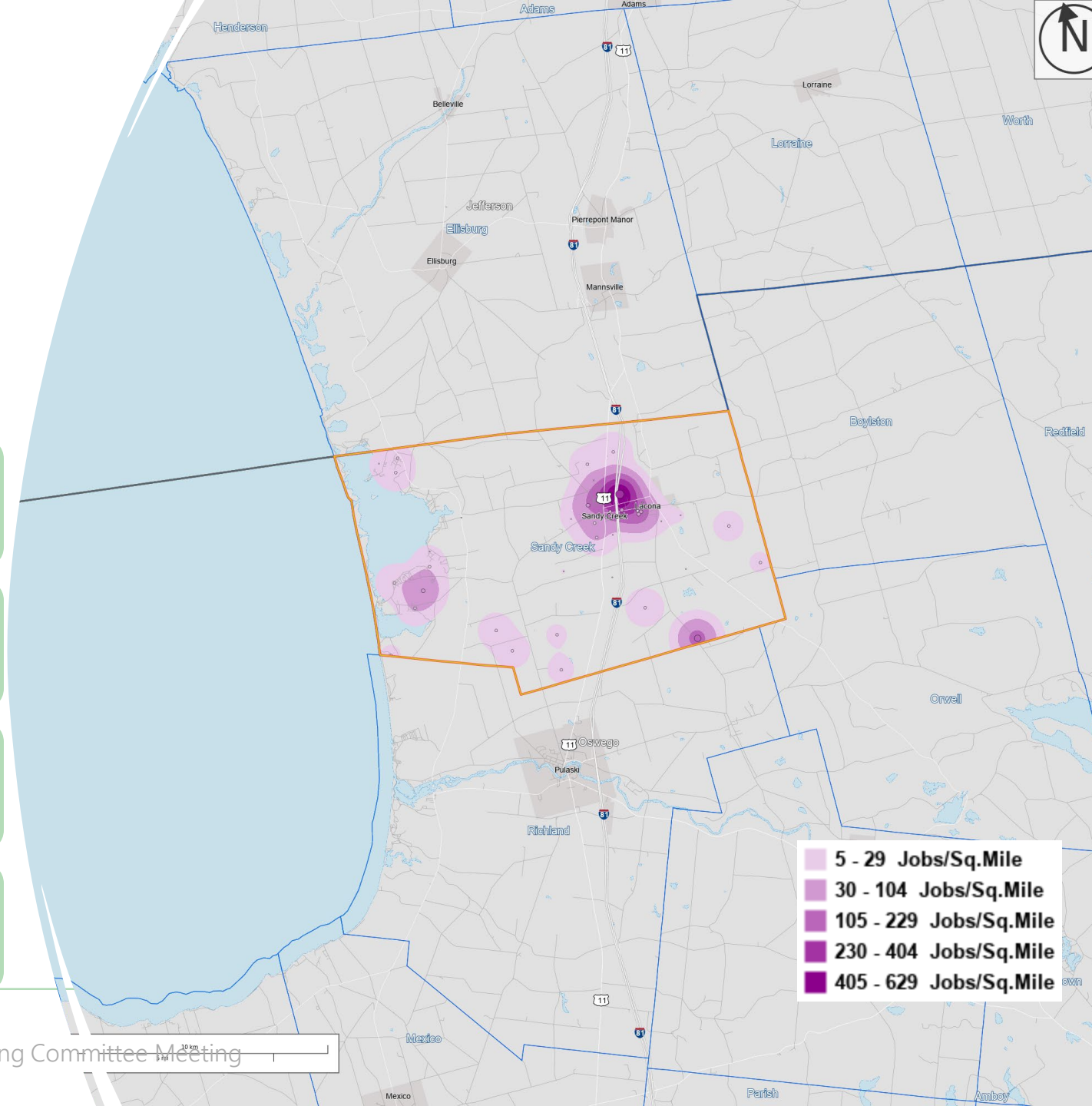
Example of Municipal Level Data
Town of Sandy Creek

Three employment centers located close to the shoreline

Slight population decline since 2000

Large number of privately owned residents

80% of homeowners with a mortgage are housing-cost burdened

5 - 29 Jobs/Sq.Mile
30 - 104 Jobs/Sq.Mile
105 - 229 Jobs/Sq.Mile
230 - 404 Jobs/Sq.Mile
405 - 629 Jobs/Sq.Mile

Regional Characterization

Watersheds and the Coastal Environment

Environmental Conditions

Water Level Changes and Use Impacts

Emerging Concerns

CLEAR Steering Committee Meeting
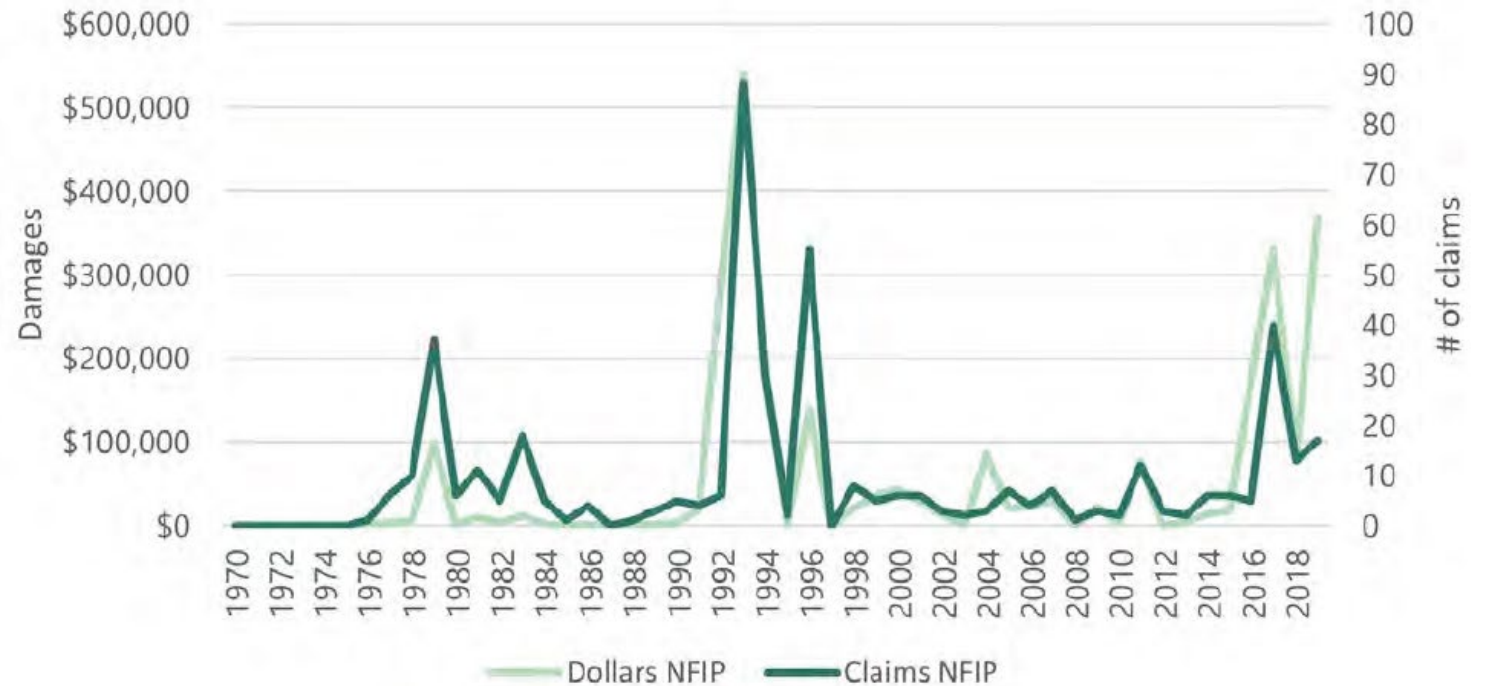
Regional Characterization

Flooding

- Storm & disaster events
- Damages & claims
- 2017 Coastal Flooding Survey Photos

NATIONAL FLOOD INSURANCE POLICY CLAIMS AND DAMAGES
IN DOLLARS PER YEAR FOR CAYUGA-OSWEGO REGION

Source: Natural Resource Defense Council. Flood Data Visualization Tool. Available at: https://www.nrdc.org/resources/losing-ground-flood-visualization-tool (Accessed April 2021).

Regional Characterization

Climate Impact

Extreme Event Projections
Region 6 - Oswego County

	2020s			2050s			2080s		
	Low Estimate (10th Percentile)	Middle Range (25th to 75th Percentile)	High Estimate (90th Percentile)	Low Estimate (10th Percentile)	Middle Range (25th to 75th Percentile)	High Estimate (90th Percentile)	Low Estimate (10th Percentile)	Middle Range (25th to 75th Percentile)	High Estimate (90th Percentile)
Days over 90°F (3 days)	5	6 to 8	10	9	12 to 21	26	12	17 to 44	57
# of Heat Waves (0.2 heat waves)	0.6	.8 to 0.9	1	1	1 to 3	3	1	2 to 6	7
Duration of Heat Waves (4 days)	3	4 to 4	4	4	4 to 4	5	4	4 to 6	6
Days below 32°F (147 days)	116	119 to 126	116	96	102 to 113	119	78	85 to 104	114
Days over 1" Rainfall (6 days)	6	7 to 8	6	7	7 to 8	9	7	7 to 9	10

Extreme Event Projections
Region 7 - Cayuga County

	2020s			2050s			2080s		
	Low Estimate (10th Percentile)	Middle Range (25th to 75th Percentile)	High Estimate (90th Percentile)	Low Estimate (10th Percentile)	Middle Range (25th to 75th Percentile)	High Estimate (90th Percentile)	Low Estimate (10th Percentile)	Middle Range (25th to 75th Percentile)	High Estimate (90th Percentile)
Days over 90°F (8 days)	12	14 to 17	19	18	22 to 34	42	22	27 to 57	73
# of Heat Waves (0.7 heat waves)	2	2 to 2	2	2	3 to 4	5	3	3 to 8	8
Duration of Heat Waves (4 days)	4	4 to 4	4	4	4 to 5	5	4	5 to 6	6
Days below 32°F (133 days)	99	103 to 111	116	78	84 to 96	102	59	68 to 38	97
Days over 1" Rainfall (5 days)	4	5 to 5	6	4	5 to 5	0	4	5 to 6	7

Regional Characterization

Social Vulnerability

- Socioeconomic Status
- Household Composition & Disability
- Housing Type & Transportation
- Minority Status & Language

SOCIAL VULNERABILITY INDEX (SVI)
OVERALL RANKING

- 0 - 0.24
- 0.25 - 0.49
- 0.50 - 0.74
- 0.75 - 1

RISK AREAS

- EXTREME
- HIGH
- MODERATE

POTENTIAL EJ AREA

TOWN OF SANDY CREEK

TOWN OF RICHLAND

CITY OF OSWEGO

TOWN OF SCRIBA

TOWN OF NEW HAVEN

TOWN OF MEXICO

TOWN OF OSWEGO

VILLAGE OF FAIR HAVEN

OSWEGO COUNTY

TOWN OF STERLING

CAYUGA COUNTY
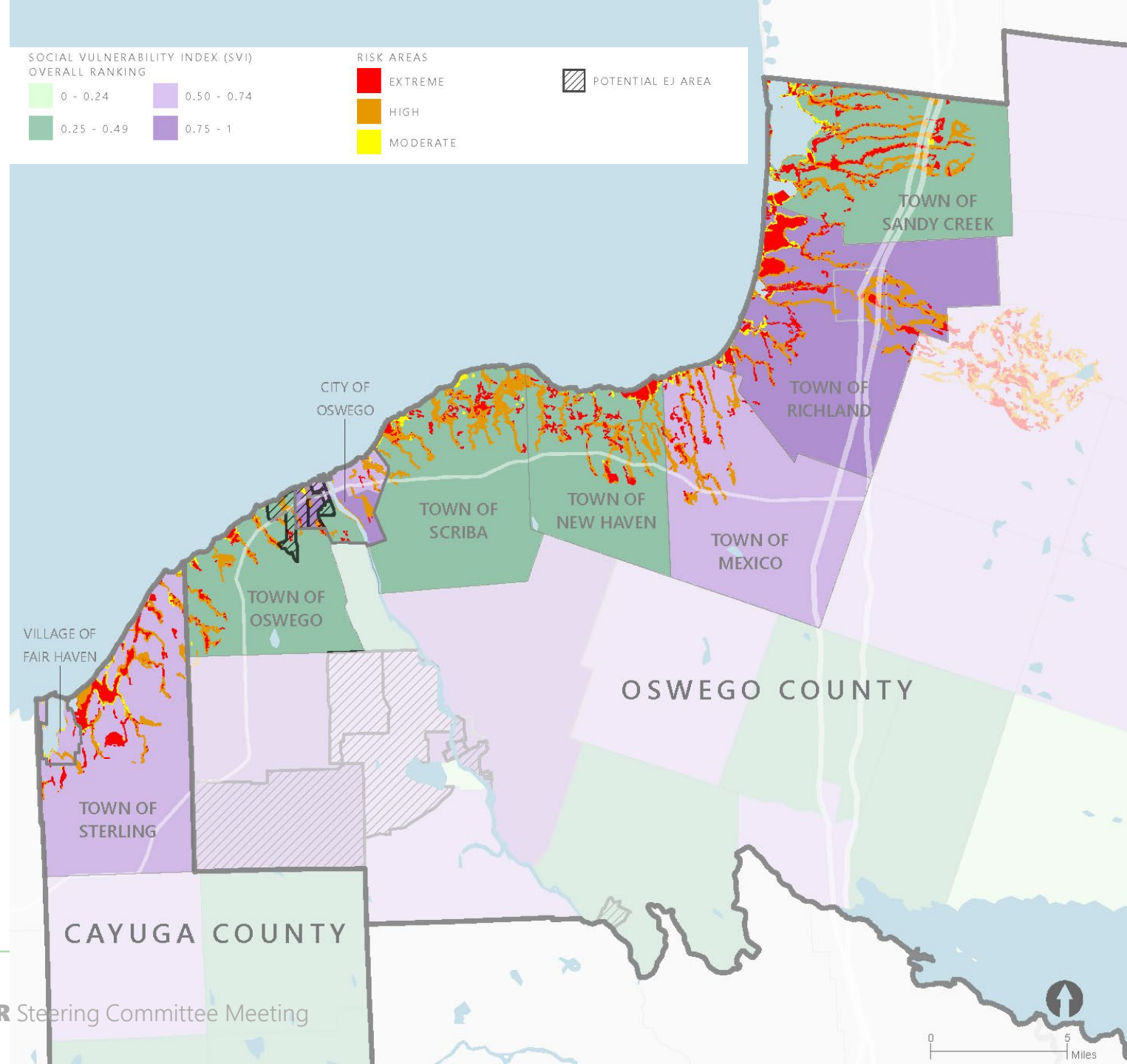
Regional Characterization

Tourism & Recreation

Parks (State and other)

Trails (hiking, bike, snowmobile)

Marinas, restaurants, cottages/RV parks

Nature areas, camping, fishing licenses
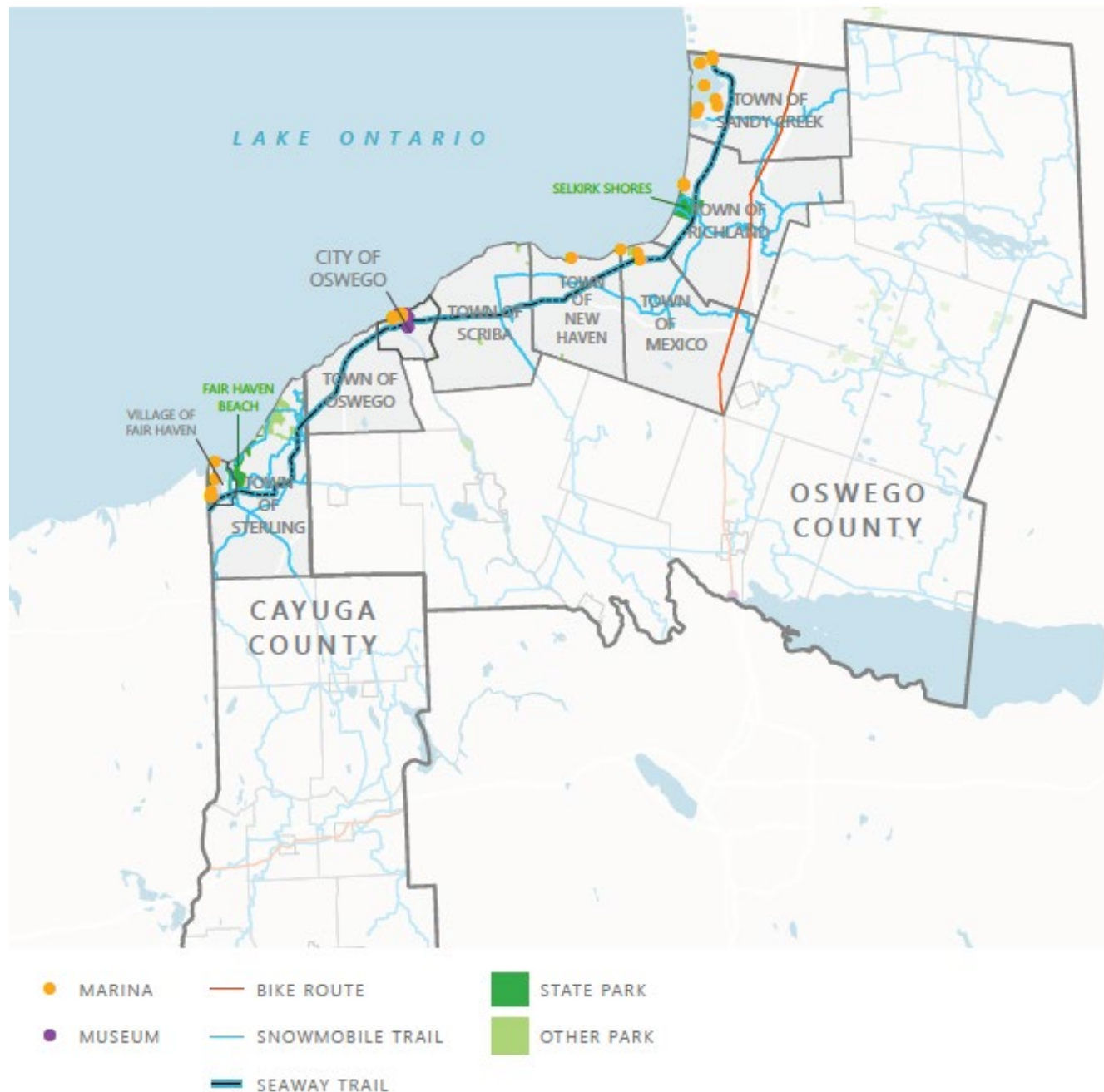
Regional Characterization

Regional Stressors

Industrial decline

Population decline

Poverty

Ecological imbalance

July 28, 2021

Asset Inventory: Cayuga-Oswego

Overall Goal:

Create a "living inventory" that draws from multiple planning initiatives and local sources

General Asset Classifications:
- Economic
- Health and Social Services
- Housing
- Infrastructure Systems
- Natural and Cultural Resources

Preliminary Asset Mapping: Vulnerable Seasonal Residential Clusters

Shown: Town of Richland, Oswego County

Ramona Beach

SEASONAL RESIDENTIAL
FULL-TIME RESIDENTIAL
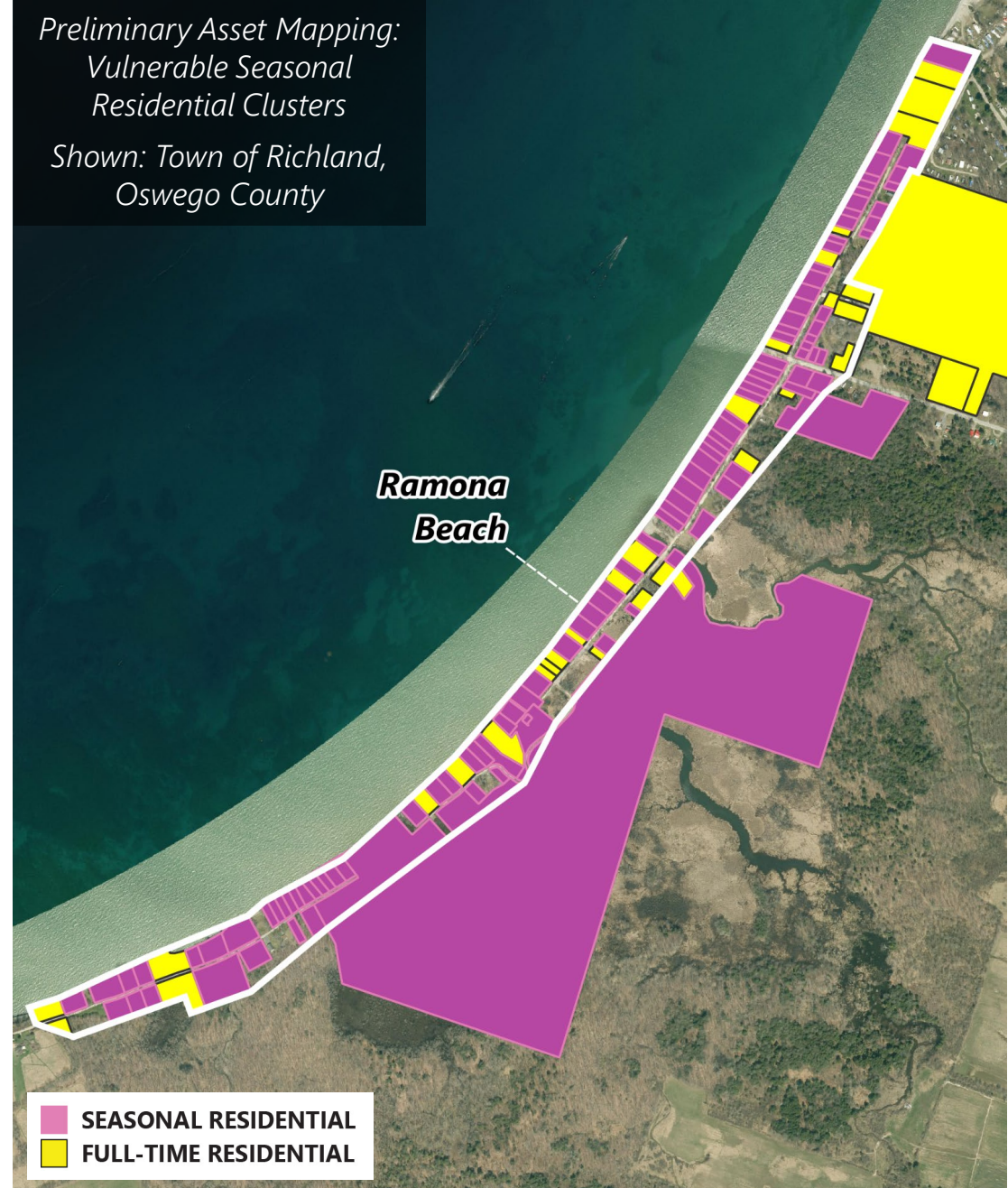
Asset Inventory: Cayuga-Oswego

Critical sources for the CLEAR initiative:

- Steering Committee input
- Look & Listen Tour feedback
- Public Workshop feedback
- Focus group sessions
- Review of local and regional planning documents

CAPACITY NEEDS FOR PLANNING

DETERIORATION OF EXISTING BREAK WALL...

Lakeshore area just west of City of Oswego
Town of Oswego, Oswego County
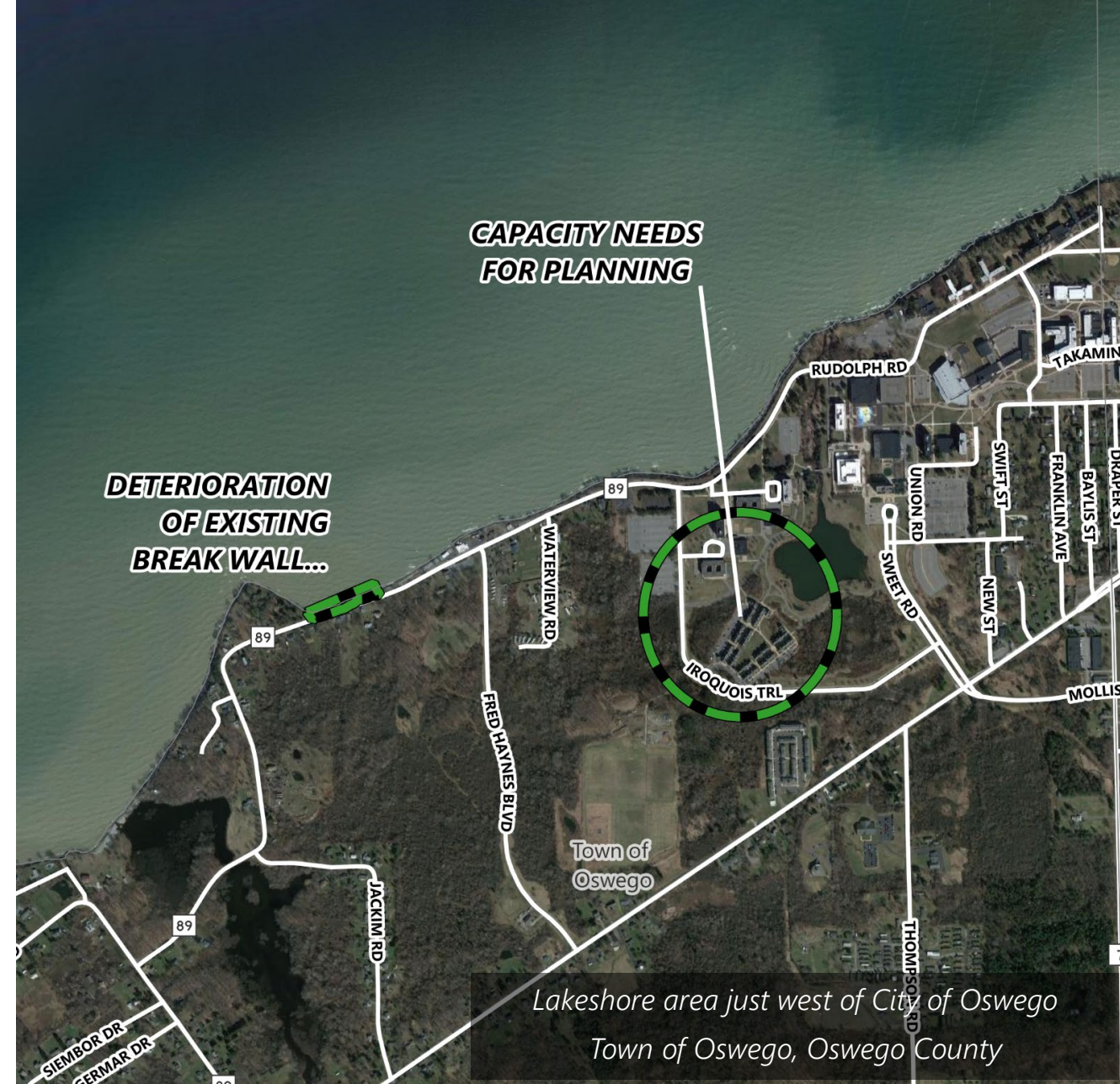
Asset Inventory: Cayuga-Oswego

Expanded asset information advanced through CLEAR:

- REDI Projects/Asset Inventory
- Natural Protective Features
- Residential Clusters
- Critical Facilities
- Locally-Designated Significant Facilities
- Funded Projects
- Proposed Projects

Mexico Point Park

New York State Boat Launch

60 Homes on the Little Salmon River

75 Homes

Dowiedale Campground and Marina

Salmon Country Inc. (Marina)

Town of Mexico

Mike's Marina East & West

Risk Area
- Extreme
- High
- Moderate

Asset Categories
- $ Economic
- ✚ Health_and_Social_Services
- ⌂ Housing
- ✳ Infrastructure Systems
- ♲ Natural and Cultural Resources

Little Salmon River, Town of Mexico Oswego County

Resiliency is...

...the capacity for a community and its ecosystem to withstand extreme events and other forces or risks; quickly recover the interconnected social, economic, and ecological systems' structure and function in the aftermath of a disaster; and develop ongoing adaptability to rapidly changing environmental conditions and forces.   *(NYS CMP, 2016)*

Guiding Themes to Achieve the Vision:

- Improve our collective **understanding and communication** of coastal processes and impacts of climate change on Lake Ontario [and the St. Lawrence River]
- Protect **public health and safety** including the most vulnerable members of our communities
- Protect and maintain the **unique natural systems** across our shoreline region
- Guide land use decisions and remedial measures with an understanding of **dynamic shoreline and coastal processes**
- Enable our region to continue as an attractive destination **for water-based recreation and cultural events**
- Protect community investment in **wastewater and water infrastructure**
- Protect public and private investments in the **built environment**
- Ensure a **sustainable future** for generations to come

Vision Statement

The region has implemented effective strategies to maintain the vibrancy of our shoreline communities while protecting the ecosystem services and functions that sustain us all. The strategies reflect a shared commitment among individuals, communities, and regional/state partners to prepare for and respond to fluctuating water levels in Lake Ontario.

Homework

- Community profile – expect August 9
    Submit feedback by August 18
    Use comment feature of PDF

- Promote CLEAR and Public Workshop #2
    - Public Speaker Program and Materials

Next Steps for Cayuga – Oswego CLEAR

Stakeholder Focus Groups: August - September

SC Meeting #5: **August 25, 2:00-3:00 PM**

Public Workshop #2: **September 22, 6:00 PM-7:30 PM**

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