Steering Committee Meeting 4 Jefferson-St. Lawrence 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
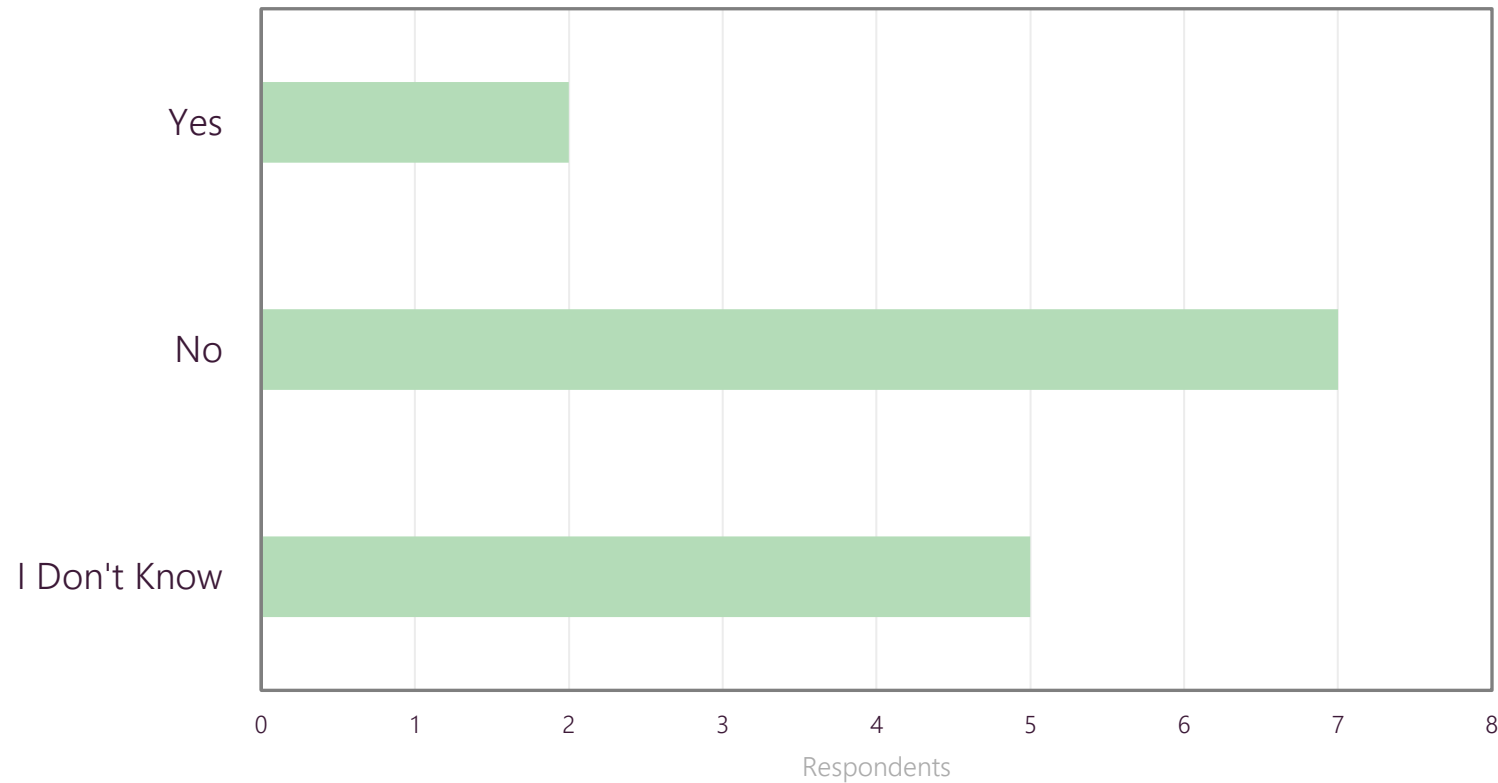- Homework and Next Steps

July 28, 2021

CLEAR Deliverables

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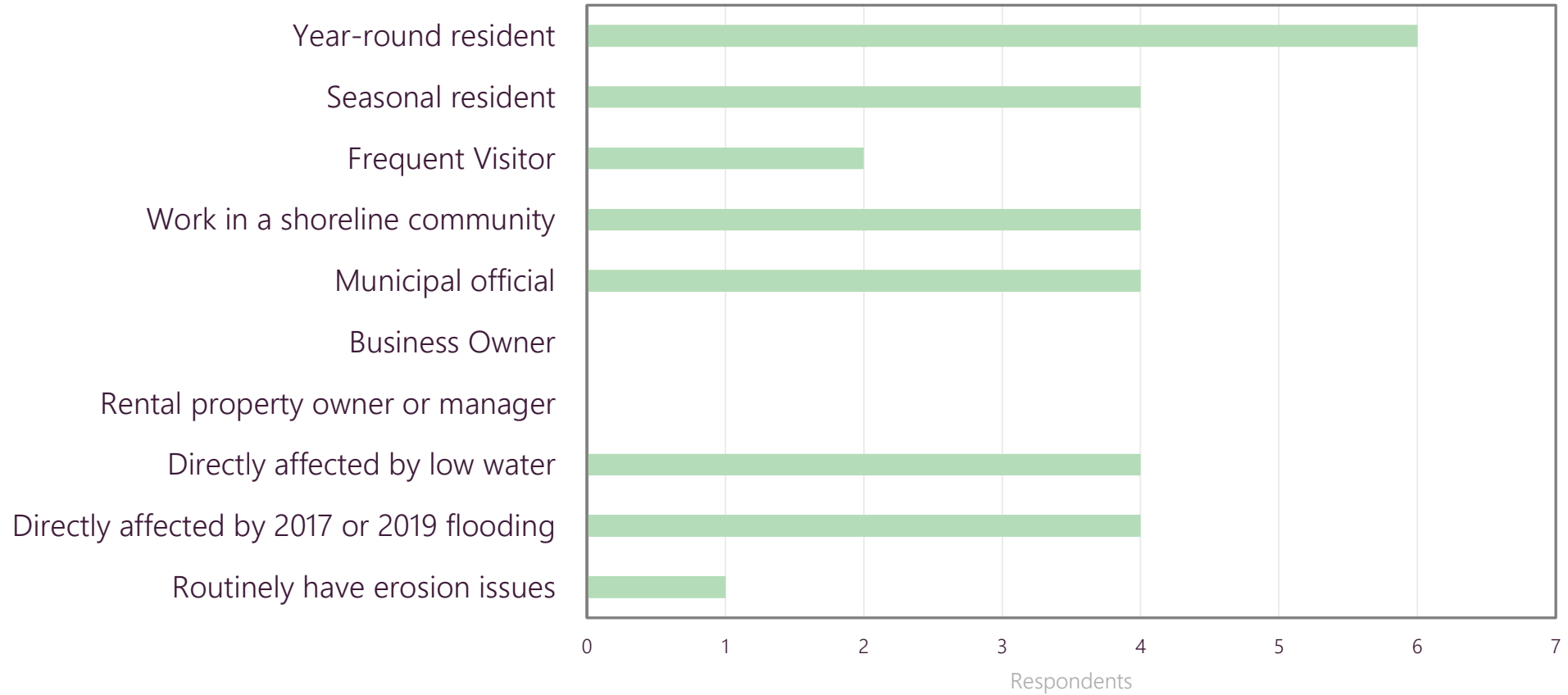 - Long-term Strategies, Projects, Programs, Actions

Is your community prepared to withstand and recover from extreme water levels?

How Did You Hear About This Meeting?
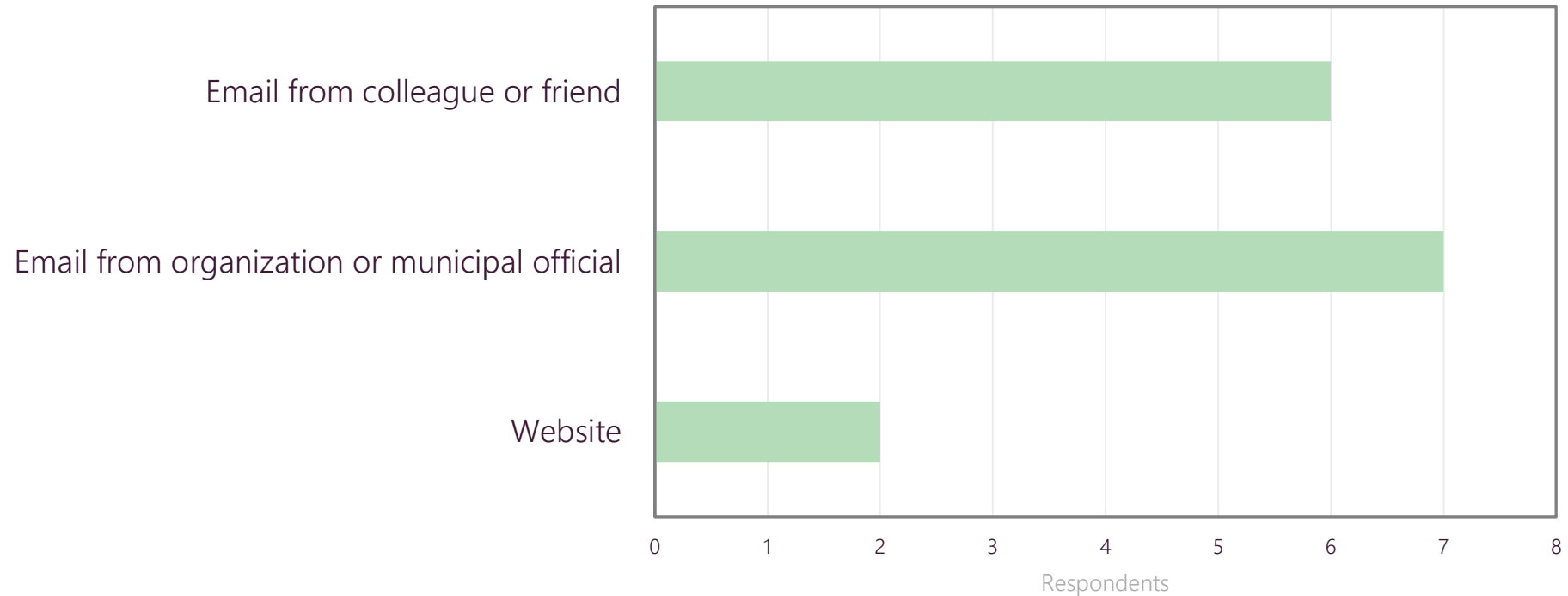
Tell Us About Yourself.

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
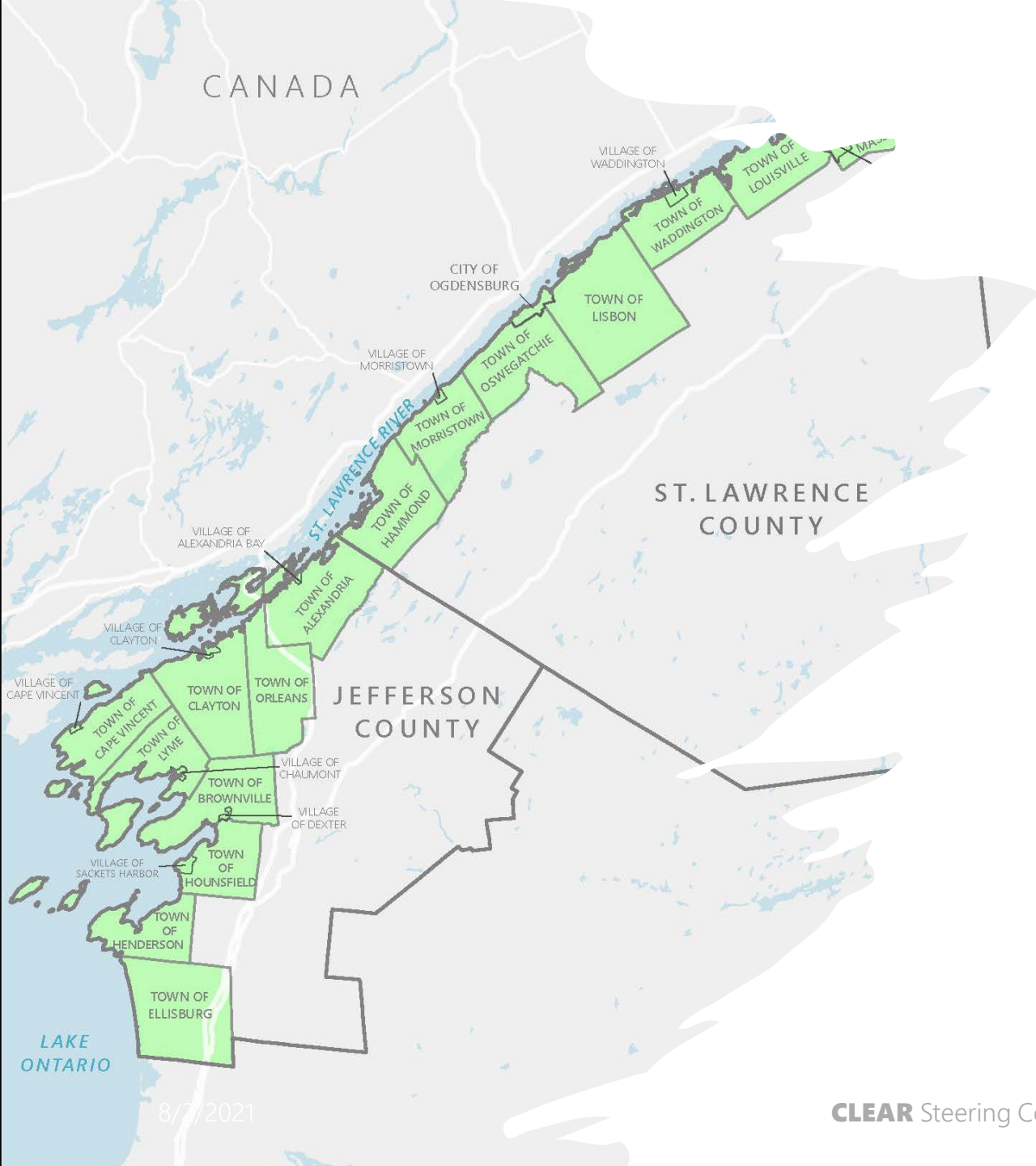
Progress Update: Community Profile

The Community Profile provides a foundation of data to guide resiliency planning in the Jefferson St. Lawrence 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.

North Country CLEAR
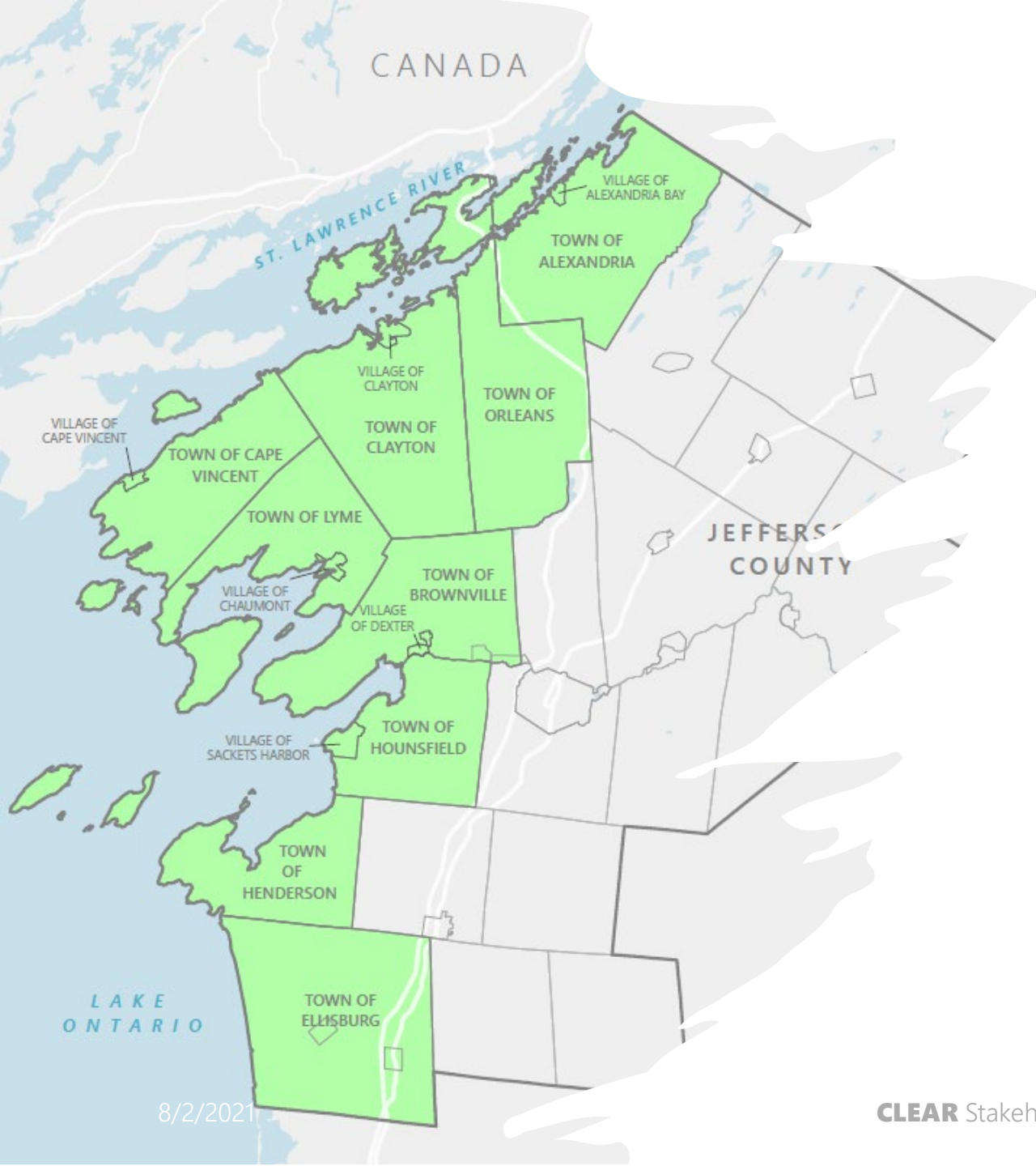
The Jefferson - St. Lawrence region contains 680 miles of shoreline along both Lake Ontario and the St. Lawrence River.

CLEAR Steering Committee Meeting

Jefferson County

Municipalities in the CLEAR study area comprise 34% of the county's population and 49% of the land within the county.

62% of the total assessed value of parcels in the county are located in a risk area.

8/2/2021

Jefferson County

Over a quarter (26%) of the County's jobs are within the CLEAR Study Area shoreline communities.
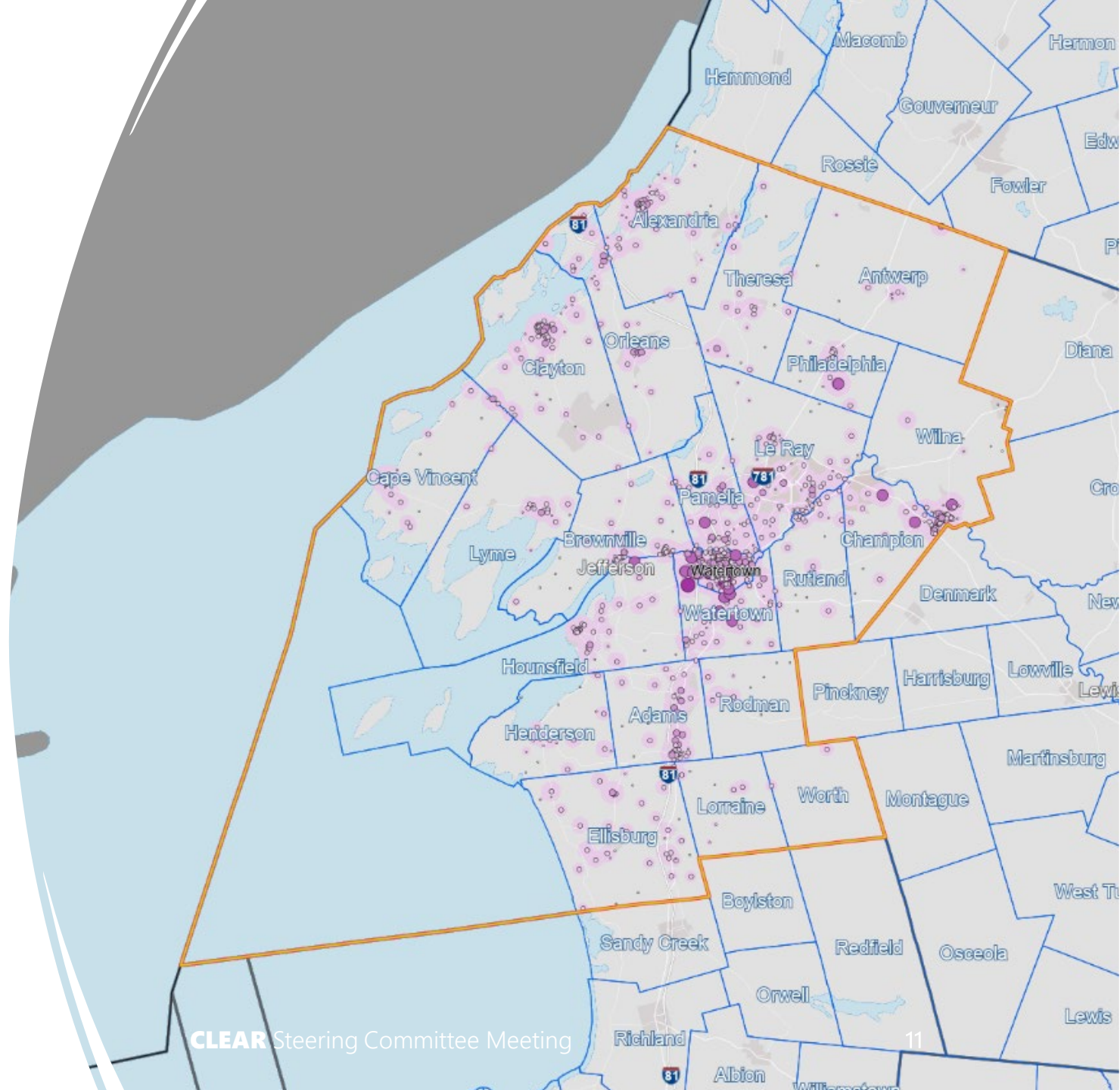
St. Lawrence County

Municipalities in the CLEAR study area comprise 46% of the county's population and 18% of the land within the county.

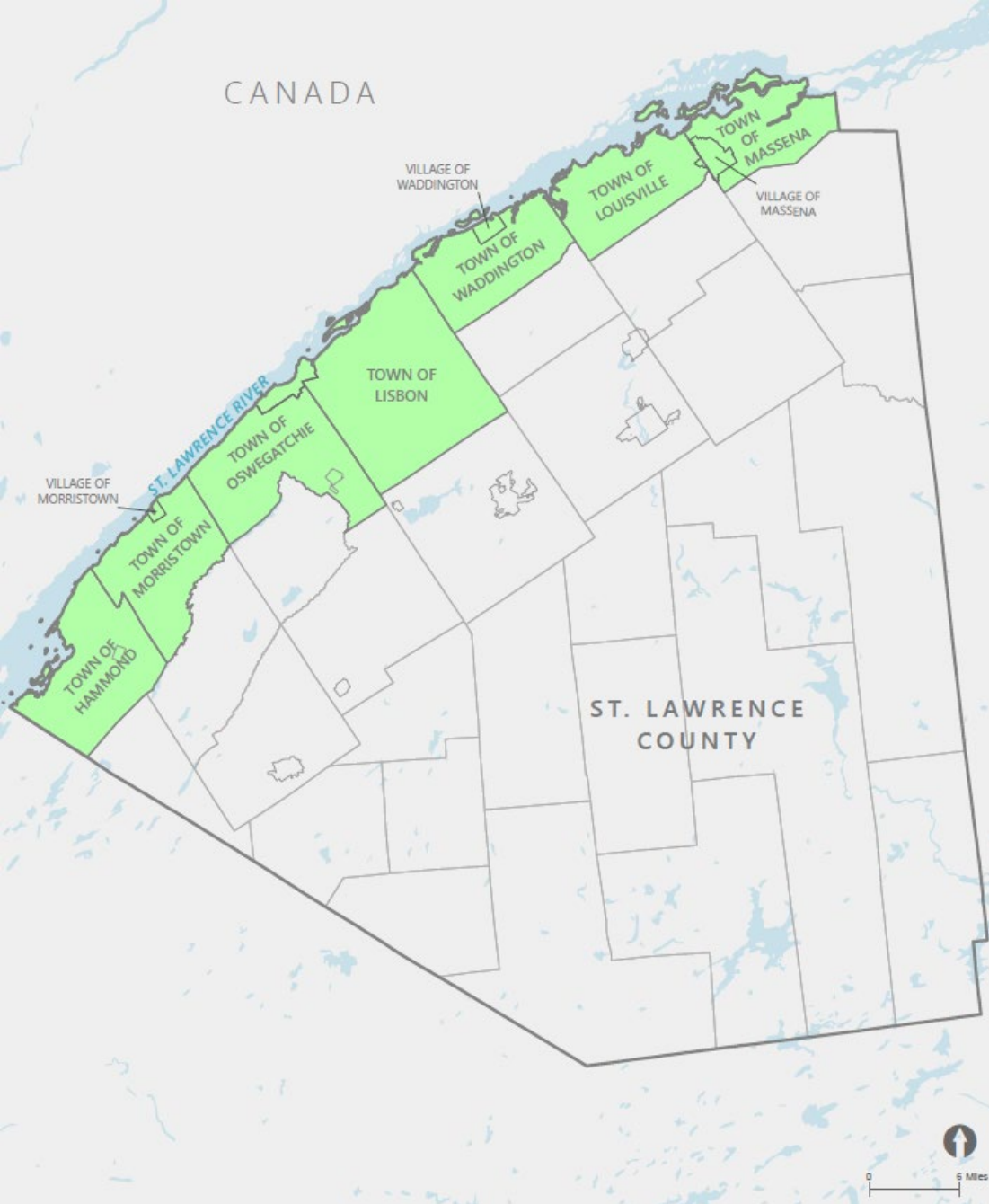56% of the total assessed value of parcels in the county are located in a risk area.

St. Lawrence County

Nearly half (46%) of the County's jobs are within the CLEAR Study Area shoreline communities.
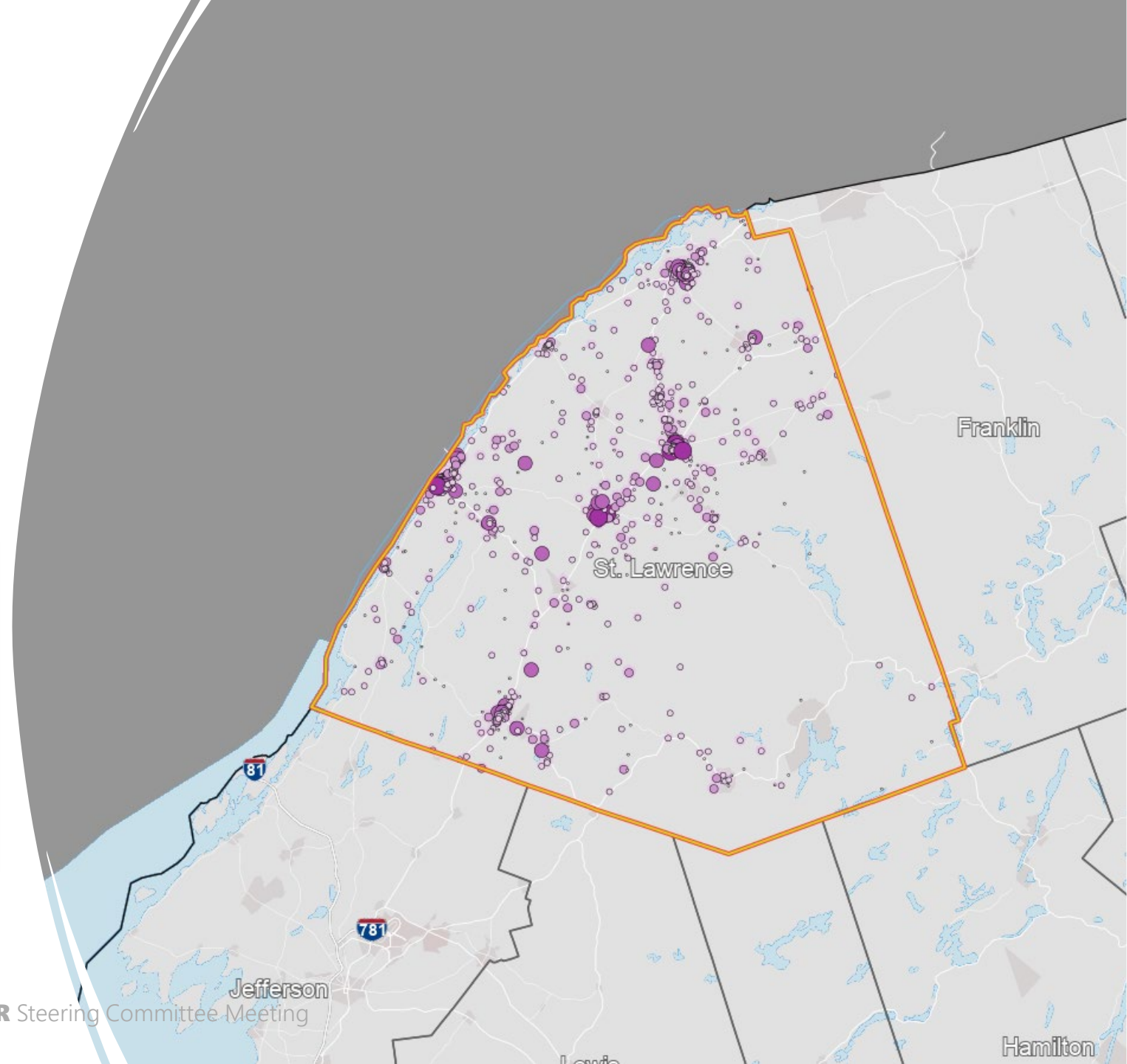
Example of Municipal Level Data
Town of Cape Vincent

57 miles of shoreline along Lake Ontario and the St. Lawrence River
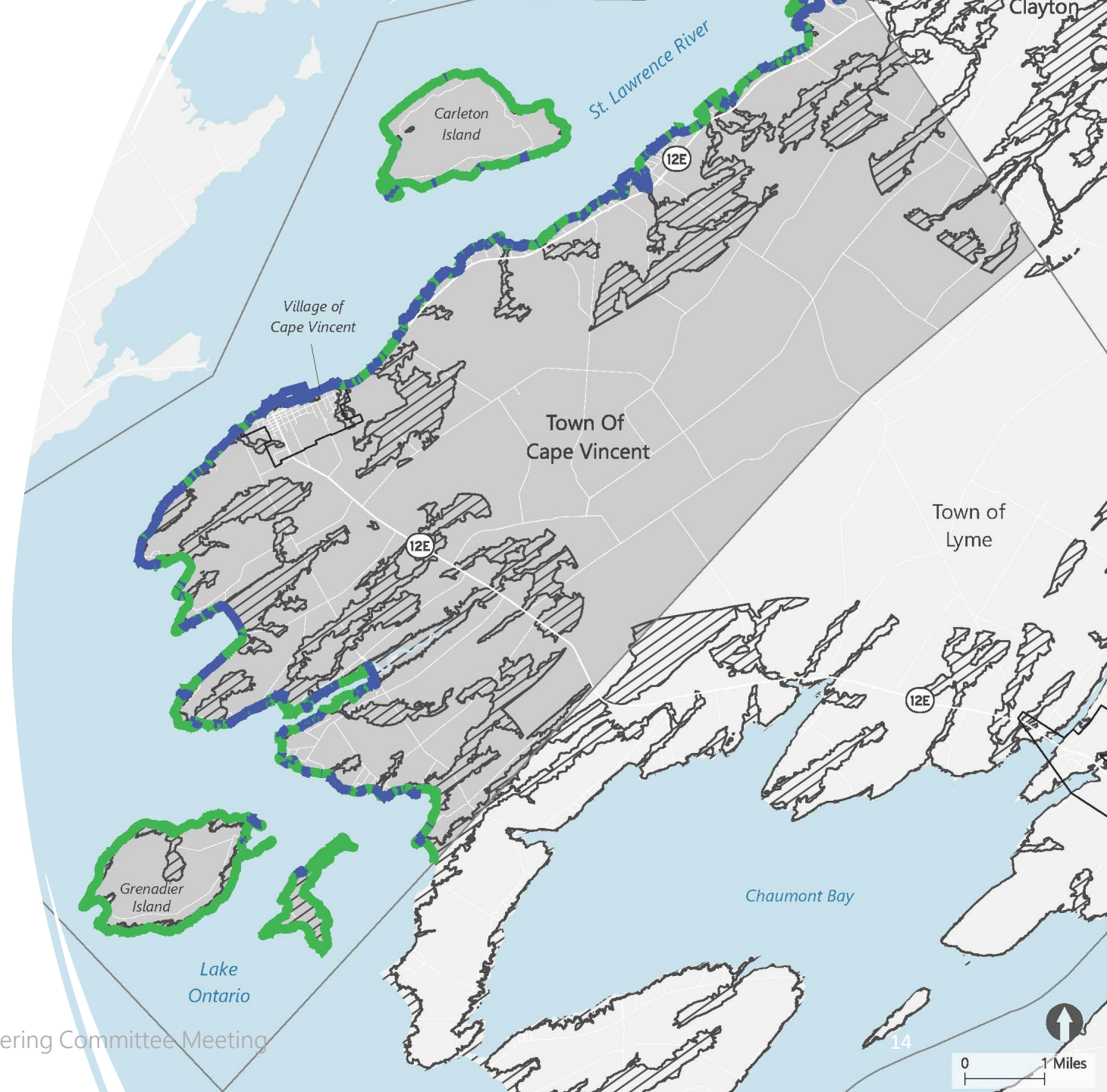
Example of Municipal Level Data
Town of Cape Vincent

58% of parcels located within the Risk Area.

Many are seasonal residences.
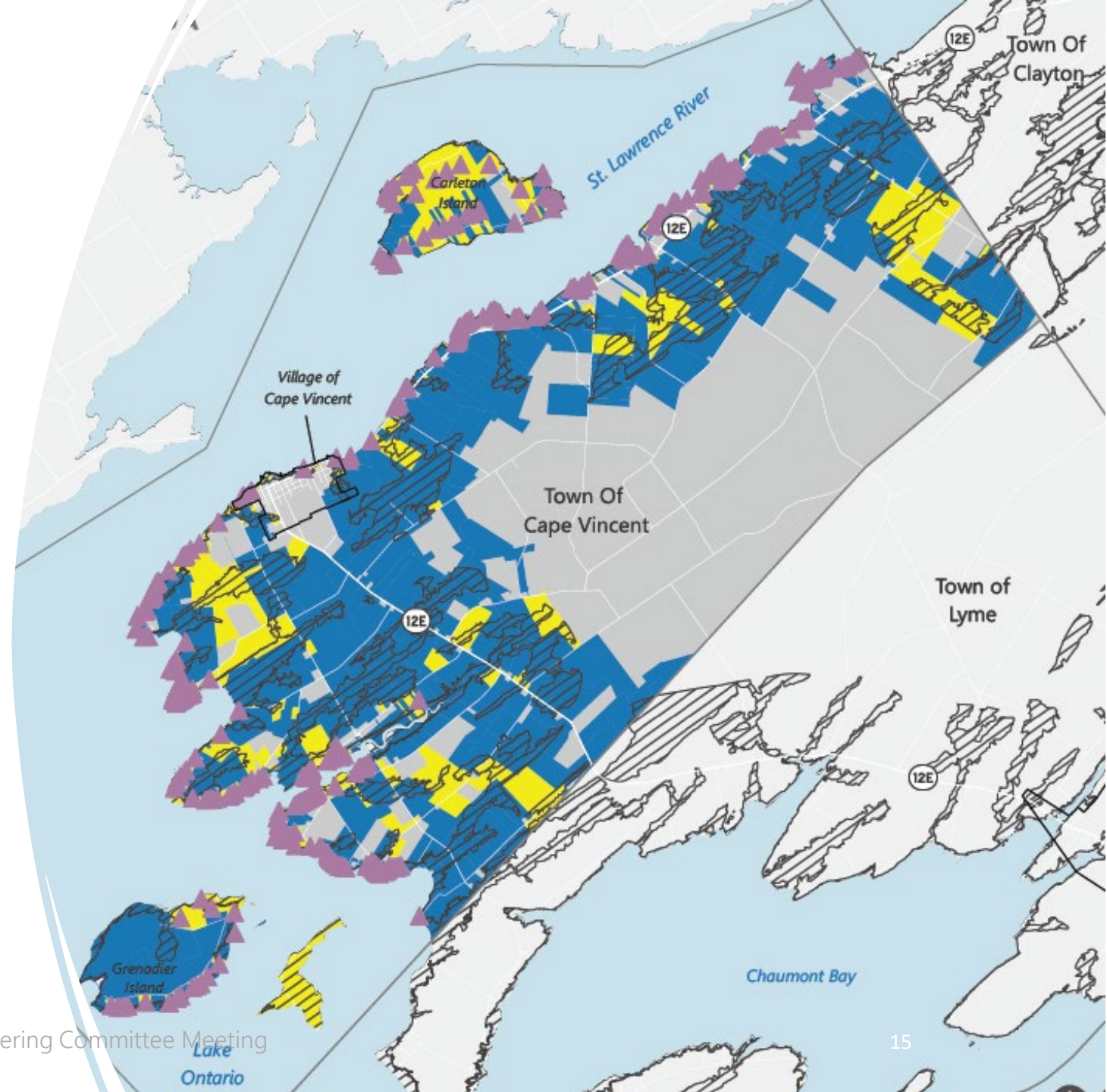
Example of Municipal Level Data
Town of Cape Vincent

Five of seven employment centers located close to the shoreline

Slight population decline since 2000

Large number of seasonal residents

30% of homeowners with a mortgage are housing-cost burdened

Cape Vincent

Cape Vincent

Three Mile Bay

5 - 12 Jobs/Sq.Mile
13 - 33 Jobs/Sq.Mile
34 - 68 Jobs/Sq.Mile
69 - 118 Jobs/Sq.Mile
119 - 182 Jobs/Sq.Mile
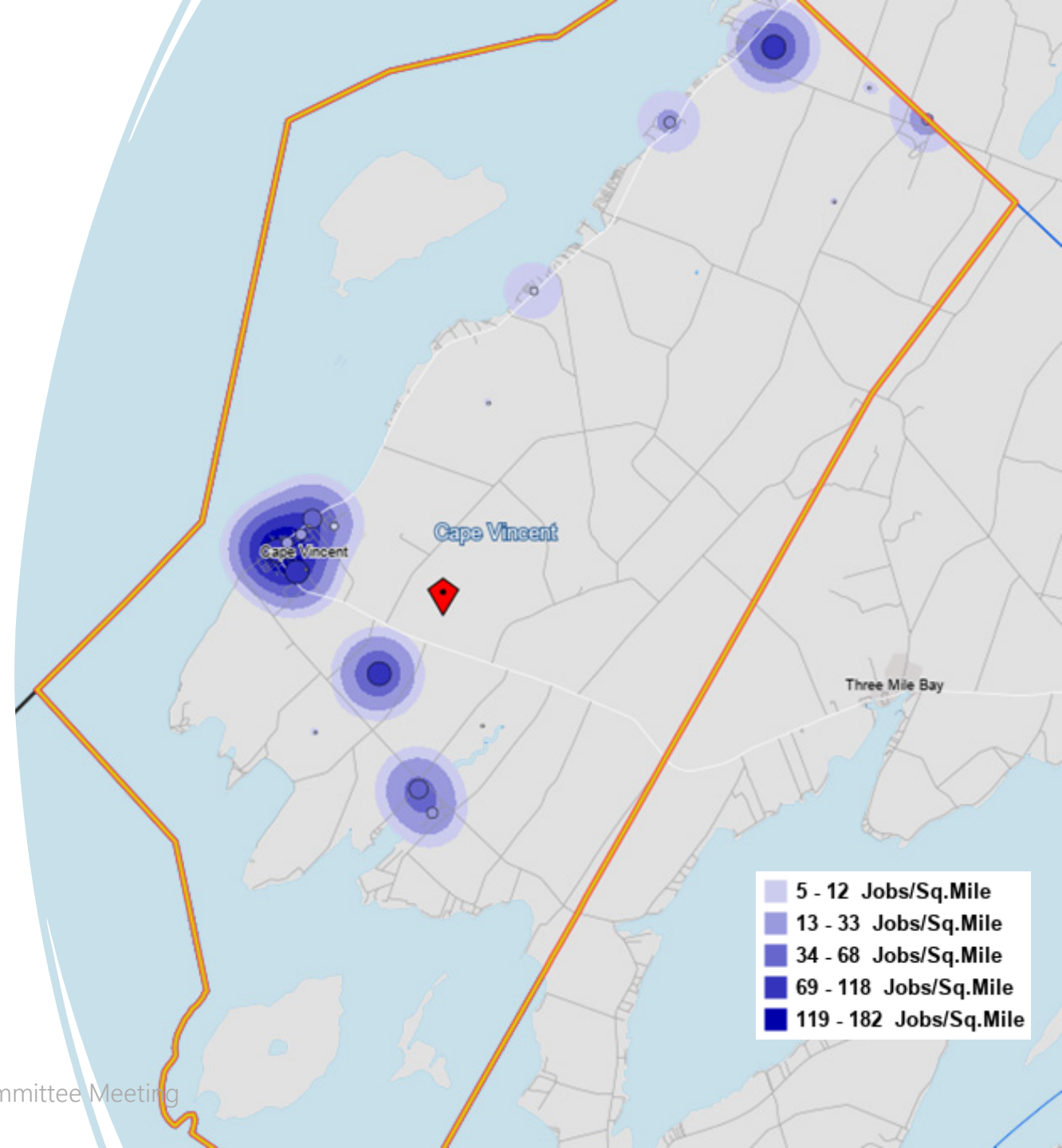
Regional Characterization

Watersheds and the Coastal Environment

Environmental Conditions

Water Level Changes and Use Impacts

Emerging Concerns

WATERSHED (HUC 8)

- BLACK
- CHAUMONT-PERCH
- GRASS
- HEADWATERS-ST. LAWRENCE RIVER
- INDIAN
- OSWEGATCHIE
- RAISIN RIVER-ST. LAWRENCE RIVER
- RAQUETTE
- SALMON-SANDY
- ST. REGIS
- ~ SUBWATERSHED (HUC 12)
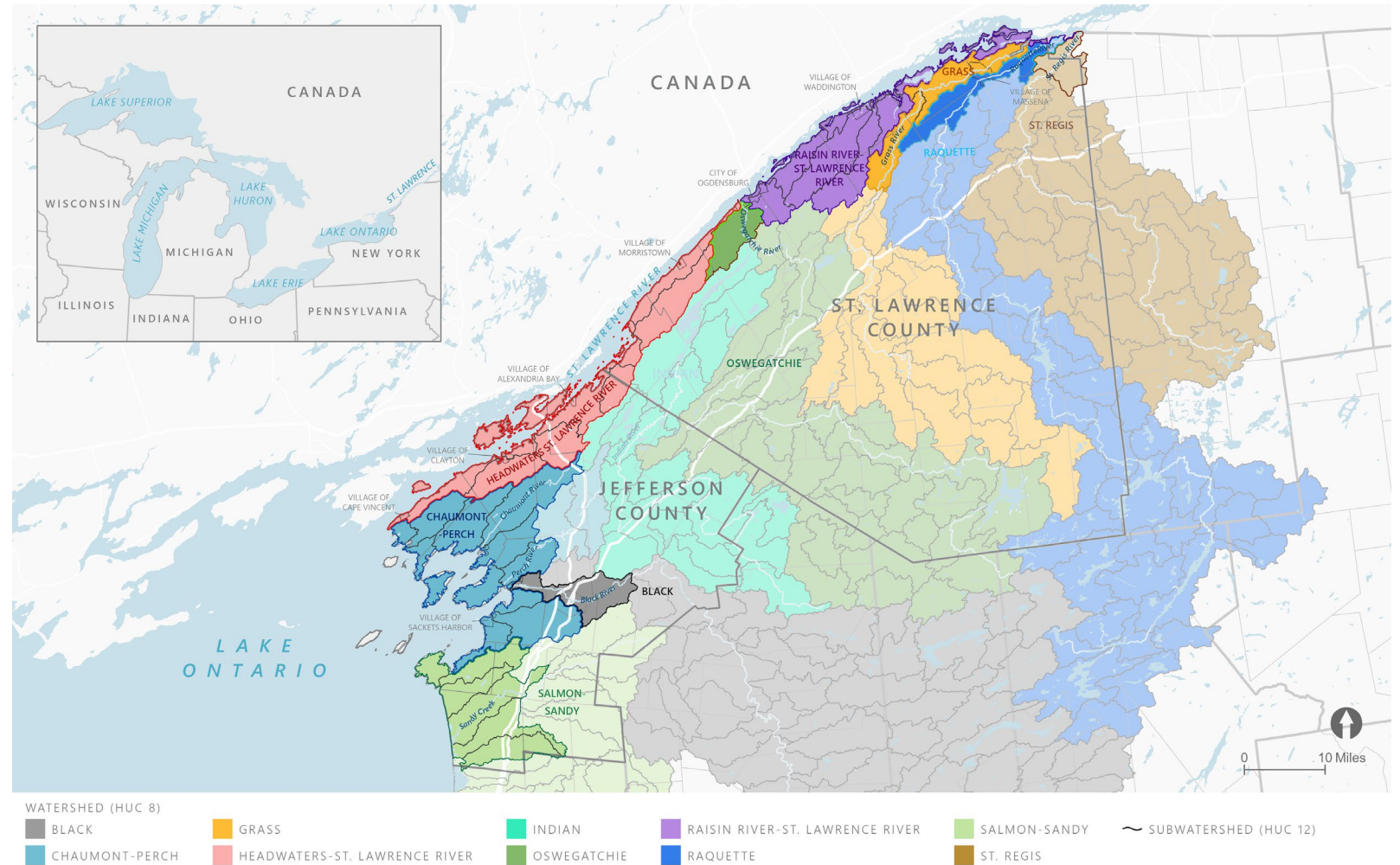
CLEAR Steering Committee Meeting

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 Jefferson-St. Lawrence 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 - Jefferson County

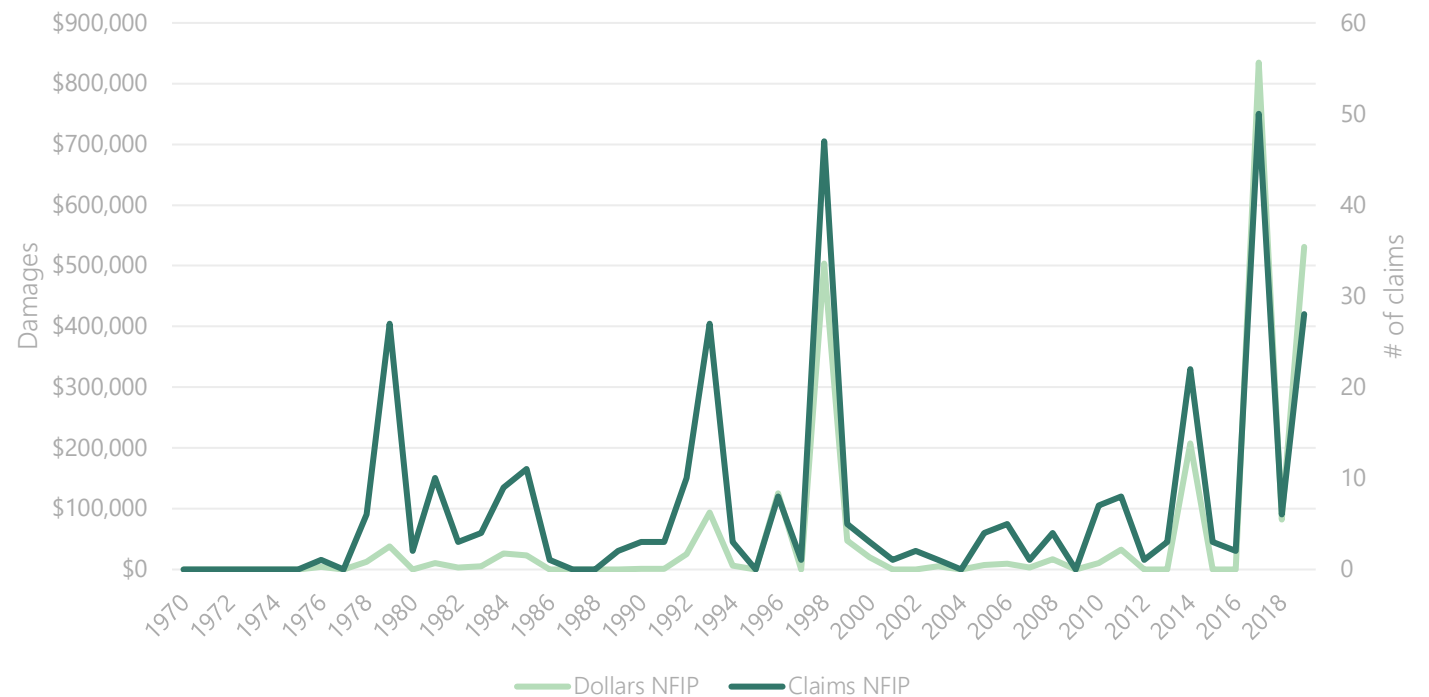|	2020s			2050s			2080s		
	Low Estimate (10th Percentile)	Middle Range (25th to 75th Percentile)	High Estimate (90th Percentile)	Low Estimate (10th Percentile)	Middle Range (25th to 75th Percentile)	High Estimate (90th Percentile)	Low Estimate (10th Percentile)	Middle Range (25th to 75th Percentile)	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 - St. Lawrence 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 (0.3 days)	0.5	0.8 to 2	2	2	3 to 6	10	3	5 to 19	27
# of Heat Waves (0 heat waves)	0	.1 to 0.2	.2	0.2	0.3 to 0.7	1	0.2	0.5 to 2	3
Duration of Heat Waves (3 days)	3	3 to 4	4	3	3 to 4	4	4	4 to 5	5
Days below 32°F (193 days)	159	162 to 176	177	131	138 to 154	161	107	118 to 143	156
Days over 1" Rainfall (7 days)	6	7 to 8	9	7	8 to 9	10	8	8 to 10	11

CLEAR Steering Committee Meeting
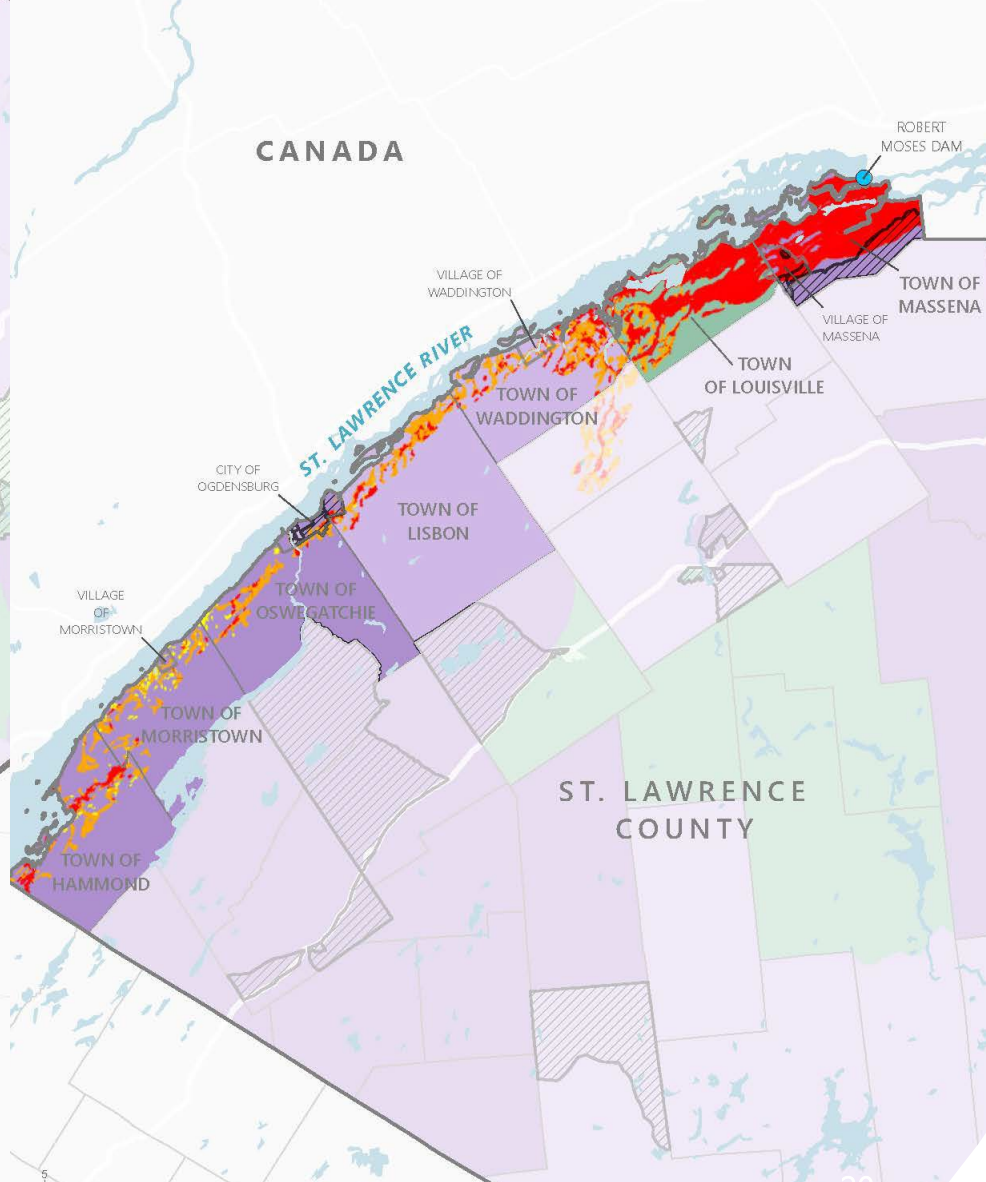
Regional Characterization

Social Vulnerability

Socioeconomic Status

Household Composition & Disability

Housing Type & Transportation

Minority Status & Language
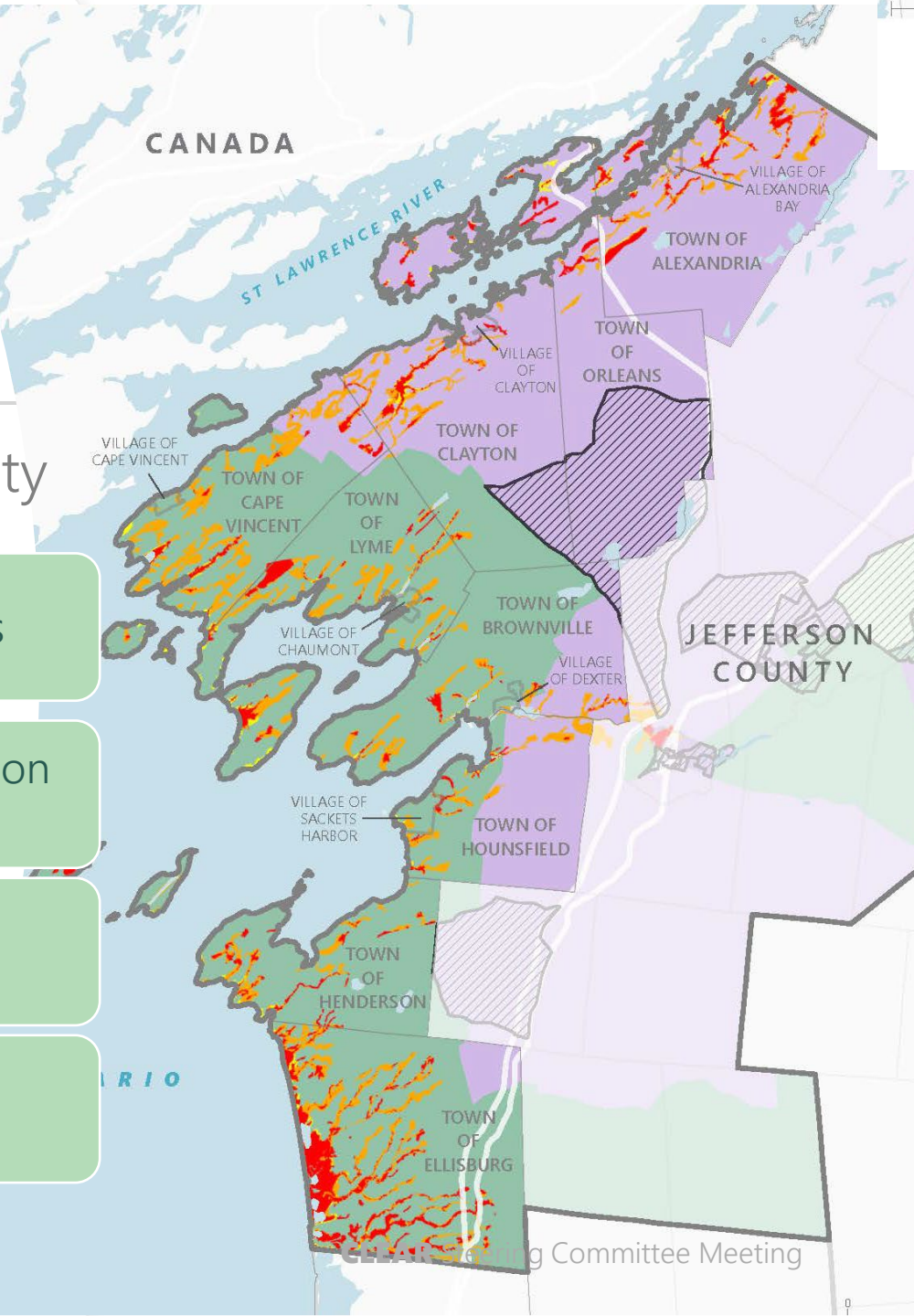
Regional Characterization

Tourism & Recreation

Parks (State and other)

Trails (hiking, bike, snowmobile)

Marinas, restaurants, cottages/RV parks

Nature areas, camping, fishing licenses

Regional Characterization

Regional Stressors

- Loss of manufacturing
- Aging and deteriorating infrastructure
- Population Decline
- Lack of broadband
- Lack of agricultural processing
- Ecological imbalance

Asset Inventory: Jefferson-St. Lawrence

Overall Goal:

Create a "living inventory" that draws from multiple planning initiatives and local sources
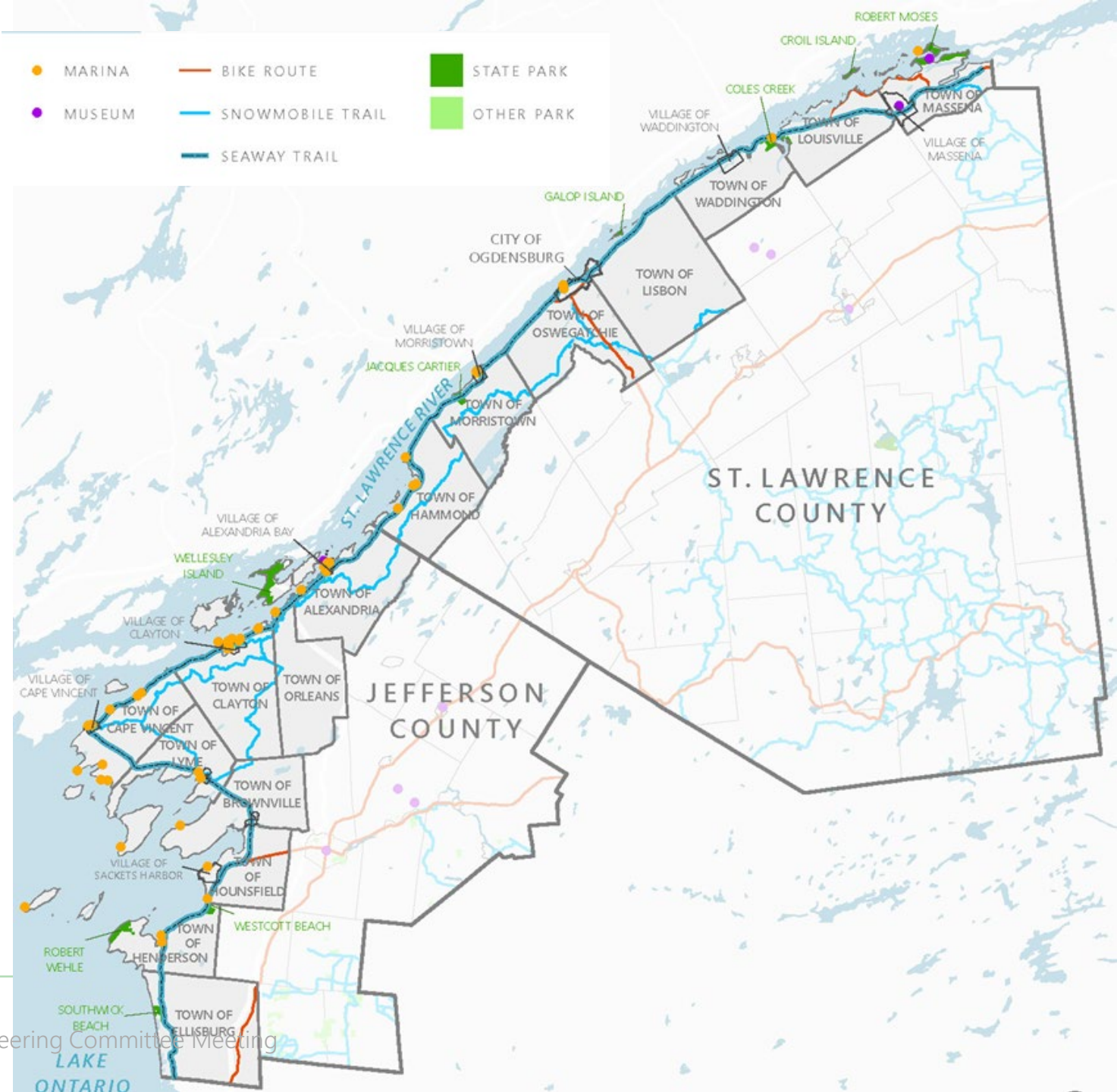
General Asset Classifications:
- Economic
- Health and Social Services
- Housing
- Infrastructure Systems
- Natural and Cultural Resources

CLEAR Steering Committee Meeting

Preliminary Asset Mapping: Vulnerable Seasonal Residential Clusters

Shown: Town of Ellisburg, Jefferson County

Black Pond to Southwick Beach

SEASONAL RESIDENTIAL
FULL-TIME RESIDENTIAL
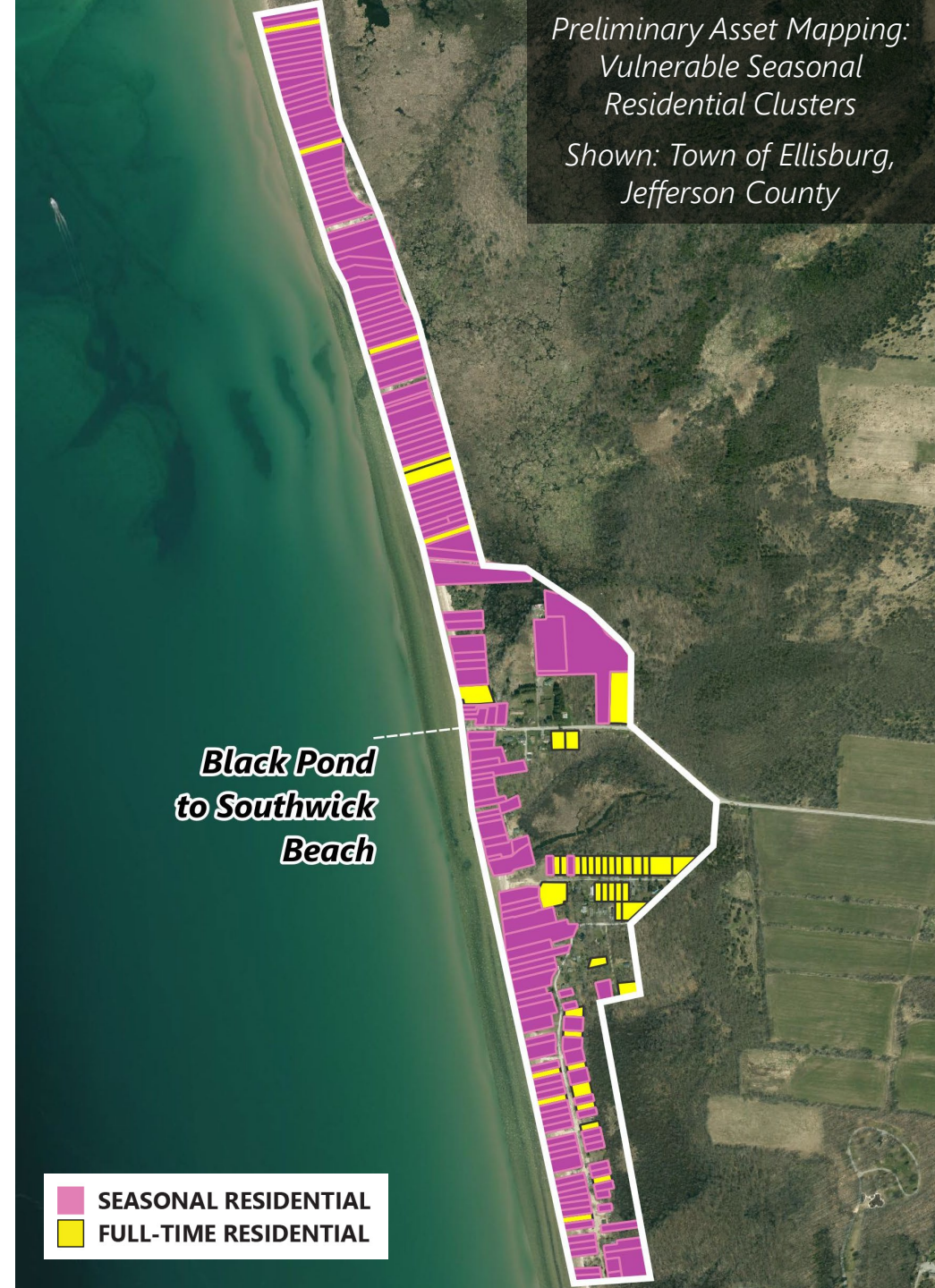
Asset Inventory: Jefferson-St. Lawrence

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

MARKET SQUARE PARK AND PIERS

Main Street & Market Square Park and Piers, Village of Sackets Harbor, Jefferson County

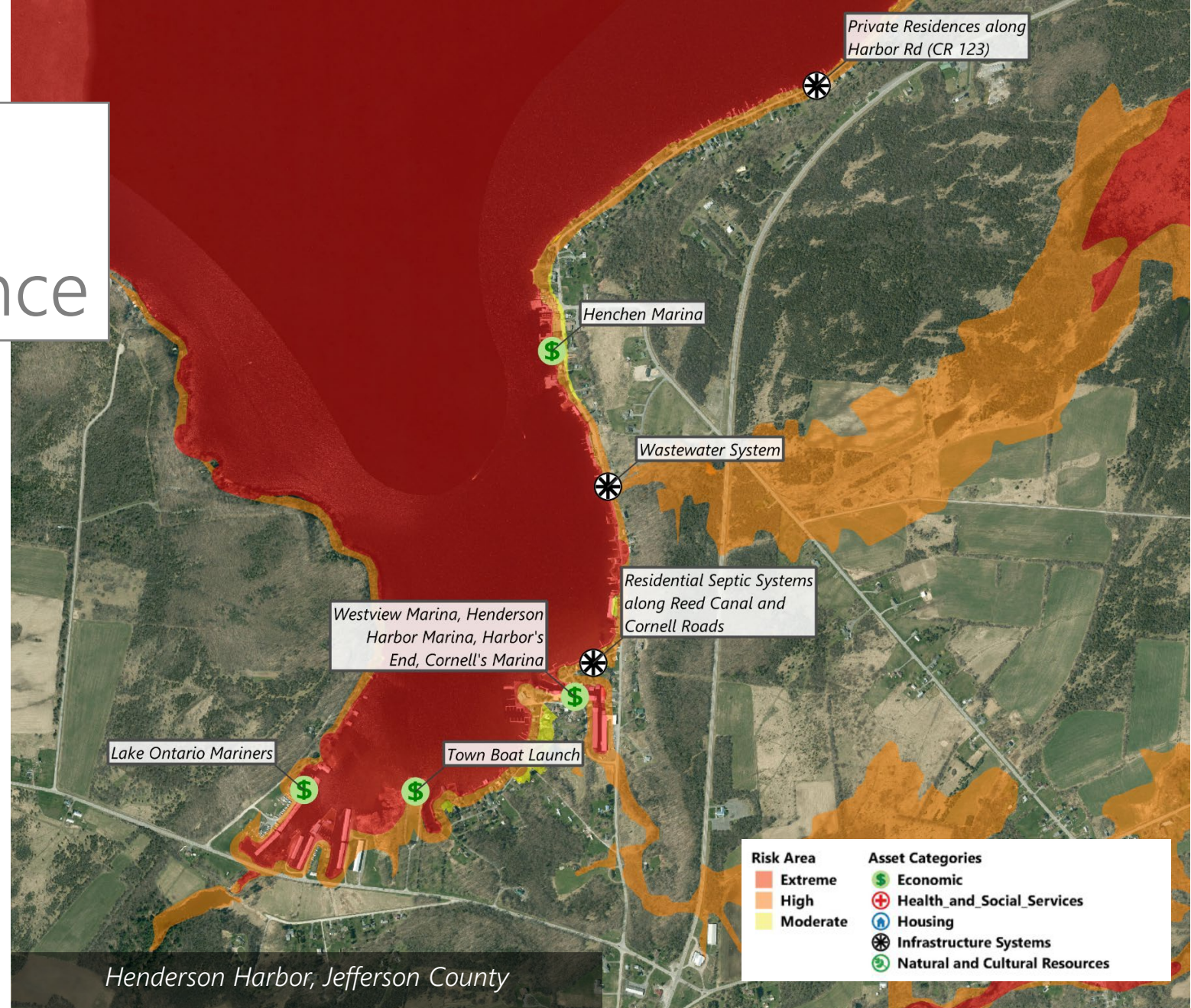# Asset Inventory: Jefferson-St. Lawrence

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

Private Residences along Harbor Rd (CR 123)

Henchen Marina

Wastewater System

Residential Septic Systems along Reed Canal and Cornell Roads

Westview Marina, Henderson Harbor Marina, Harbor's End, Cornell's Marina

Lake Ontario Mariners

Town Boat Launch

Henderson Harbor, Jefferson County

Risk Area
- Extreme
- High
- Moderate

Asset Categories
- $ Economic
- Health_and_Social_Services
- Housing
- Infrastructure Systems
- Natural and Cultural Resources

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 and the St. Lawrence River.

Homework

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

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

Next Steps Jefferson-St. Lawrence

Stakeholder Focus Groups: August - September

SC Meeting #5: **August 25, 10:00-11:00 AM**

Public Workshop #2: **September 21, 6:00 PM-7:30 PM**

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