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Zuzek inc.
— ONE WORLD —

Pelee Coastal Resilience Committee and Action Plan

Presentation to the Town of Essex

Pete Zuzek, MES, CFM, P.Geo.
July 2, 2024



Background: Geographic Extent of the Plan

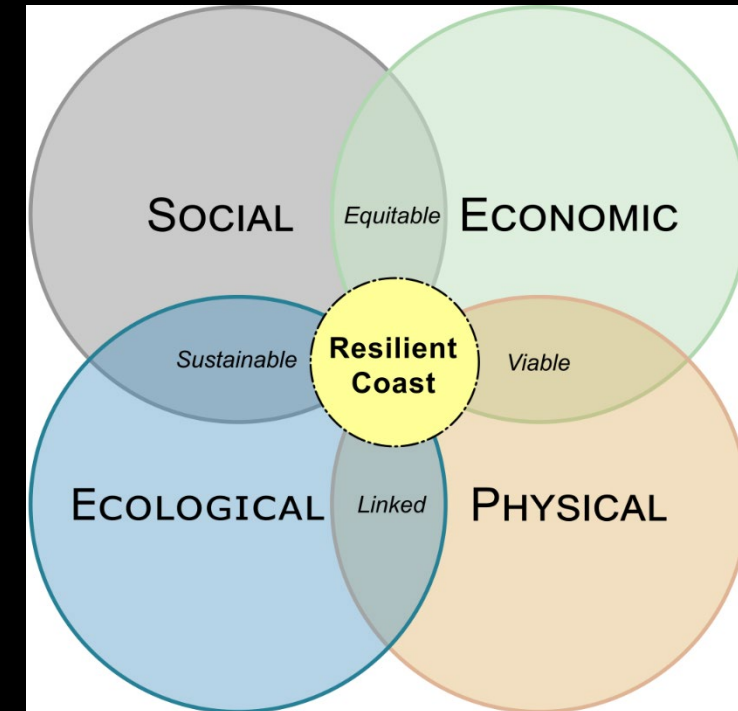
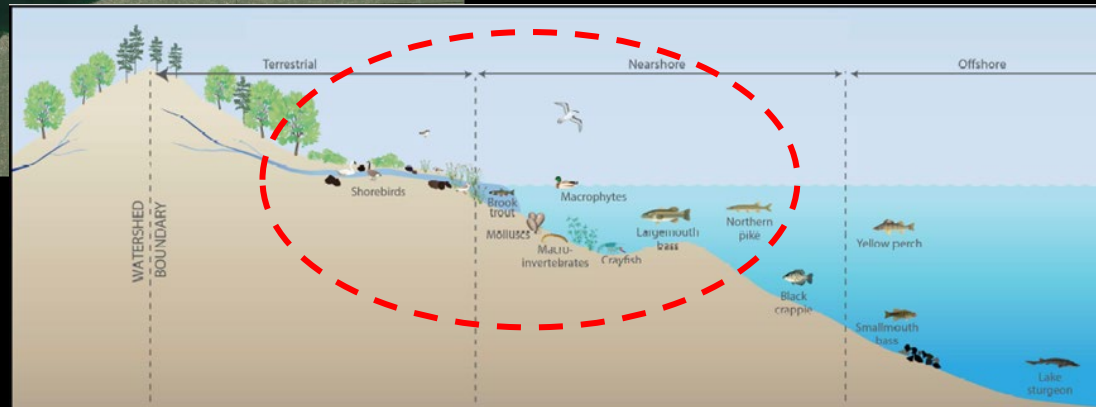
- Pelee West Littoral Cell (mouth of Detroit River to the tip of the Southeast Shoal)
- Pelee East Littoral Cell (~Port Alma to the tip of the Southeast Shoal)





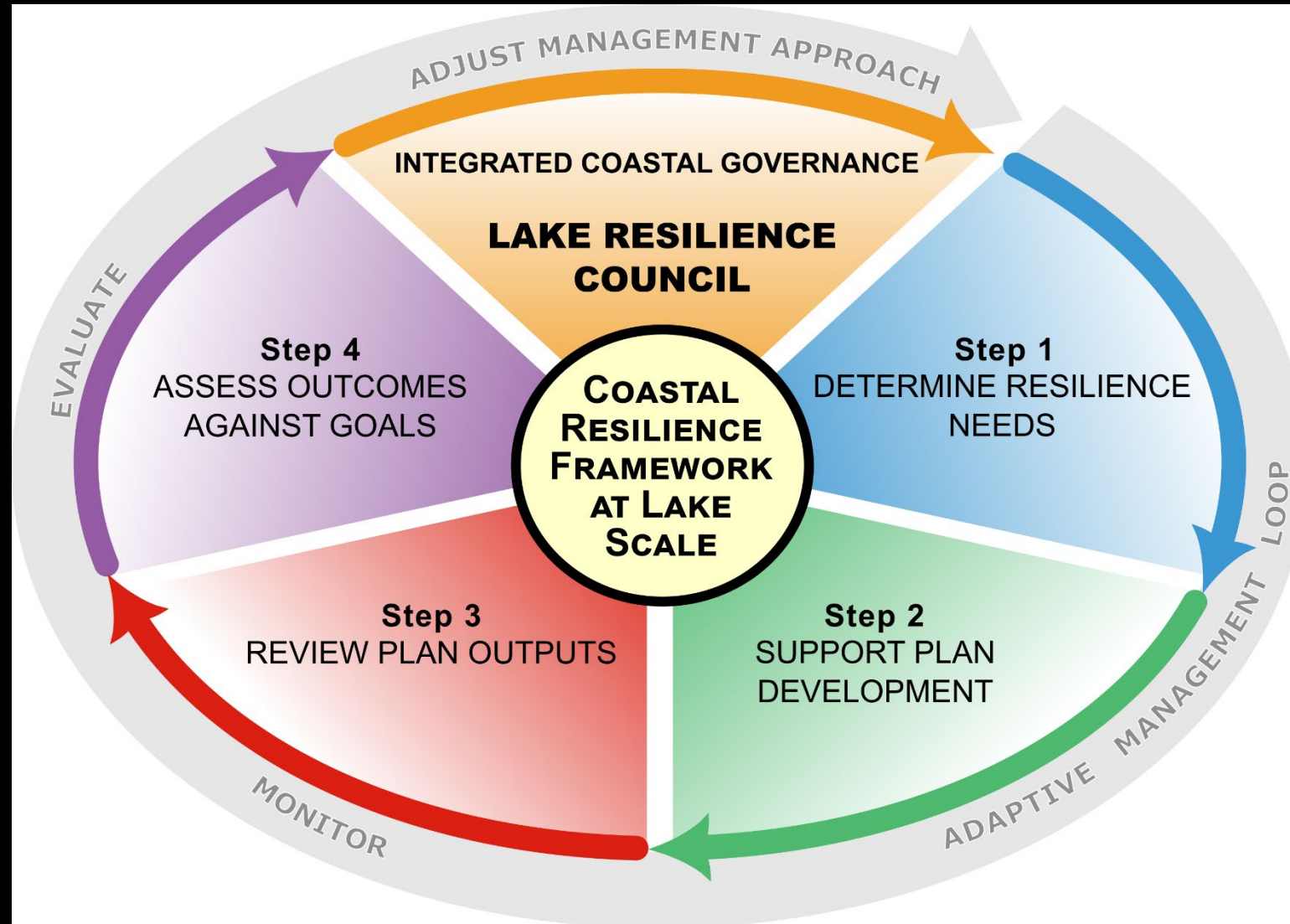
History: Zuzek Inc. has been Developing the Coastal Resilience Framework since 2022

- Scale is a defining aspect of the framework (regional/scale littoral cells)
- The coastal area is an integrated social, economic, ecological, and physical system
- All of society approach (by everyone for everyone)



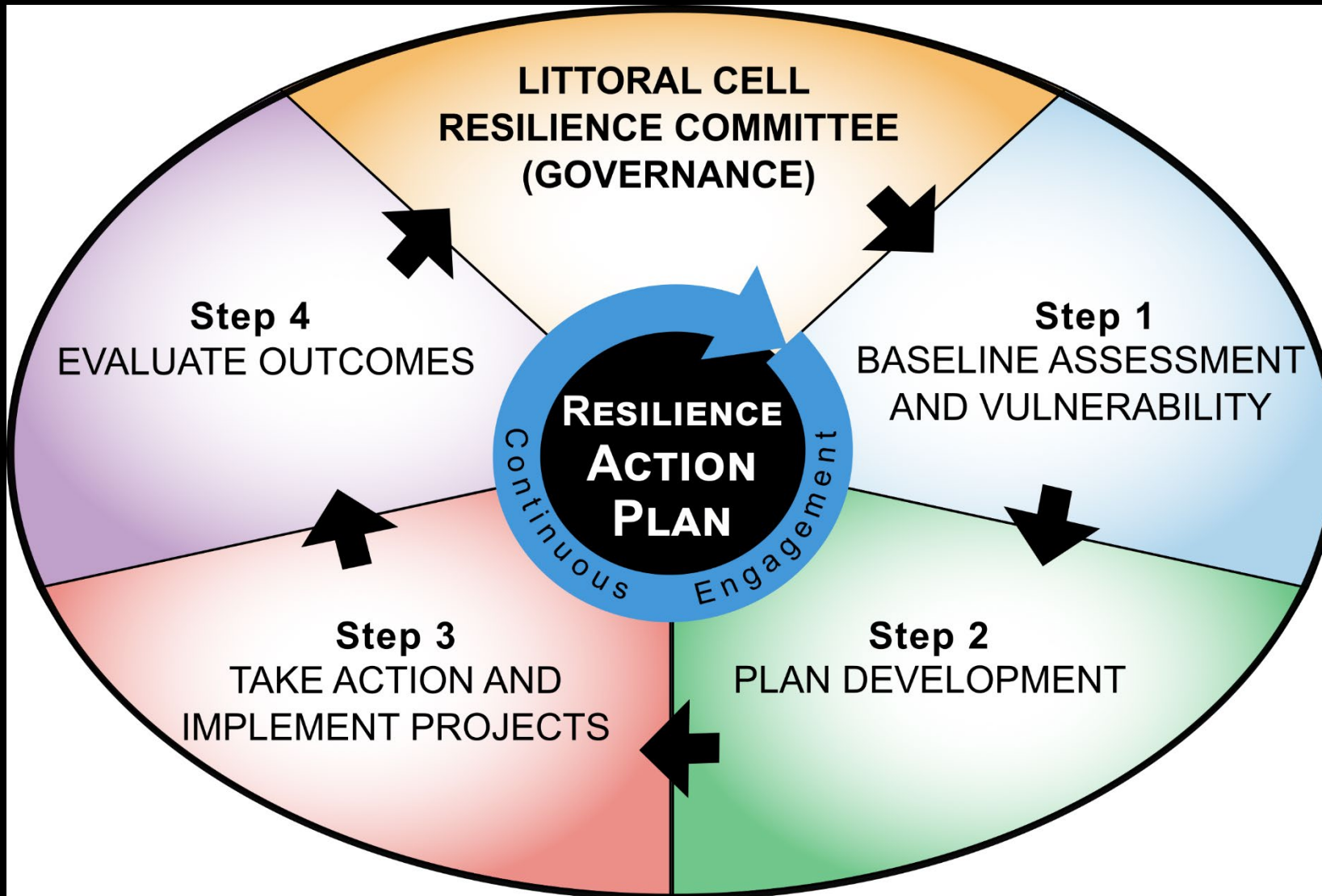


Basin Scale of Framework (CND side of the lakes)





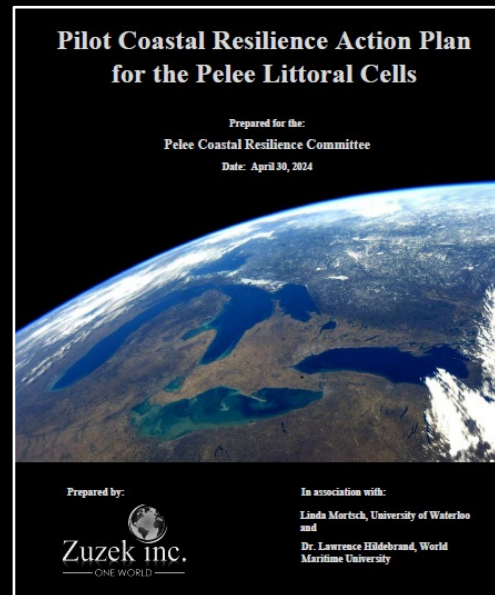
Littoral Cell Scale (regional)





Pelee Coastal Resilience Committee

- Formed in October of 2023 with ECCC funding (current members to right)
- Explored the local governance dimensions for the application of the Coastal Resilience Framework
- Informed the following report:



Present	Organization	Member
	Caldwell First Nation	Susan Sullivan
	Walpole First Nation	TBD
	County of Essex	Rebecca Belanger
	Leamington	Bill Fuerth
	Leamington	Rob Sharon
	Kingsville	Richard Wyma
	Kingsville	Tim Del Greco
	Town of Essex	Kevin Girard
	Town of Essex	David McBeth
	Town of Essex	Erica Tilley
	Municipality of Chatham-Kent	Edward Soldo
	Municipality of Chatham-Kent	Brigan Barlow
	LTVCA	Jason Wintermute
	LTVCA	Mark Peacock
	ERCA	James Bryant
	ERCA	Tian Martin
	Community Futures Essex County	Diane Malenfant
	Leamington District Chamber of Commerce	Wendy Parsons
	Leamington Shoreline Association	Wayne King
	PPNP Citizens Advisory Committee	Charbel Saad
	Nature Conservancy of Canada	Kristyn Richardson
	Nature Conservancy of Canada	Luke King
	Nature Conservancy of Canada	Jill Crosthwaite
	Nature Conservancy of Canada	Brett Norman
	Ontario Greenhouse Vegetable Growers	Aaron Coristine
	Presteve Foods Ltd.	Vald DeMelo
	Wheatley Harbour Authority	Bobby Cabral
	DFO, Integrated Planning	Cindy Mitton-Wilkie
	DFO, Integrated Planning	Emily Champagne
	DFO, SCH	Adele Butcher
	DFO, SCH	Jennifer Thomas
	DFO, SCH	Annette Winter
	DFO, SCH	Mike MacDiarmid
	ECCC	Greg Mayne
	ECCC	Jody McKenna
	Parks Canada	Julie Charlton
	Parks Canada	Scott Parker
	Parks Canada	Tammy Dobbie
	Parks Canada	Jyoti Upadhyaya
	University of Waterloo	Linda Mortsch
	Foresight Consulting	Janice Forsyth
	Zuzek Inc.	Pete Zuzek



Funding Application to NRCan's Climate Resilience Coastal Communities Program

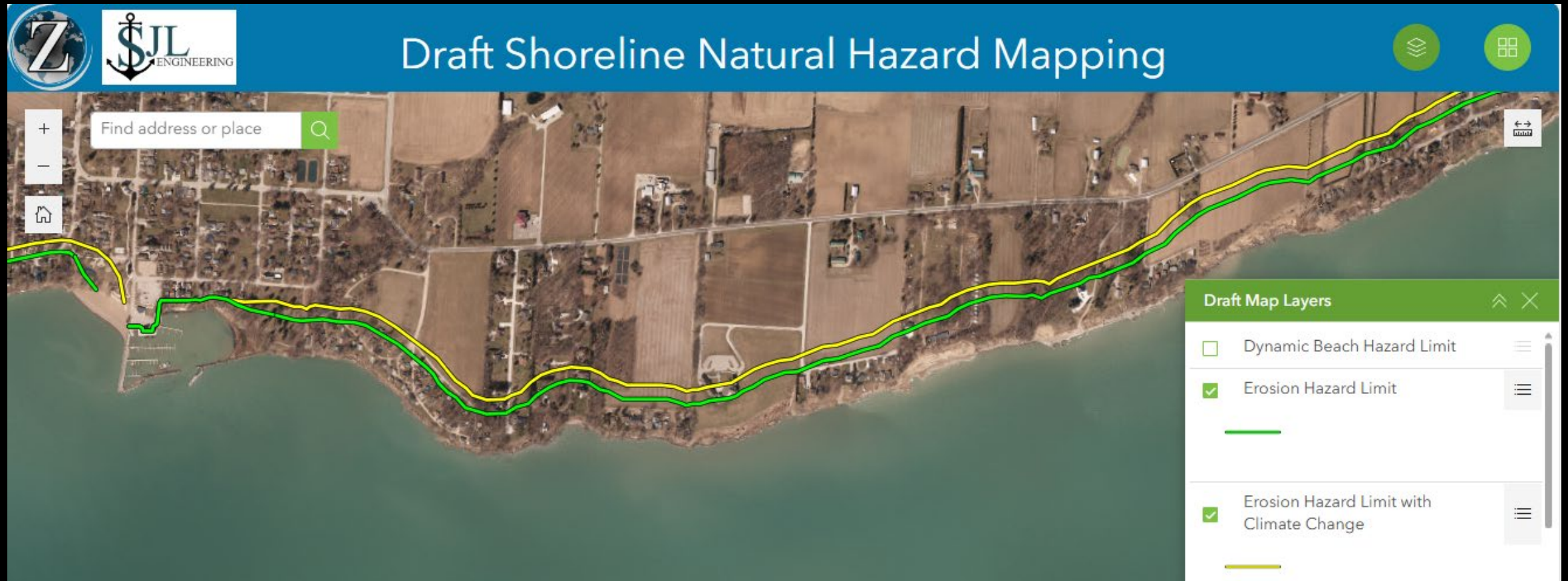
- Zuzek Inc. submitted in December 2023 on behalf of the Committee
- Town of Essex provided a Letter of Support and \$16.5k of in-kind support
- Other partners provided cash support
 - Leamington, 200k
 - County of Essex, 150k
 - Kingsville, 30k
 - ERCA, 10k
- And \$97k of in-kind support





Review of Land Use Zoning, Bylaws, and Regulations with New Hazard Mapping

- Example of recently updated Erosion Hazard Mapping





Assess Risks and Develop Options for Critical Infrastructure Exposed to Coastal Hazards





Sediment Bypassing at Harbours and Innovative Dredging Technology





Pelee Coastal Committee Selected for Funding

- Committee awarded \$1M (waiting for signed contribution agreement)
- No public announcements until notified by NRCan
- Requesting: \$30,000 of cash support from the Town of Essex to expand the study





QUESTIONS

