

# Climate Change Risk Assessment and Adaptation Strategy

September 4, 2024  
Regular Council Meeting

# Project Overview

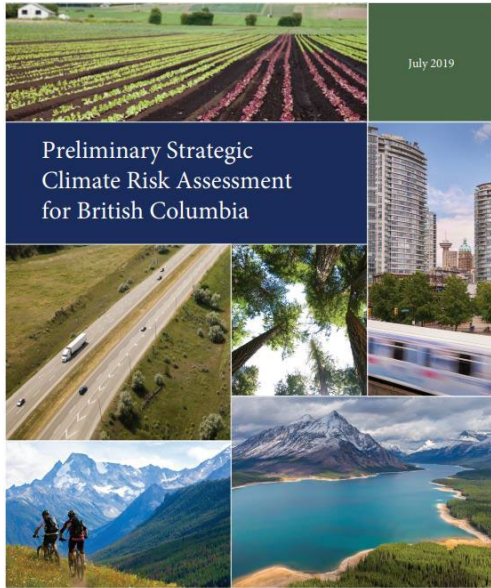
## Primary Objective

- To develop a climate change adaptation strategy that focuses on building resilience and reducing vulnerabilities and risks through implementation of actions at the municipal service level.

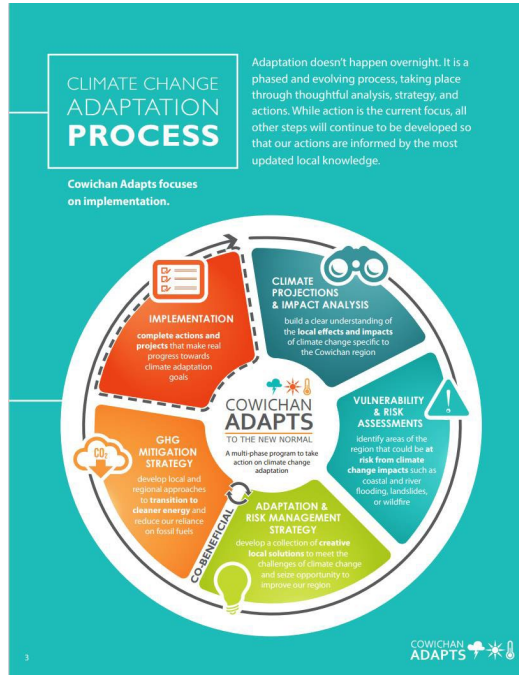
## Principles

- Building on strengths
- Focusing on efforts that balance effort and impact
- Ground in climate science and lived experience
- Collaborating with others

# Understanding Local Context and Primary Concerns



Ministry of Environment and Climate Change Strategy



connectnorthcowichan.ca/climate-adaptation



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# Risk Assessment

Identify and evaluate risks to support the development and prioritization of climate change adaptation action

What is Risk?  
= Likelihood x Consequence

Collaborative

**Risk Statements**  
E.g., "Extreme heat events exceed the cooling capacity of municipal buildings"

Item	Area	Issue	Impact	Priority	Responsible	Timeline	Status	Notes
1	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...

Collaborative

**Risk Ratings**

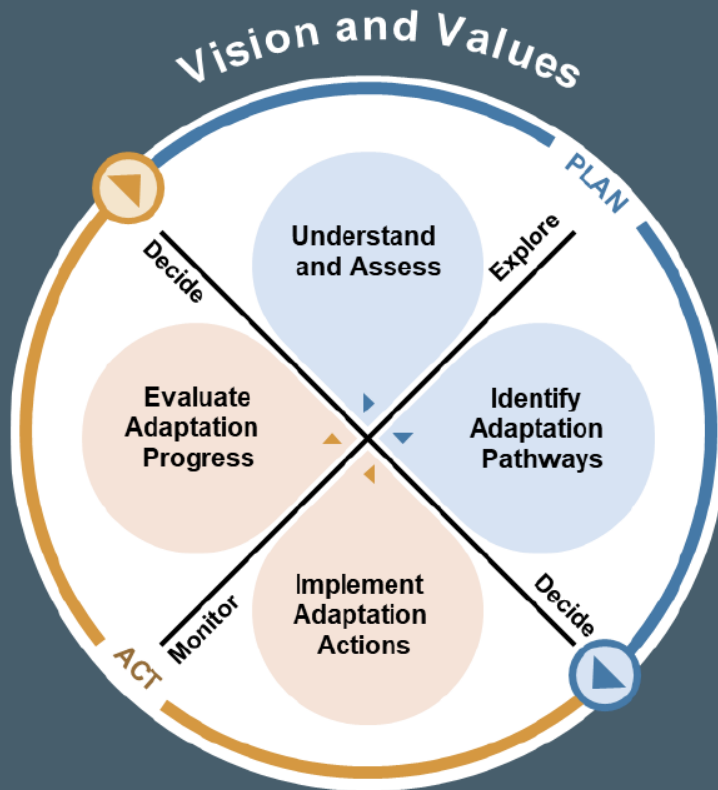
Consequence

	1	2	3	4	5
5	5	10	15	20	25
4	4	8	12	16	20
3	3	6	9	12	15
2	2	4	6	8	10
1	1	2	3	4	5

Likelihood

- Very High
- High
- Medium
- Low
- Special

# Adaptation Process



## Adaptation Actions Pathways:

1. Maintain and enhance municipal services
2. Preserve and protect the environment
3. Amplify action through collaboration



# Example of Action:

## Pathway 3: Amplify action through collaboration

### *Objective 8: Facilitate community climate adaptation action*

8.5 Enhance and expand collaboration with local stewardship groups to increase community involvement in invasive species management, prevention, and restoration efforts.



Minor capital (\$500K or less) or operating cost

**(Recommended Option)** THAT Council:

- (1) Approves the September 2024 Climate Change Risk Assessment and Adaptation Strategy prepared by Urban Systems Ltd, as attached to the Climate Change Specialist's report dated September 4, 2024, and
- (2) Directs staff to include recommendations for implementation in the annual business planning process.