

Brampton's Climate Change Adaptation Plan

BEAC Presentation

Note on Terminology

Climate Mitigation

Reducing greenhouse gases by reducing the source of emissions and enhancing carbon sinks

Examples

- Near-net zero communities
- District Energy
- Electric Vehicles

Climate Adaptation

Reducing our vulnerability and risks to the harmful impacts of climate change and building resiliency

Examples

- Vulnerability and risk assessments
- Green infrastructure
- Climate change and asset mgmt.

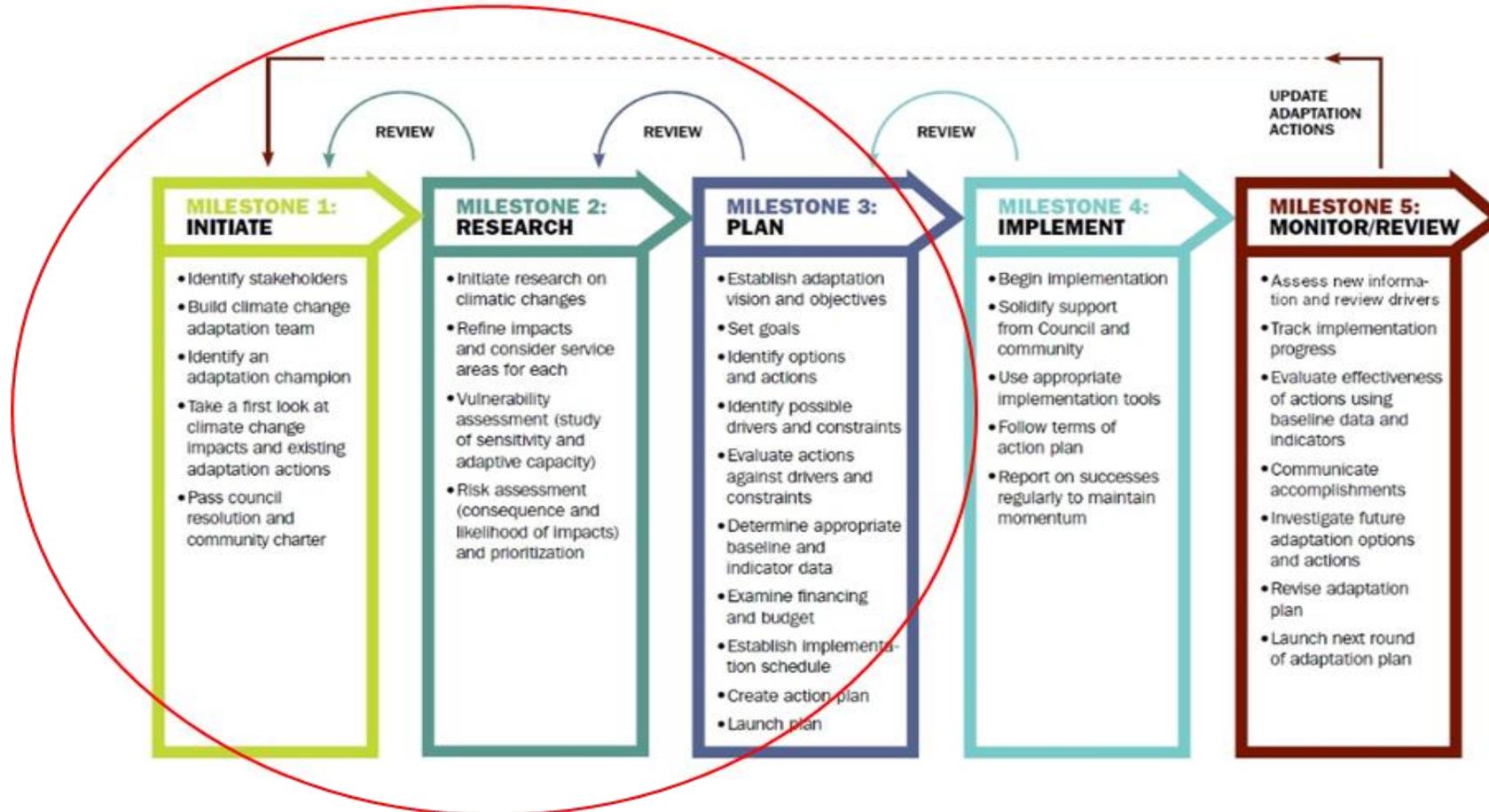
Why a Climate Change Adaption Plan?

- A 5-year Adaptation Plan to make Brampton a more climate resilient city
- Provide an informed and coordinated approach to climate change adaptation planning
- Improve the knowledge base, and better define and communicate risks and opportunities
- Identified as an action in the Brampton Grow Green EMP; also a Term of Council priority
- Requirement of our membership to the Global Covenant of Mayors for Climate and Energy

Climate change is the greatest threat of the 21st century, but tackling climate change can also be the greatest opportunity for shaping a better and fairer future.

Using the ICLEI BARC Framework

THE MILESTONES



Incorporating the 3 Pillars of Sustainability



Economy.

- ✓ Insurance
- ✓ Property Damage
- ✓ Buildings
- ✓ Infrastructure
- ✓ Maintenance & Ops
- ✓ Transportation
- ✓ Finance
- ✓ Energy



Environment.

- ✓ Natural heritage
- ✓ Urban forest
- ✓ Invasive species
- ✓ Flooding
- ✓ Stormwater management
- ✓ Water quality



Equity.

- ✓ Health & wellbeing
- ✓ Vulnerable communities
- ✓ Land use planning
- ✓ Emergency preparedness
- ✓ Education & engagement
- ✓ Food resilience

CCAP Components



1. Engagement Strategy



2. Background Research & Analysis



3. Risk Assessment



4. Vulnerability Assessment



5. Framework Development



6. Adaptation Plan Development



7. Final Reports and Presentations

CCAP Components



Engagement Strategy

- Summary of engagement methodology
- Recommendations to empower the Brampton Environmental Advisory Committee



Background Review

- Review and summarize climate trends and future projections
- Best practice review of adaptation plans and existing legislation (fed., prov., reg.)
- Analysis of Brampton's current plans, programs, policies, etc. related to adaptation

CCAP Components



Risk Assessment

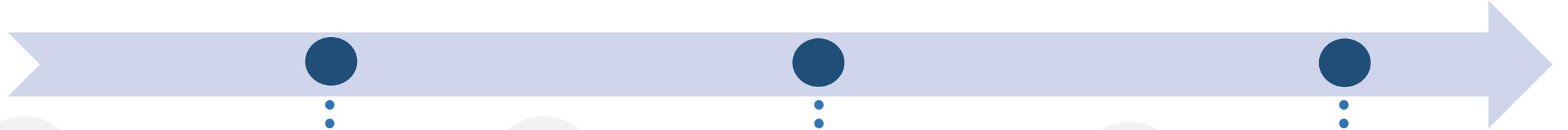
- Deliver a series of workshops (internal, external stakeholders) to identify top climate change risks
 1. Identifying Risks and Impacts
 2. Assessing Likelihood, Consequences
- Identify top 3-4 priorities based on the high/medium risks



Vulnerability Assessments

- Develop a series of vulnerability assessments (based on top 3-4 priorities)
- Prepare a set of vulnerability maps (e.g., flooding, urban heat, etc.)

CCAP Components



Framework Development

- Develop vision, principles, goals, objectives
- Establish performance targets
- Finalize CCAP themes



Adaptation Plan Development

- Identify and prioritize actions
- Analyze costs of inaction
- Recommend external collaboration/partnership approaches
- Recommendations for monitoring and reporting



Final Reports and Presentations to BEAC, Council

- Provide finalized CCAP and associated reports
- Deliver presentations to BEAC and Council

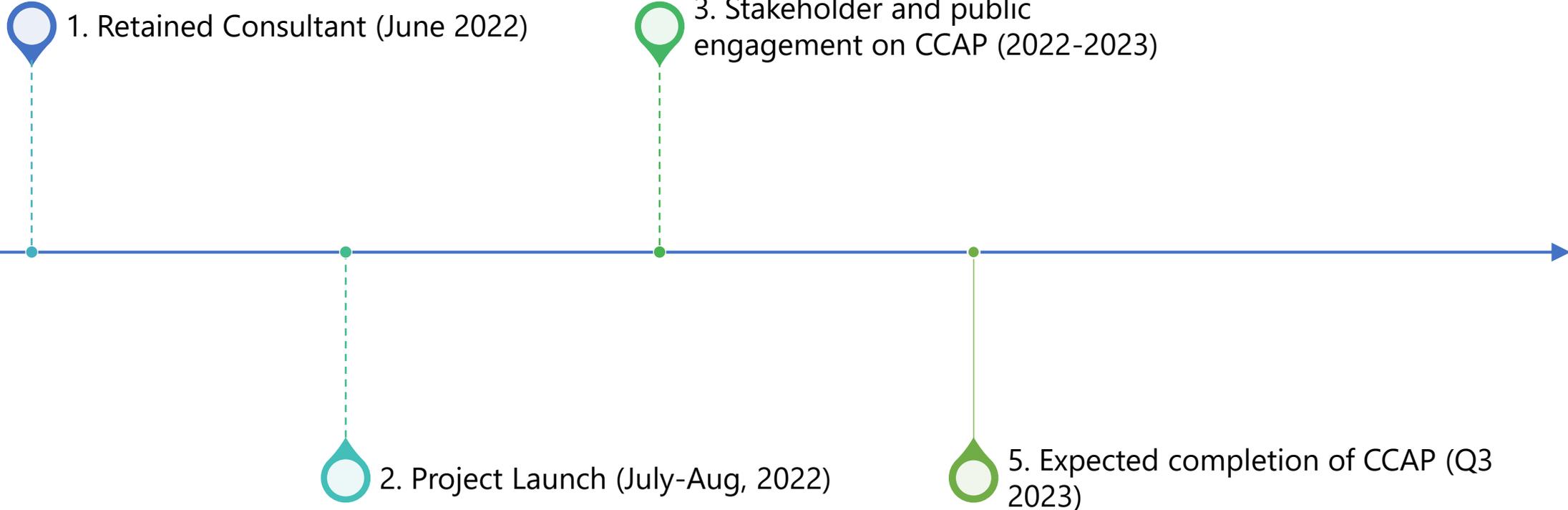
How will Climate Change Impact Brampton?

- Increase in heat-related illnesses especially for seniors, young children, people with pre-existing conditions, and people who spend long hours outdoors
- An increased risk in flooding and erosion due to extreme weather, causing damage to properties and infrastructure
- More power outages as electricity grids become overwhelmed due to increasing use of air conditioning
- A greater risk of vector-borne diseases such as West Nile Virus and Lyme Disease
- A loss in traditional outdoor winter activities such as hockey, skiing, snowboarding, etc.

Role of BEAC in the CCAP

- ✓ Participate in workshops and engagement activities (e.g., risk/vulnerability workshops, adaptation actions, etc.)
- ✓ Champion the Adaptation Plan in your communities and within Brampton

Timeline



Thank You!