

CLIMATE GOVERNANCE & THE CITY OF CALGARY



Session Agenda

What Climate Governance Means for Calgary

- Leadership
- Vision
- Innovation
- Accountability
- Collaboration
- Transparency

Principles of Good Governance

- Prioritization & decision-making frameworks (**Leadership**)
- Long-term strategic vision (**Vision**)
- Innovation and co-creation (**Innovation**)
- Working with our partners and Calgary's community (**Collaboration**)
- Internal and external accountability (**Accountability**)
- Communicating timely and transparent information (**Transparency**)



Leadership



Council's
Foundations &
Priorities

Organizational
Structure &
Frameworks

Cross-Corporate Integration

Council's Resilience Foundations



Climate

A city that recognizes the climate emergency and does its part to limit global warming to 1.5 degrees Celsius. A more sustainable community that can manage the impacts of severe weather events; reduce emissions; build our green economy and play an active role in climate innovation.

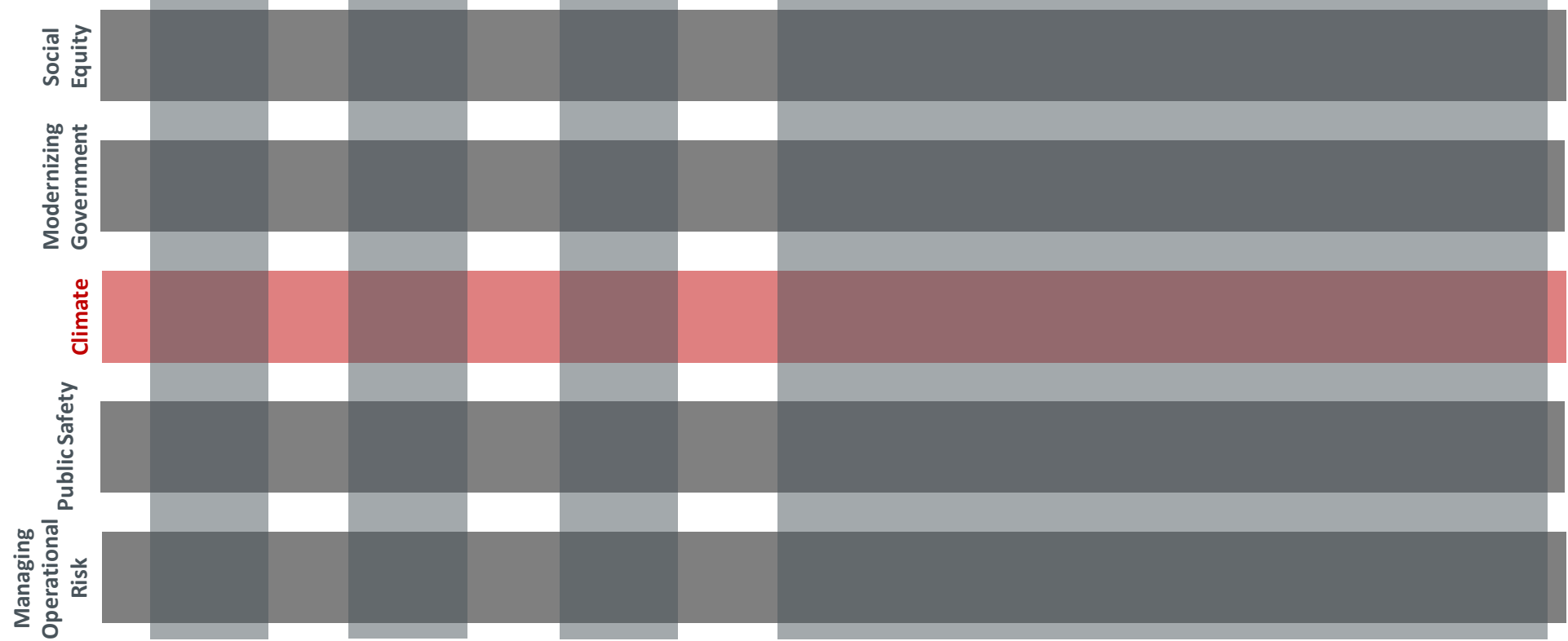
Council's Priorities

TOP PRIORITIES

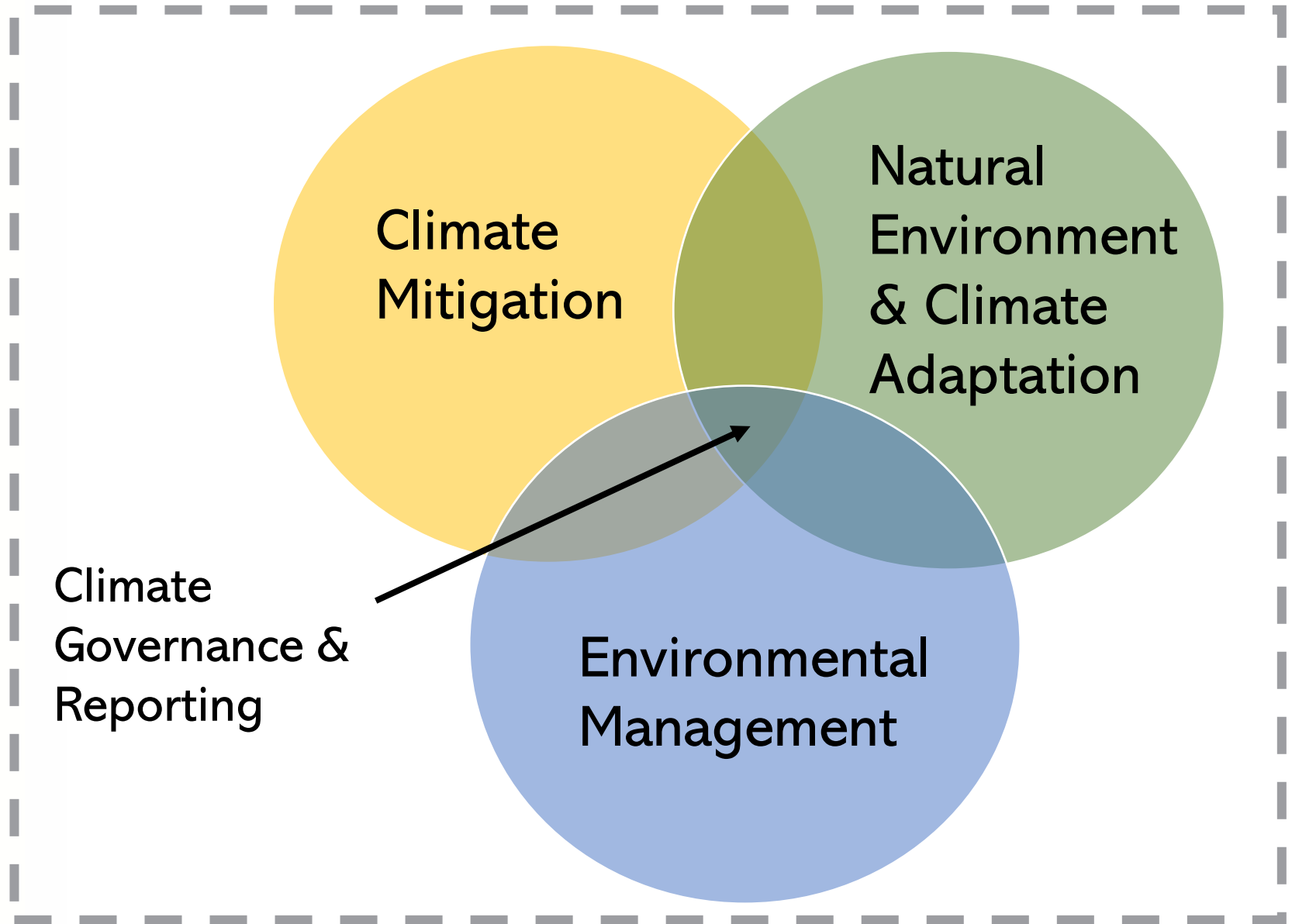
CONTINUOUS IMPROVEMENT

Transit Downtown Revitalization Land Use & Local Area Planning Delivering & Improving the Services Calgarians Rely On

RESULTS



Planning & Development Services



**Organizational
Realignment**

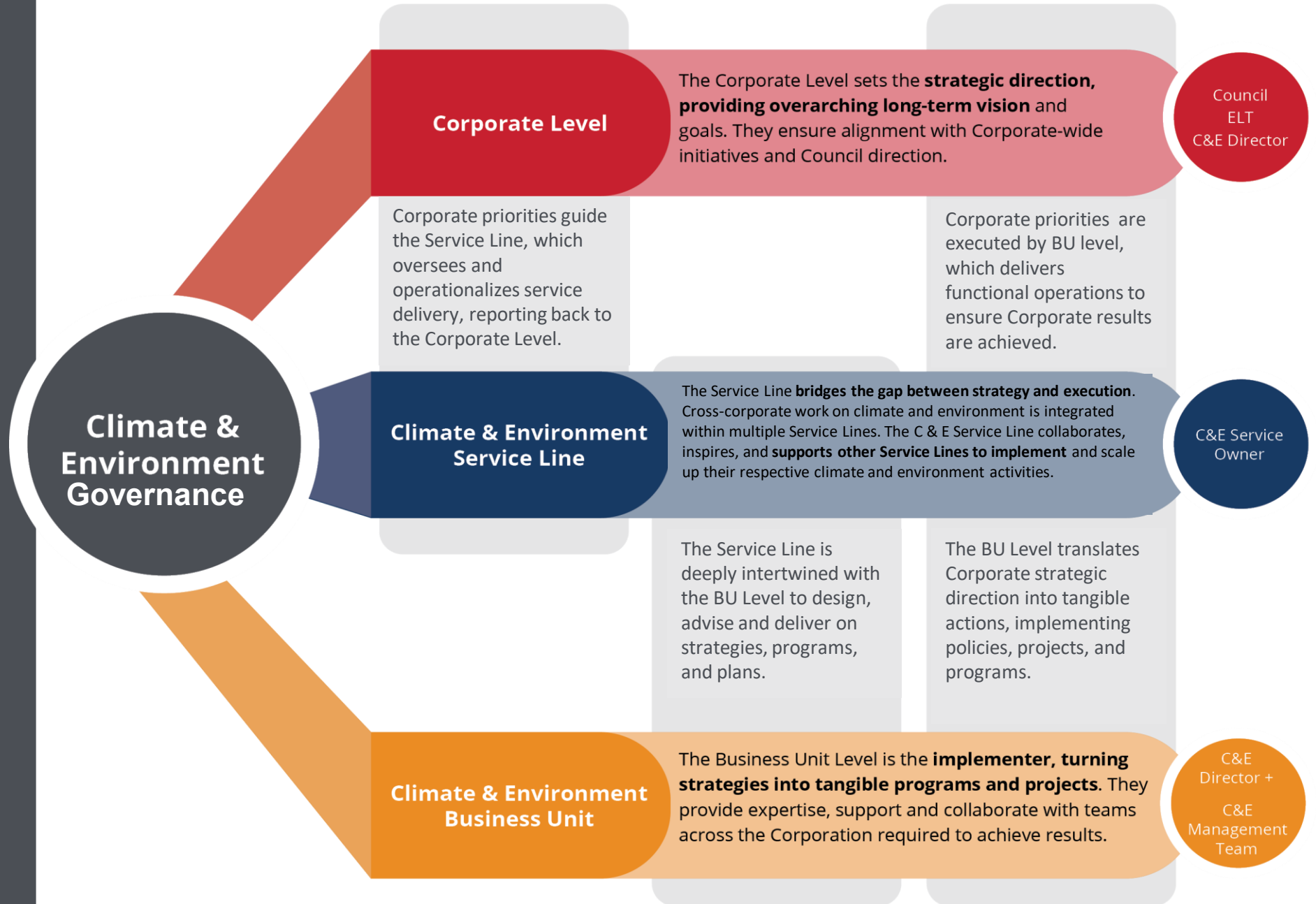
Climate
Governance &
Reporting

Environmental
Management

Natural
Environment
& Climate
Adaptation

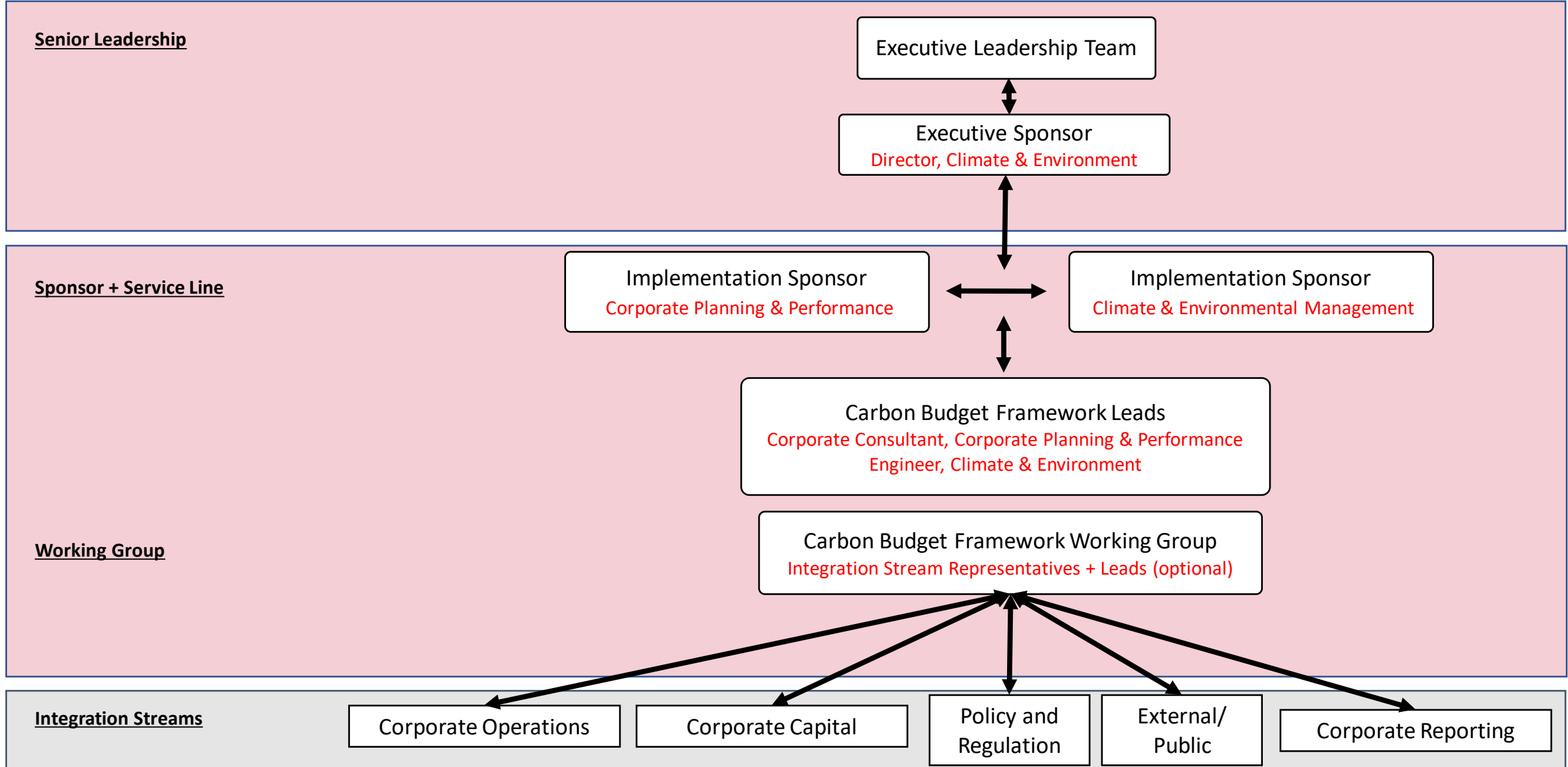
Climate
Mitigation

Cross-Corporate Climate Governance Framework

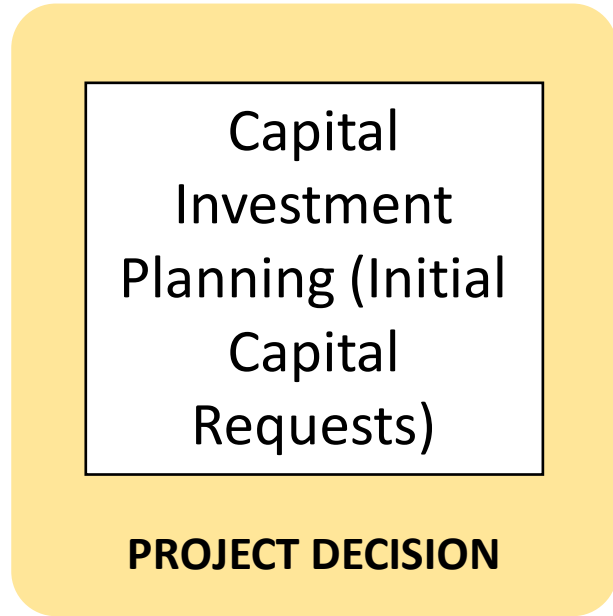




Climate Governance at the Project-Level (Example)



Integration into Decision Making (Example)



Investment Intake

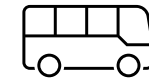


Investment Prioritization



Investment Recommendations

- Investment details requested
- Request info to assess GHG impacts

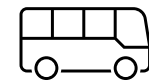


Fuel A



Fuel B

- Prioritization processes followed
- Ensure GHGs are used to prioritize



Priority



Priority

- Investment recommendations communicated
- Analyze how capital aligns with carbon budget



Vision

- Long-Term Goals & Modelling for the Future
- Climate Strategy: Pathways to 2050
 - Climate Principles
 - Climate Adaptation Action Plan
 - Climate Mitigation Action Plan
- Climate Implementation Plan

Climate Goals



Net-Zero by 2050

Reducing greenhouse gas emissions (GHG)

Our target is 60 per cent reduction of GHG emissions below 2005 levels by 2030 and net zero GHG emissions by 2050.



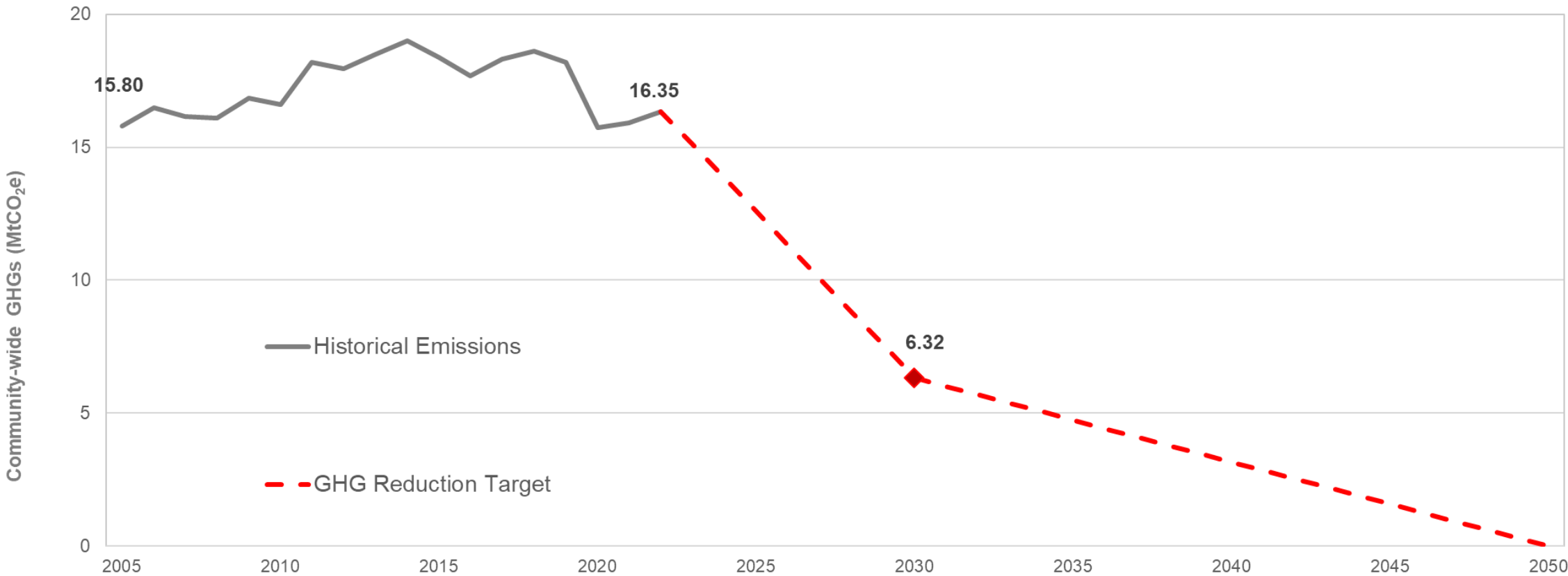
Climate Resilient City

Building a climate resilient city

Actions that reduce the negative impact of climate change, while taking advantage of potential new opportunities.

Greenhouse Gas Modelling (2050)

Calgary community-wide GHG Emissions and Target (megatonnesCO₂e)



Climate Projections for Calgary (2080s)



Extreme heat: Calgary will experience increasingly hot summers with more frequent and longer heat waves.



Drought: Drought conditions may become more common, prolonged and widespread.



Wildfire: A longer and drier fire season will lead to more frequent, larger and intense wildfires.



Shifting seasons: Winters are getting shorter, spring is arriving earlier, summers are longer and fall is arriving later.



Heavy rainfall: More precipitation is falling as short-duration, high-intensity storms (SDHI) which can lead to overland flooding.



Heavy snowfall: Damaging winter storms, heavy snow and blizzard conditions will continue to be hazards as core winter months remain below 0°C.



Severe storms: Hail, high wind events and tornadoes are likely to occur more frequently and over more months of the year.



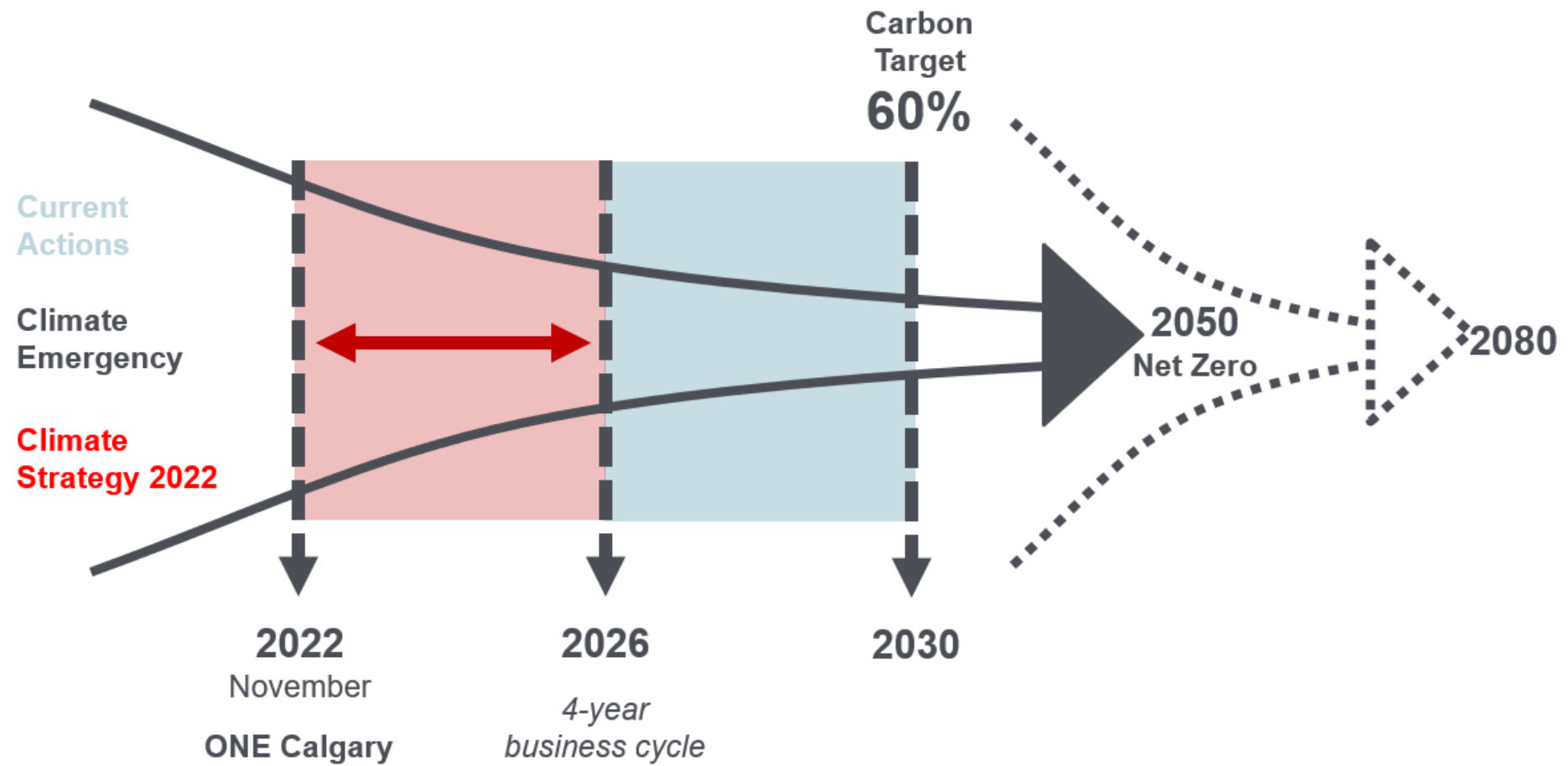
River flooding: Flood timing, intensity and frequency is likely increasing.



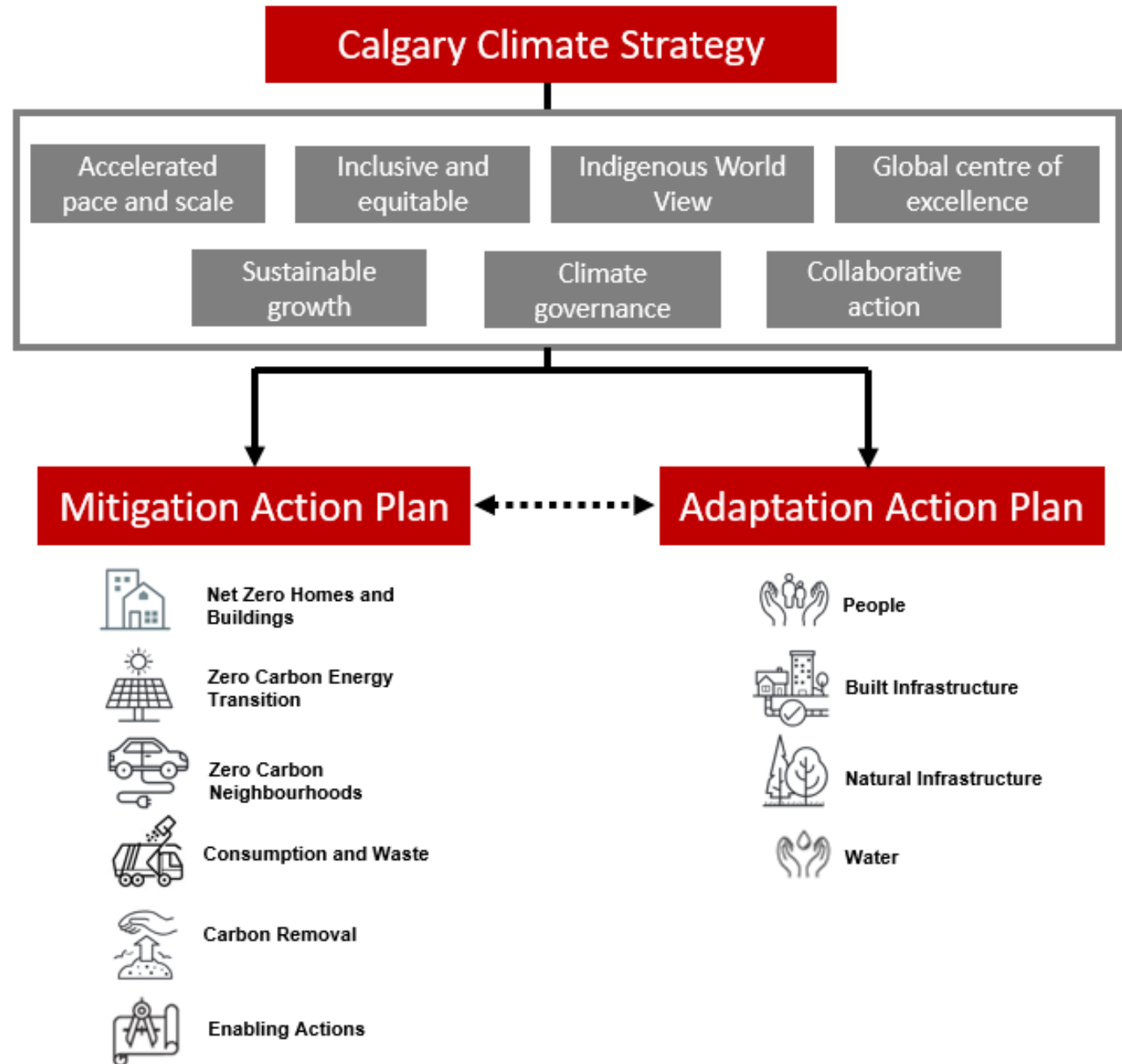
Climate Projections for Calgary

January 2022

Long-Term Strategic Planning



Calgary Climate Strategy: Pathways to 2050



2023-2026 Climate Implementation Plan

[Read the full plan](#) >

4-year Climate Implementation Plan



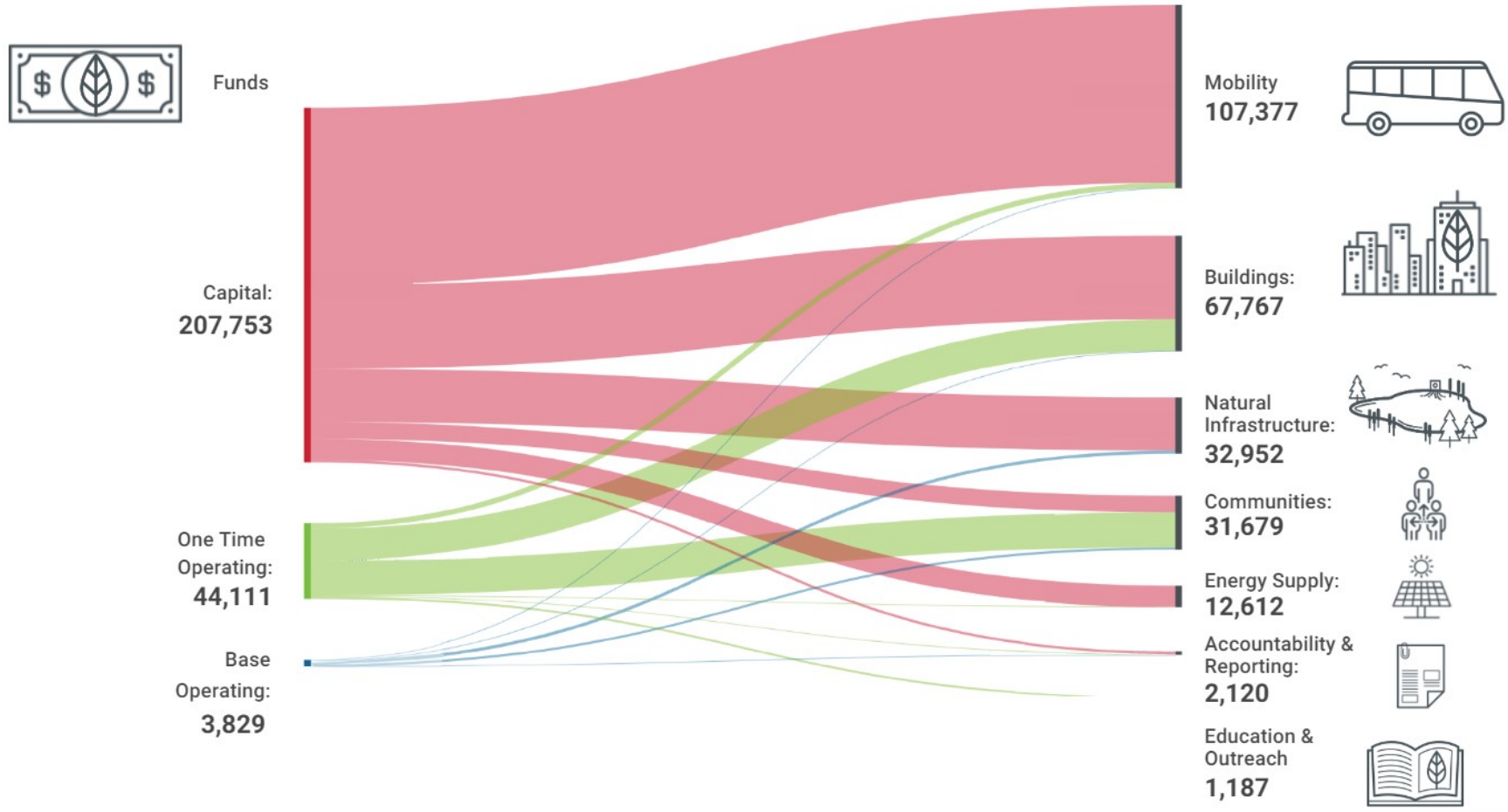
The Plan

Climate change is a big risk to The City of Calgary and all Calgarians. Through the declaration of a Climate Emergency and making Climate Resilience a serious concern, Council has made climate change a strategic priority and The City is committed to action.

The Climate Implementation Plan (The Plan) describes the actions and programs in 2023-2026 across service lines that accelerate improved energy use, reduce climate risk and work towards net-zero greenhouse gas (GHG) emissions by 2050 as outlined in Calgary Climate Strategy – Pathways to 2050. Also, The Plan presents a great opportunity for new industries, low carbon technology, jobs, local business growth, partnerships and the realization of equitable climate action that helps all Calgarians.



Investing in Our Path to 2026



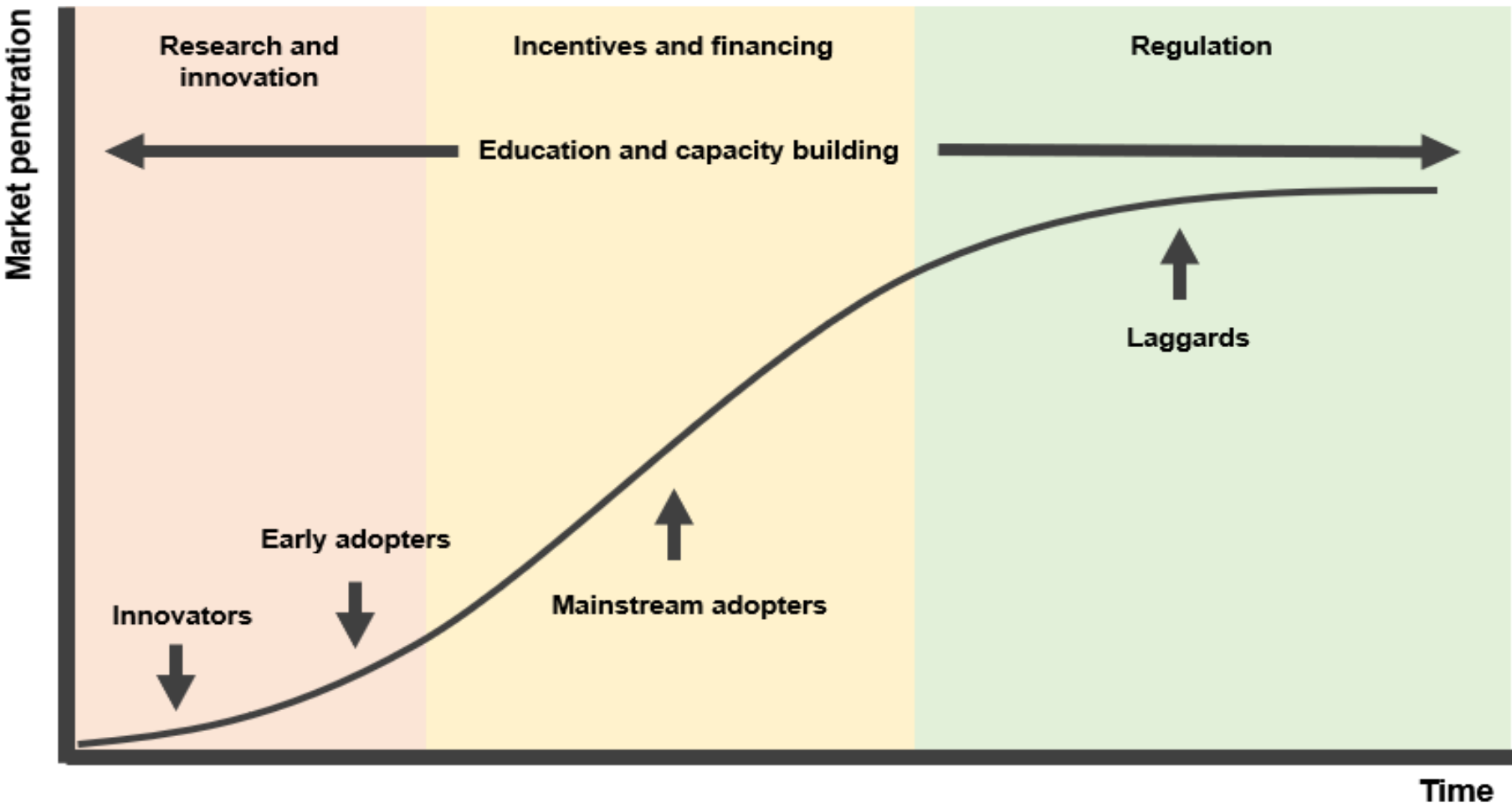
4-year Climate Implementation Plan

Innovation

- Driving Transformational Change
- Climate & Environment Analytics Project
- Assessing Climate Risk

Driving Transformational Change

Market Transformation Curve



Climate & Environment Analytics Project

Product

An online data analysis and advanced analytics platform providing City staff a set of tools to facilitate collective climate and environmental monitoring, reporting, and forecasting.

1

Corporate Data warehouse



- *Integrate source data in one place to support dashboards and portals.*
- *Web console app for manual data entry*

2

Corporate Dashboard



- *Track metrics against targets and monitor patterns, trends, and outliers.*

3

Corporate Reporting Portal



- *Generate reports*
- *Access climate and environmental datasets.*

4

Corporate Advanced Analytics Portal



- *Provide insights and recommendations.*

5

Citizen Dashboard

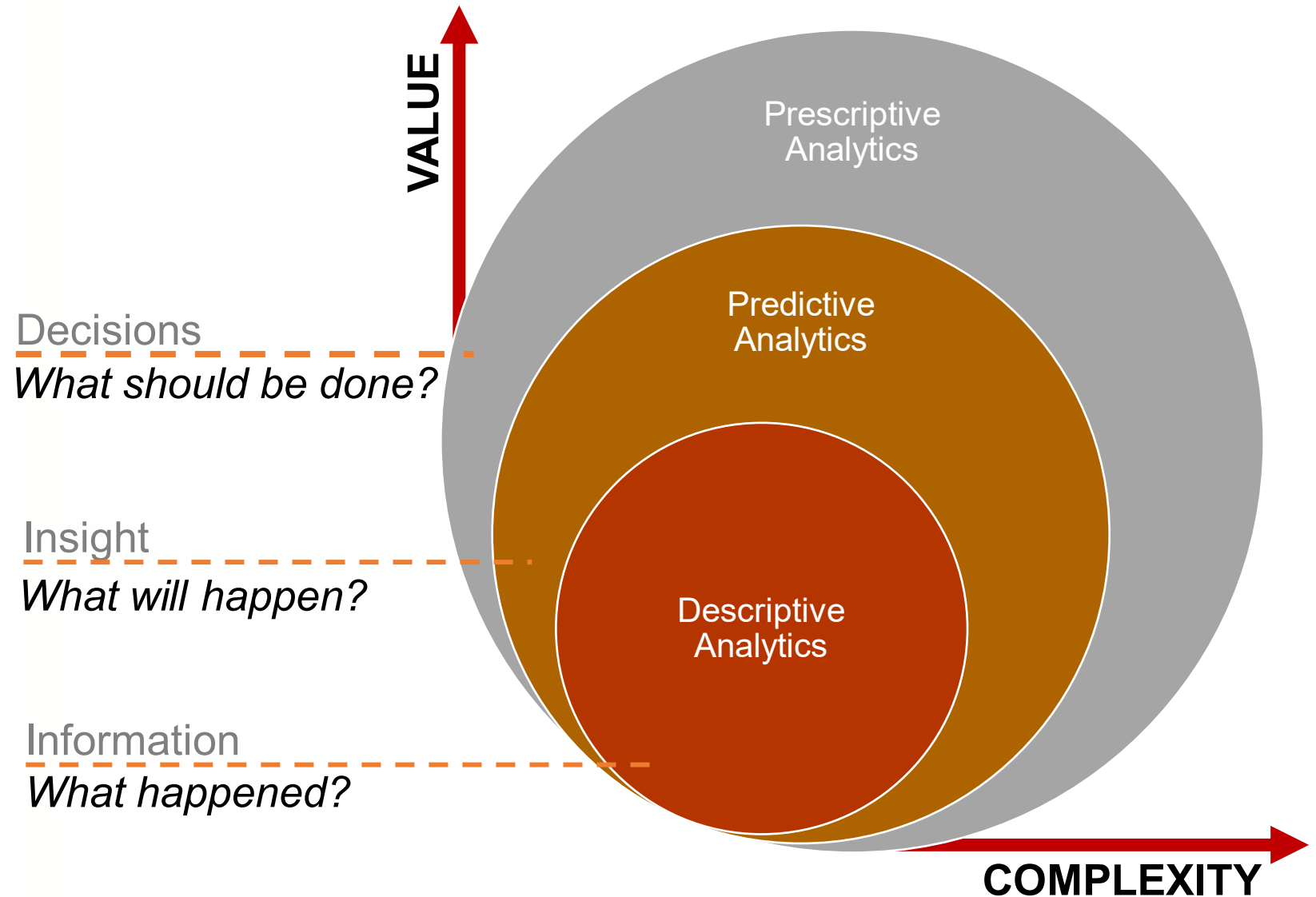


- *View indicators, summarized information*
- *Access displayed data via Open Data Portal.*

Climate & Environment Analytics Project

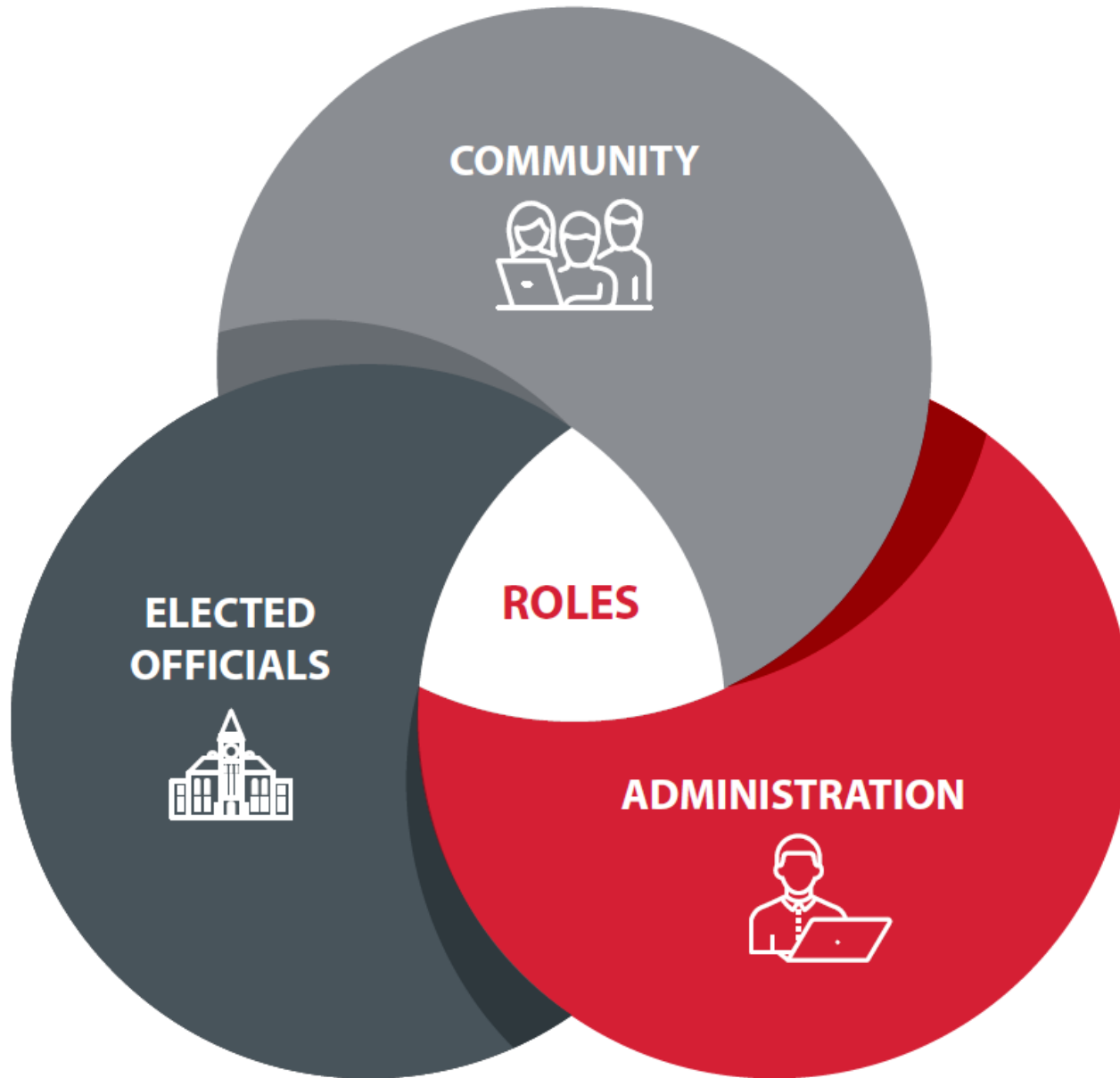
Goal

Deliver relevant and actionable climate and environmental information, insight and recommendations in a consistent, coordinated and integrated way.



Collaboration

- Working Together (Calgarians, Administration, and Council)
- Our Relationship with the Community
- ReClimate
- Calgary Climate Panel



Working Together

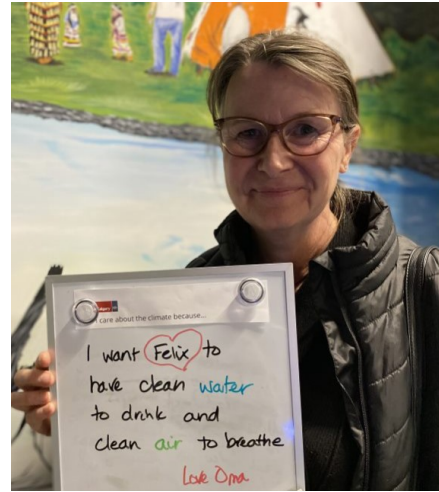


Our Relationship with Calgary's Community



ReClimate

Calgary's Climate Communication, Education, and Outreach Strategy



Nearly 80% of Calgarians are concerned about climate change. 72% feel we need to do more.

Calgary Climate Panel

Alberta Council for
Environmental
Education

Alberta EcoTrust

Alberta Health Services

ATCO Gas

BILD Calgary Region

BOMA

Calgary Airport
Authority

Calgary Board of
Education

Calgary Chamber

Calgary Climate Hub

Calgary Emergency

Management Agency

ENMAX Energy

Fuse Collective

Indigenous Community

Intact Insurance

NAIOP

Siemens Canada

University of Calgary

Youth

Accountability

- **Building Accountability Notice of Motion**
- **Climate Advisory Committee**
- **Council (Community Development & Audit Committee)**
- **Service Committees**
- **City Auditor's Office**

Accountability Notice of Motion

Directs administration to improve transparency and accountability on climate change, including:

- Develop a reporting framework
- Provide ongoing expenditure reports
- Update climate targets
- Retrofit and update all City owned assets
- Work with civic partners and subsidiaries
- Develop an outreach and education campaign



Internal & External Accountability

External



- Climate Advisory Committee of Council
- Community Development Committee of Council
- Audit Committee of Council

Internal



- Executive Leadership
- Corporate Performance & Reporting
- Climate & Environment Service Committee

Internal & External



- City Auditor's Office

Transparency

Climate Reporting Framework

- Corporate Performance Report
- TCFD & Financial Reporting
- Annual Climate Progress Report

C&E Analytics Dashboard

Open Data Portal

Carbon Disclosure Project



Climate Reporting Framework



PERFORMANCE REPORT

Executive Committee

High-level summary on the performance of The City's lines of service, including department performance measures, Council Priorities, business plans, and budget performance (including operational and capital budgets).

MARCH



FINANCE REPORT

Audit Committee

The City's commitment to provide effective governance, increased accountability, transparency, and a well-run City.

APRIL



ANNUAL CLIMATE PROGRESS REPORT

Community Development Committee

The Annual Climate Report will summarize The City's progress on climate mitigation and climate adaptation as detailed in Calgary's Climate Strategy - Pathways to 2050

JUNE





Climate & Environment Dashboard Prototype

Clean Water

Water Demand

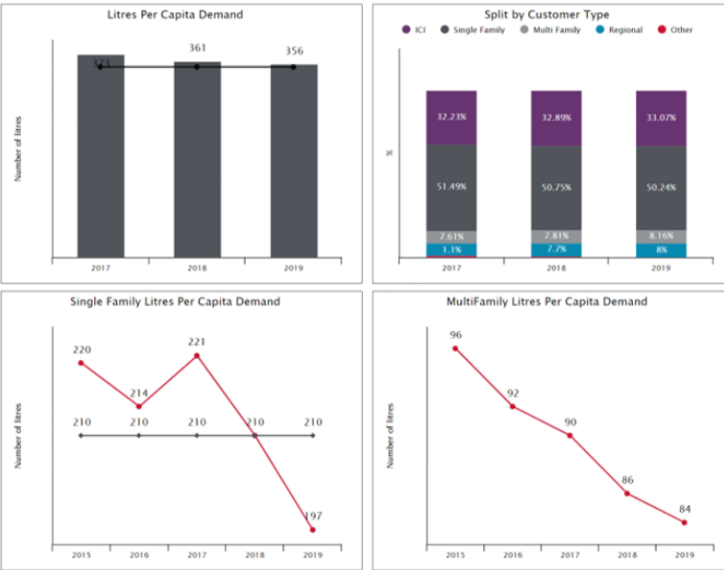
Objective: Meeting the demand for water (use water wisely).
Indicator: Litres of water consumed per capita per day in Calgary.
Target: Reduce per capita water consumption by 30% from 2003 levels, to 350 litres per capita per day, by 2033.



Description: Total water used in Calgary equals water used by residents, business and institutions, as well as water lost through leaks, unaccounted for, or not billed. This total is then divided by the number of people living in Calgary to get litres per capita per day.



Water Demand



Natural Environment

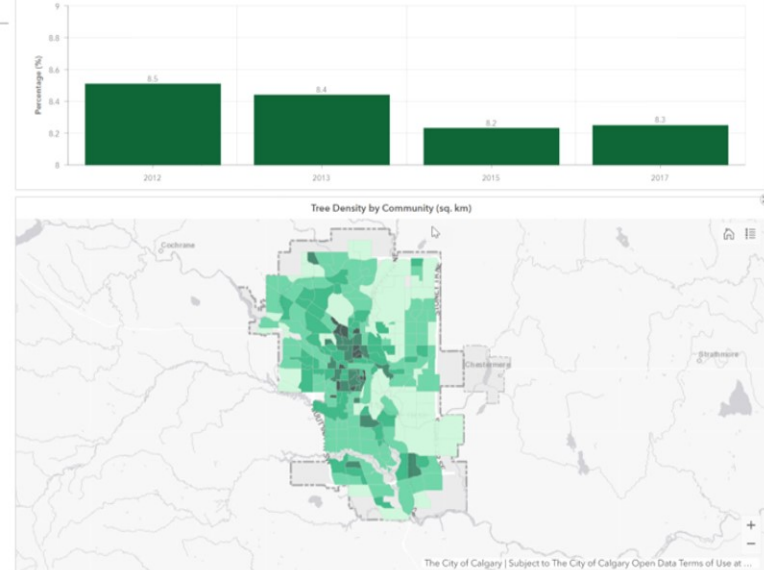
Tree Canopy

Objective: Increase tree canopy.
Indicator: Total percent of the layer of tree leaves, branches, and stems that provide tree coverage of the ground when viewed from above.
Target: Total percent of tree coverage is 16%, by 2060.



Description: This indicator reflects total tree canopy coverage viewed through LIDAR. Improving a city's urban tree canopy can have numerous benefits, including reducing summer peak temperatures and air pollution, enhancing property values, providing wildlife habitat, providing aesthetic benefits, and improving social ties among neighbours.

Tree Canopy Coverage



Sustainable Mobility

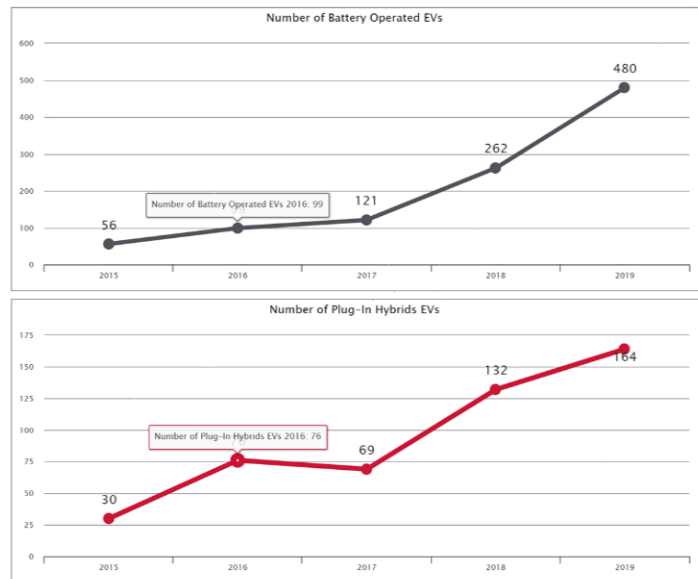
Electric Vehicles

Objective: Increase use of electric and plug-in hybrid vehicles.
Indicator: Total number of electric and plug-in hybrid vehicles registered of all passenger vehicles in Calgary.
Target: Undefined.



Description: This indicator reflects the portion of the passenger vehicle fleet (cars, pick-up trucks, SUVs) owned by private citizens that are either electric or plug-in hybrid vehicles. Both contribute directly to GHG (and local air pollution) emission reductions due to driving in Calgary. The number of registered electric and plug-in hybrid vehicles is divided by the total number of registered passenger vehicles in Calgary.

Electric and Plug-in hybrid registered vehicles



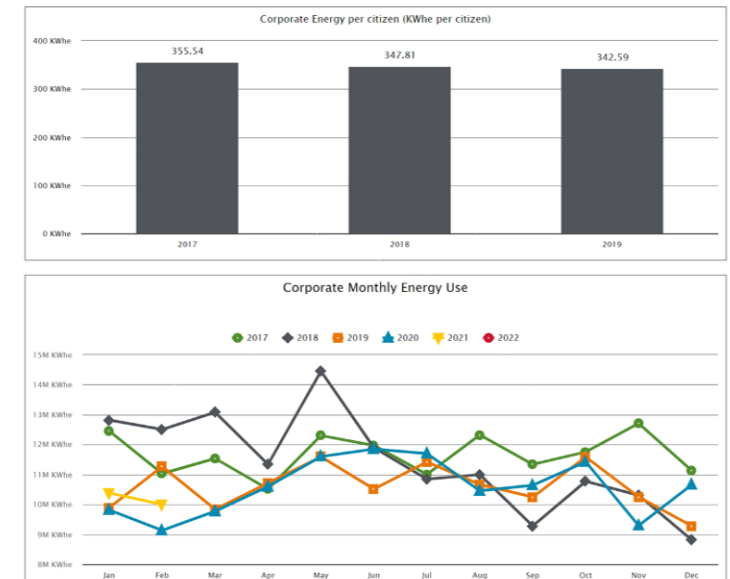
Green Government

Corporate Energy Use

Objective: Maintain or reduce energy intensity.
Indicator: Corporate energy use per citizen.
Target: Maintain or reduce rate as compared to 2014 level.



Corporate Energy Use






Browser address bar: <https://data.calgary.ca>

Navigation: Home Browse Data Dataset Suggestions About Developer Info Help

Sign In


City of Calgary's Open Data Portal

Browse, download, and innovate.




Browse Data

Browse the datasets



Feedback

Do you have feedback or suggestions to enhance data.calgary.ca




Help

New to our site or want to learn more about what you can do with Open Data? [Click here.](#)



Current Year Rainfall

Check how much has rained in your area



What is open data?

Check out this video to learn more about open data!



Building Inspections

Check property permit inspection records

Carbon Disclosure Project



12 results / Calgary

Name	Response	Year ▼	Status	Score
City of Calgary, AB	Cities 2023	2023	Submitted	Not Scored
City of Calgary, AB	Cities 2022	2022	Submitted	Not Available
City of Calgary, AB	Cities 2021	2021	Submitted	Not Available
City of Calgary, AB	Cities 2020	2020	Submitted	Not Available
City of Calgary, AB	Cities 2019	2019	Submitted	Not Available

Note: Not all companies requested to respond to CDP do so. Companies who are requested to disclose their data and fail to do so, or fail to provide sufficient information to CDP to be evaluated will receive an F. An F does not indicate a failure in environmental stewardship.

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< [1](#) [2](#) [3](#) >

Questions?

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