

# **#ResilientYYC: Preliminary Resilience Assessment Overview**

# A GREAT PLACE TO MAKE A LIVING, A GREAT PLACE TO MAKE A LIFE

### **CITIZEN PRIORITIES + COUNCIL DIRECTIVES**

A PROSPEROUS CITY

A CITY OF SAFE + **INSPIRING NEIGHBOUR-**HOODS

A HEALTHY AND GREEN CITY

A WELL-RUN CITY

A CITY THAT MOVES

## **OUALITIES OF A RESILIENT CITY**



#### REFLECTIVE

Using past experience to inform future decisions



#### **RESOURCEFUL**

Recognizing alternative ways to use resources



#### **REDUNDANT**

Spare capacity purposively created to accommodate disruption



#### ROBUST

Well-conceived, constructed, and managed systems



#### **FLEXIBLE**

Willingness and ability to adopt alternative strategies in response to changing circumstances



#### **INCLUSIVE**

Prioritize broad consultation to create a sense of shared ownership in decision making



#### **INTEGRATED**

Bring together a range of distinct systems and institutions

## **DISCOVERY AREAS**



#### **ECONOMIC RESILIENCE**

How does Calgary strengthen our economic drivers to be better prepared for shocks & stresses?

#### **QUESTIONS FOR FURTHER STUDY**

- · What are the barriers to employment and economic participation, and how can these barriers be best overcome, particularly for disadvantaged communities?
- What government structures, human resources, and other assets are required to enhance Calgary's ability to attract business and talent that benefits the community as a whole in the long run?
- How can we best retrain and reutilize existing human and capital assets and resources as Calgary transitions to a more diversified economy less vulnerable to commodity price fluctuations?



#### **INFRASTRUCTURE RESILIENCE**

How does Calgary grow an integrated, connected and well managed city?

#### **QUESTIONS FOR FURTHER STUDY**

- · How do we measure the value of infrastructure in enhancing quality of life and vibrant communities?
- · How do we strengthen capital resilience by lowering the financial exposure to infrastructure risks?
- · How do we strengthen partnerships, regional planning, and resourcing of infrastructure, including the operation of infrastructure in public spaces?
- · When does aging infrastructure limit or hinder the delivery services?



#### **ENVIRONMENT RESILIENCE**

How can Calgary strengthen our natural assets and ecosystems within our city and region?

#### **QUESTIONS FOR FURTHER STUDY**

- · How can Calgary better utilize our natural assets to support biodiversity, ecological function and resilience for the future?
- · How can we better understand our shared risk and co-create solutions that encompass the economic, ecological and social co-benefits of our natural assets and ecosystems?
- · How can we best integrate, implement and monitor climate adaptation and mitigation programs in support of a strong economy, environment and society?



#### **INCLUSIVE LEADERSHIP AND DECISION MAKING**

#### How does Calgary capitalize on its diverse human assets?

#### **OUESTIONS FOR FURTHER STUDY**

- What are the economic arguments for reducing underemployment of diverse target populations, and how can this benefit these populations and the city more widely?
- · How can Calgary's civic institutions, businesses, and other influential organizations diversify their boards and senior leadership to ensure that the city's leadership reflects the needs and experiences of its residents?
- · How can The City of Calgary build relationships of mutual trust, respect, and understanding with Indigenous communities and other diverse target populations in order to foster their meaningful involvement in decision-making processes?

CROSS CUTTING THEME: HOW DO WE ENCOURAGE A TRUSTING ENVIRONMENT THAT SUPPORTS INTENTIONAL RISK TAKING, INNOVATION AND CO-CREATION?

## **SHOCKS** | STRESSES | OTHER

**Oil Price** Increase + **Economic** Boom + **Population** 1.1 Million

**—— 2008** 

Physical **Condition** of City **Assets — 2009** 

**Decline** in Infrastructure

2011 Economic Recovery Calgary EATS!

of WTI\* is up to \$107 Major River Snow-Flood tember

2014

**A Barrel** Calgary Becomes 100RC Member **Economic** Shift

2015

The City of

**Opioid** Crisis Wildfires in Alberta, \$3.6 Billion

Value of Building **Permits** \$4.6 Billion **Indigenous Policy** Framework

2017 —— 2018

2017 Total

Strategic Plan: 2026

26.7% Office **Vacancy Rate** 

**Downtown Calgary Advisory Committee** on Accessibility

..... 2019

**Complete GHG mitigation** plan and Climate Change **Adaptation Plan** 

**Green Line LRT** 

500,000: Calgary's projected immigrant population\*\* 2020 ---- 2030 2033

2°C Increase

**Temperature** 

in Annual

construction commences

End of 30-year **Water Efficiency** Plan: Reduce Water Use by 30% in 30 Years

..... 2050

**Precipitation: Drought** 7% Increase in **Winter Precipitation: Extreme Winter Storms** 

5% Decrease in Summer

2060

5x Hotter Days (49)

2070

Calgary's population will double between 2006 and 2076

**Green Fleet** Initiative **Triple Bottom** 

A Plan for **Ending Alberta** Homelessness in 10 Years Line (TBL) **Policy** 

**— 2010** 2020 Sustainability Direction

100% Increase in Insurance **Premiums** from Floods

2013

52,000 **Alberta** jobs lost from December 2014 to July 2016

**Affordable** Housing Shortage A Barrel of WTI is CED down to \$42

**—— 2016** 

10 Year Economic Strategy Plan: Update

**Return to Pre-Flood Premiums** due to Resilience **Efforts** 

ized MGA City Charter

Modern-

**Implementation** \$5.07 B Infrastructure

**Resilience Strategy** 

**Funding Gap** Approved **Economic Development Investment Fund: EDIF** 

> **One Calgary: Service Based** Plans & Budgets (2019-2022)

One in two people in Calgary will be an immigrant or the child

> of an immigrant\*\*\* 40% of the working-age population will belong to a

visible minority group\*\*\*\*

**Temperature** 

in Annual

4°C Increase

In partnership with **RESILIENT** CITIES

**ImagineCALGARY** 

<sup>\*</sup> WTI - West Texas Intermediate is a grade of crude oil used as a benchmark in oil pricing

<sup>\*\*</sup> The immigrant population in Calgary— and throughout Canada—is growing and will continue to grow. Calgary's total immigrant population (both Permanent and Non-permanent residents) is projected to reach almost half a million by 2020 \*\*\* 2036 - Based on projection scenarios, more than one in two people in 2036 would be an immigrant or the child of an immigrant in Calgary (between 56.2% and 63.3%)

<sup>\*\*\*\* 2036</sup> the proportion of the working-age population (aged 15 to 64) who belong to a visible minority group would increase in all areas of the country, in all the scenarios. This proportion would surpass 40% in Toronto, Vancouver, Edmonton, Calgary, Winnipeg and Abbotsford