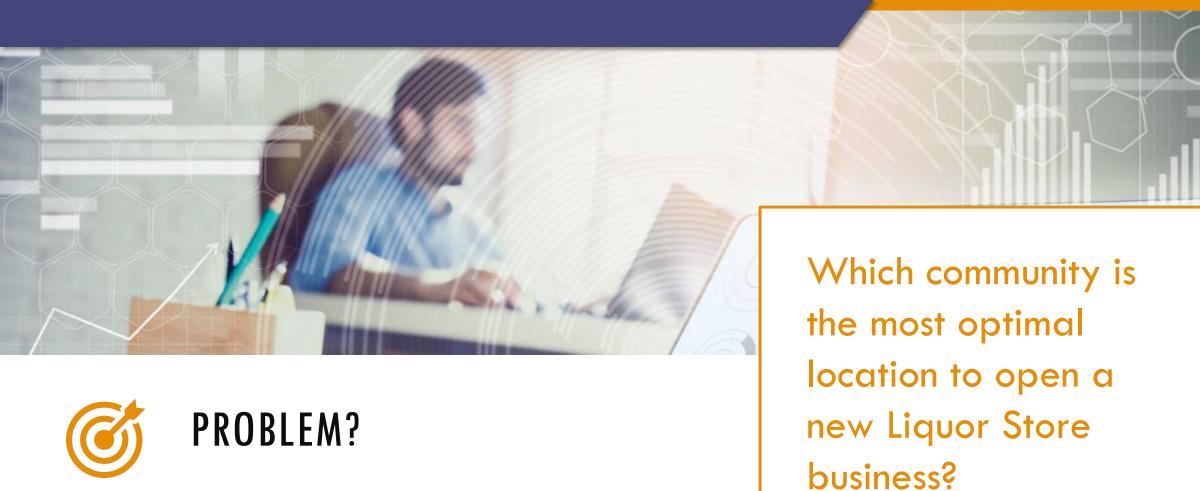


### **BACKGROUND**

#### Calgary

- The fifth largest city in Canada
- Located in southern Alberta
- the center of oil industry of Canada
- ranked 32 in the Mercer's "2019 Quality of living city ranking"
- population of nearly 1.4 million



### **DATA**

Where?



The information regarding community names, their addresses and the population of each community will be collected from the City of Calgary's Open Data Portal and Citizen Dashboard

How?



Socrata Open Data API is used to fetch the data from the above source

Then?



**Foursquare** API is used to explore each community to find the number of the Liquor Stores that are currently available within 4 km of the centroid of each community

# COMMUNITY NAMES, POPULATION AND COORDINATES

	name	total adults	longitude	latitude
0	LEGACY	4310	-114.005999006031	50.8576170329455
1	HIGHLAND PARK	2736	-114.062066898001	51.0880232734306
2	CORNERSTONE	1831	-113.930582035357	51.1573690704188
3	MONTGOMERY	3159	-114.162261375791	51.0710992820493
4	TEMPLE	6762	-113.946767730631	51.0887951436987

## RATIO OF TOTAL ADULTS PER LIQUOR STORE IN EACH COMMUNITY

	name	total adults	longitude	latitude	nStores	adultsPerStore
0	LEGACY	4310	-114.005999006031	50.8576170329455	8.0	538.750000
1	HIGHLAND PARK	2736	-114.062066898001	51.0880232734306	18.0	152.000000
2	CORNERSTONE	1831	-113.930582035357	51.1573690704188	3.0	610.333333
3	MONTGOMERY	3159	-114.162261375791	51.0710992820493	15.0	210.600000
4	TEMPLE	6762	-113.946767730631	51.0887951436987	15.0	450.800000

### **RESULTS**

Skyview Ranch, Cranston and Beltine respectively have the highest ratios of residing adults between 20-64 years old with respect to the number of Liquor stores located within 4 km of their centroids and therefore are the most optimal communities to open a new liquor stor

	name	total adults	longitude	latitude	nStores	adultsPerStore
57	SKYVIEW RANCH	7808	-113.958374584808	51.1561260801993	4.0	1952.000000
131	CRANSTON	12257	-113.979988807808	50.8782053378332	8.0	1532.125000
197	BELTLINE	22025	-114.055186108942	51.0374499480811	16.0	1376.562500
65	SADDLE RIDGE	13864	-113.94562255923	51.1305800978341	11.0	1260.363636
85	TUSCANY	11735	-114.24083757895	51.1219158894765	10.0	1173.500000