# CDP Rental Housing Affordability Dashboard Project

Providing timely insights into affordability by analyzing online rental listings

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Presented by the Community Data Program Team

Canadian
CED Network

# Presentation Outline
## What We'll Explore Today

1. Project History and Overview

2. Methodology

3. Dashboard Demonstration

4. Questions & Potential Next Steps

# Project History
## And Overview

# Methodology

## 1. Data Sources & Collection

- **Public Rental Listings:** Timely "asking rents" are collected from public websites using web scraping and APIs.
- **Statistics Canada Census:** Provides a five-year snapshot of broad housing conditions, including shelter costs for occupied dwellings.
- **CMHC Rental Market Survey:** Offers annual data on rents, vacancy rates, and turnover rates for purpose-built rental apartments in larger urban centers.

## 2. Data Cleaning & Standardization
Raw data from these diverse sources undergoes a rigorous cleaning process to ensure accuracy and comparability. This includes:

- **Geocoding:** Assigning standard geographic identifiers to each listing.
- **Removing Bad Data:** Filtering out listings with unrealistic prices, incomplete information, and non-rental items (e.g., parking spots).
- **Deduplication:** Identifying and removing duplicate listings.
- **Standardizing Variables:** Aligning categories like bedroom counts (e.g., "Bachelor" and "Studio" become one category) and dwelling types across all datasets.

## 3. Data Aggregation & Analysis
The cleaned data is aggregated to calculate key metrics such as **average and median rent**, **listing counts**, and **average unit size** for various geographic levels, dwelling types, and bedroom counts. This allows for direct comparison between the real-time asking rents from public listings and the lagging data from official sources.

# Dashboard
## Demonstration

# Questions &
## Potential Next Steps

1. How do you see yourself using the dashboard/dataset?

2. How frequently should we collect data?

3. How frequently should we release data?

4. What other sources would you like to see collected?