

# Project 3



> > Data Visualization Bootcamp < <

Team 2

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# Impossible House Prices

# How have housing prices behaved in the top 5 cities in Mexico?



# WHAT DO YOU THINK IS CURRENT STATUS OF MEXICO'S HOUSING MARKET?

*"The local newspaper 'El Financiero' reports that there are 9 million families in need of housing."*

*"The largest housing deficit in the past decade."*

*"The persistent and high inflation in construction materials has been driving up housing prices."*

*"By the end of 2022, only 135,580 new houses were built."*

Empresas

## Producción de vivienda 'se agrieta' en México: Registra su peor nivel en 10 años

En México hay un déficit habitacional de más de 9 millones de residencias mientras la producción de vivienda va a la baja.

Expandir



Especialistas apuntan que el nearshoring traerá beneficios a la vivienda, pero restará mano de obra. (Cuartoscuro)

Por Fernando Navarrete

abril 18, 2023 | 1:30 am hrs

### Últimas Noticias

1 Bien si vas... ¿bien si no vas? Esto considera la SEP sobre la asistencia a clases para evaluar



2 Zoé Robledo llama a legisladores a defender Presupuesto de Egresos 2024 para consolidar operación de IMSS Bienestar



3 Temporada invernal 2023: ¿Cuáles son los síntomas de la gripe y el COVID-19?



4 Muere 'Teto' Ocampo, músico y guitarrista de Carlos Vives: 'Me siento huérfano de padre musical'



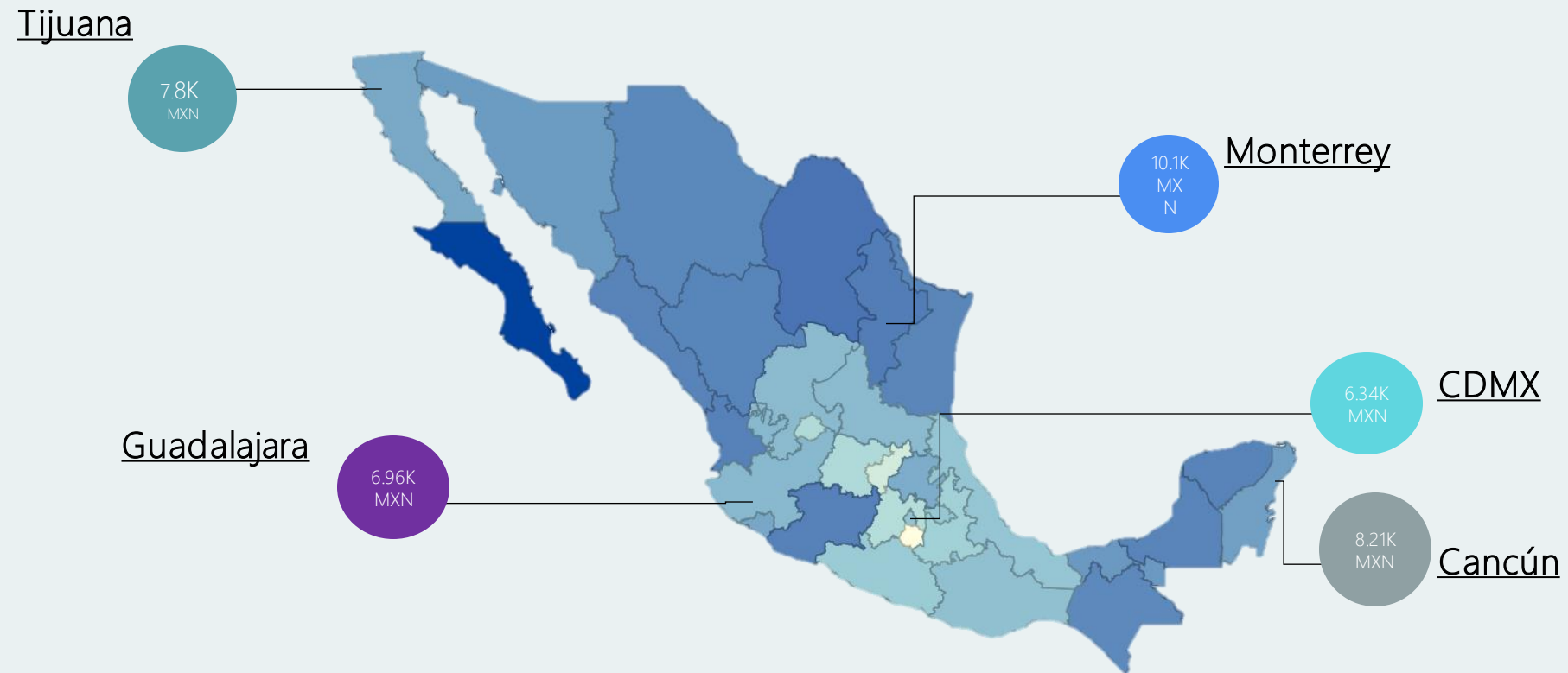
5 En declive: Producción petrolera acumuló nueve meses en números rojos durante agosto



Oct 18 - Dic 16  
Una nueva experiencia cobra vida

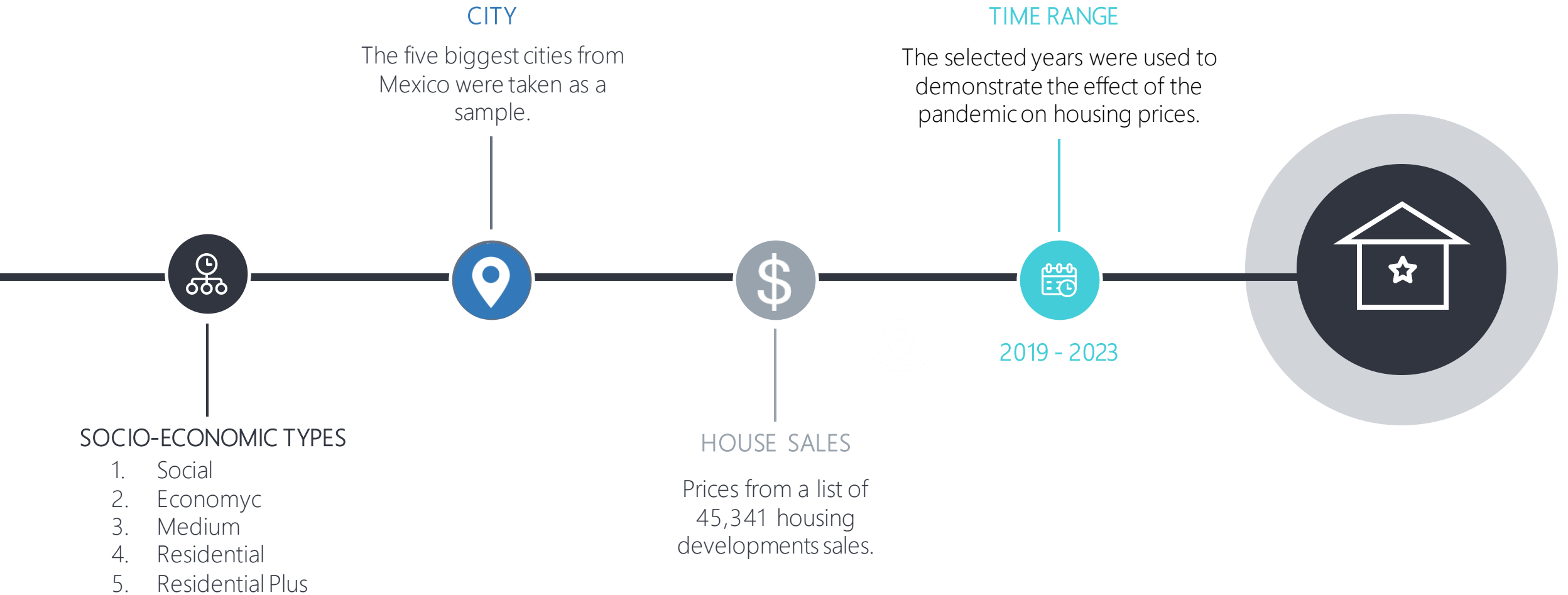


# WHAT IS AVERAGE MONTHLY INCOME IN MEXICO'S TOP 5 CITIES?

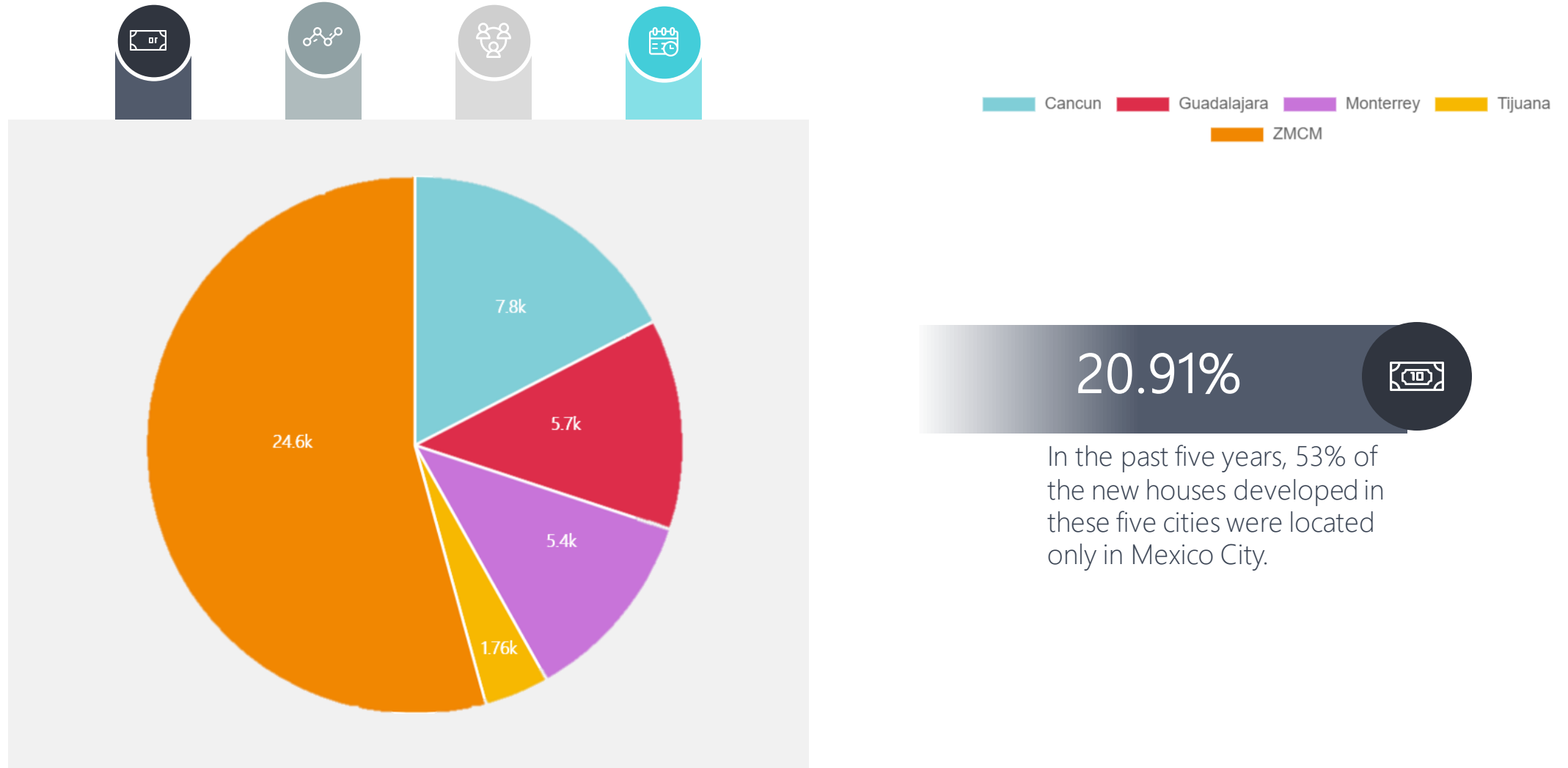


Source: Mexico's Secretary of the Interior.

# DATA CONTENT

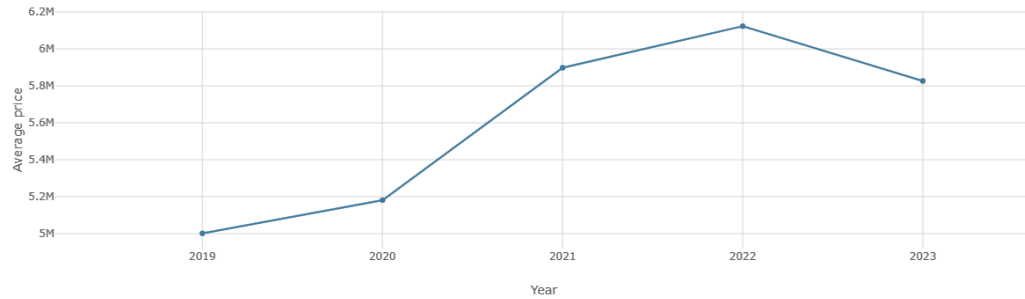


# Distribution of new housing production in the top 5 most important cities in Mexico...

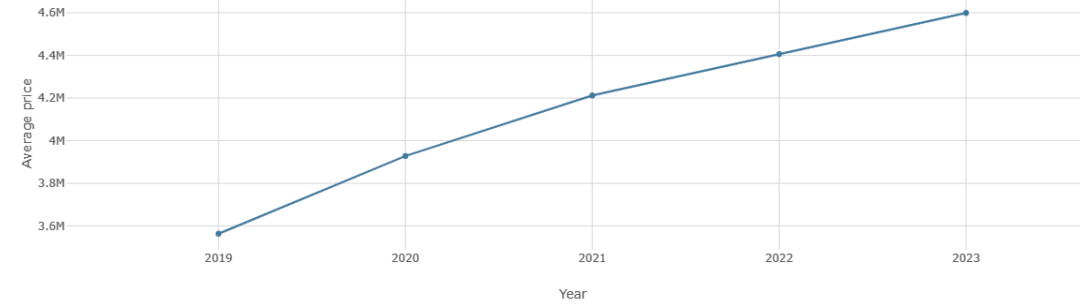


# Average housing price behavior in the top 5 most important cities in Mexico

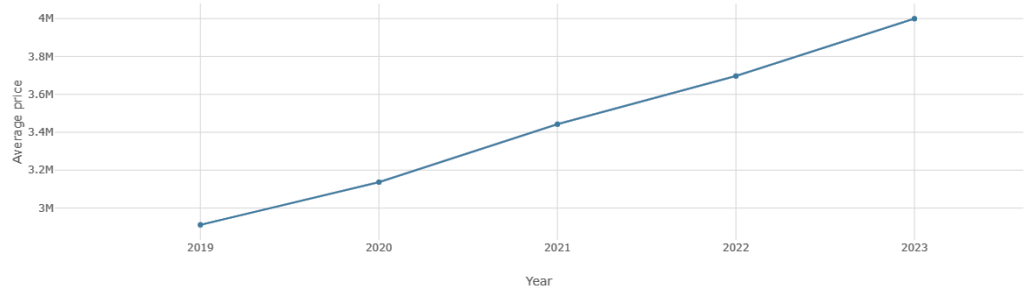
Average Price - Cancun



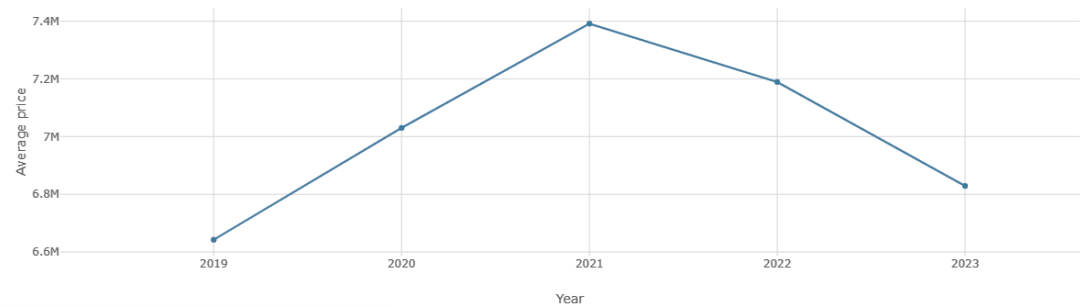
Average Price - Monterrey



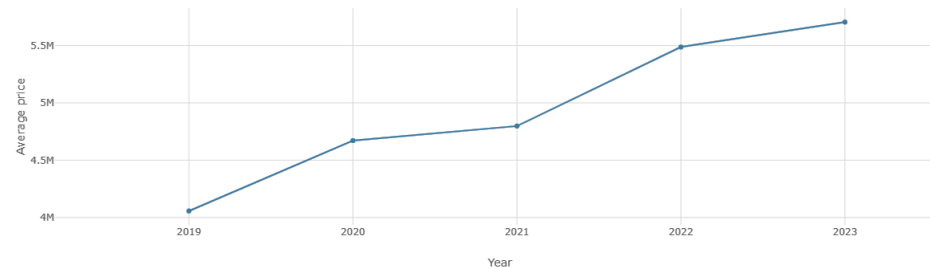
Average Price - Guadalajara



Average Price - ZMCM



Average Price - Tijuana






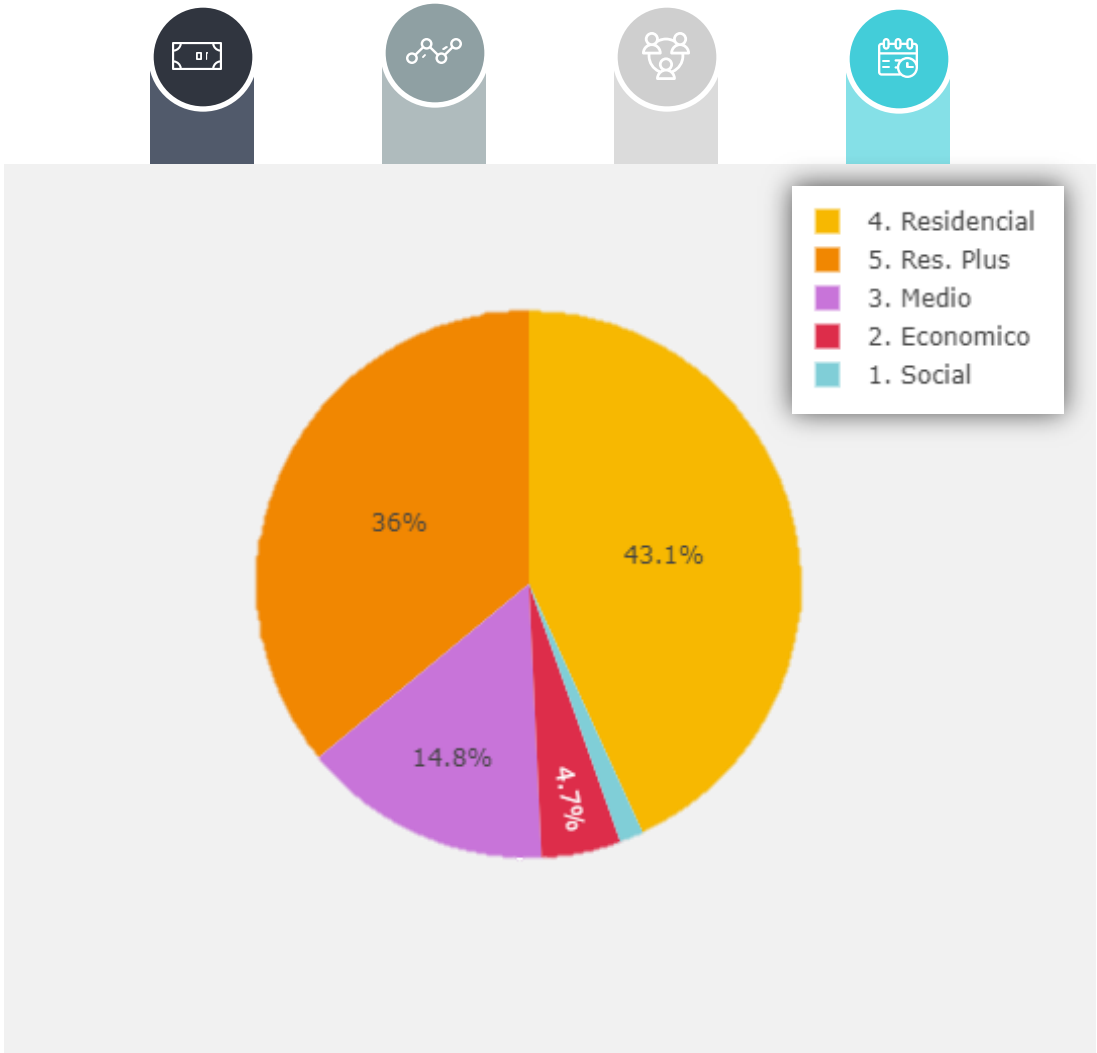
# Distribution of new housing production by socioeconomic level...

 2019-2023

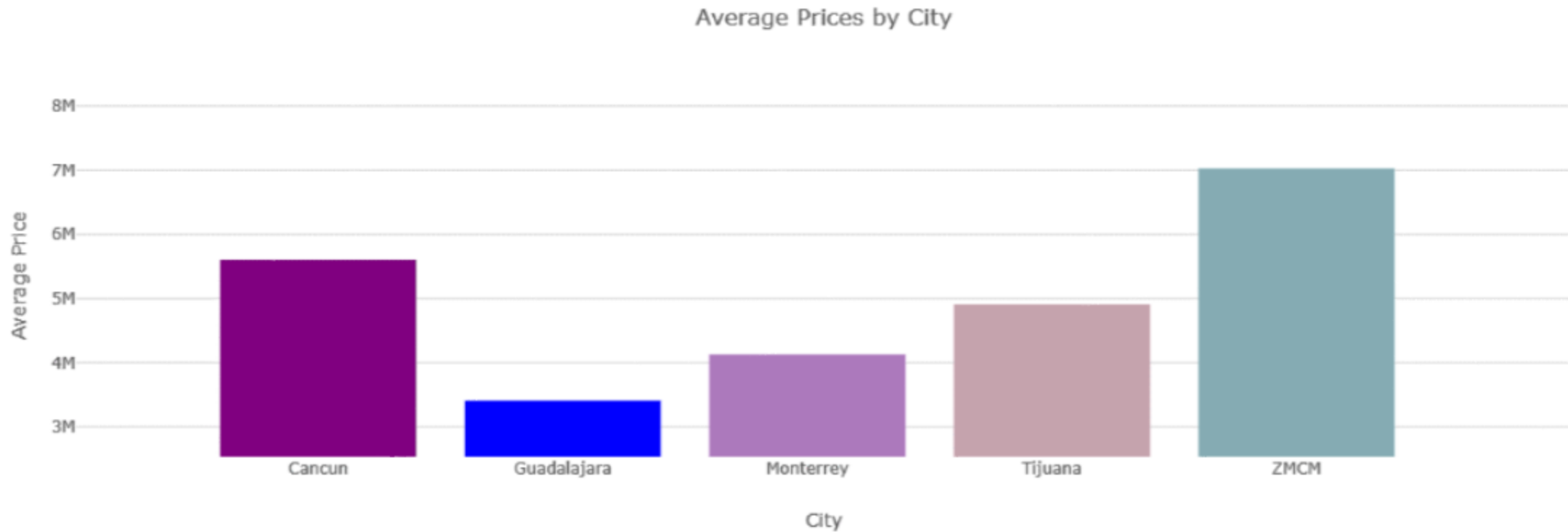
From 2019 to the first semester of 2023 45,341 new living places were built in Mexico's top 5 cities

 20.91%

Only 20.91% of new housing built was from low to medium socioeconomic status.



## Average housing price for top 5 most important cities in Mexico



# CONCLUSIONS



\$ 8,282 MXN

Average income per capita for the top cities



Year	Avg Increase
2020	+5.56%
2021	+6.21%
2022	-1%
2023	-2.7 %



\$ 5,944,756 MXN

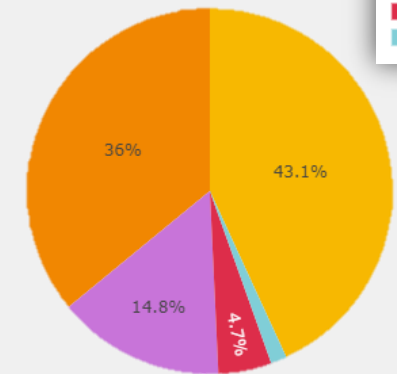
Avg house price in the top 5 cities

¿Average Mexican can buy an average house?

For a household with at least two productive members, it would take an average Mexican 35 years to save enough money for a 10% down payment on the average-priced house, without considering living costs

35 years

Mexican housing developers are focusing on meeting the demand of investors and high-income population in the selected five cities.



- 4. Residencial
- 5. Res. Plus
- 3. Medio
- 2. Economico
- 1. Social

1.-

**DATA SET CLEANING**

2.-

**CREATE THE SQLITE DATABASE**

3.-

**CODE API'S WITH FLASK (BACK END)**

4.-

**SET HTML, CSS AND JS CODE**

5.-

**CONNECT LOCAL SERVER AND SET  
A DASHBOARD VISUALIZATION**

# Coding Details



HOW WE WORKED ON THIS  
RESEARCH?



# Additional Library

Chart.js is a free JavaScript library for making HTML-based charts.

It is one of the simplest visualization libraries for JavaScript, and comes with the following built-in chart types:





THANK YOU