Do we move in the same manner?

A project by
Raúl García Gómez

Transport and Income

Inequality in Madrid

Is there **inequality** on the way we move through a **city**?

Introduction

We aim to link the **income** of the people who move across the Community of **Madrid**, to check whether there exists **inequality on our transportation**.

Data

Three main sources have been used (2018):

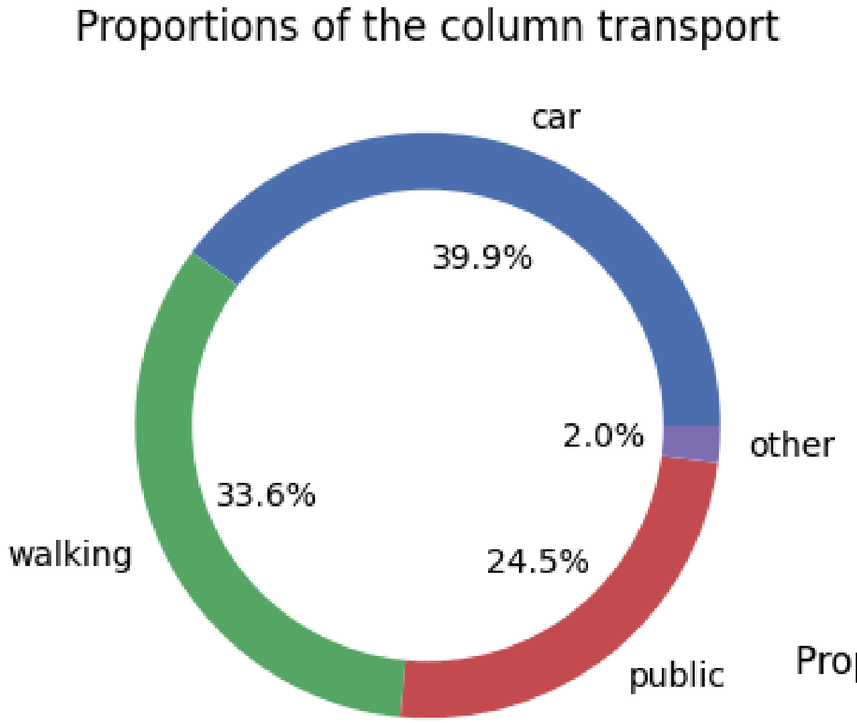
CRTM

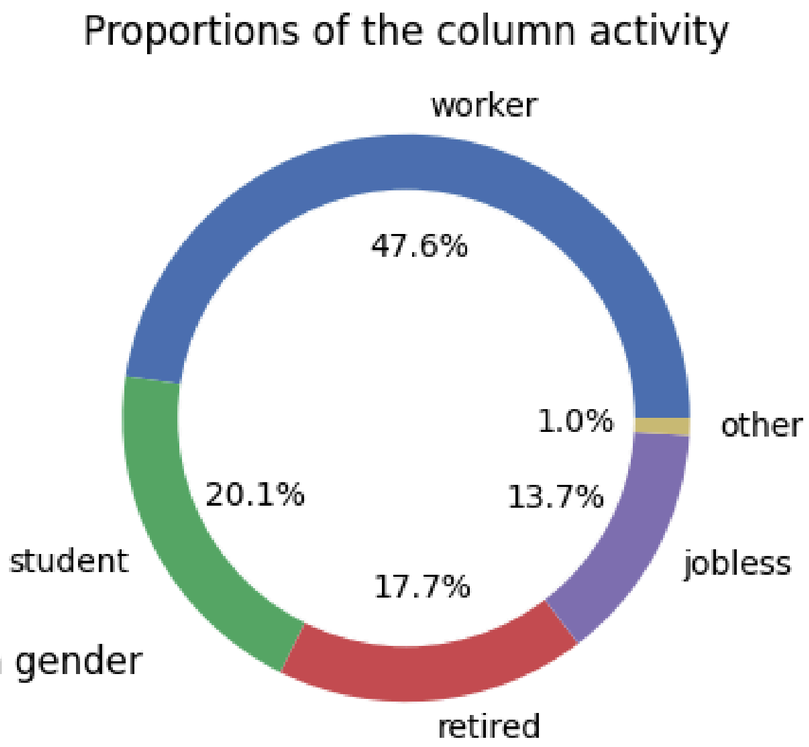
ECV

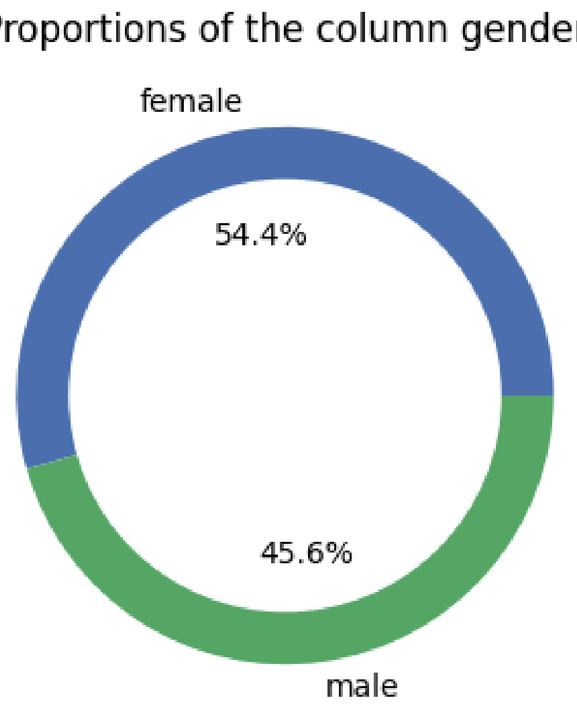
AEMET

Data

Which data is used?

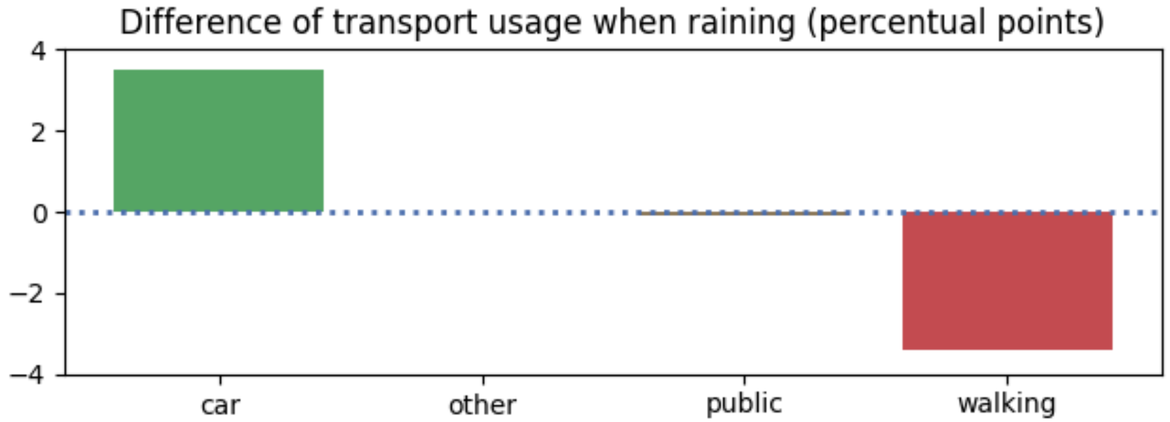


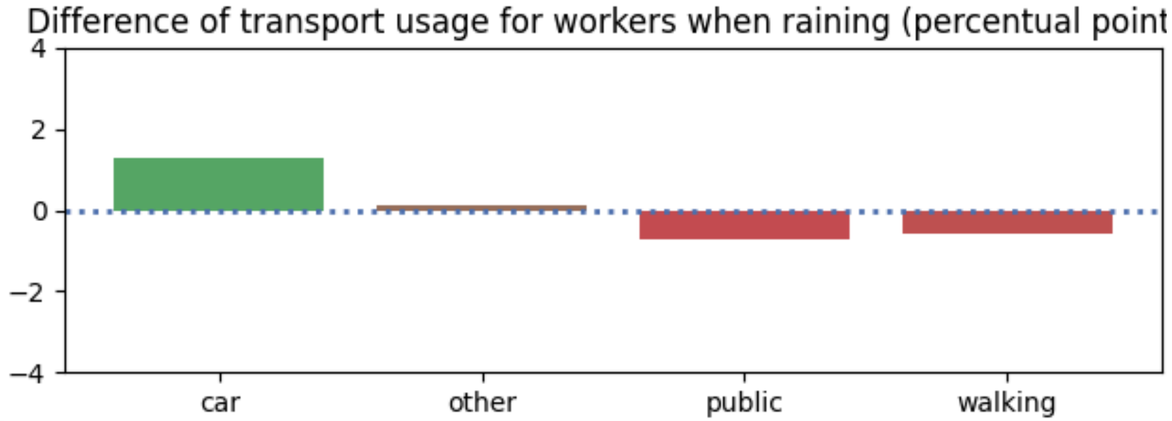




Data

What about weather?





- The study will focus on **workers** and **dry days**

Income

We create the **expected** income as an aggregated indicator

This way:

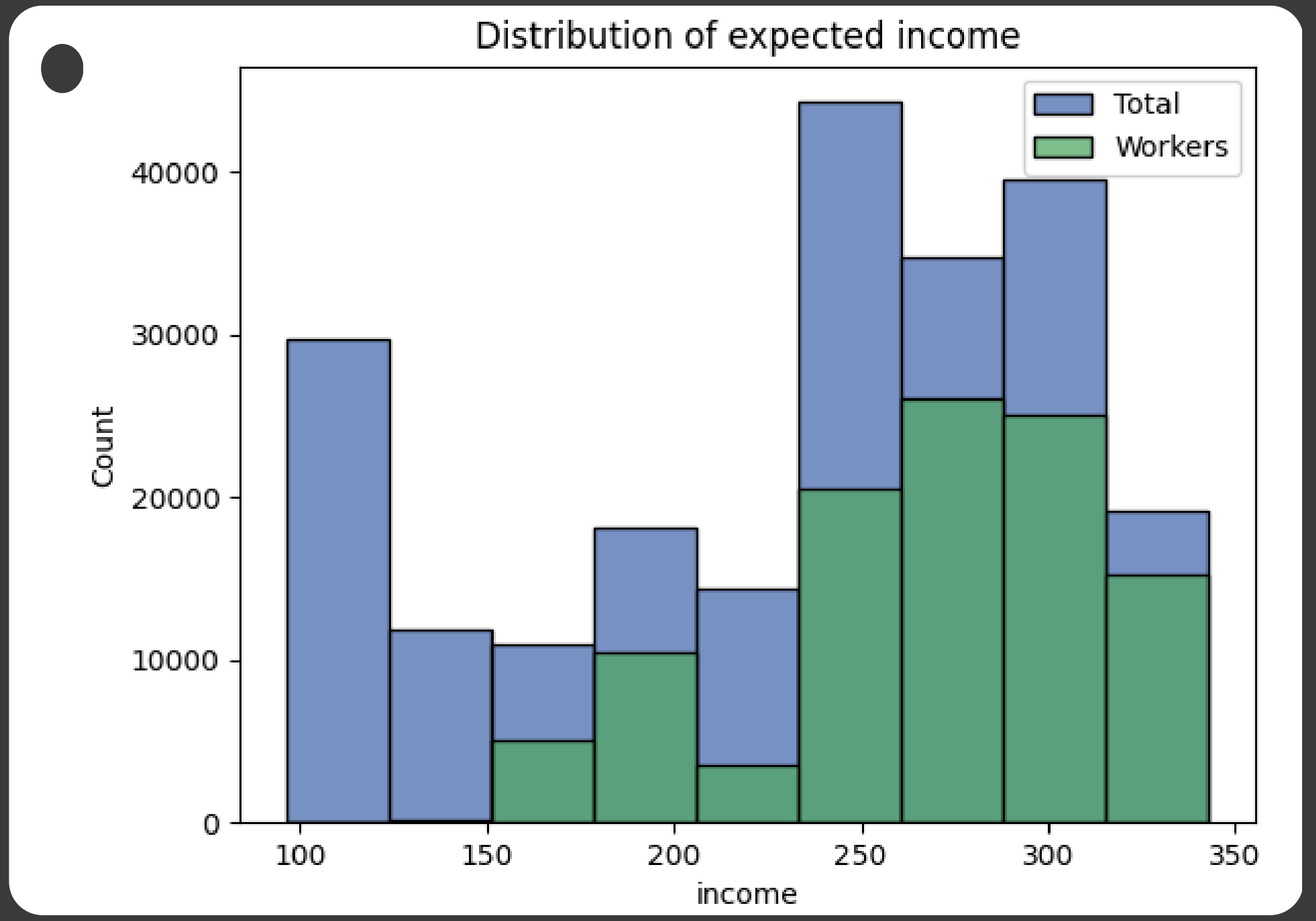
Base Value
+
25 x Education Index
+
25 x Occupation Index
+
25 x Gender Index
+
25 x Age Index
↓
Expected income

Income

Two examples:

Valor	**Condition**	Condition	**Valor**
100	**Base**	**Base**	100
50,5	Retired	Student	-1,5
39,6	Man Older than 65	Man Younger than 16	4,25
6,75	Primary Education	Secondary Education (2nd tier)	17,5
196,85	**Total**	**Total**	**120,25**

Income



How does the expected income distribute?

Income

Caution with this indicator...

122

Total unique values

Very concentrated values on the range:

200-340

37

Unique values for workers

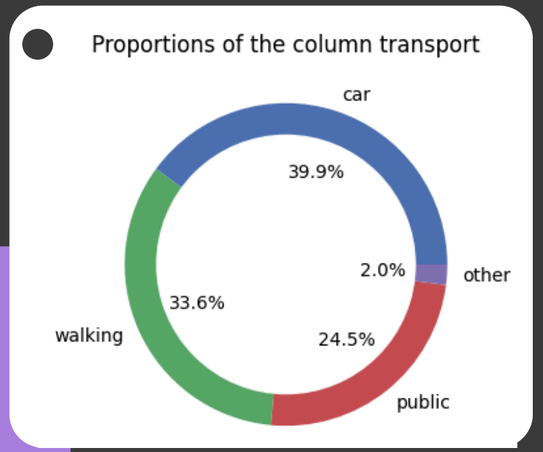
240-310

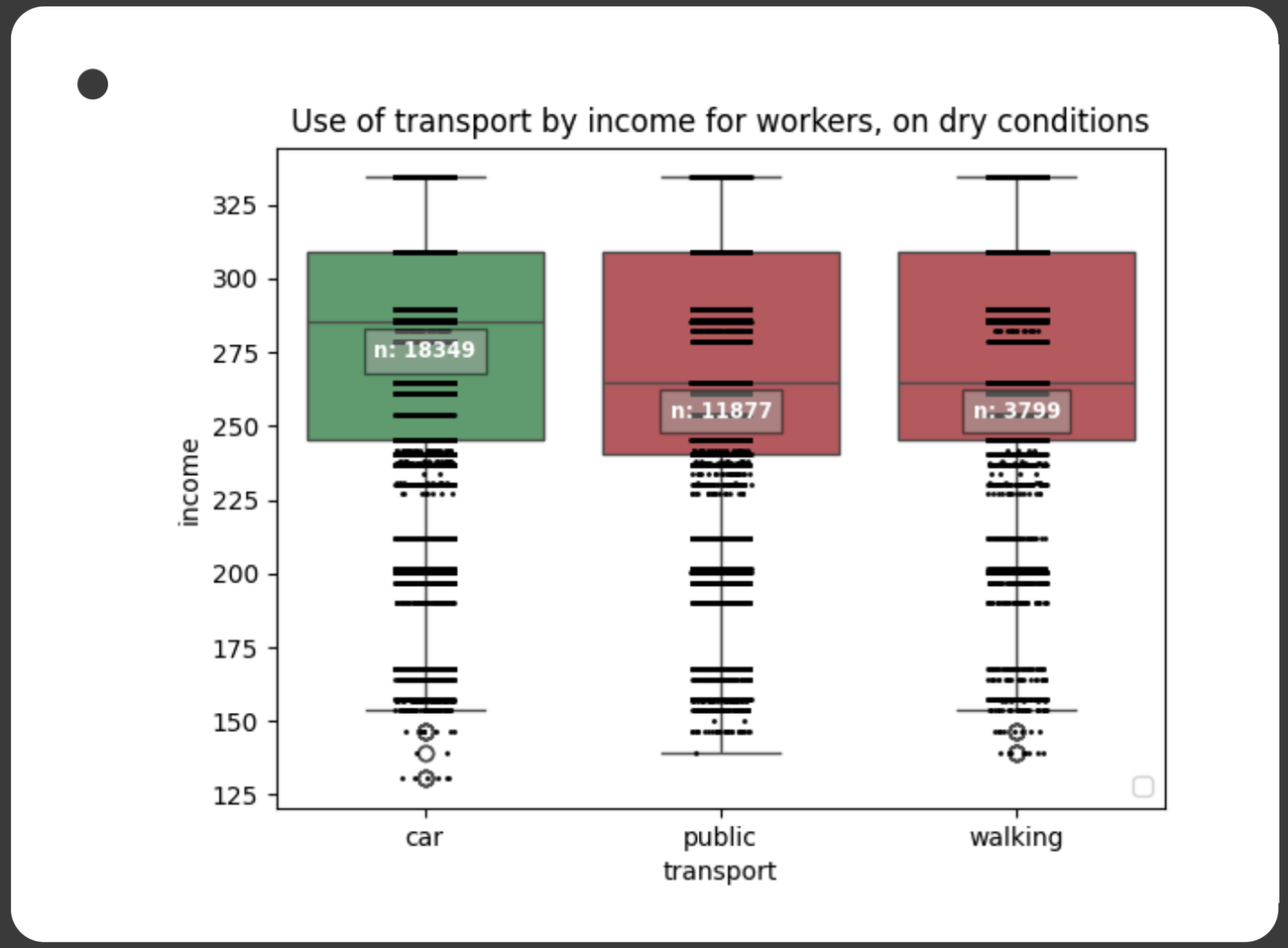
For workers

Let’s take a look at the results...

Main hypothesis

Remember...

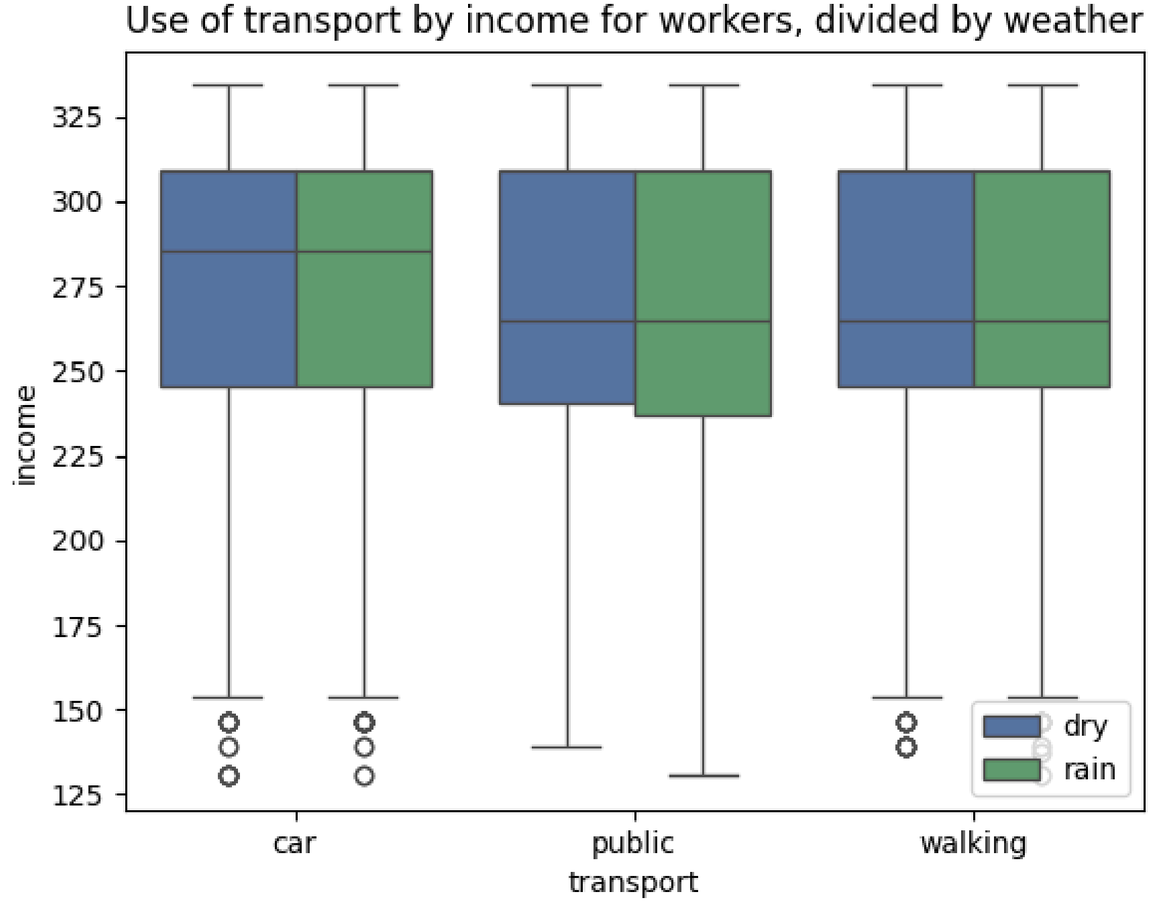




Workers who use car have **higher income**

Main hypothesis

Any effects from rain?

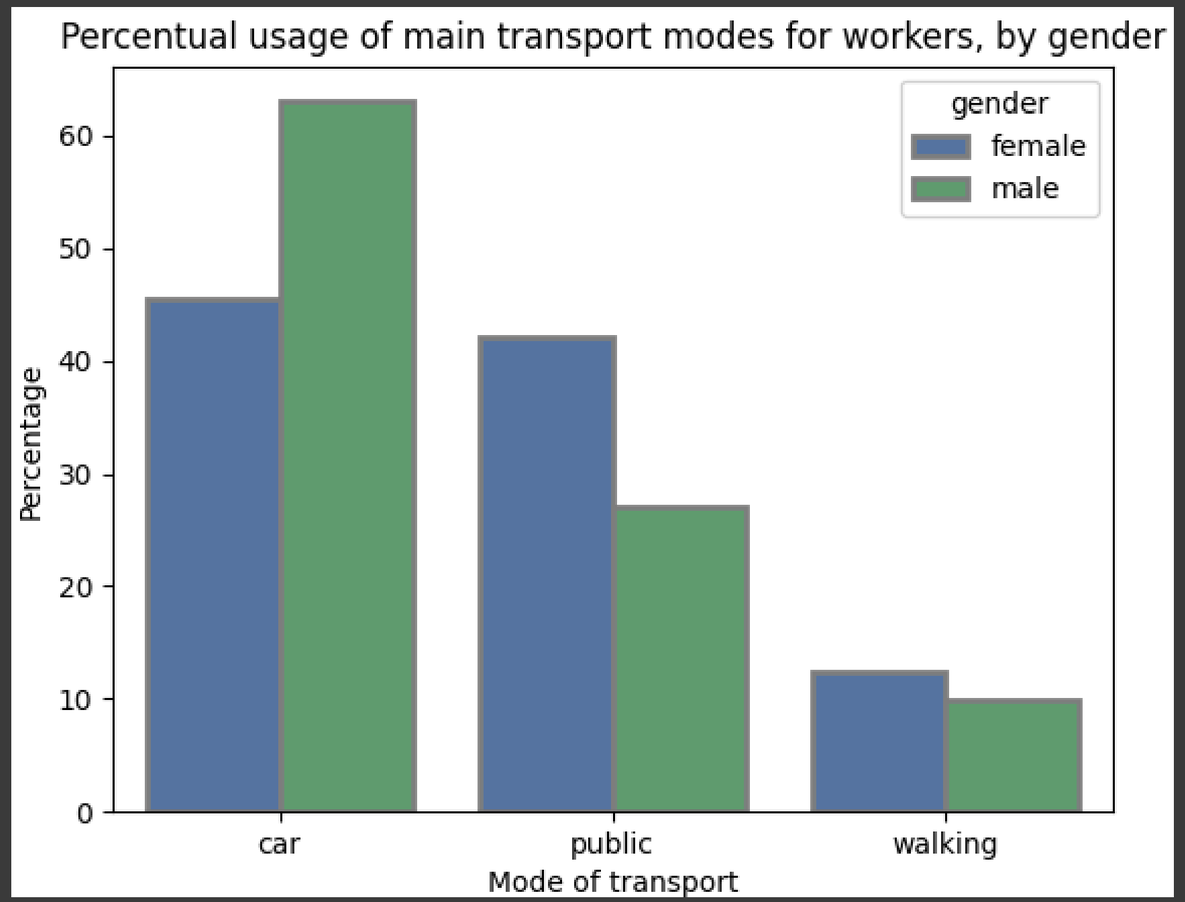


- There is barely any change on the results.

Are there any differences on how **men** and **women** workers move?

Secondary hypothesis

There is.



Too much difference?

Secondary hypothesis

Comparison between transportation modes

- Inferior percentiles are **lower** on both men and women for **public transport**

Conclusions

Transport and income

A relation is found for workers: higher income use the car more frequently, even when we isolate the gender as a variable.

Investment on public transport can be considered as a measure against inequality.

Actions

Women workers use public transport more frequently than men.

Gender

Next steps

Nurture the income indicator with more socioeconomic data.

Broaden the scope of the analysis, beyond workers.

linkedin.com/in/**raulggomez**

github.com/**RauGarGom**

Thank you!