

IMPROVING THE QUALITY OF
LIFE AND DEVELOPMENT IN A
LARGE CITY

SÃO PAULO:THE MOST POPULOUS CITY IN THE AMERICAN CONTINENT AND THE RICHEST CITY IN BRAZIL

- São Paulo is a city in the state of São Paulo
- São Paulo is a state in Brazil



QUALITY OF LIFE

- São Paulo suffers from the inequality of development between the central region and the periphery;
- The economic and social development of the peripheries can improve the lives of all, including
 - the inhabitants of the central region;
- In the next slides, we will compare the quality of life in the regions of the city of São Paulo.

AUDIENCE

- This presentation is intended for those ***responsible for urban development*** in the city of São Paulo;
- And for everyone else interested in better quality of life in this city.

DATA COLLECT - REFERENCES

Wikipedia - São Paulo

Wikipedia - List of São Paulo's districts by population

Wikipedia - List of São Paulo's districts by human development index

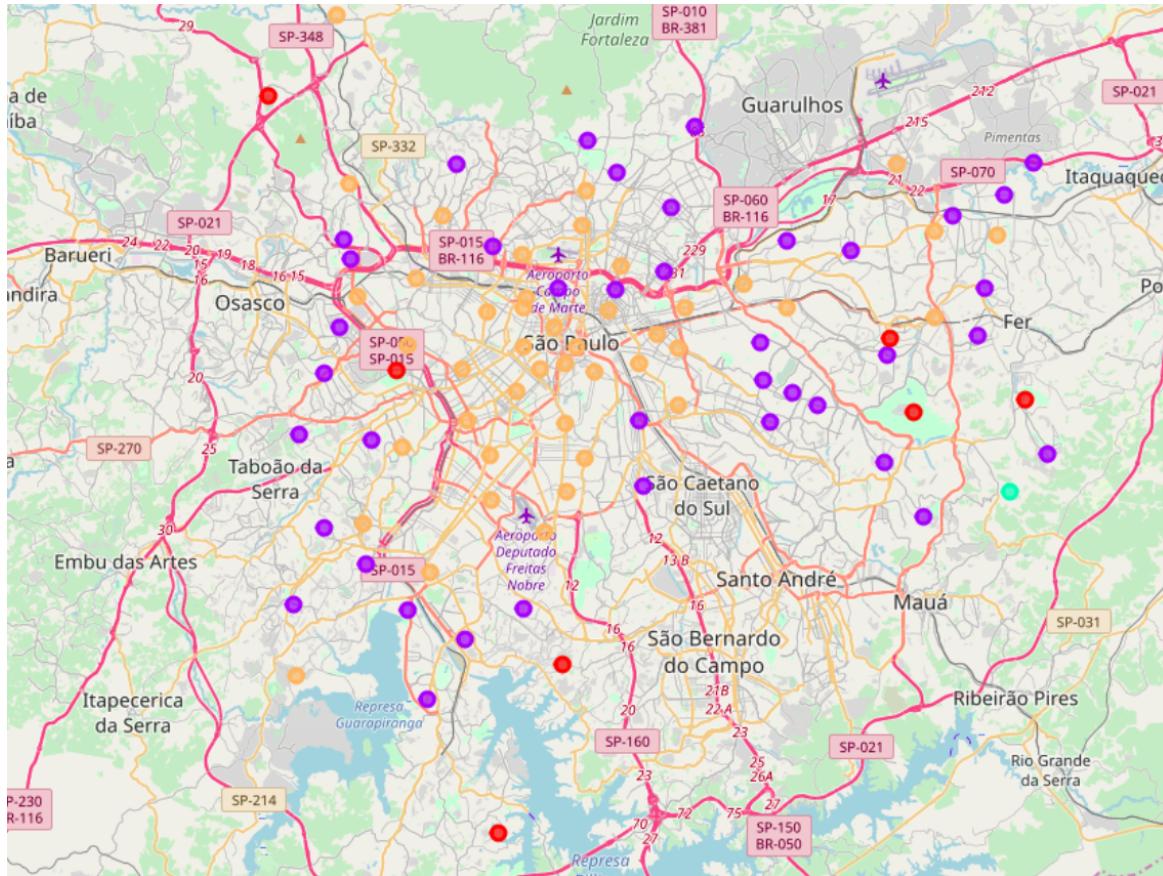
Human Development Index (HDI)

Google Maps

Foursquare

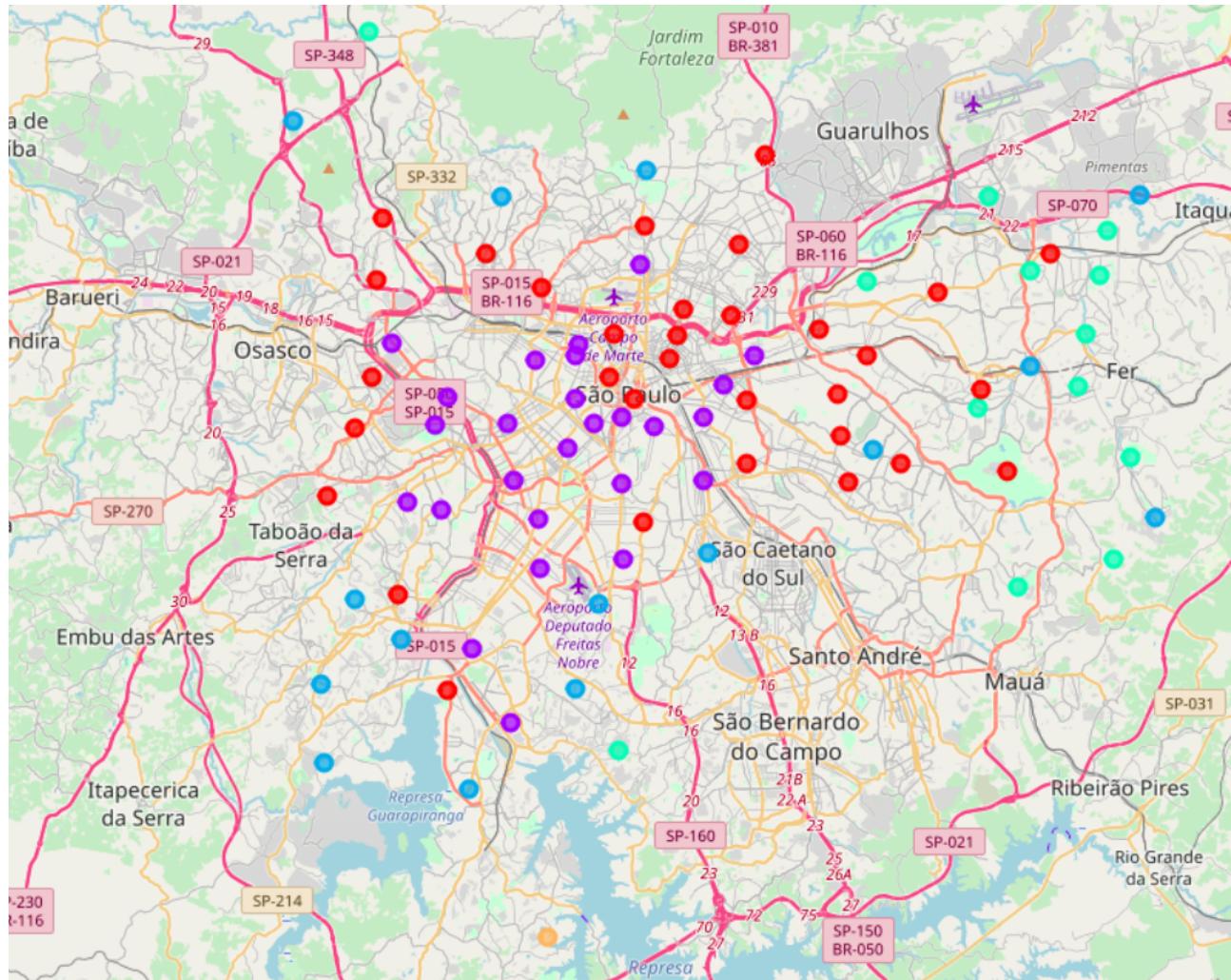
Average salary in SP goes from R\$ 1.2 thousand in Marsilac to R\$ 10 thousand in Campo Belo

CLUSTERING WITH K-MEANS: FOURESCOPE VENUES



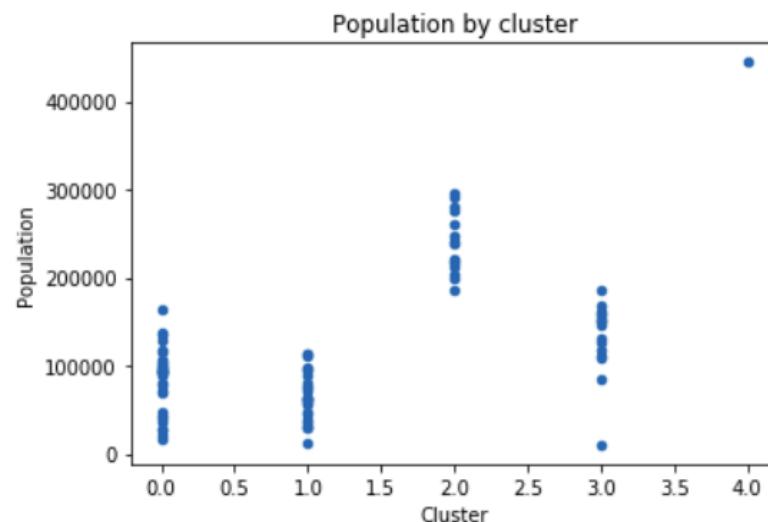
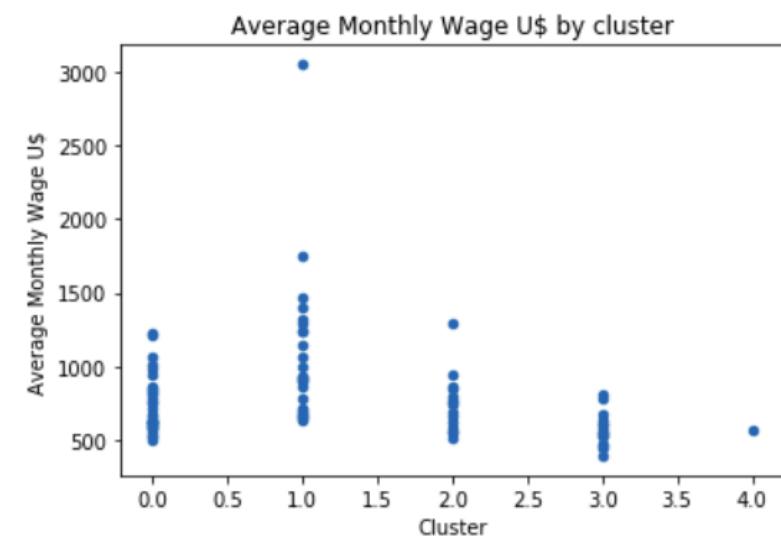
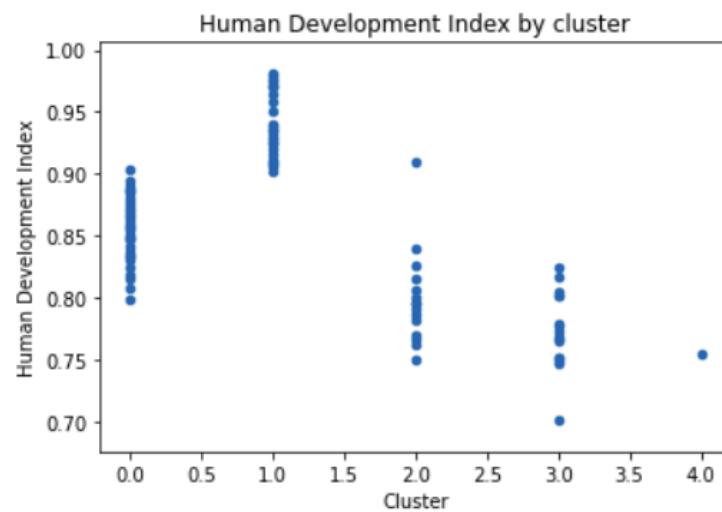
- Central cluster (yellow)
- Peripheral clusters (purple, red, green)

CLUSTERING WITH K-MEANS: POPULATION, HDI, AVERAGE MONTHLY WAGE

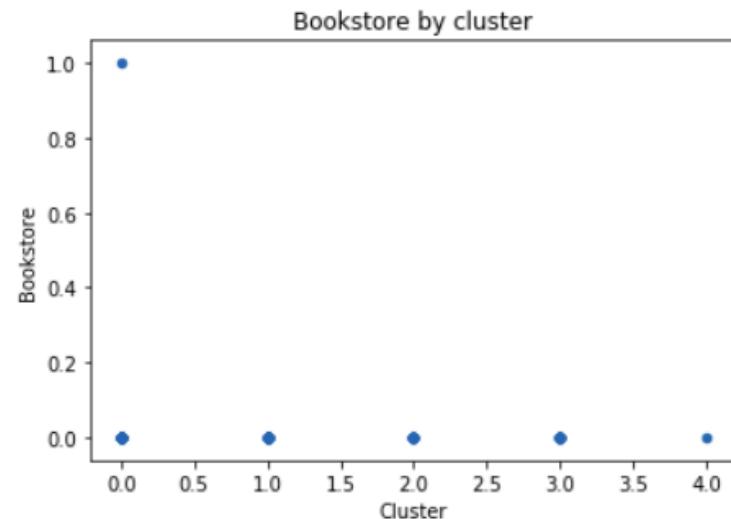
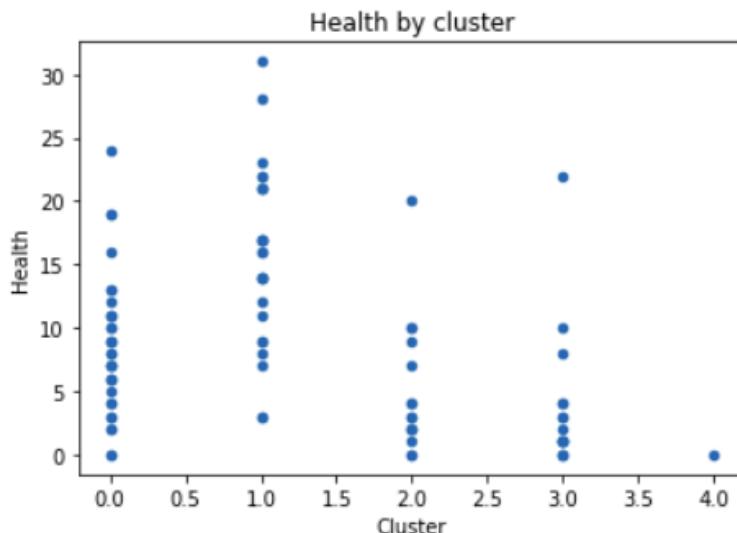
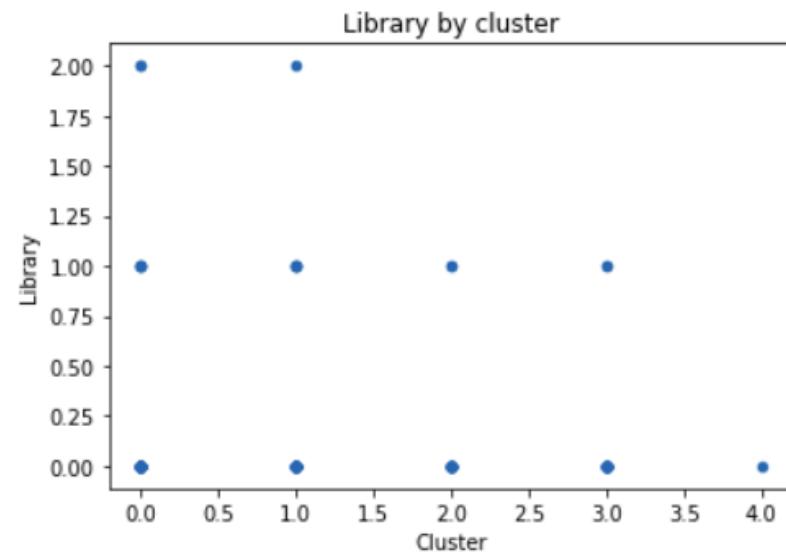
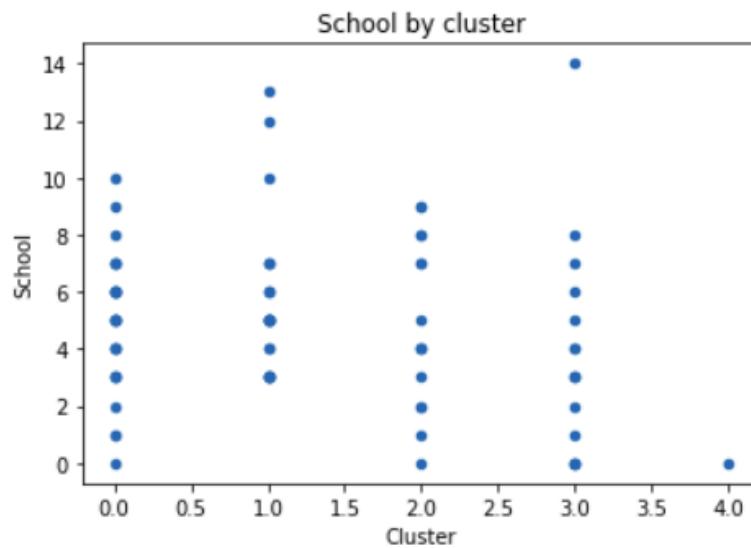


- Red cluster in north
- Purple cluster in center and south
- Blue, yellow and green peripherals clusters

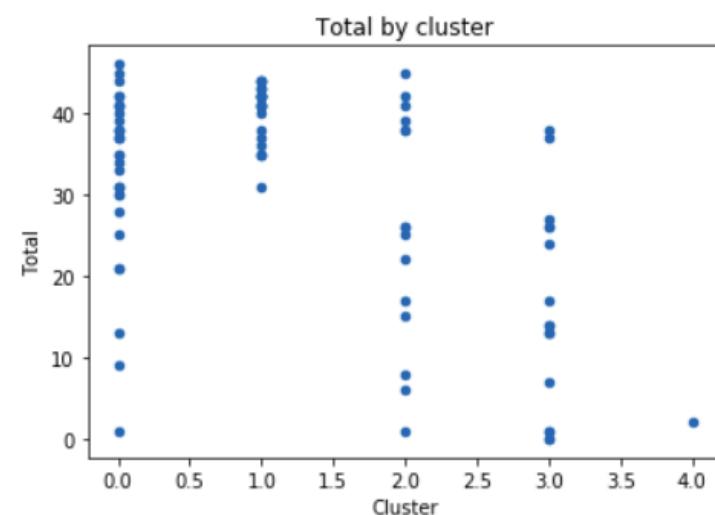
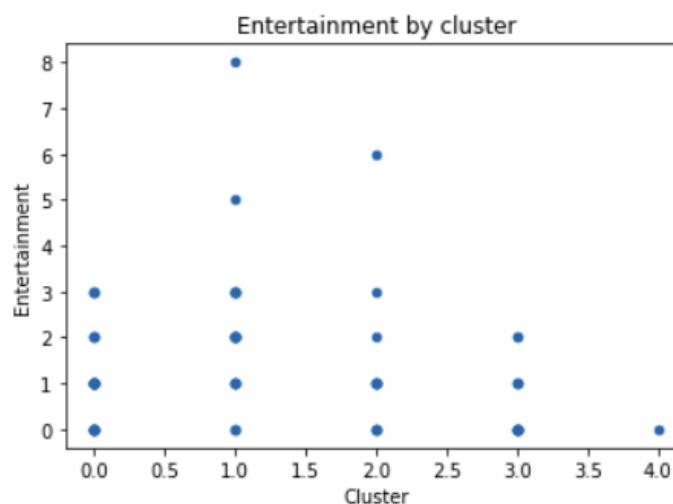
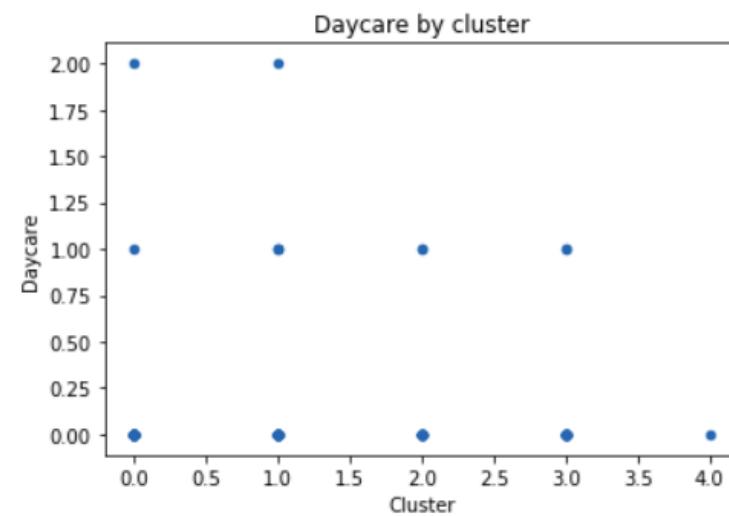
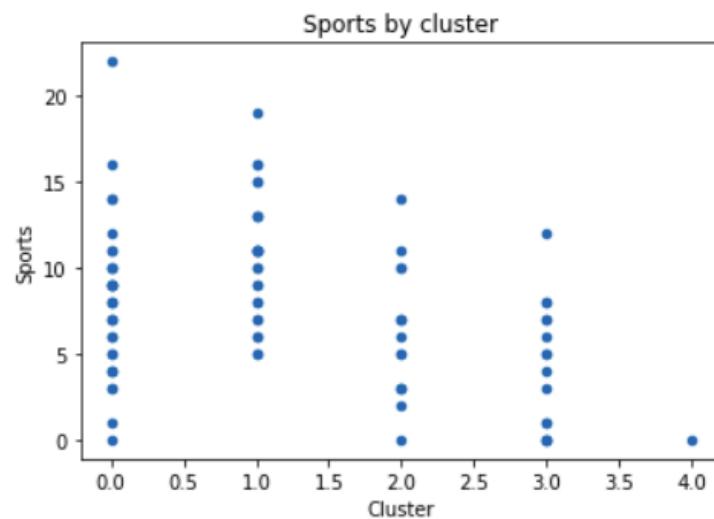
COMPARING CLUSTERS



COMPARING CLUSTERS

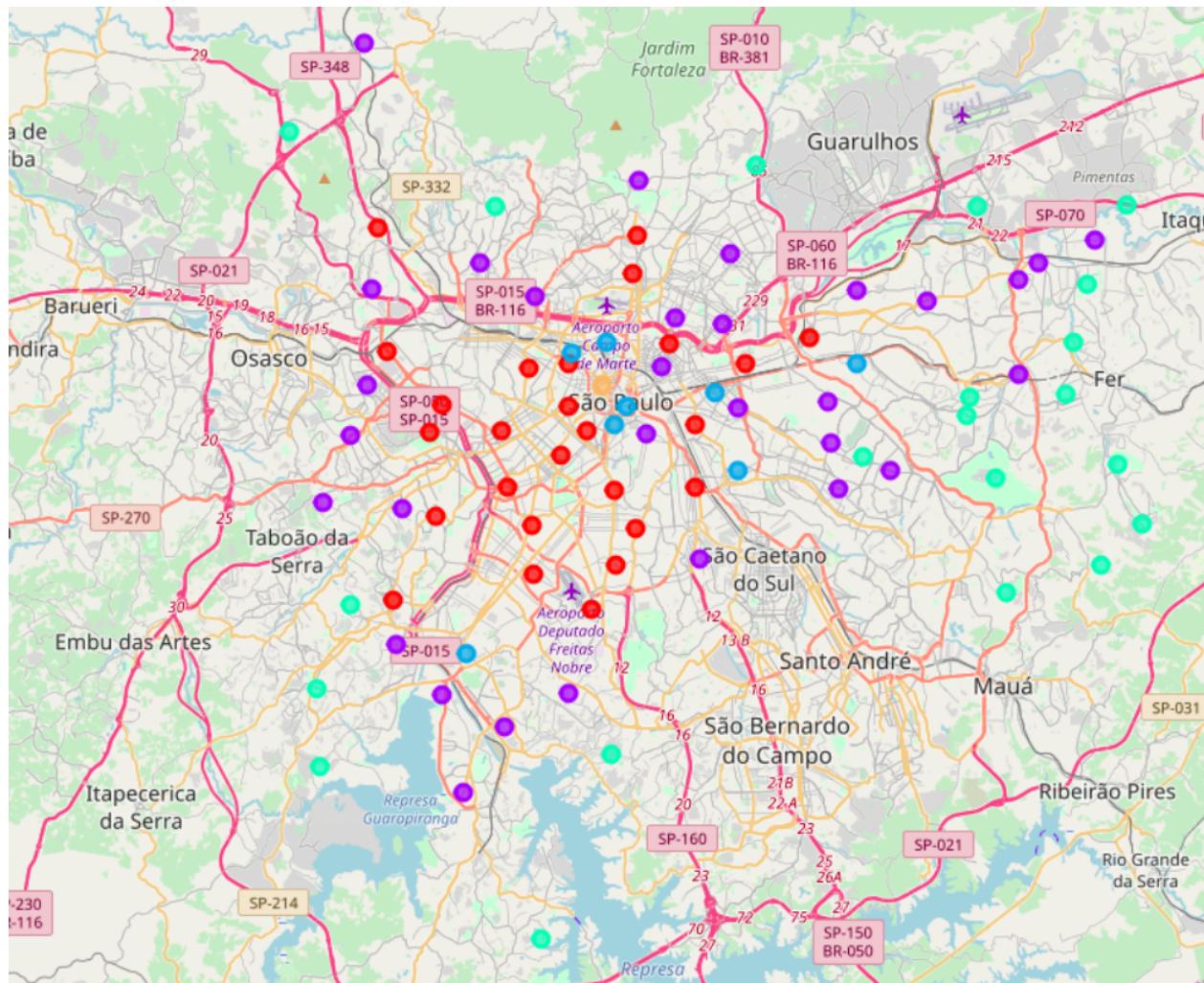


COMPARING CLUSTERS



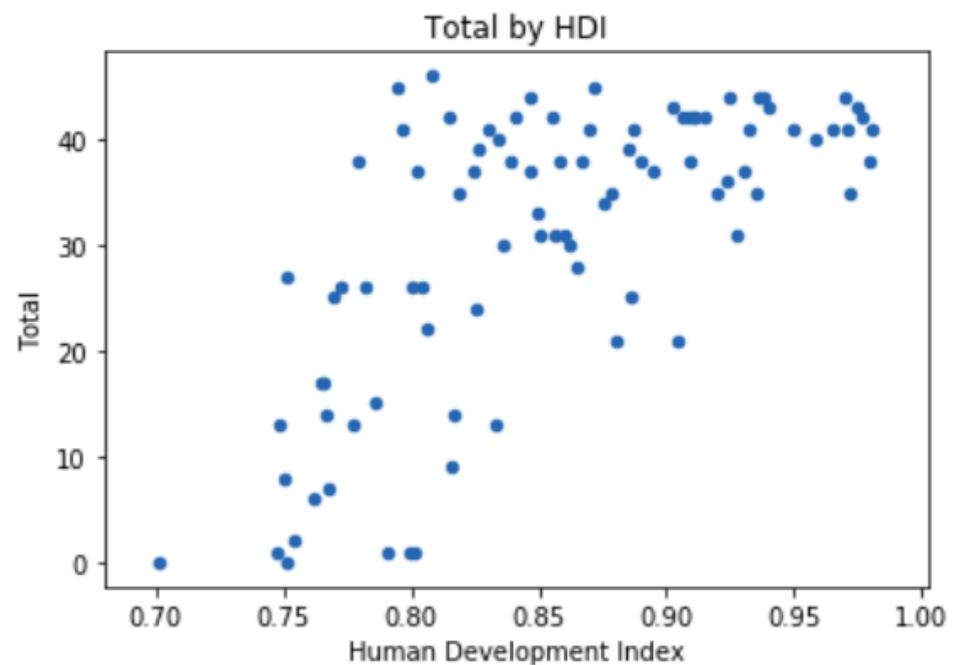
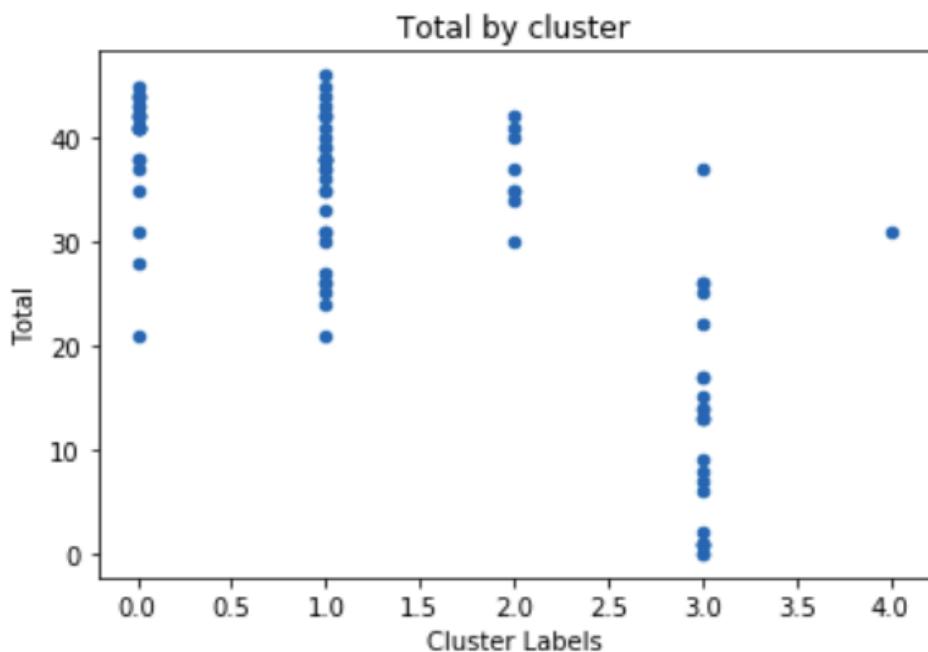
CLUSTERING WITH K-MEANS: KMEANS AGAIN CONSIDERING HDI, WAGES, POPULATION AND VENUES

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array(['Bus', "Dentist's Office", 'School', 'Entertainment', 'Sports',
       'Health', 'Library', 'Daycare', 'Metro Station', 'Train Station',
       'Bookstore'], dtype=object)
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CLUSTERING WITH K-MEANS: KMEANS AGAIN CONSIDERING HDI, WAGES, POPULATION AND VENUES

- Total venues x Cluster
- Total venues x Human development index



CLUSTER 3

DISCUSSION AND CONCLUSION

- cluster 3 covers districts with a low number of selected venues (related to transport, health, education);
- human development index accompanies the total of the selected venues;
- To improve human development index, people needs nice health, transport, education, entertainment;
- Some districts of São Paulo need improvement in these areas, mainly some districts in the extreme South and many districts of East;
- The whole city needs more libraries, bookstores and daycares.