Real Estate Investment: Commercial Buildings, Cologne, Germany

for REI Commercial

by BJS Analytics

10.10.2019 / mail@bjs-analytics.com



- Invest in commercials buildings in Cologne, Germany
- Maximize profit by investing in a growing up-coming neighbourhood
- Define building type in agreement with needs and trends (e.g. medical centre, clothing shop, restaurant)



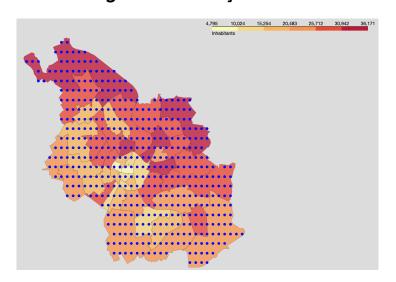
 Geographical data divided by postal code areas (opendatasoft.com)

 Population number for each postal code area (suche-postleitzahl.org)

Venues characteristics from Foursquare (Foursquare.com)

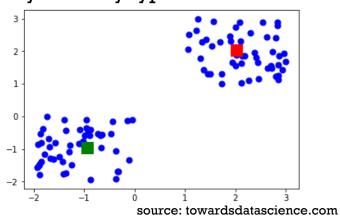
Methods

Foursquare queriesEqually spaced queries throughout the city



k-Means clustering

Clustering of city areas by type of venues

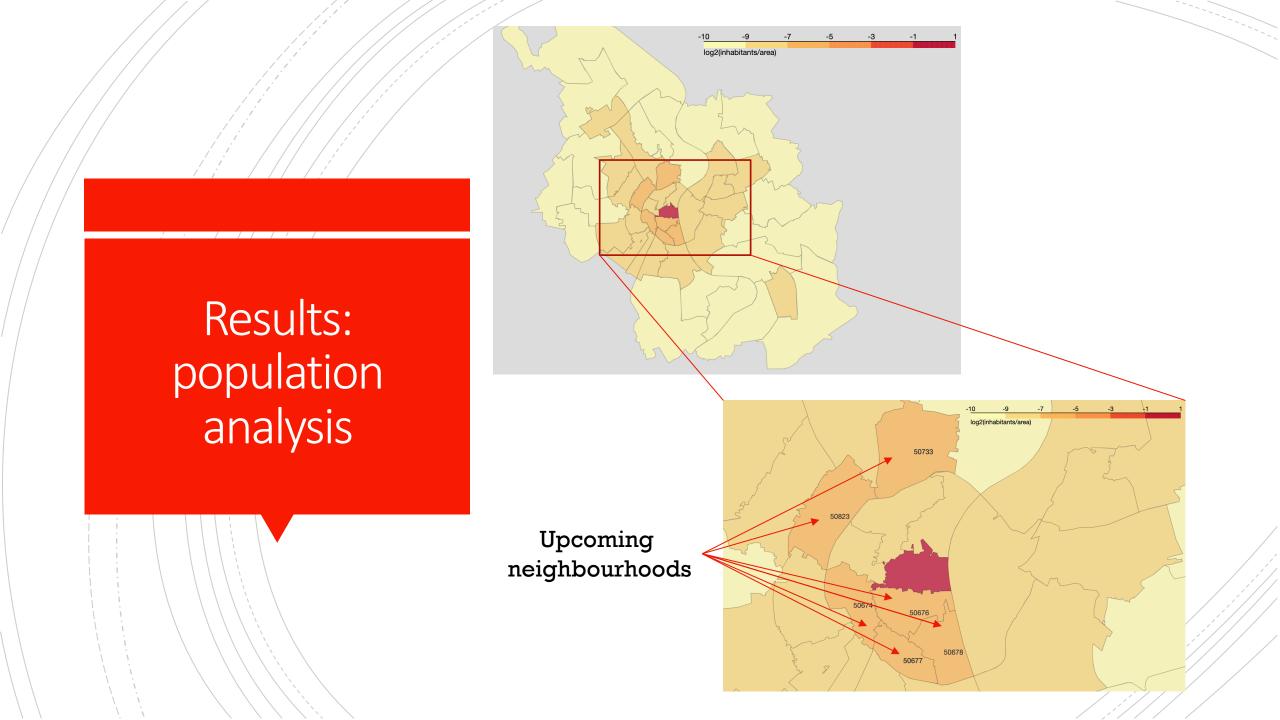




Assumptions

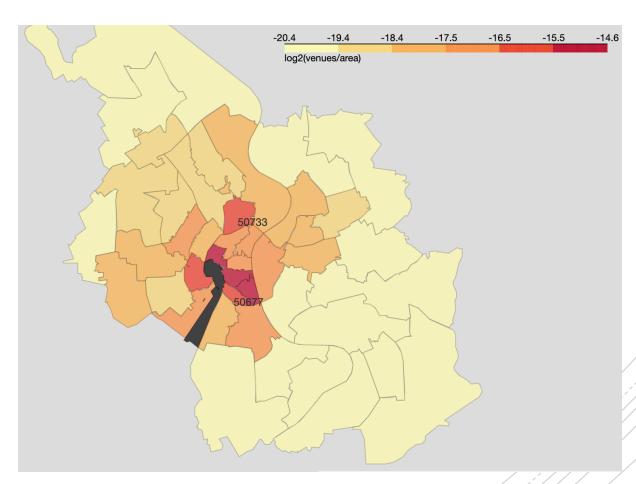
house pricing and socio-economics correlate with population and venues density

neighbourhoods with a low population density are not attractive for investment in commercial buildings



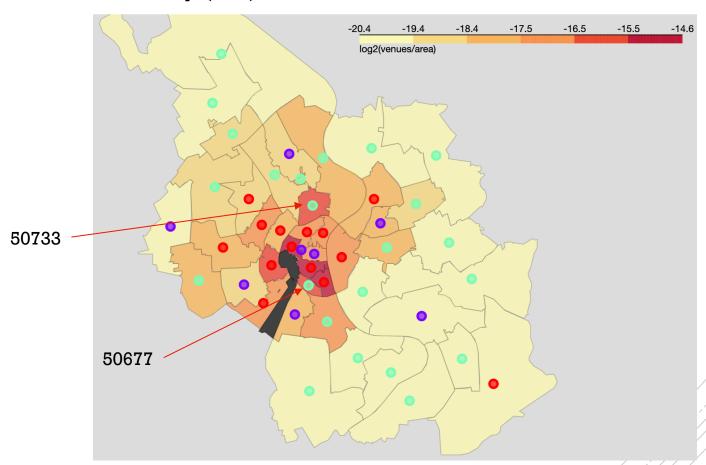
Results: venues analysis

- 50733 and 50677 emerge as upcoming neighbourhoods from population and venues analysis
- 50733 venues are geographically isolated from areas with high density of venues



Results: cluster analysis

 50733 and 50677 show distinct venues from other trendy areas in the city (red)



overrepresented

Nippes (50733) lacks hotels and has an overrepresentation of supermarkets

Restaurants are trending in Cologne

Results: 50733 vs trendy neighbourhoods

	needed venues
Hotel	0.072
Bar	0.028
Italian Restaurant	0.026
Nightclub	0.022
Restaurant	0.022
German	
Restaurant	0.016
Pizza Place	0.016
Pub	0.013
Burger Joint	0.013
Spanish	
Restaurant	0.012
Snack Place	0.012
Trattoria/Osteria	0.012
Asian Restaurant	0.012
Austrian	
Restaurant	0.011
French Restaurant	0.010
Tapas Restaurant	0.009
Automotive Shop	0.009
Theater	0.009
Fast Food	
Restaurant	0.009
Water Park	0.008

ğ
nee
۵
se
rea
nc

	existing
	venues
Supermarket	-0.105
Bakery	-0.057
Drugstore	-0.046
Doner Restaurant	-0.039
Martial Arts Dojo	-0.024
Thai Restaurant	-0.024
Kebab Restaurant	-0.024
Department Store	-0.024
Bank	-0.024
Farmers Market	-0.024
Cantonese	
Restaurant	-0.024
Plaza	-0.023
Organic Grocery	-0.022
Music Venue	-0.022
Bookstore	-0.022
Flea Market	-0.022
Modern European	
Restaurant	-0.021
Cocktail Bar	-0.019
Café	-0.019
Breakfast Spot	-0.018



- Invest in **Nippes** (50733)
- Large investment in acquiring space for an <u>hotel</u>
- Smaller investments by acquiring space for <u>restaurants</u>
- Both recommendations are not susceptible to developments in online shopping

 More data on socio-economics as well as land and building costs will lower investment risk
e.g. hotels in low income neighbourhoods tend to have a small profit