

Do countries with a declining birth rate also  
have a trend to urbanization?

Maximilian Eineder

# Dataset

The World Development Indicators Dataset was used.

# Motivation

I wanted to examine whether countries with a declining birth rate tend to have a trend to urbanization, meaning that the lower the birth rate in a country, the higher the degree of urban population. This might be interesting because if a country's birth rate is declining, this could be a sign that migration into cities might take place in the future. With that knowledge, city planners could react appropriately.

# Research Question

I wanted to examine whether countries with a declining birth rate tend to have a trend to urbanization.

# Findings I

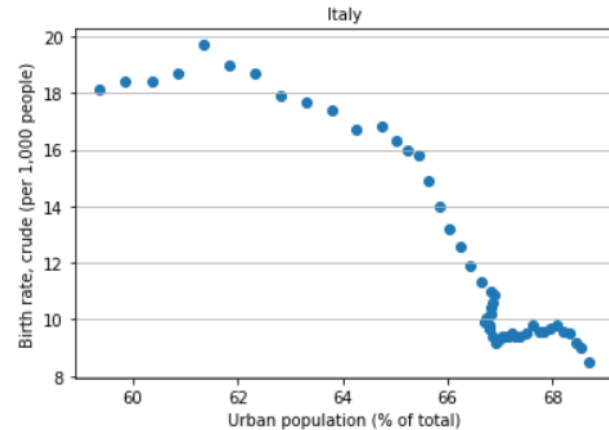
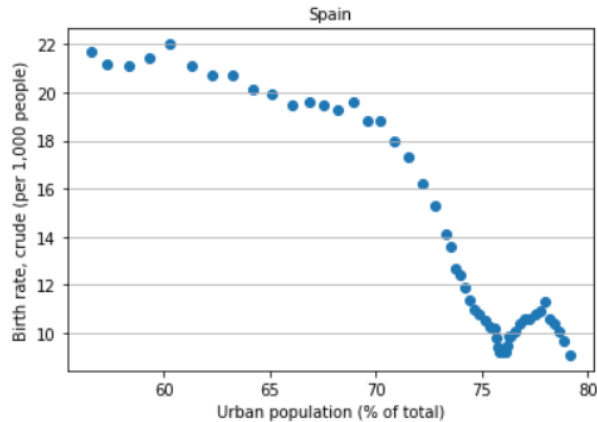
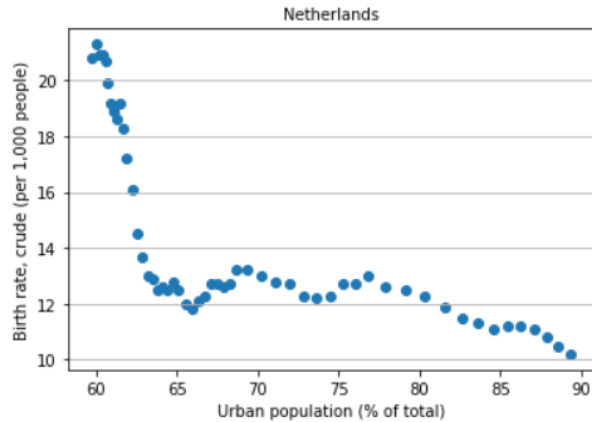
In general, the data supports the hypothesis that countries with a declining birth rate tend to have a trend to urbanization.

The correlation of the two indicators over all countries and years is considerably negative:

IndicatorName		Birth rate, crude (per 1,000 people)	Urban population (% of total)
IndicatorName			
Birth rate, crude (per 1,000 people)		1.000000	-0.682624
Urban population (% of total)		-0.682624	1.000000

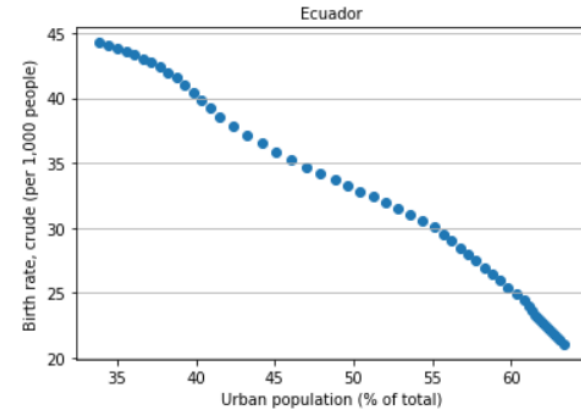
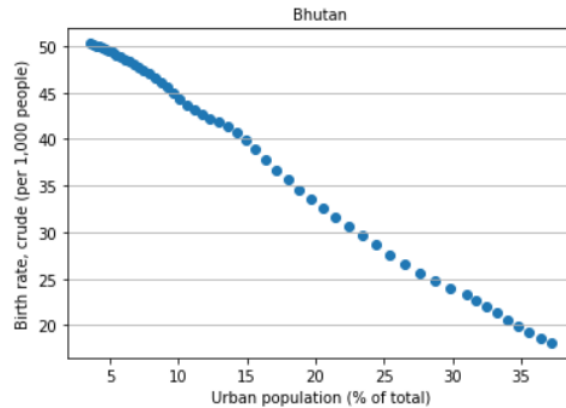
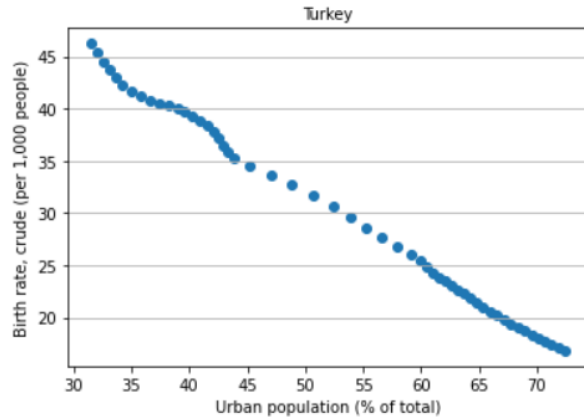
# Findings II

As typical examples, in European countries this negative correlation is clearly visible:



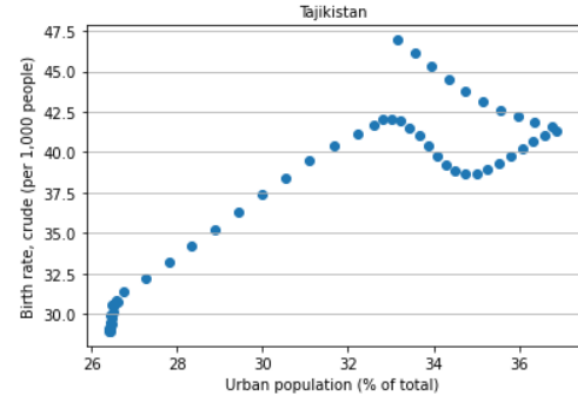
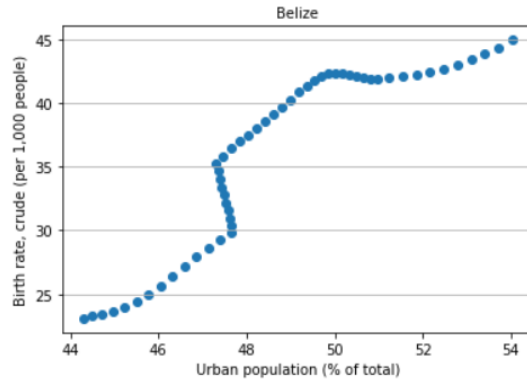
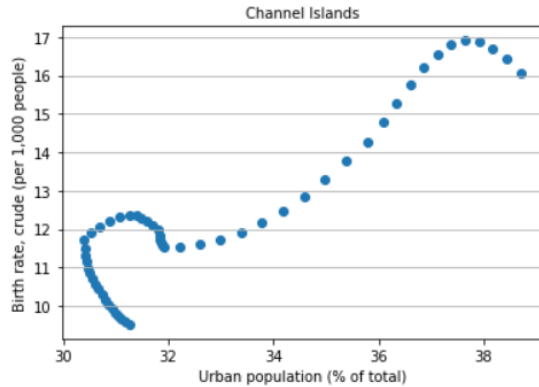
# Findings III

These are the countries for which this correlation is lowest:



# Findings IV

But there are also countries for which this correlation is positive:





# Findings V

Conclusion: In general, these findings support the hypothesis that countries with a declining birth rate tend to have a trend to urbanization.

# Acknowledgements

I would like to thank my girlfriend Marianne for the feedback on my work.