

Data Storytelling ~ **The Global Waste Problem**



What A Waste Global Database



What A Waste Global Database is a project done by World Bank to document solid waste management across countries in the world. The original data source could be found at this [link](#)

Some High Level Facts

Globally,

1845 mil tons

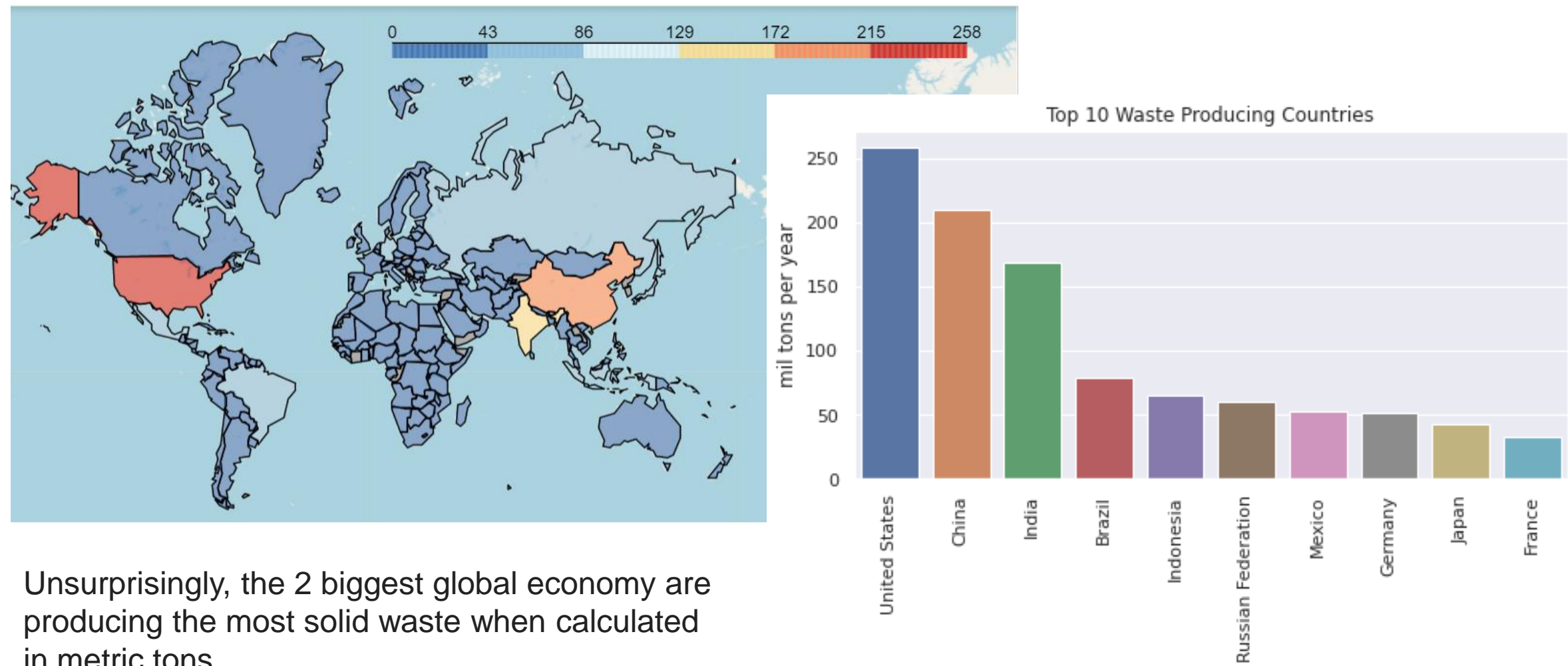
of waste were produced per annum

On Average,

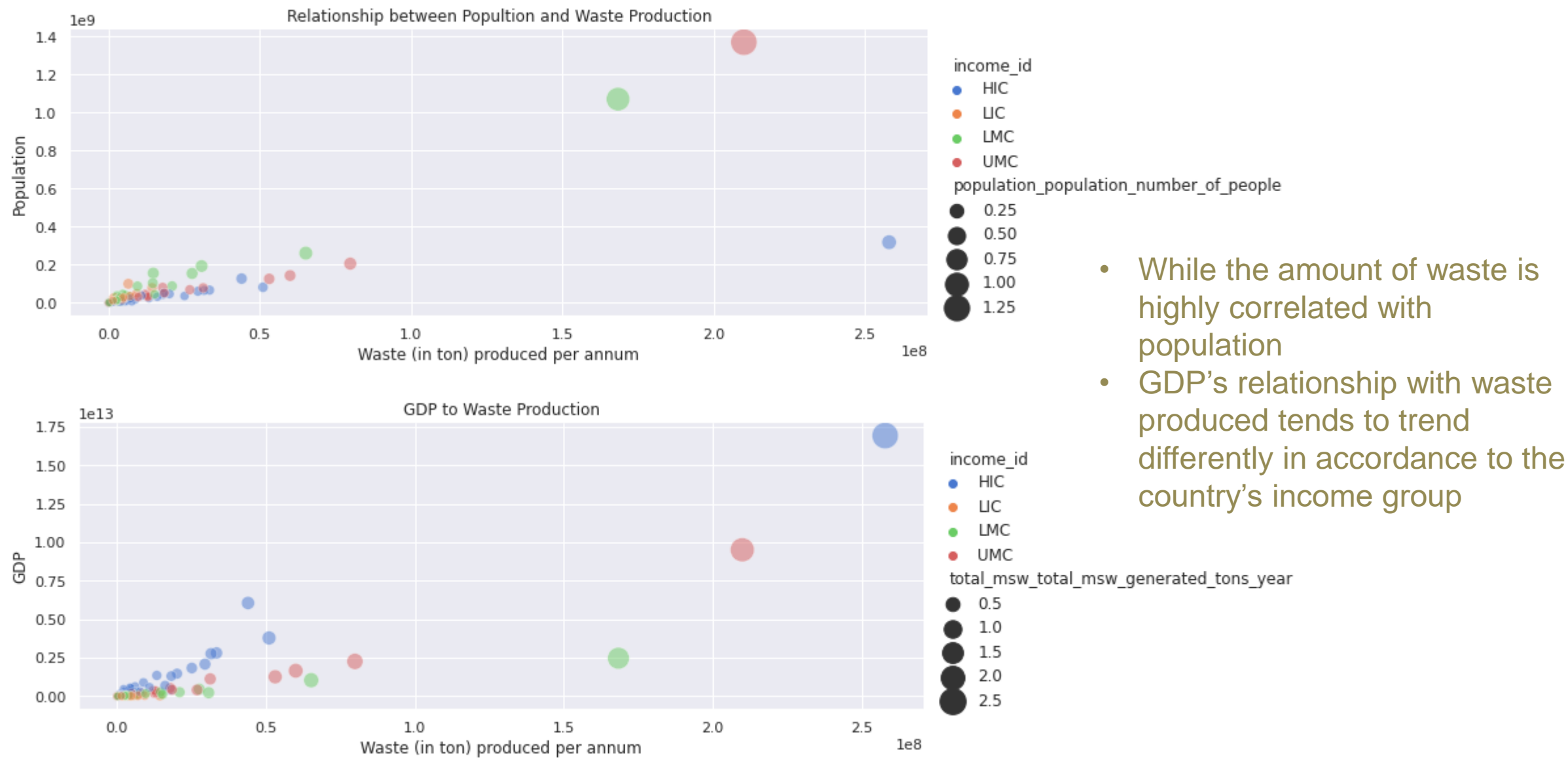
0.38 tons

of waste were produced per person per annum

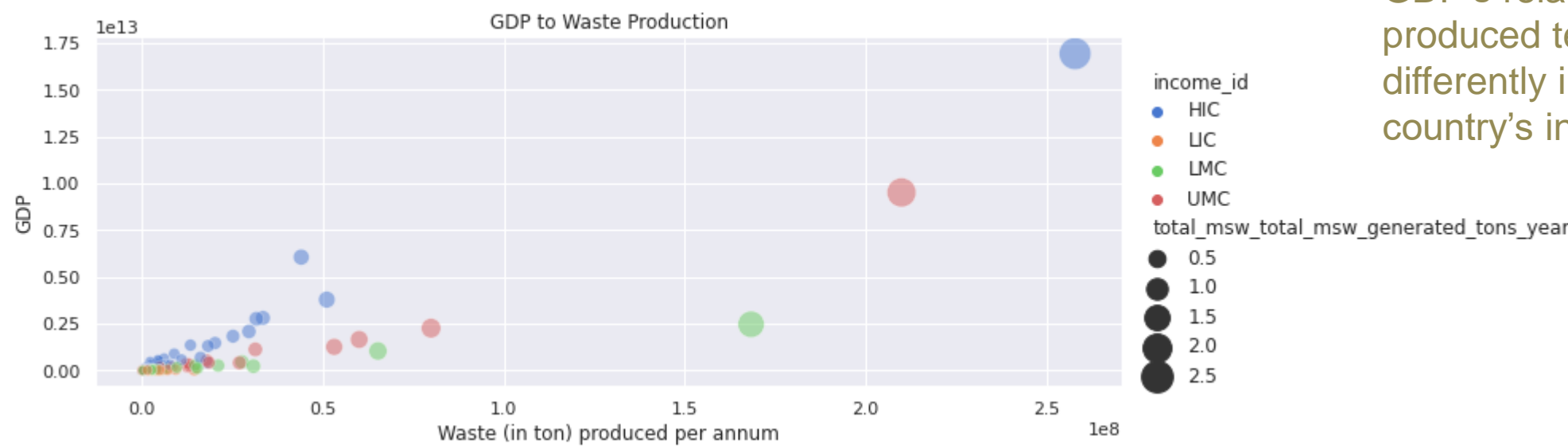
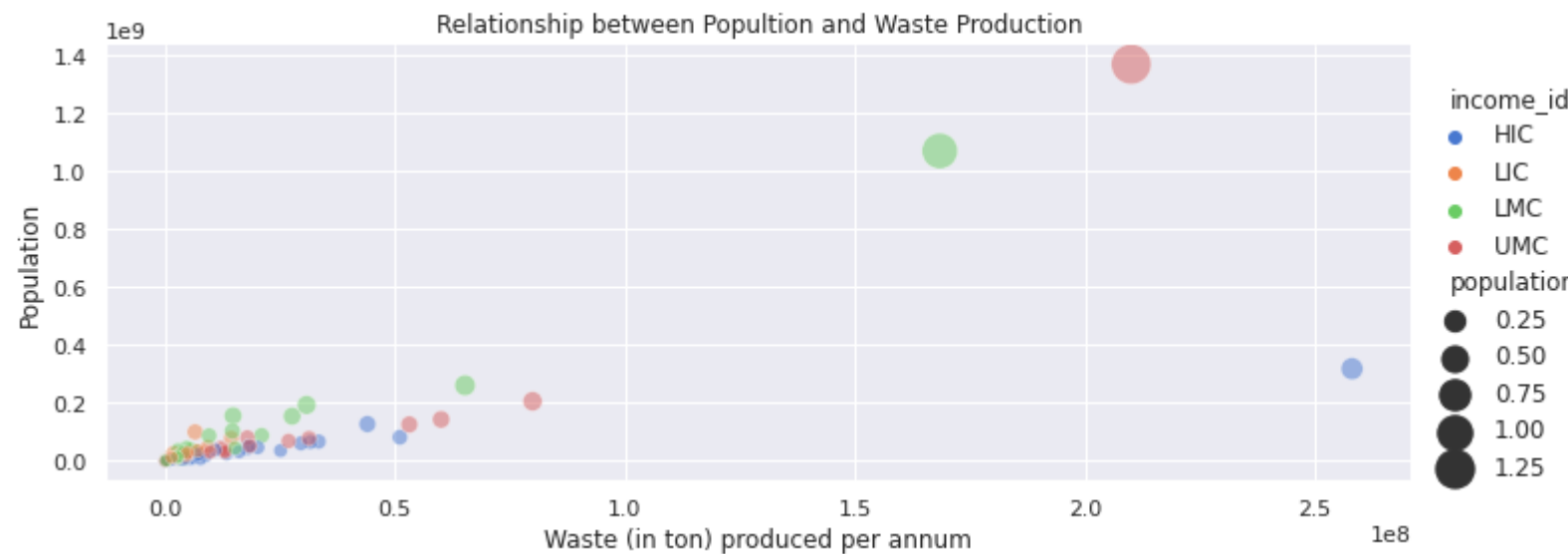
Which Countries Produce the Most Solid Waste



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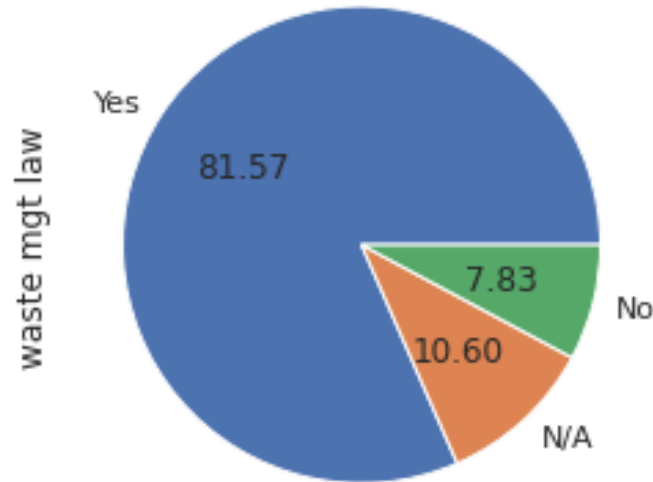
What Drives the Production of Solid Waste



- While the amount of waste is highly correlated with population
- GDP's relationship with waste produced tends to trend differently in accordance to the country's income group

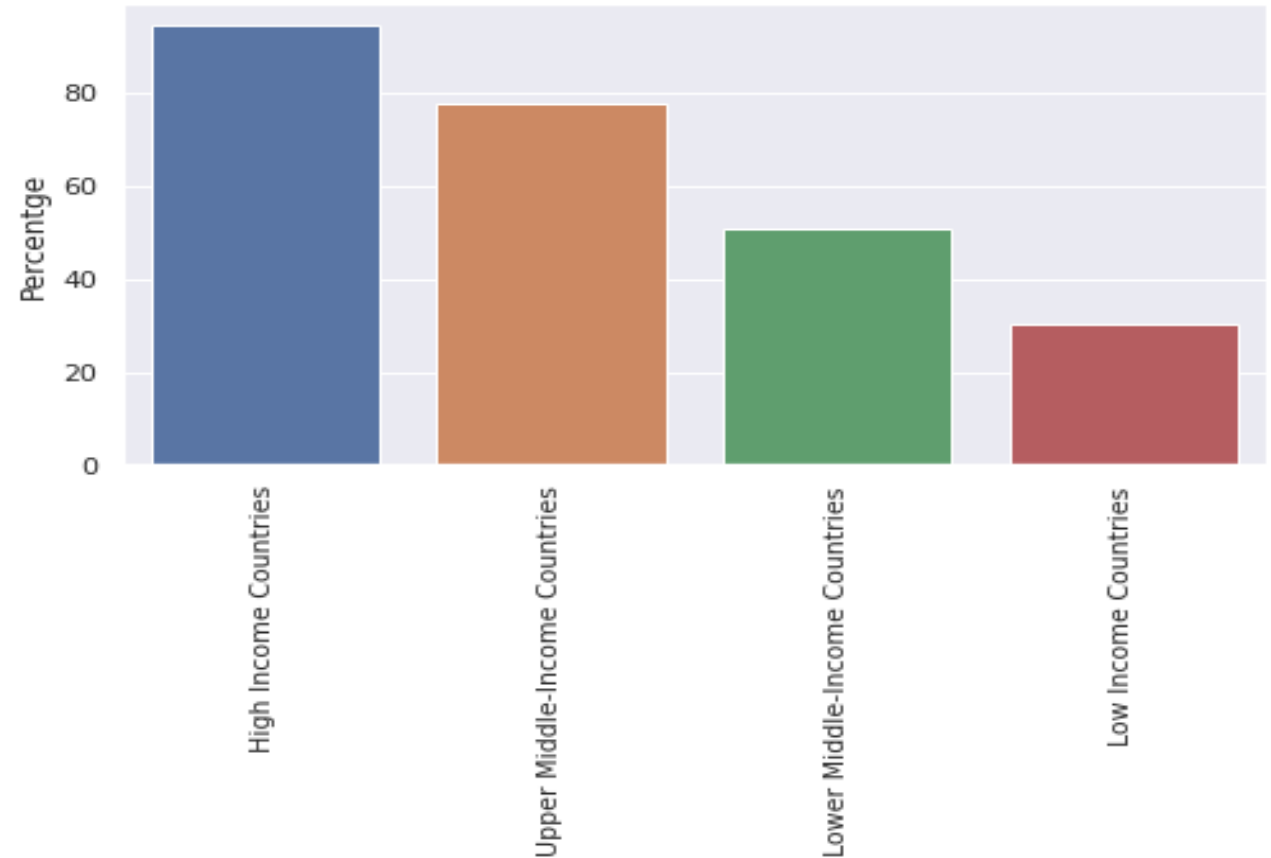
Waste Management

Percentage of Countries which has Waste Mgt Laws



- Majority of countries do have some form of waste management laws in place
- However, information was not available on the scope of such laws

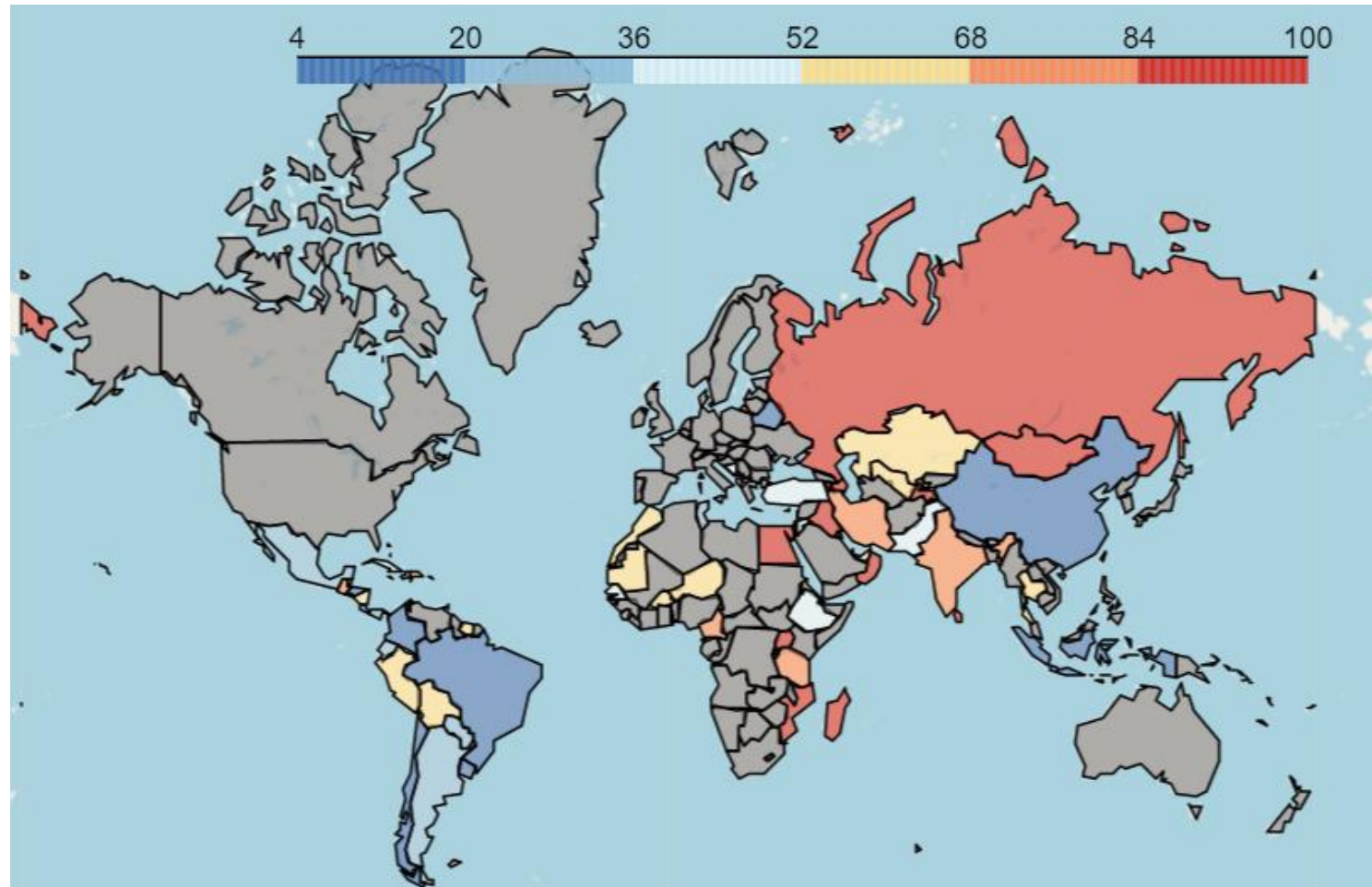
Waste Collection Coverage (by country income group)



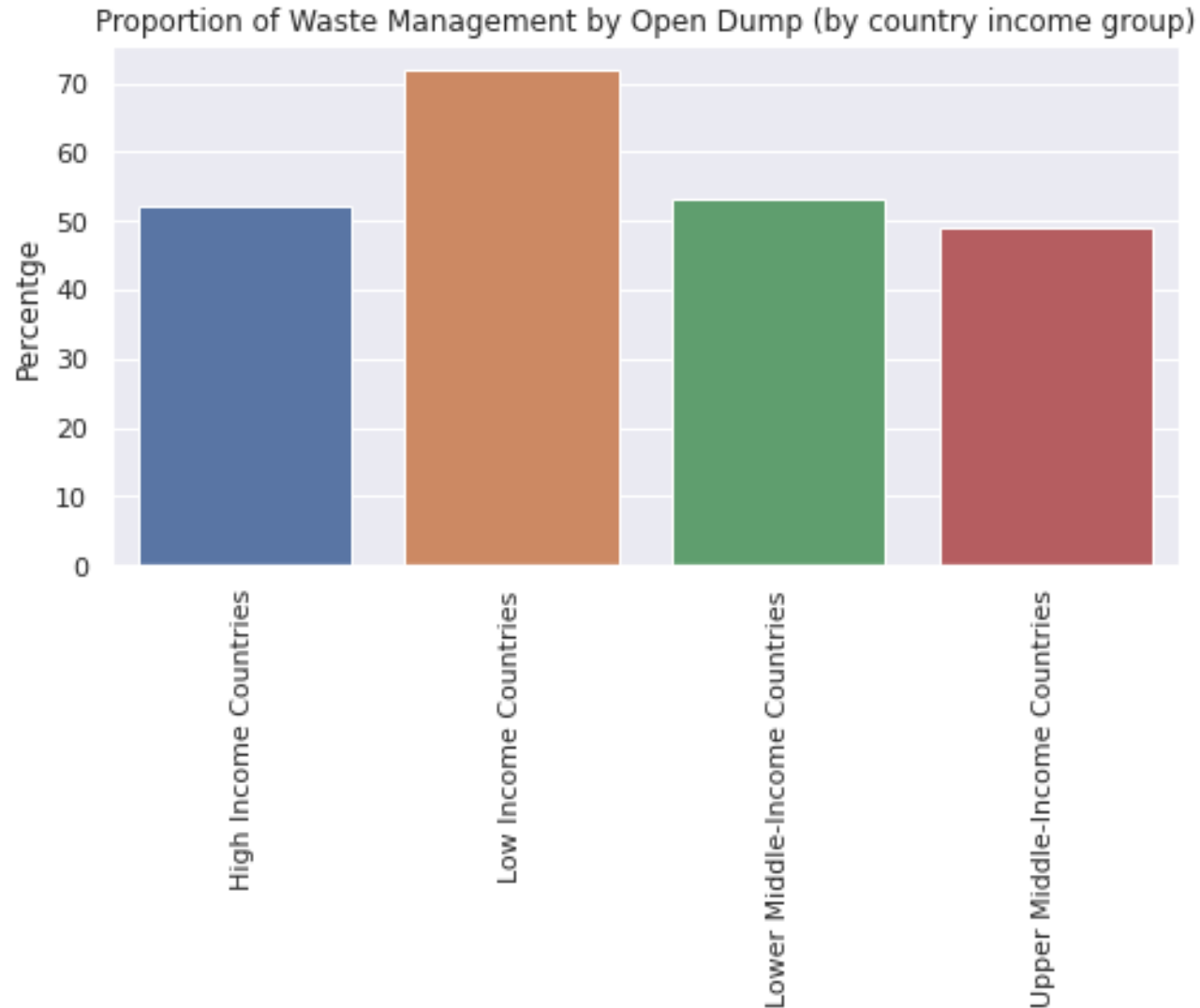
- Availability of waste collection for the public is clearly in relation to the country's GDP

Waste Management – Open Dumping

Among all waste management practices, open dump is being considered the most harmful to the environment. Unfortunately, there are still a good amount of countries with high percentage of waste managed by open dump



Waste Management – Open Dumping



- Re-organizing the data by country's income group, it is unsurprising low income countries holds the highest percentage in terms of adopting open dump waste disposal methods
- There aren't significant difference among other income groups and harmful waste management practice still accounts for close to half of waste management methods

How Well Are We Doing on Recycling?

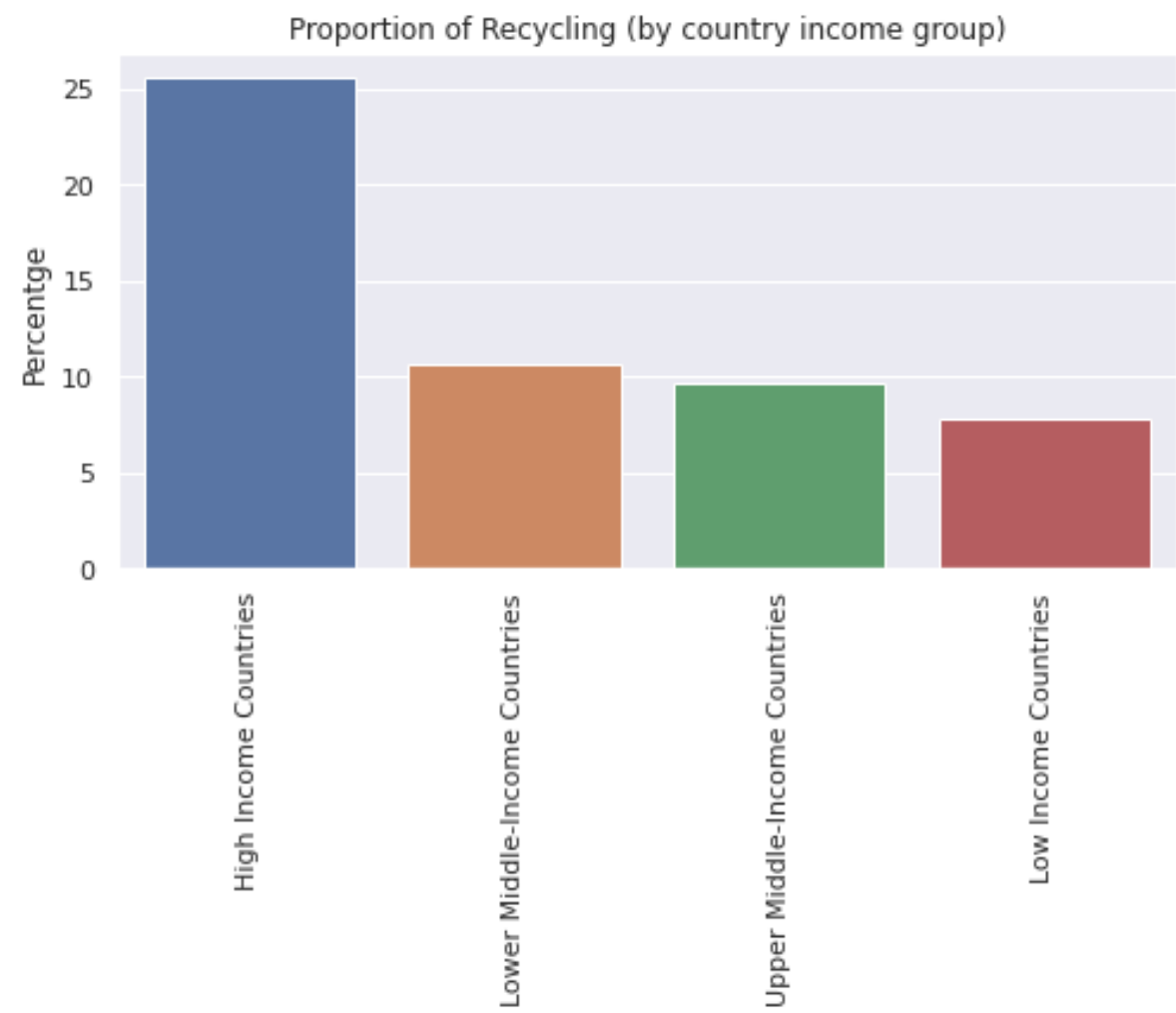
Countries where data is available, only

17.37 %
of waste is being recycled

- Where data is available, the current recycling rates are not high across countries
- The best country managed to recycle 67% of their waste
- Examining the top 10 countries with highest recycling rates, majority of them are in Europe, then followed by 2 Asian countries

country_name	waste_treatment_recycling_percent
Faeroe Islands	67.00
Liechtenstein	64.60
Singapore	61.00
Korea, Rep.	58.00
Iceland	55.81
Isle of Man	50.00
Germany	47.83
Slovenia	46.44
San Marino	45.05
Australia	42.10

How Well Are We Doing on Recycling?



- High income countries are leading the efforts in recycling, with other country income group holding low recycling efforts
- Having said that, correlation between GDP and recycling is only weakly correlated

