```
indv project = ["Waste Management Analysis"]
print('\nIndividual Project:',indv project)
          PAI_789 = {
"student": "Sahil Mammadli",
         "professor": "Peter Wilcoxen",
                "school": "Maxwell"
          print(PAI_789["student"])
print(PAI_789["professor"])
           print(PAI 789["school"])
```

#### Project overview

 Identifying, grouping, and visualizing waste generation per capita in the world using QGIS

 Understanding the relationship between municipal solid waste (MSW) per capita and GDP per capita

 Analyzing and visualizing total waste and recycling after the adoption of EPR (Extended Producer Responsibility) in high-income countries.

## Data\_source.info()

### OSCE

#### Out [1]:

- RangeIndex: 24078 entries,
  0 to 24077
- Data columns (total 15 columns):
- int64(3), object(11)
- memory usage: 2.8+ MB

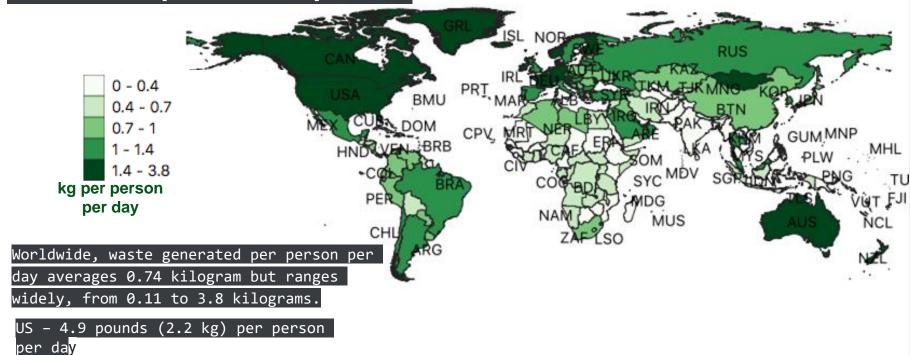
### WorldBank

- out [2]
  - [5 rows x 15 columns]
  - **24078**
  - memory usage: 86.6+ KB

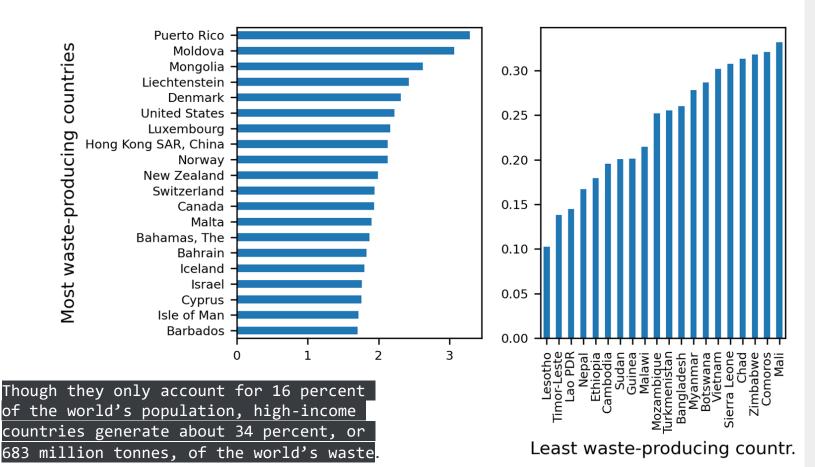
- out [3]:
  - RangeIndex: 266 entries,
  - (total 67 columns):
  - memory usage: 139.4+ KB

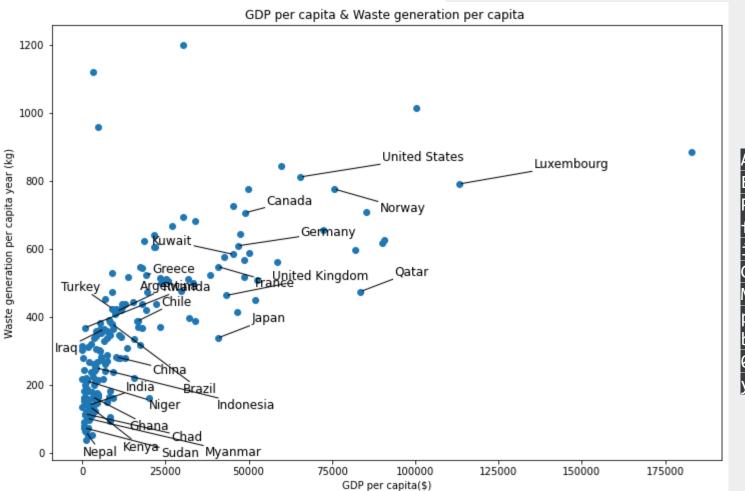
The world generates 2.01 billion tonnes of municipal solid waste annually, with at least 33 percent of that not managed environmentally safe.

### Waste per capita



#### Countries' daily waste generation per capita (kg)

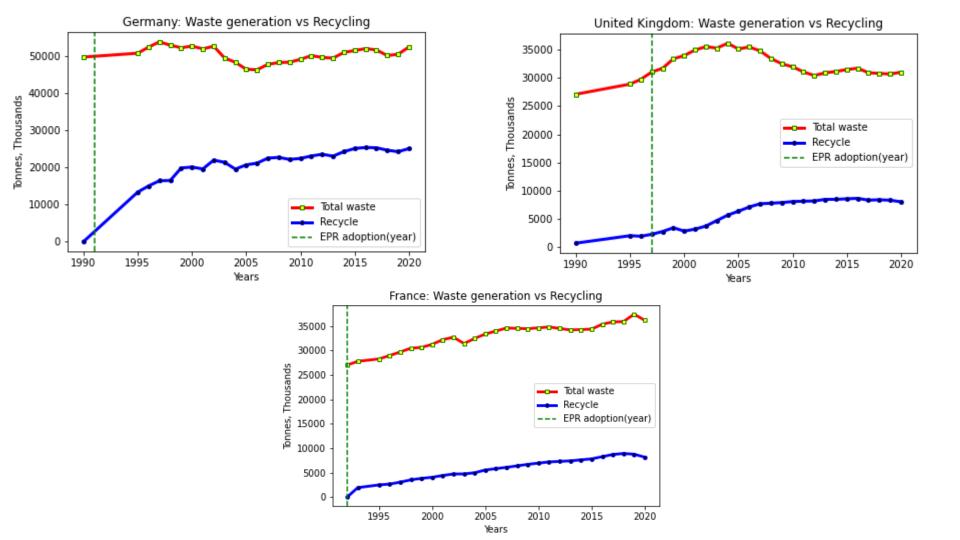


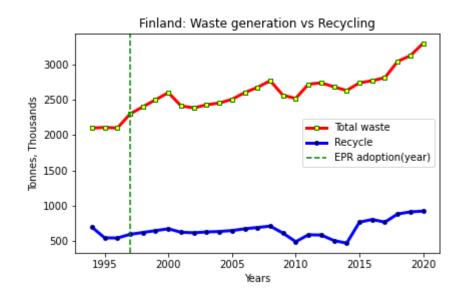


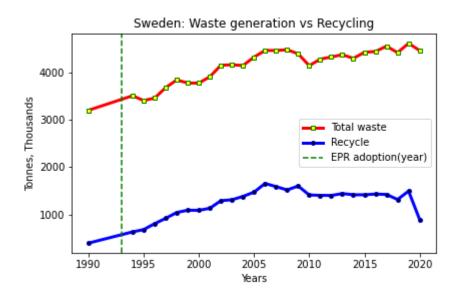
According U.S.
Environmental
Protection Agency,
for every \$5,000
increase in real
GDP, the tons of
MSW generated per
person increases
by approximately
0.065 tons per
year (130 pounds).

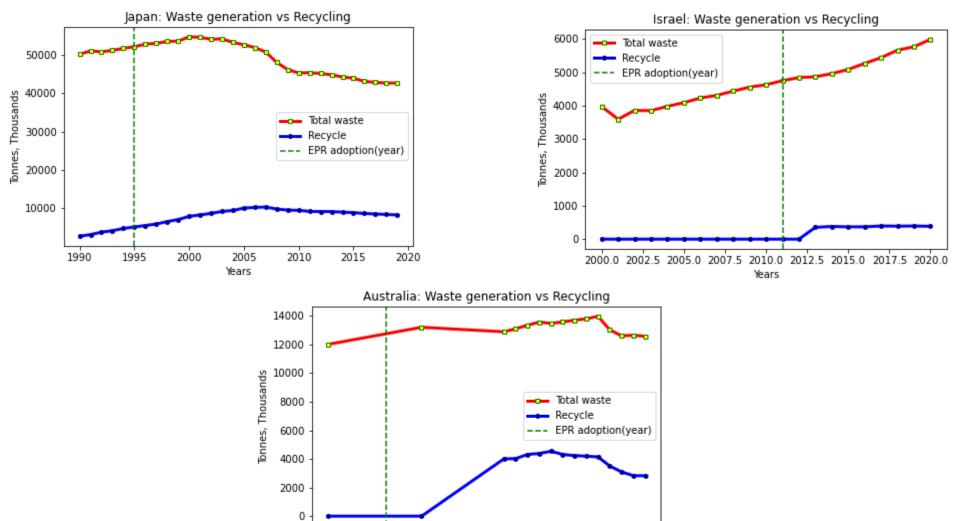
#### Extended Producer Responsibility (EPR)

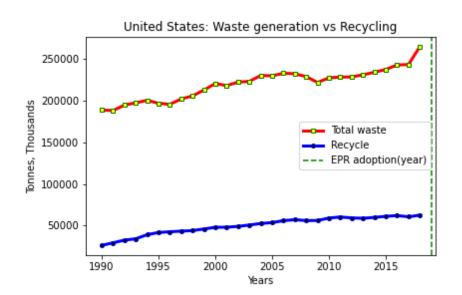
environmental protection strategy that makes the manufacturer of the product responsible for the entire life cycle of the product and especially for the take back, recycling and final disposal of the product (Lindhqvist, 2000; Khetriwal et al., 2009).











EPR legislation is passed on a state-bystate level, which is why the status quo of
EPR legislation varies greatly across the US
(WWF, 2019). EPR legislation for packaging
is currently developed in several states and
passed in very few (e.g., California,
Hawaii, and Oregon). However, there are also
several states without any EPR for
packaging. The terms PS and EPR are often
used interchangeably or synonymously.

# print('\nThank you!')