My Sustainability presentation

Here is where your presentation begins

Agenda

D1
Functions

D2
Findings

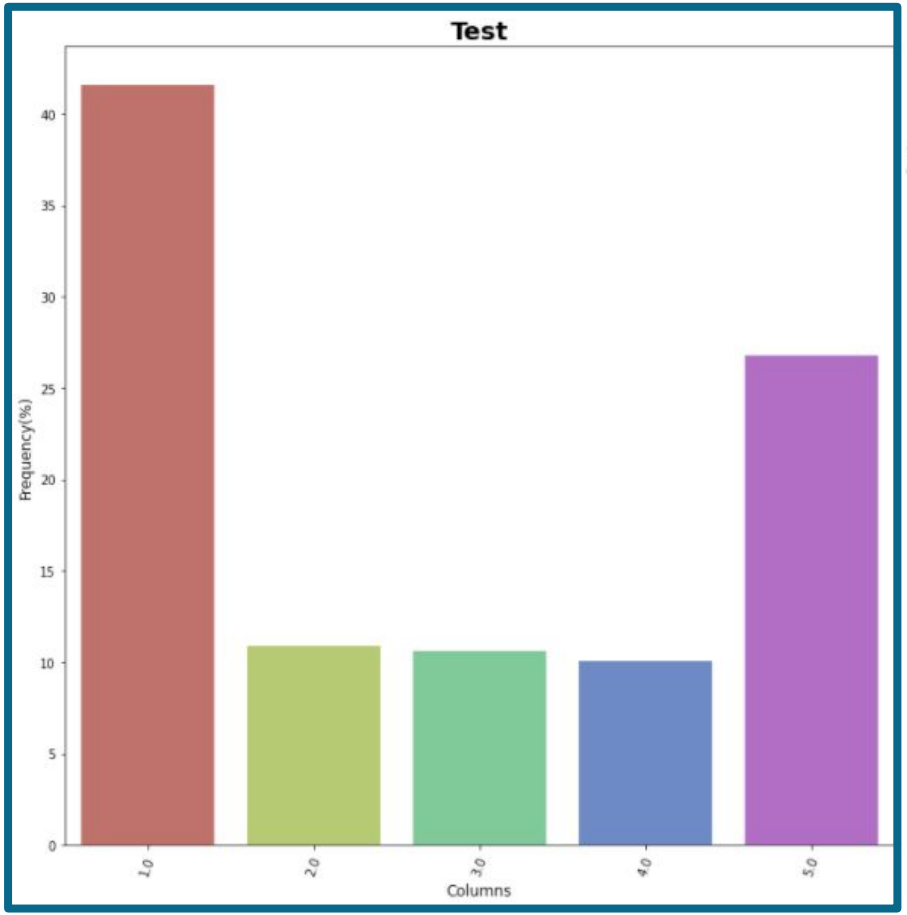
AOB
Suggestions / Thoughts

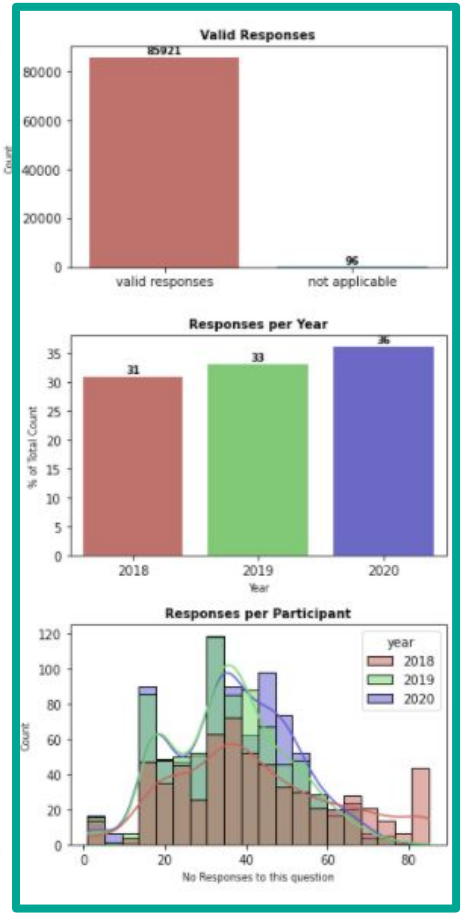
D1: Functions

- numerous seaborn-based plotting functions (see next page)
- helper functions:
  - get_pct_freq:
    calculate value count and % frequency of a series
  - sorter(column):
    allows to use sort_values-function with specific order, e.g. ([high, medium, low]) -> needs to define a variable “order” beforehand
  - print_question(data, questionnumber, columnnumber):
    prints layouted version of question and subquestion tex
  - cut_labels(axis, max_length):
    shortens ticklabels to length of choice

D1: Overview Plotting Function

Main plot, can be customized.

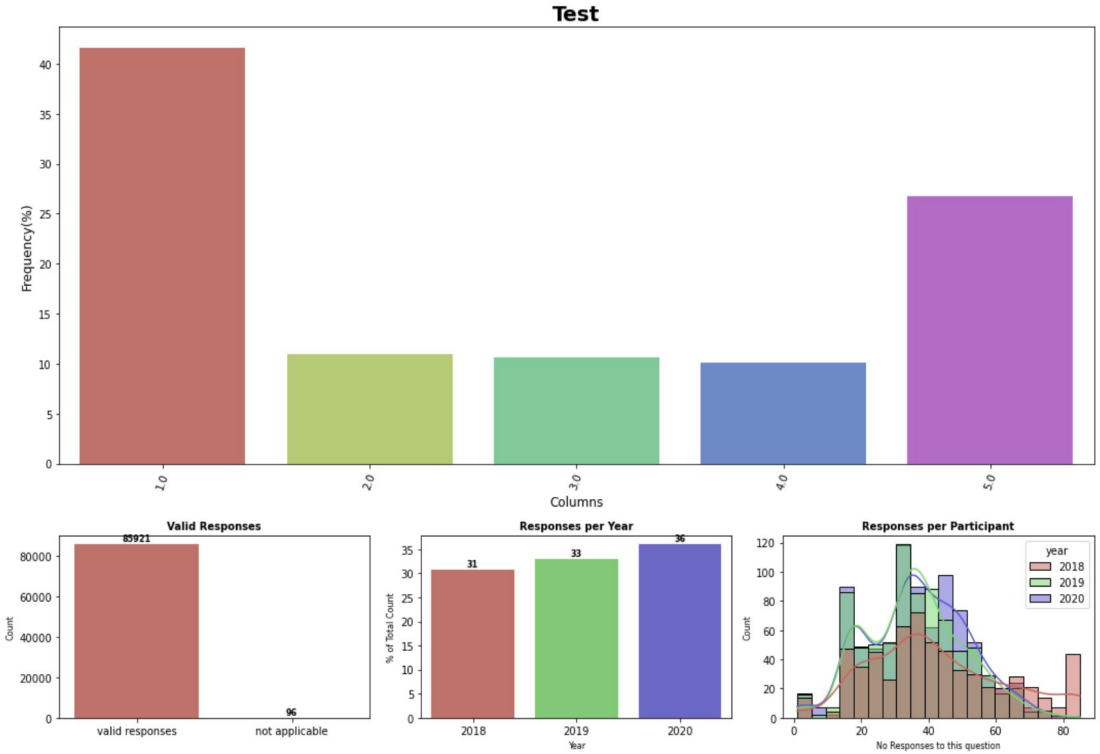




Preconfigured basic statistics:

- Valid / invalid responses
- Responses per Year
- No. responses per Participant

D1: Overview Plotting Function



Features:

- orientation vertical / horizontal
- every single plot can be easily modified / exchanged in any way
- all set-up attributes are defined in an rcParams-dictionary

D2: Example

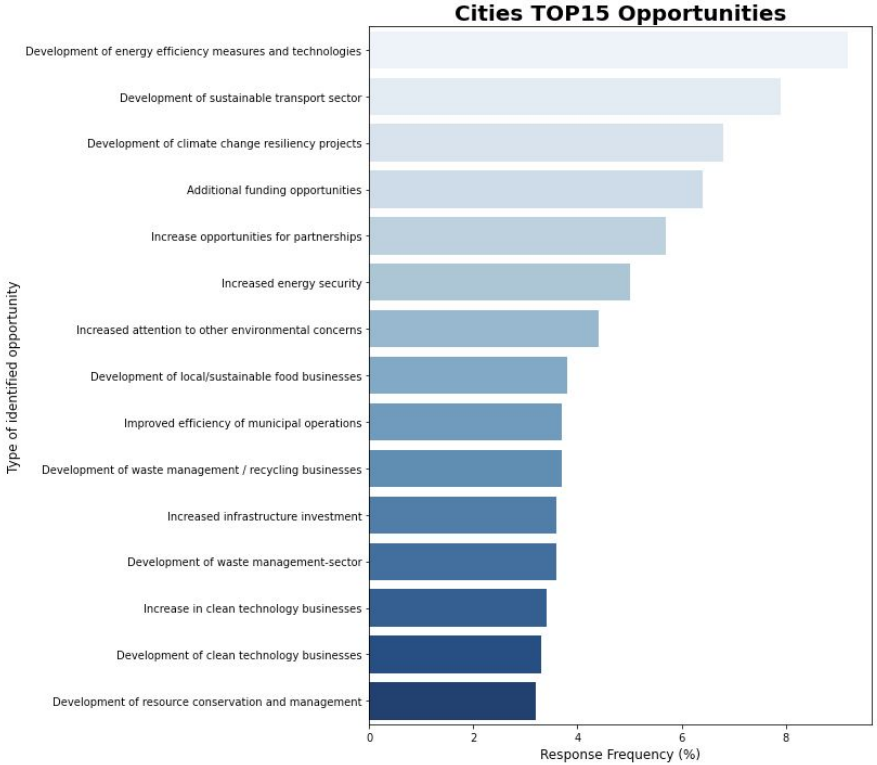
Plot:
Was habe ich mir angeschaut?

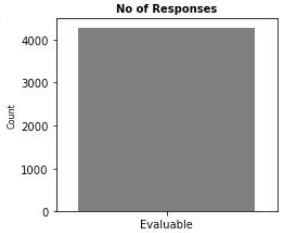
Findings:
Was habe ich herausgefunden?

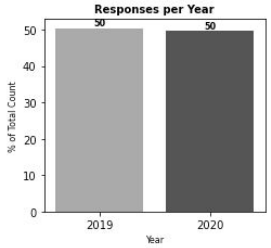
Purpose:
Wie tragen meine Ergebnisse zur Zielerreichung bei?

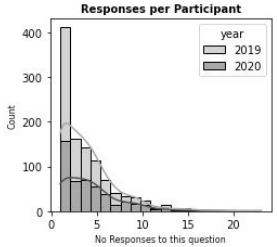
Future Work:
Was gibt es zu tun?

D2: Opportunities







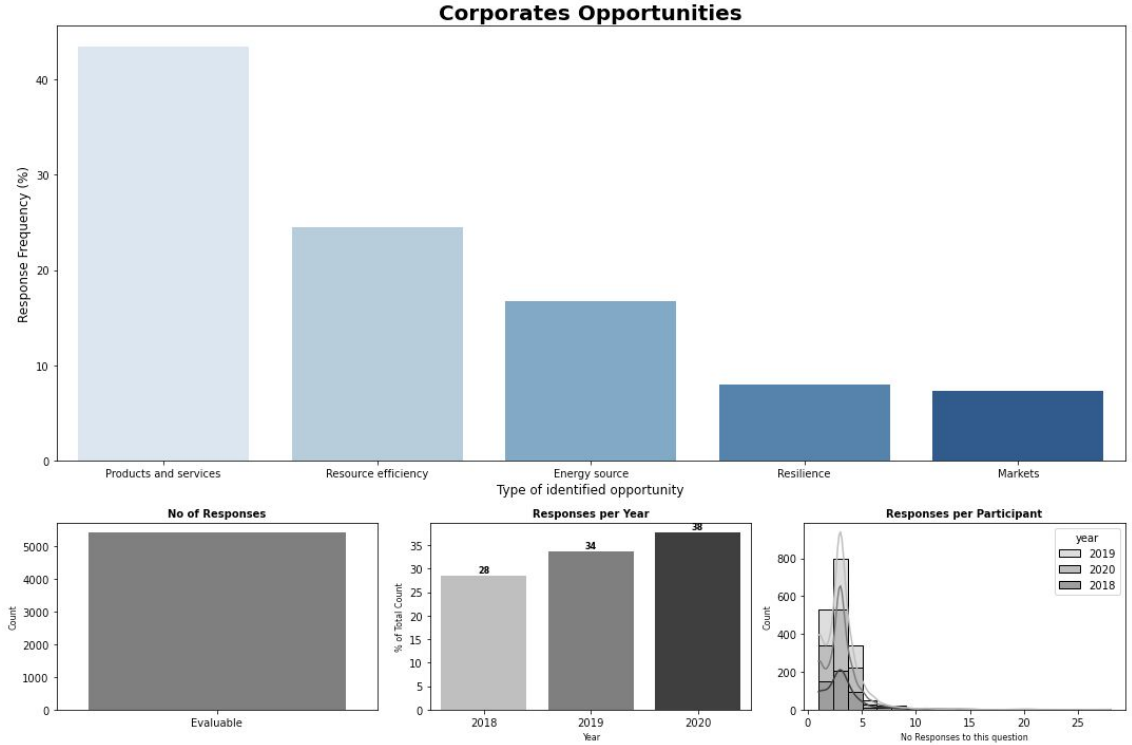


- 99,6 % of the cities have identified at least one opportunity
- Main drivers are energy efficiency, transport, food, waste and clean technologies
- 6% states explicitly that they see advantages in new partnerships

- As the vast majority of the cities see relevant opportunities we can expect that they are eager to work on cc activities
- The opportunity overviews show major sectors for improvement

- Create bins (populations, countries)
- Interpret “Others”

D2: Opportunities



- Corporates view on opportunities concentrate on products & services, resource efficiency and energy sourcing

- Identified overall intersection between cities and corporates opportunity view: Energy Sourcing and Technology
- Setting a positive context for climate change activies

- Difference by region
- Cluster by time horizon, likelihood and financial impact

AOB - suggestions

- basic dataframes: “year” should be either type string or datetime not integer / float -> currently year is interpreted as a continuous variable which causes some plotting problems
- data loading: We’ll have to define an encoding method (probably UTF-8) when importing the dataframes. Currently we have problems with the representation of the character set.
- cor: column_numbers seems to be floats -> it would be more consistent and therefor easier to manage if they would be integers

- notebook structure: Does it make sense to structure EDA results based on the underlying dataframe structur (cid, cir, cod, cir)

  => my opinion: It would be way bitter to structure EDA based on meaningful topics (for example “basic statistics”, “risks”, “opportunities”, “actions” etc.