**Remarks/Questions to the Client:**

Below the datasets, you can find tables for each data source (source number is similar to the numbering used that you used, see Datasets). In each table, you find the link to the data source and the filters that are chosen.

1. These are the filters that we have chosen in order to be able to download the data sets in CSV format. Are these okay with you? This is namely what we think is relevant out of every data source that you provided.
2. As noticed, not all data sources that you provided are in here, because we find them irrelevant / not useful for answering the questions. Could you double-check and verify if we have enough data to answer all subquestions and eventually the main question? (with these filters applied) If the remaining data sources are insufficient, can we get more data from you?
3. For convenience, we chose to keep the following years: 2019, 2020, and 2021. Although some data sources do not have data for each of the years stated above. Therefore, we ask whether you guys can select the **years** that are of importance and also available in all data sources that you provided. Or how should we approach year-specific data (as there may be too much missing data for some years) according to you?
4. Data about ethnicities in municipalities seem to be missing. Is it okay, to **focus on gender and age instead**?
5. During the first meeting you said to focus on occupancy for the third subquestion. What exactly is meant by that? Education, income, and so on? Can we for example **focus on income, education, and amenities**?

If possible, maybe you could provide us with a better data source that describes available amenities/ services and income in a municipality.

**Note:** Use Google Translate to translate everything to English

Below are the sources you provided. The ones that we find irrelevant/useless are crossed out. (sources 3, 5, 8, 10 12, 13, 15, and 16)

**Update 30-05-2022:** source 13 had no info on municipalities/cities, source 12 had info on crime (quality of life/happiness were measured in terms of the number of crimes), and the filters mentioned in the document were difficult to use to filter because it couldn't be found directly

**Update 16-6-22:** source 5 had no data on municipalities so it is dropped

Research Questions

In which location (municipality) in the Netherlands are people the healthiest?

1. What attributes can be used as indicators for having a healthy population?
2. What is the best location (municipality or smaller) to live healthy in The Netherlands for which demographic group of people (i.e. age: students, elderly or different ethnicity)?
3. How do population attributes (such as income, education level, energy consumption, etc.) relate to health within the population of the Netherlands?

Note that we want to focus on the physical part of health, such that we define healthy living as having the opportunity, capability, and motivation to act in a way that positively affects your physical well-being.

Datasets

Main source: [StatLine (cbs.nl)](https://opendata.cbs.nl/statline/#/CBS/nl/)

1. 2016-2021: Bevolking, wonen, energie, arbeid, inkomen, sociale zekerheid, zorg, criminaliteit, bedrijfsvestingen, motorvoertuigen, nabijheid voorzieningen, oppervlakte, postcode, stedelijkheid - <https://opendata.cbs.nl/statline/#/CBS/nl/dataset/85039NED/table?ts=1651501629365>
2. 1995-2022: Bevolking, bouwen en wonen, onderwijs, arbeid, inkomenen vermogen, sociale zekerheid, bedrijfsvestigingen, landbouw, verkeer en vervoer, nabijheid voorzieningen, milieu en bodemgebruik, lokalisering: <https://opendata.cbs.nl/statline/portal.html?_la=nl&_catalog=CBS&tableId=70072ned&_theme=234>
3. ~~Maatstaven gemeentefonds 2016–2022: Inwoners, huishoudens, bevolking, personen met bijstand en loonkostensubs, psychisch medicijngebruik ouders, wajong uitkeringen, inwoners doelpopulatie:~~ [~~https://opendata.cbs.nl/statline/portal.html?\_la=nl&\_catalog=CBS&tableId=85052NED&\_theme=234~~](https://opendata.cbs.nl/statline/portal.html?_la=nl&_catalog=CBS&tableId=85052NED&_theme=234)
4. Financiele verhoudingen 2007-2022: Inwoners naar geslacht en leeftijd, stedelijk en landelijk, huishoudens, woonkernen, oppervlakte, bodemgesteldheid, vastgoed, periodieke bijstandsuitkeringen, minderheden, banen van werknemers, bedrijfsvestigingen, provinciale wegen, inwoners in zorginstellinge, uitwonende studenten: <https://opendata.cbs.nl/statline/portal.html?_la=nl&_catalog=CBS&tableId=60039fvw&_theme=234>
5. ~~Medisch geschoolden:~~ [~~https://opendata.cbs.nl/statline/portal.html?\_la=nl&\_catalog=CBS&tableId=84779NED&\_theme=281~~](https://opendata.cbs.nl/statline/portal.html?_la=nl&_catalog=CBS&tableId=84779NED&_theme=281)
6. Donorregistratie: <https://opendata.cbs.nl/statline/portal.html?_la=nl&_catalog=CBS&tableId=85037NED&_theme=282>
7. Gezondheidsmiddelen: <https://opendata.cbs.nl/statline/portal.html?_la=nl&_catalog=CBS&tableId=83251NED&_theme=283>
8. ~~Jeugdzorg:~~ [~~https://opendata.cbs.nl/statline/portal.html?\_la=nl&\_catalog=CBS&tableId=82975NED&\_theme=393~~](https://opendata.cbs.nl/statline/portal.html?_la=nl&_catalog=CBS&tableId=82975NED&_theme=393)
9. Ziekenhuisopnamen: <https://opendata.cbs.nl/statline/portal.html?_la=nl&_catalog=CBS&tableId=84521NED&_theme=290>
10. ~~Huiselijk geweld:~~ [~~https://opendata.cbs.nl/statline/portal.html?\_la=nl&\_catalog=CBS&tableId=84847NED&\_theme=405~~](https://opendata.cbs.nl/statline/portal.html?_la=nl&_catalog=CBS&tableId=84847NED&_theme=405)
11. Doodsoorzaken: <https://opendata.cbs.nl/statline/portal.html?_la=nl&_catalog=CBS&tableId=80142ned&_theme=293>
12. ~~Sociale veiligheid:~~ [~~https://opendata.cbs.nl/statline/portal.html?\_la=nl&\_catalog=CBS&tableId=85146NED&\_theme=406~~](https://opendata.cbs.nl/statline/portal.html?_la=nl&_catalog=CBS&tableId=85146NED&_theme=406)
13. ~~Geluk en tevreden met leven (heb alleen landelijk gevonden):~~ [~~StatLine - Welzijn; gelukkig en tevreden, persoonskenmerken vanaf 1997 (cbs.nl)~~](https://opendata.cbs.nl/statline/#/CBS/nl/dataset/84572NED/table?ts=1651566248644)
14. Bevolkings ontwikkeling per maand:

[StatLine - Bevolkingsontwikkeling; regio per maand (cbs.nl)](https://opendata.cbs.nl/#/CBS/nl/dataset/37230ned/table?ts=1651566338234)

1. ~~Vooraad woningen per gemeente:~~ [~~StatLine - Voorraad woningen en niet-woningen; mutaties, gebruiksfunctie, regio (cbs.nl)~~](https://opendata.cbs.nl/#/CBS/nl/dataset/81955NED/table?ts=1651566391689)
2. ~~Verstrekte geneesmiddelen per gemeente:~~ [~~https://opendata.cbs.nl/statline/#/CBS/nl/dataset/83251NED/table?dl=674D7~~](https://opendata.cbs.nl/statline/#/CBS/nl/dataset/83251NED/table?dl=674D7)

| **Applied filters** | **Source 1** |
| --- | --- |
| **Preview table link where you can apply the filters:**  <https://opendata.cbs.nl/statline/#/CBS/nl/dataset/85039NED/table?ts=1651501629365> | |
| Subject  Region Designation   * Region Type   Population   * Number of inhabitants * Sex * Age groups * Marital status * Birth and Death   + Birth relative   + Death relative * Population Density   Energy   * Average Electricity Consumption   + Average electricity consumption total * Average natural gas consumption   + Average natural gas consumption total   Educational Attainment  Income   * Income of persons   + Average income per income recipient   Proximity amenities   * Distance to GP practise * Distance to large supermarket | |
| Regions  Districts and neighborhoods by municipality | |

| **Applied filters** | **Source 2** |
| --- | --- |
| **Original link:**  <https://opendata.cbs.nl/statline/portal.html?_la=nl&_catalog=CBS&tableId=70072ned&_theme=234>  **Preview table link where you can apply the filters on:** <https://opendata.cbs.nl/statline/#/CBS/nl/dataset/70072ned/table?ts=1653312996639> | |
| Subject  Population  -Demographics on 1 January  a.Total population  b.Gender  c.Age  -Population Development  a.Birth and death  b.Population growth  1. Population growth, Relative  Education  -By municipality of residence  a.Graduates  Labour  -Jobs of employees, relative  Proximity to amenities  -Health  Periods  Years  -2019, 2020, 2021  Regions  Municipalities by province | |
|

| **Applied filters** | **Source 4** |
| --- | --- |
| **Original link:**  <https://opendata.cbs.nl/statline/%20portal.html?_la=nl&_catalog=CBS&tableId=60039fvw&_theme=234>  **Preview table link where you can apply the filters on:** <https://opendata.cbs.nl/statline/#/CBS/nl/dataset/84779NED/table?ts=1653350265417> | |
| Subject  Residents by gender and age  -Men: all sub categories  -Women: all sub categories  Minorities  Employee jobs  Provincial roads  Residents in care institutions  Periods  Years  -2019, 2020, 2021  Regions  Municipalities by province | |
|

| **Applied filters** | **Source 6** |
| --- | --- |
| **Original link:** <https://opendata.cbs.nl/statline/portal.html?_la=nl&_catalog=CBS&tableId=85037NED&_theme=282>  **Preview table link where you can apply the filters:**  <https://opendata.cbs.nl/statline/#/CBS/nl/dataset/85037NED/table?ts=1653318106266> | |
| Subject  Donor register, fixed choice  Donor Registration  Registered in donor registry   * Total   + Total registered or not   + Registered in donor registry   + Not registered in donor registry | |
| Regions  Municipalities by province  Periods  Years  -2019, 2020, 2021 | |

| **Applied filters** | **Source 7** |
| --- | --- |
| **Original link:**  <https://opendata.cbs.nl/statline/portal.html?_la=nl&_catalog=CBS&tableId=83251NED&_theme=283>  **Preview table link where you can apply the filters:**  <https://opendata.cbs.nl/statline/#/CBS/nl/dataset/83251NED/table?ts=1653397536883> | |
| Subject  Persons with dispensed medicines  Sex  Men  Women  Age  0 to 15 years  15 to 25 years  25 to 35 years  35 to 45 years  45 to 55 years  55 to 65 years  65 to 75 years  75 years or older  Periods  Years   * 2019, 2020\*   Regions  Totals  Municipalities by province | |
| Drug Group (ATC)  Anatomical main group   * Total   a.Total | |

| **Applied filters** | **Source 9** |
| --- | --- |
| **Original link:**  <https://opendata.cbs.nl/statline/portal.html?_la=nl&_catalog=CBS&tableId=84521NED&_theme=290>  **Preview table link where you can apply the filters on:** <https://opendata.cbs.nl/statline/#/CBS/nl/dataset/84521NED/table?ts=1653350804828> | |
| Type of recording  Total recordings  Diagnosis  Total all diagnosis  Subject  Admissions by 10 000 inhabitants  Gender  Men  Women  Age  Age in six groups: all subcategories  Periods  Years  -2019  Regions  Municipalities by province | |
|

| **Applied filters** | **Source 11** |
| --- | --- |
| **Preview table link where you can apply the filters on:** <https://opendata.cbs.nl/statline/portal.html?_la=nl&_catalog=CBS&tableId=80142ned&_theme=293> | |
| Subject  Cause of death   * Total deaths by pre-existing conditions * New conditions * Heart and blood vessel illness * Deaths by respiratory conditions   Periods  Years  -2018-2020  Regions:  Municipalities by province | |
|

| **Applied filters** | **Source 14** |
| --- | --- |
| **Preview table link where you can apply the filters on:** <https://opendata.cbs.nl/#/CBS/nl/dataset/37230ned/table?ts=1651566338234> | |
| Subject  Population at the beginning of the period  Children born alive  Deaths  Departure from municipality  -Departure to another municipality  Population growth  -population growth, relative  Periods  Years  -2019,2020,2021  Regions  Municipalities by province | |
|