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# **Eurobarometer 92.1: Expectations and concerns of connected and automated driving, Attitudes of Europeans towards Air Quality, and Undeclared work in the European Union (2019)**

*Eurobarometer 92.1: aspettative e preoccupazioni verso la guida connessa e automatizzata, atteggiamento nei confronti della qualità dell'aria e del lavoro sommerso nell'Unione Europea (2019)*

European Commission

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E-mail: [unidata@unimib.it](mailto:unidata@unimib.it)

Tel.: +39 02 6448 7513

Fax: +39 02 6448 7561

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Università degli Studi di Milano-Bicocca  
Via Bicocca degli Arcimboldi 8  
20126 - Milano (Italia)

**GESIS Study number ZA7579**  
**ICPSR Study Number** *[not yet assigned]*

## **EUROBAROMETER 92.1**

Carried out by Kantar Public Brussels on request of the EUROPEAN COMMISSION, Directorate-General Communication (COMM.A.3.: Media monitoring and Eurobarometer), between September 11 and September 29, 2019.

Archive pre-release, dataset version 3.0.0 as of March 31, 2021

This dataset edition has not yet passed the complete archive processing and documentation, such as complete variable documentation for online data browsing and analysis in ZACAT (<https://zocat.gesis.org>). Basic archival checks have been performed; technical variables, protocol variables and variable labels have been adapted to archive standards for the EUROBAROMETER series.

### Proposed citation

European Commission, Brussels: Eurobarometer 92.1, September 2019. Kantar Public, Brussels [Producer];  
GESIS, Cologne [Publisher]: ZA7579, dataset version 3.0.0, doi:10.4232/1.13716

### Survey instruments

For question wording, answer category text, interviewer instructions or question routing, please see the BASIC BILINGUAL QUESTIONNAIRE and the respective national field questionnaires. The basic questionnaire also includes a technical description of this EUROBAROMETER survey.

The national field questionnaires in the different language versions are available through the GESIS Eurobarometer web pages (STUDY PROFILES), the ZACAT online data catalogue, or the Eurobarometer study descriptions in the data holding catalogue (DBK), as soon as all embargos have been lifted, if applicable.

## Weighting information

In general the Standard and Special Eurobarometer datasets provide for two types of weighting, a post-stratification weighting and a population size weighting.

For each sample (country or lower level region) through the **post-stratification weighting** procedure a comparison is carried out between the sample composition and a proper universe description. The universe description is made available by the National Survey Research Institutes and/or by EUROSTAT. On this basis a national weighting procedure, using marginal and intercellular weighting, is applied. As such in all countries, minimum sex, age, region NUTS II (basic regions as defined by the EUROSTAT nomenclature of territorial units for statistics), and size of locality are introduced in the iteration procedure. This post-stratification weighting is also referred to as redressement or non-response weighting. A design weight which would adjust for unequal selection probabilities (depending on the household size) is not made available.

The **population size weighting** factor corrects for the fact that most samples are of almost identical size, no matter how large or small the populations are from which they were drawn. These weights ensure that each country as well as each lower level sample (East and West Germany) are represented in proportion to its population size within different country/sample groupings, or according to the historical states of European unification (e.g. founder members, new members, Euro zone) in the case of the EUROPEAN WEIGHTS, or within the whole country in the case of Germany (WEIGHT SPECIAL GERMANY).

The **population size weights** all include the post-stratification weighting factors. The EUROPEAN WEIGHTS adjust each sample in proportion to its share in the total population aged 15 and over of the European Union (formerly European Community) or in accordance with its historical compositions. These adjustments are based on population figures published by EUROSTAT in the Regional Statistics Yearbook. Between Eurobarometer 33 and 54.1 adjustments to the predefined standard sample size is taken into account. In general all samples which do not belong to the respective group of countries/samples under consideration are excluded from calculation.

The application of post-stratification weights is **recommended for descriptive (univariate) analysis**. Meaningful descriptive results for groups of countries or for countries with separate samples (Germany) require population size weighting. Official Eurobarometer reports are always based on weighted data.

The “overall” WEIGHT EXTRA extrapolates the actual universe (population aged 15 and over) for each country or sample. This weight variable integrates all other available weights, but does not reproduce the number of cases in the dataset, but the respective actual population size.

The following weights are provided for Eurobarometer 92.1:

**W1** (WEIGHT RESULT FROM TARGET) reproduces the real number of cases for each country. East and West German samples are weighted separately. This weight in its function corresponds to former NATION WEIGHT II (until EUROBAROMETER 31).

**W3** (WEIGHT GERMANY) adjusts the East and the West German samples to their respective proportions in the united Germany. All other samples are excluded. This weight should be used whenever the united Germany is to be analysed as a whole.

**W22** (WEIGHT EU27) includes all 25 member countries after the 2004 enlargement, and the new members as of 2007 Romania and Bulgaria; **W24** (WEIGHT EU NMS 12) refers to the group of the twelve new members as of 2004/2007, all other samples are excluded from calculation.

**W14** (WEIGHT EU25) refers to the EU member countries as of the 2004 enlargement; **W13** (WEIGHT EU NMS 10) to the group of the ten new members at times. In both cases all other samples are excluded from calculation.

**W11** (WEIGHT EU15) refers to the EU members after the 1995 enlargement. All other samples are excluded from calculation; **W10** (WEIGHT EU NMS 3) separates the three new members at times.

**W8** (WEIGHT EU12) excludes Austria, Sweden and Finland from the EU 15 group; **W9** (WEIGHT EU12+) includes East Germany; **W7** (WEIGHT EU10) in addition excludes Spain and Portugal (enlargement 1986); **W6** (WEIGHT EU9) also excludes Greece (enlargement 1981).

**W5** (WEIGHT EU6) refers to the six EC founder members: France, Belgium, the Netherlands, West Germany, Italy, and Luxembourg. All other samples are excluded from calculation.

**W23** (EU28) refers to the EU 28 countries (EU27 plus Croatia; membership as of July 2013); **W94** (WEIGHT EU NMS 13) groups the 13 new member countries for the enlargement period 2004 to 2013.

**W29** (WEIGHT EURO ZONE 15) separates the 15 countries which introduced the EURO as of 01/01/2002 (Belgium, Germany, Ireland, Spain, France, Italy, Luxembourg, the Netherlands, Austria, Portugal, Finland and Greece), 01/01/2007 (Slovenia) and 01/01/2008 (Cyprus, Malta); **W30** (WEIGHT NON EURO ZONE 15) refers to the rest of the EU 27 member countries which so far did not introduce the common currency, grouped as a whole. In each case all other samples are excluded from calculation.

**W81** (WEIGHT EURO ZONE 16) separates the 16 countries which introduced the EURO as of 01/01/2002 (Belgium, Germany, Ireland, Spain, France, Italy, Luxembourg, the Netherlands, Austria, Portugal, Finland and Greece), 01/01/2007 (Slovenia), 01/01/2008 (Cyprus, Malta) and 01/01/2009 (Slovakia); **W82** (WEIGHT NON EURO ZONE 16) refers to the rest of the EU 27 member countries which so far did not introduce the common currency, grouped as a whole. In each case all other samples are excluded from calculation.

**W89** (WEIGHT EURO ZONE 17) adds ESTONIA to the group of EURO zone countries as of January 2011. **W90** (WEIGHT NON EURO ZONE 17 EU27) refers to the group of EU27 countries which as of January 2011 did not introduce the common currency.

**W98** (WEIGHT EURO ZONE 18) adds LATVIA to the group of EURO zone countries as of January 2014. **W83** (WEIGHT NON-EURO ZONE 18 EU27) references the

EU27 countries, **W99** (WEIGHT NON-EURO ZONE 18 EU28) the EU28 countries which as of January 2014 did not introduce the common currency. In each case all other samples are excluded from calculation. **W84** (WEIGHT NON EURO ZONE 18 NMS 12) refers to the non-EURO zone 18 countries among the 12 new members as of 2004/2007. In each case all other samples are excluded from calculation.

**W85** (WEIGHT EURO ZONE 19) adds LITHUANIA to the group of EURO zone countries as of January 2015. **W86** (WEIGHT NON-EURO ZONE 19 EU28) references the EU28 countries, which as of January 2015 did not introduce the common currency. **W87** refers to the EU 28 countries minus the United Kingdom.

**WEX** extrapolates the actual universe (population aged 15 or more) for each country (all samples), i.e. this weight variable integrates all other available weights, but does not reproduce the number of cases in the dataset.

#### Remarks about this dataset version

- Question module QA 'Mobility and Transport' partly replicates questions asked in the context of Eurobarometer 82.2 (ZA5931).
- Question module QB 'Expectations and concerns of connected and automated driving' was newly introduced.
- Question module QC 'Attitudes of Europeans towards Air Quality' partly replicates questions asked in the context of Eurobarometer 88.1 (ZA6925) and Flash Eurobarometer 360 (ZA5795).
- Question module QD 'Undeclared work in the European Union' partly replicates questions asked in the context of Eurobarometer 79.2 (ZA5688).
- Region NUTS 2 categories for PORTUGAL have been edited and adapted to changes as of 2002 (NUTS version 2003) which are reflected in Eurobarometer starting with wave 62 (confirmed by TNS). Region NUTS 1 categories for GREECE have been edited correcting for the non-coverage of Ionian and Aegean Islands starting with Eurobarometer 62 (confirmed by TNS).
- Starting with Eurobarometer 89.2 no separate sample is drawn for Northern Ireland, which is now covered by the sample for the United Kingdom. Accordingly, the formerly available weight variable w4 "WEIGHT UNITED KINGDOM" is obsolete and no longer included in the dataset.
- The fieldwork dates implied by the values in protocol variable p1 (date of interview) differ slightly from those indicated in the technical specifications provided by Kantar for several countries.
- Please note that variables gen1 to gen6 ("GENERATION") have been corrected by the archive in accordance with the official tabular volumes. Furthermore, gen1 to gen6 are based on age instead of year of birth, which still may entail a slightly inaccurate categorization for some respondents.
- Data for protocol variables p8 (postal code), p9 (sample point number), and p10 (interviewer number) have not been made available.

- The filter instruction for variables qa0a (MODE OF TRANSPORT REASON - FIRSTLY) and qa1 (TYPICAL ADDITIONAL MODE:) is incomplete in the questionnaires. Respondents answering 9 “No daily or regular mobility” on sd1 (MODE OF TRANSPORT - TYPICALLY MOST OFTEN USED) also are not asked these questions.
- The pictures for question qb4 can be seen in the corresponding report „Special Eurobarometer 496“ (page 14).
- Please note that, in contrast to the presentation in the questionnaire, the item numbering for variables of question qd24 has been shifted/adjusted to represent the split into qd24a (EMPLOYED) and qd24b (SELF-EMPLOYED) variables.
- Variables qd12 and qd12r have been slightly corrected by the Archive in accordance with original tabular reports.
- Checks for duplicate case identification numbers and cases have been performed. The dataset contains no missing id variables. The dataset has been checked for duplicate cases on the base of 64 selected non-technical (substantial) variables without evidence for any duplicate.
- Module QC is available starting with version v2-0-0 (embargo update).
- Module QA is available starting with version v3-0-0 (embargo update).

**GESIS – Leibniz Institute for the Social Sciences  
Data Archive for the Social Sciences (DAS)**

**Cologne, Germany  
March 31, 2021**

Archive website: <https://www.gesis.org/eurobarometer-data-service/home/>

Archive contact: [eurobarometer-dataservice@gesis.org](mailto:eurobarometer-dataservice@gesis.org)

European Commission DG Communication:  
<http://ec.europa.eu/COMMFrontOffice/PublicOpinion>