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Cadoret M., Fournier O., Fournier G., Le Poder F., Bouche J., Lê S.

Agrocampus Ouest

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EnQuireR: Multivariate Exploratory Analysis of Questionnaires

Multivariate exploration of the questionnaire

- How is my dataset “structured”?
- How does my dataset look like?
- How can the main axes of variability be interpreted?

Typology of the individuals

- How many groups are there in my dataset?
- How can the groups be displayed?
- How different are the groups?
- How can the groups be described?



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How is my dataset "structured"?

Percentages of variance explained by the first five axes

Axis	Eigenvalue	Percentage of variance
1	0.17548	8.68%
2	0.11891	5.88%
3	0.10153	5.02%
4	0.09093	4.5%
5	0.09086	4.5%

Table: Eigenvalues associated with the first five axes



How does my dataset look like?

Representation of the individuals

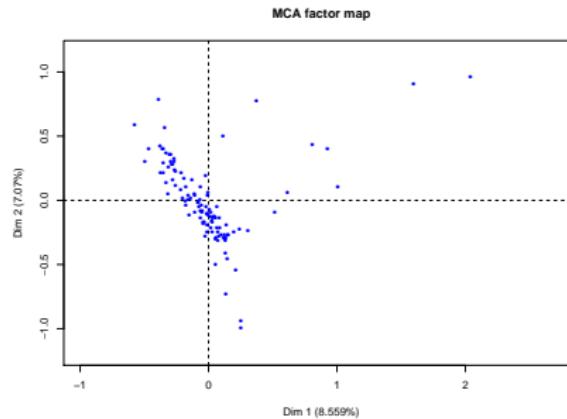


Figure: Raw representation of the individuals on axes 1 and 2



How does my dataset look like?

Representation of the categories

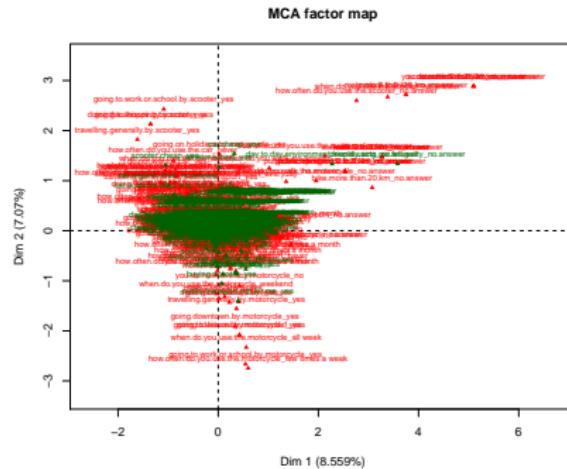


Figure: Raw representation of the categories on axes 1 and 2

How does my dataset look like?

Simplified representation of the categories

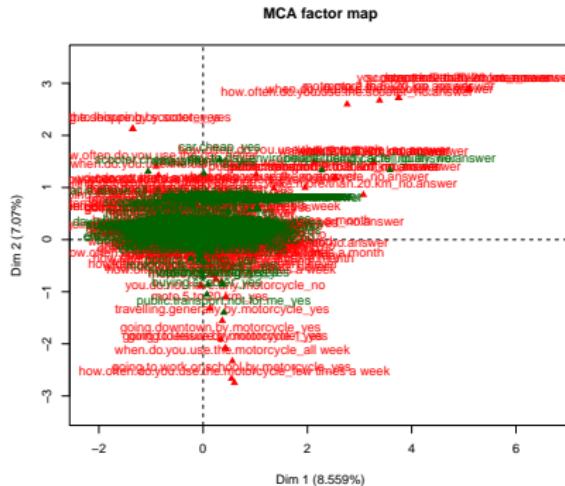


Figure: Simplified representation of the categories on axes 1 and 2

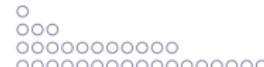


How can the main axes of variability be interpreted?

Description of the first axis: positive side (1 / 5)

The following categories are meaningful for the first axis (positive side):

- moto.0.to.2.km_no.answer
- scooter.0.to.2.km_no.answer
- moto.5.to.20.km_no.answer
- you.do.not.have.any.scooter_no.answer
- scooter.5.to.20.km_no.answer
- you.do.not.have.any.motorcycle_no.answer
- moto.2.to.5.km_no.answer
- moto.more.than.20.km_no.answer
- scooter.2.to.5.km_no.answer
- walk.2.to.5.km_no.answer



How can the main axes of variability be interpreted?

Description of the first axis: positive side (2 / 5)

The following categories are meaningful for the first axis (positive side):

- walk.0.to.2.km_no.answer
- scooter.more.than.20.km_no.answer
- walk.5.to.20.km_no.answer
- walk.more.than.20.km_no.answer
- when.do.you.use.the.scooter_no.answer
- public.transport.2.to.5.km_no.answer
- public.transport.5.to.20.km_no.answer
- public.transport.0.to.2.km_no.answer
- bike.2.to.5.km_no.answer
- bike.more.than.20.km_no.answer



How can the main axes of variability be interpreted?

Description of the first axis: positive side (3 / 5)

The following categories are meaningful for the first axis (positive side):

- bike.0.to.2.km_no.answer
- bike.5.to.20.km_no.answer
- public.transport.more.than.20.km_no.answer
- how.often.do.you.use.the.car_no.answer
- how.often.do.you.use.the.scooter_no.answer
- you.do.not.have.any.bike_no.answer
- how.often.do.you.use.the.motorcycle_no.answer
- when.do.you.use.the.motorcycle_no.answer
- when.do.you.use.the.bike_no.answer
- when.do.you.walk_no.answer



How can the main axes of variability be interpreted?

Description of the first axis: positive side (4 / 5)

The following categories are meaningful for the first axis (positive side):

- car.2.to.5.km_no.answer
- car.0.to.2.km_no.answer
- car.5.to.20.km_no.answer
- car.more.than.20.km_no.answer
- going.to.work.or.school.by.car_yes
- how.often.do.you.walk_no.answer
- when.do.you.use.public.transport_no.answer
- how.often.you.use.the.bike_no.answer
- travelling.generally.by.car_yes
- travelling.generally.by.public.transport_no



How can the main axes of variability be interpreted?

Description of the first axis: positive side (5 / 5)

The following categories are meaningful for the first axis (positive side):

- you.do.not.have.any.car_no
- how.often.do.you.walk_few times a month
- going.on.holidays.by.public.transport_no
- when.do.you.use.the.car_no.answer
- doing.the.shopping.by.car_yes
- 20



How can the main axes of variability be interpreted?

Description of the first axis: negative side (1 / 8)

The following categories are meaningful for the first axis (negative side):

- moto.5.to.20.km_no
- scooter.0.to.2.km_no
- moto.more.than.20.km_no
- walk.2.to.5.km_no
- moto.0.to.2.km_no
- moto.2.to.5.km_no
- you.do.not.have.any.motorcycle_yes
- scooter.5.to.20.km_no
- you.do.not.have.any.scooter_no
- you.do.not.have.any.motorcycle_no



How can the main axes of variability be interpreted?

Description of the first axis: negative side (2 / 8)

The following categories are meaningful for the first axis (negative side):

- walk.5.to.20.km_no
- walk.0.to.2.km_no
- scooter.5.to.20.km_yes
- scooter.2.to.5.km_no
- moto.0.to.2.km_yes
- moto.5.to.20.km_yes
- scooter.0.to.2.km_yes
- scooter.2.to.5.km_yes
- moto.2.to.5.km_yes
- you.do.not.have.any.scooter_yes



How can the main axes of variability be interpreted?

Description of the first axis: negative side (3 / 8)

The following categories are meaningful for the first axis (negative side):

- walk.0.to.2.km_yes
- walk.2.to.5.km_yes
- moto.more.than.20.km_yes
- scooter.more.than.20.km_no
- bike.more.than.20.km_no
- scooter.more.than.20.km_yes
- public.transport.more.than.20.km_no
- walk.5.to.20.km_yes
- bike.0.to.2.km_no
- bike.5.to.20.km_no



How can the main axes of variability be interpreted?

Description of the first axis: negative side (4 / 8)

The following categories are meaningful for the first axis (negative side):

- public.transport.0.to.2.km_no
- bike.2.to.5.km_no
- public.transport.5.to.20.km_no
- walk.more.than.20.km_yes
- public.transport.2.to.5.km_yes
- you.do.not.have.any.bike_no
- walk.more.than.20.km_no
- public.transport.2.to.5.km_no
- bike.2.to.5.km_yes
- public.transport.5.to.20.km_yes



How can the main axes of variability be interpreted?

Description of the first axis: negative side (5 / 8)

The following categories are meaningful for the first axis (negative side):

- how.often.do.you.use.the.car_few times a month
- bike.5.to.20.km_yes
- how.often.do.you.walk_everyday
- public.transport.0.to.2.km_yes
- bike.0.to.2.km_yes
- you.do.not.have.any.bike_yes
- how.often.do.you.use.the.car_few times a week
- public.transport.more.than.20.km_yes
- when.do.you.walk_all week
- when.do.you.use.the.scooter_never



How can the main axes of variability be interpreted?

Description of the first axis: negative side (6 / 8)

The following categories are meaningful for the first axis (negative side):

- how.often.do.you.use.the.car_never
- going.to.work.or.school.by.car_no
- when.do.you.use.public.transport_all_week
- car.5.to.20.km_no
- when.do.you.use.the.scooter_weekend
- how.often.do.you.use.the.motorcycle_never
- car.more.than.20.km_no
- travelling.generally.by.car_no
- car.0.to.2.km_no
- car.2.to.5.km_no



How can the main axes of variability be interpreted?

Description of the first axis: negative side (7 / 8)

The following categories are meaningful for the first axis (negative side):

- when.do.you.walk_week only
- when.do.you.use.the.motorcycle_never
- car.2.to.5.km_yes
- car.0.to.2.km_yes
- how.often.do.you.use.public.transport_few times a week
- how.often.do.you.use.the.scooter_few times a month
- how.often.do.you.use.the.scooter_never
- when.do.you.use.the.bike_all week
- car.more.than.20.km_yes
- car.5.to.20.km_yes



How can the main axes of variability be interpreted?

Description of the first axis: negative side (8 / 8)

The following categories are meaningful for the first axis (negative side):

- how.often.you.use.the.bike_few times a week
- travelling.generally.by.public.transport_yes
- you.do.not.have.any.car_yes
- when.do.you.use.the.scooter_all week
- when.do.you.walk_never
- going.on.holidays.by.public.transport_yes
- when.do.you.use.the.car_never
- doing.the.shopping.by.car_no
- when.do.you.use.the.motorcycle_weekend



How can the main axes of variability be interpreted?

Description of the second axis: positive side (1 / 7)

The following categories are meaningful for the second axis (positive side):

- travelling.generally.by.public.transport_yes
- doing.the.shopping.by.car_no
- ticket.public.transport.season_yes
- going.to.work.or.school.by.car_no
- you.do.not.have.any.car_yes
- travelling.generally.by.car_no
- doing.the.shopping.by.public.transport_yes
- when.do.you.use.public.transport_all week
- going.on.holidays.by.car_no
- how.often.do.you.use.public.transport_everyday



How can the main axes of variability be interpreted?

Description of the second axis: positive side (2 / 7)

The following categories are meaningful for the second axis (positive side):

- how.often.do.you.use.the.motorcycle_no.answer
- how.often.do.you.use.the.car_never
- moto.5.to.20.km_no.answer
- drive.saloon.car_no.answer
- going.downtown.by.car_no
- how.often.do.you.walk_no.answer
- moto.more.than.20.km_no.answer
- moto.2.to.5.km_no.answer
- moto.0.to.2.km_no.answer
- public.transport.2.to.5.km_yes



How can the main axes of variability be interpreted?

Description of the second axis: positive side (3 / 7)

The following categories are meaningful for the second axis (positive side):

- drive.estate.car_no.answer
- when.do.you.use.the.car_never
- drive.sports.car_no.answer
- drive.commercial.vehicle_no.answer
- city.dweller_no.answer
- 22
- drive.four.wheeler_no.answer
- i.cannot.afford.a.car_no.answer
- going.on.holidays.by.motorcycle_yes
- going.to.work.or.school.by.foot_yes



How can the main axes of variability be interpreted?

Description of the second axis: positive side (4 / 7)

The following categories are meaningful for the second axis (positive side):

- going.to.work.or.school.by.public.transport_yes
- car.5.to.20.km_no.answer
- car.2.to.5.km_no.answer
- going.to.leisure.by.motorcycle.1_no.answer
- going.to.leisure.by.motorcycle_no.answer
- car.more.than.20.km_no.answer
- when.do.you.use.the.car_no.answer
- going.downtown.by.motorcycle_no
- i.do.not.want.a.car_no.answer
- car.0.to.2.km_no.answer



How can the main axes of variability be interpreted?

Description of the second axis: positive side (5 / 7)

The following categories are meaningful for the second axis (positive side):

- when.do.you.use.the.motorcycle_no.answer
- going.to.leisure.by.car_no.answer
- doing.the.shopping.by.scooter_yes
- how.often.do.you.use.the.scooter_no.answer
- going.to.work.or.school.by.motorcycle_no
- going.to.leisure.by.bike_no.answer
- travelling.generally.by.feet_yes
- going.downtown.by.public.transport_yes
- going.to.leisure.by.public.transport_no.answer
- when.do.you.use.the.bike_never



How can the main axes of variability be interpreted?

Description of the second axis: positive side (6 / 7)

The following categories are meaningful for the second axis (positive side):

- bike.2.to.5.km_no
- going.to.leisure.by.foot.1_no.answer
- going.to.leisure.by.foot_no.answer
- bike.5.to.20.km_no
- bike.0.to.2.km_yes
- going.downtown.by.bike_no
- how.often.you.use.the.bike_no.answer
- going.to.work.or.school.by.scooter_yes
- when.do.you.walk_no.answer
- walk.more.than.20.km_yes



How can the main axes of variability be interpreted?

Description of the second axis: positive side (7 / 7)

The following categories are meaningful for the second axis (positive side):

- going.downtown.by.feet_no
- you.do.not.have.any.motorcycle_no.answer

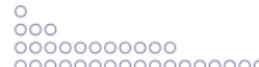


How can the main axes of variability be interpreted?

Description of the second axis: negative side (1 / 8)

The following categories are meaningful for the second axis (negative side):

- travelling.generally.by.public.transport_no
- doing.the.shopping.by.car_yes
- ticket.public.transport.season_no
- going.to.work.or.school.by.car_yes
- you.do.not.have.any.car_no
- travelling.generally.by.car_yes
- doing.the.shopping.by.public.transport_no
- i.cannot.afford.a.car_no
- how.often.do.you.use.the.car_everyday
- when.do.you.use.the.car_all_week



How can the main axes of variability be interpreted?

Description of the second axis: negative side (2 / 8)

The following categories are meaningful for the second axis (negative side):

- going.on.holidays.by.car_yes
- i.do.not.want.a.car_no
- how.often.you.use.the.bike_few times a month
- going.to.leisure.by.public.transport_no
- how.often.do.you.use.public.transport_never
- how.often.do.you.use.the.motorcycle_few times a week
- how.often.do.you.use.the.scooter_never
- moto.5.to.20.km_yes
- car.0.to.2.km_no
- moto.0.to.2.km_no



How can the main axes of variability be interpreted?

Description of the second axis: negative side (3 / 8)

The following categories are meaningful for the second axis (negative side):

- how.often.do.you.use.public.transport_few times a month
- going.to.leisure.by.scooter_no
- going.to.leisure.by.motorcycle.1_yes
- going.to.leisure.by.motorcycle_yes
- drive.saloon.car_yes
- when.do.you.use.the.car_week only
- moto.more.than.20.km_yes
- you.do.not.have.any.bike_no
- going.on.holidays.by.motorcycle_no
- going.to.work.or.school.by.foot_no



How can the main axes of variability be interpreted?

Description of the second axis: negative side (4 / 8)

The following categories are meaningful for the second axis (negative side):

- city.dweller_no
- going.to.work.or.school.by.public.transport_no
- going.to.leisure.by.car_yes
- moto.2.to.5.km_yes
- when.do.you.use.the.scooter_never
- 19
- drive.four.wheeler_no
- drive.commercial.vehicle_no
- 23
- drive.estate.car_no



How can the main axes of variability be interpreted?

Description of the second axis: negative side (5 / 8)

The following categories are meaningful for the second axis (negative side):

- public.transport.2.to.5.km_no
- when.do.you.use.public.transport_never
- 18
- drive.estate.car_yes
- car.2.to.5.km_no
- drive.saloon.car_no
- how.often.do.you.walk_few times a week
- when.do.you.use.the.motorcycle_all week
- buying.gasoline_supermarket
- drive.sports.car_yes



How can the main axes of variability be interpreted?

Description of the second axis: negative side (6 / 8)

The following categories are meaningful for the second axis (negative side):

- doing.the.shopping.by.scooter_no
- city.dweller_yes
- drive.commercial.vehicle_yes
- car.more.than.20.km_yes
- going.to.work.or.school.by.motorcycle_yes
- drive.sports.car_no
- car.5.to.20.km_no
- going.downtown.by.car_no.answer
- you.do.not.have.any.motorcycle_no
- travelling.generally.by.feet_no



How can the main axes of variability be interpreted?

Description of the second axis: negative side (7 / 8)

The following categories are meaningful for the second axis (negative side):

- scooter.5.to.20.km_no
- car.5.to.20.km_yes
- scooter.2.to.5.km_no
- going.downtown.by.public.transport_no.answer
- drive.four.wheeler_yes
- going.to.leisure.by.bike_yes
- going.downtown.by.feet_no.answer
- scooter.more.than.20.km_no
- going.downtown.by.scooter_no.answer
- going.downtown.by.bike_no.answer



How can the main axes of variability be interpreted?

Description of the second axis: negative side (8 / 8)

The following categories are meaningful for the second axis (negative side):

- car.more.than.20.km_no
- car.2.to.5.km_yes
- 20
- going.to.work.or.school.by.scooter_no
- going.to.leisure.by.foot.1_yes
- going.to.leisure.by.foot_yes
- when.do.you.use.the.bike_weekend



EnQuireR: Multivariate Exploratory Analysis of Questionnaires

Multivariate exploration of the questionnaire

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Typology of the individuals

- How many groups are there in my dataset?
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- How can the groups be described?



How many groups are there in my dataset?

Number of clusters chosen by the analyst

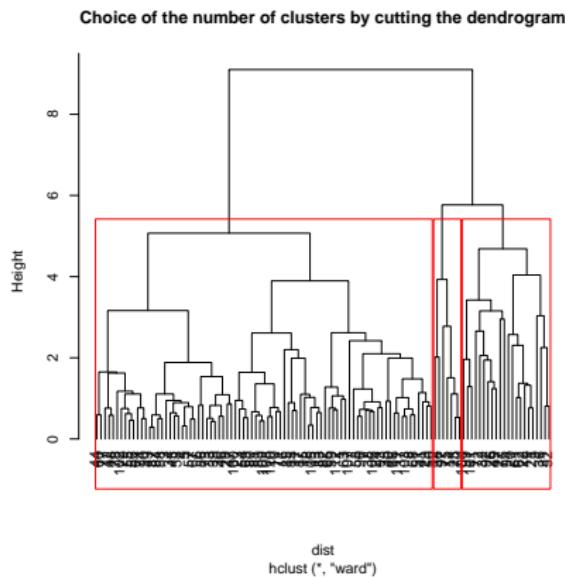


Figure: A number of clusters is chosen



How can the groups be displayed?

Representation of the individuals according to the group they belong to

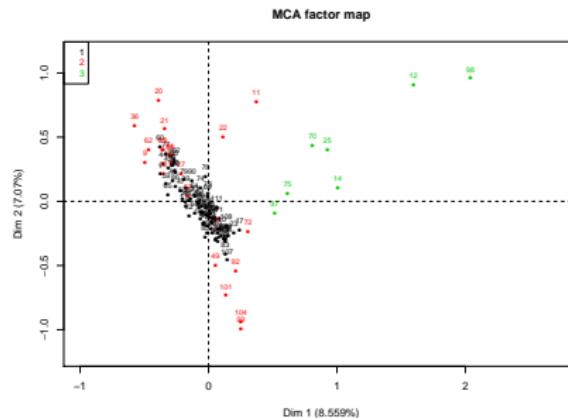


Figure: Correspondence map displaying clusters



How can the groups be displayed?

Simplified representation of the individuals according to the group they belong to

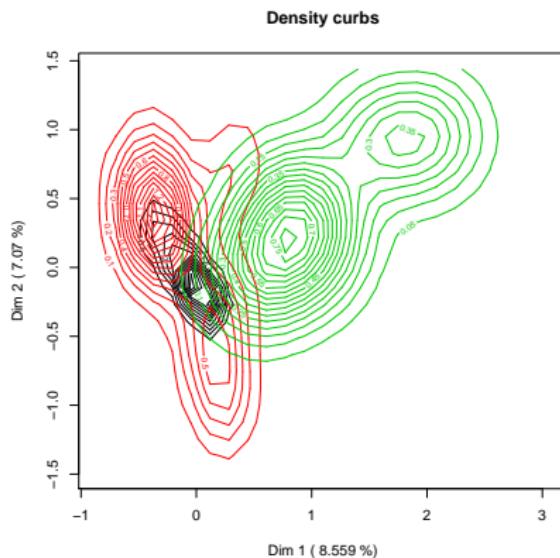


Figure: Levelling curves around each cluster



How can the groups be displayed?

Representation of the barycenter of each group enhanced with confidence ellipses

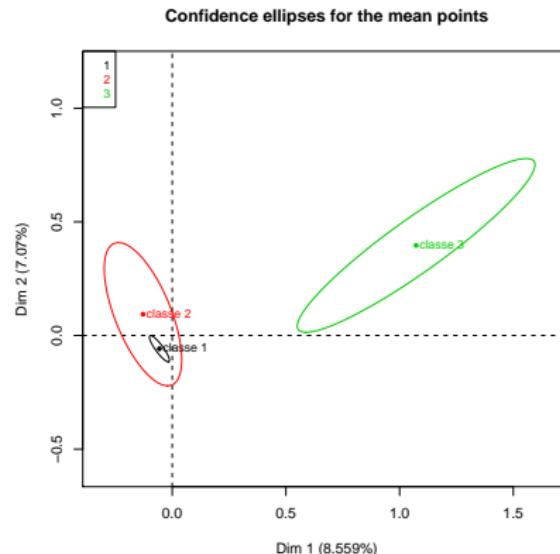


Figure: Confidence ellipses around each cluster



How different are the groups?

Number of individuals per cluster

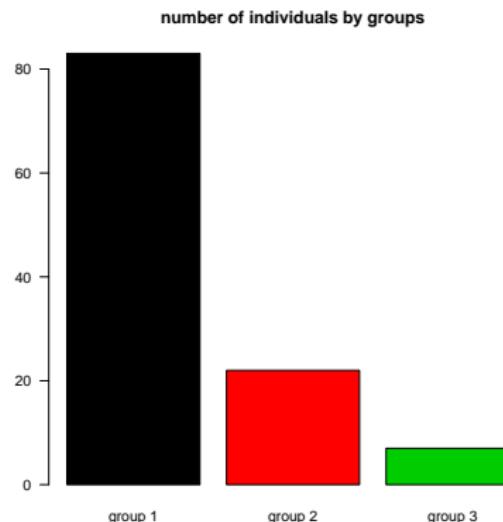
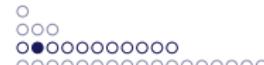


Figure: Number of individuals by cluster



How different are the groups?

Distribution of the individuals per cluster for the variable walk.more.than.20.km

walk.more.than.20.km by cluster

1st bar: walk.more.than.20.km_no
2nd bar: walk.more.than.20.km_no.answer

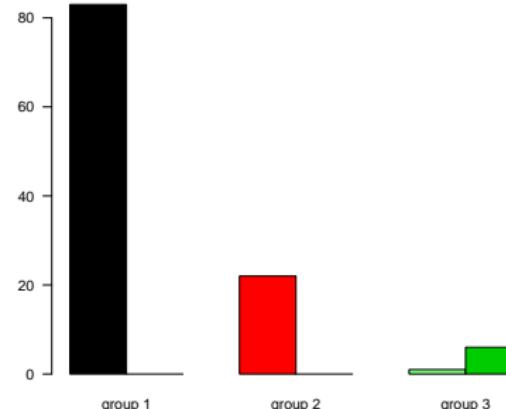


Figure: Variable walk more than 20 km



How different are the groups?

Distribution of the individuals per cluster for the variable walk.2.to.5.km

walk.2.to.5.km by cluster

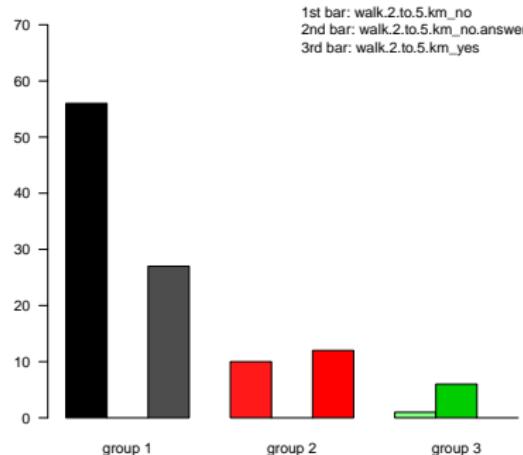


Figure: Variable walk.2.to.5.km



How different are the groups?

Distribution of the individuals per cluster for the variable walk.0.to.2.km

walk.0.to.2.km by cluster

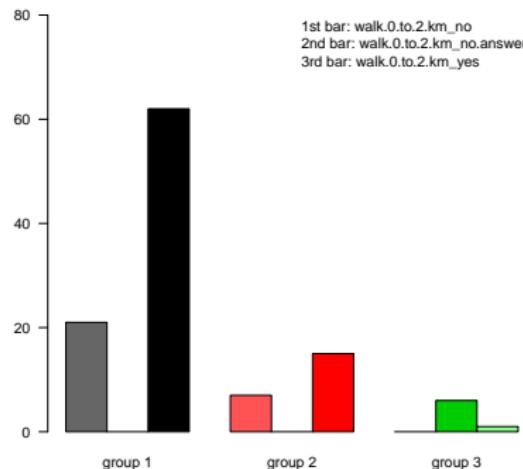


Figure: Variable walk.0.to.2.km



How different are the groups?

Distribution of the individuals per cluster for the variable walk.5.to.20.km

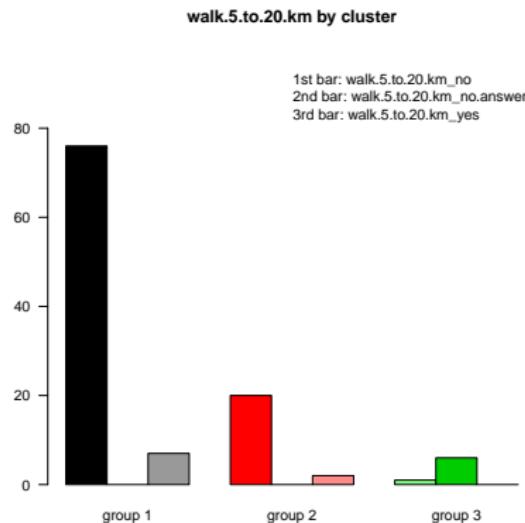


Figure: Variable walk.5.to.20.km



How different are the groups?

Distribution of the individuals per cluster for the variable public.transport.more.than.20.km

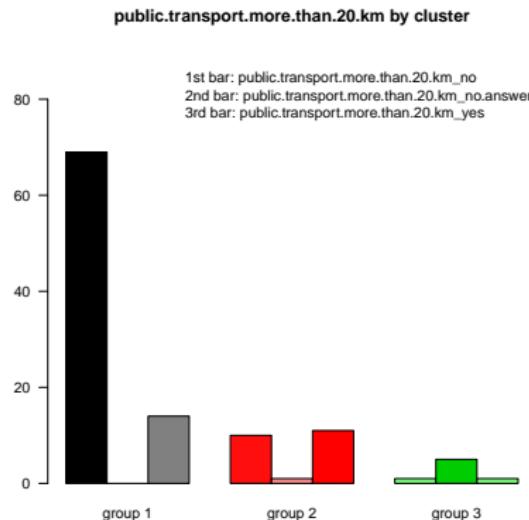


Figure: Variable public transport more than 20 km



How different are the groups?

Distribution of the individuals per cluster for the variable public.transport.5.to.20.km

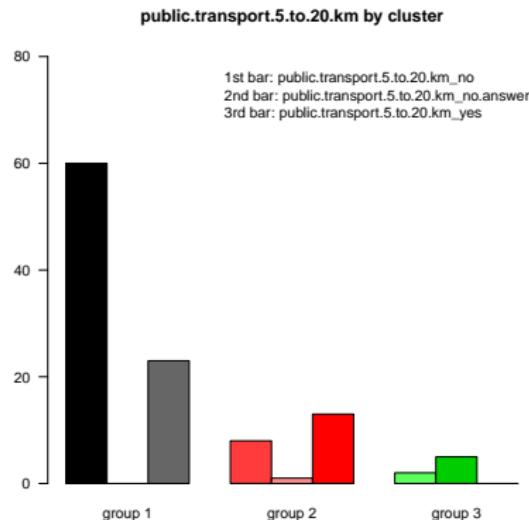


Figure: Variable public.transport.5 to 20 km





How different are the groups?

Distribution of the individuals per cluster for the variable public.transport.2.to.5.km

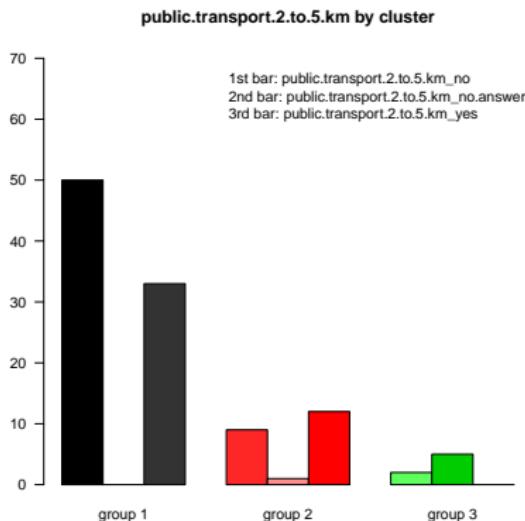


Figure: Variable public.transport.2.to.5.km





How different are the groups?

Distribution of the individuals per cluster for the variable public.transport.0.to.2.km

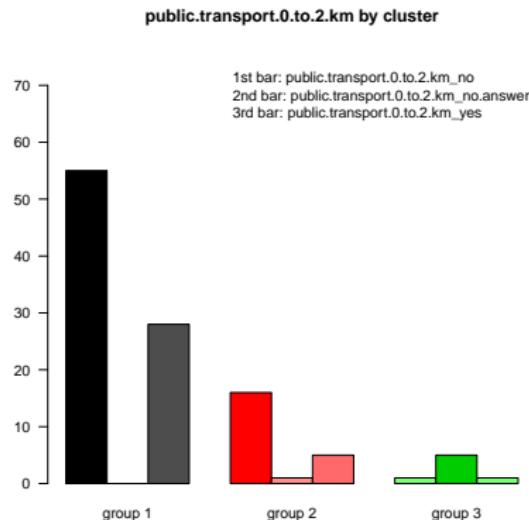


Figure: Variable public transport 0 to 2 km



How different are the groups?

Distribution of the individuals per cluster for the variable scooter.5.to.20.km

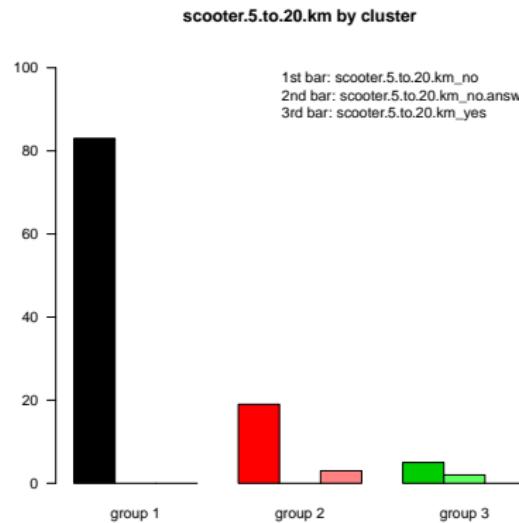


Figure: Variable scooter 5 to 20 km

A scatter plot with data points connected by a line. The x-axis is labeled 'N' and has tick marks from 1 to 10. The y-axis is labeled 'E' and has tick marks from 0 to 10. The data points are open circles, and a solid line is drawn through them.

N	E
1	0.5
2	1.5
3	2.5
4	3.5
5	4.5
6	5.5
7	6.5
8	7.5
9	8.5
10	9.5

How different are the groups?

Distribution of the individuals per cluster for the variable moto.5.to.20.km

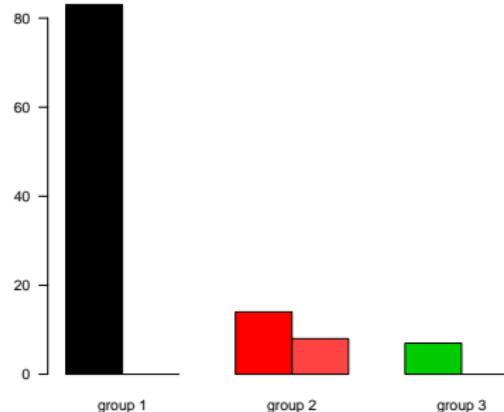


Figure: Variable moto.5.to.20.km



How can the groups be described?

Description of cluster 1 (1 / 7)

The following modalities are meaningful for cluster 1 :



how.often.do.you.use.the.motorcycle=how.often.do.you.use.the.motorcycle

91.07 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 1;

81.37 % individuals possessing this category belong to cluster 1



when.do.you.use.the.motorcycle=when.do.you.use.the.motorcycle_never

91.07 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 1;

81.37 % individuals possessing this category belong to cluster 1



moto.5.to.20.km=moto.5.to.20.km_no

92.86 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 1;

79.81 % individuals possessing this category belong to cluster 1



pub-

lic.transport.more.than.20.km=public.transport.more.than.20.km_no

71.43 % of the individuals possess this category in the global population versus 83.13% of the individuals within cluster 1;

86.25 % individuals possessing this category belong to cluster 1



moto.more.than.20.km=moto.more.than.20.km_no

93.75 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 1;

79.05 % individuals possessing this category belong to cluster 1



How can the groups be described?

Description of cluster 1 (2 / 7)

The following modalities are meaningful for cluster 1 :

- **walk.more.than.20.km=walk.more.than.20.km_no**

94.64 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 1;

78.3 % individuals possessing this category belong to cluster 1

-

- how.often.do.you.use.the.scooter=how.often.do.you.use.the.scooter_never**

94.64 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 1;

78.3 % individuals possessing this category belong to cluster 1

-

- when.do.you.use.the.scooter=when.do.you.use.the.scooter_never**

94.64 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 1;

78.3 % individuals possessing this category belong to cluster 1

- **go-**

- ing.to.leisure.by.motorcycle.1=going.to.leisure.by.motorcycle.1_no**

94.64 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 1;

78.3 % individuals possessing this category belong to cluster 1

- **go-**

- ing.to.leisure.by.motorcycle=going.to.leisure.by.motorcycle_no**

94.64 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 1;

78.3 % individuals possessing this category belong to cluster 1



How can the groups be described?

Description of cluster 1 (3 / 7)

The following modalities are meaningful for cluster 1 :

- **you.do.not.have.any.motorcycle=you.do.not.have.any.motorcycle_yes**
91.07 % of the individuals possess this category in the global population versus 97.59% of the individuals within cluster 1;
79.41 % individuals possessing this category belong to cluster 1
- **public.transport.5.to.20.km=public.transport.5.to.20.km_no**
62.5 % of the individuals possess this category in the global population versus 72.29% of the individuals within cluster 1;
85.71 % individuals possessing this category belong to cluster 1
- **buying.gasoline=supermarket**
78.57 % of the individuals possess this category in the global population versus 86.75% of the individuals within cluster 1;
81.82 % individuals possessing this category belong to cluster 1
- **scooter.5.to.20.km=scooter.5.to.20.km_no**
95.54 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 1;
77.57 % individuals possessing this category belong to cluster 1
- **scooter.not.for.me=scooter.not.for.me_yes**
53.57 % of the individuals possess this category in the global population versus 62.65% of the individuals within cluster 1;
86.67 % individuals possessing this category belong to cluster 1



How can the groups be described?

Description of cluster 1 (4 / 7)

The following modalities are meaningful for cluster 1 :

- **moto.2.to.5.km=moto.2.to.5.km_no**
93.75 % of the individuals possess this category in the global population versus 98.8% of the individuals within cluster 1;
78.1 % individuals possessing this category belong to cluster 1
- **moto.0.to.2.km=moto.0.to.2.km_yes**
89.29 % of the individuals possess this category in the global population versus 95.18% of the individuals within cluster 1;
79 % individuals possessing this category belong to cluster 1
- **regular.sport.practice=regular.sport.practice_yes**
55.36 % of the individuals possess this category in the global population versus 63.86% of the individuals within cluster 1;
85.48 % individuals possessing this category belong to cluster 1
- **buying.motor.cycle=buying.motor.cycle_no**
86.61 % of the individuals possess this category in the global population versus 92.77% of the individuals within cluster 1;
79.38 % individuals possessing this category belong to cluster 1
- **i.do.not.want.a.car=i.do.not.want.a.car_no**
96.43 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 1;
76.85 % individuals possessing this category belong to cluster 1



How can the groups be described?

Description of cluster 1 (5 / 7)

The following modalities are meaningful for cluster 1 :

- **scooter.2.to.5.km=scooter.2.to.5.km_no**

96.43 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 1;

76.85 % individuals possessing this category belong to cluster 1

- **motorcycle.not.for.me=motorcycle.not.for.me_yes**

53.57 % of the individuals possess this category in the global population versus 61.45% of the individuals within cluster 1;

85 % individuals possessing this category belong to cluster 1

- **walk.2.to.5.km=walk.2.to.5.km_no**

59.82 % of the individuals possess this category in the global population versus 67.47% of the individuals within cluster 1;

83.58 % individuals possessing this category belong to cluster 1

- **peo-**

ple.using.car.fell.guilty=people.using.car.fell.guilty_yes

25 % of the individuals possess this category in the global population versus 31.33% of the individuals within cluster 1;

92.86 % individuals possessing this category belong to cluster 1

-

how.often.do.you.use.the.car=how.often.do.you.use.the.car_few times

18.75 % of the individuals possess this category in the global population versus 24.1% of the individuals within cluster 1;

95.24 % individuals possessing this category belong to cluster 1



How can the groups be described?

Description of cluster 1 (6 / 7)

The following modalities are meaningful for cluster 1 :

- **`you.do.not.have.any.scooter=you.do.not.have.any.scooter_yes`**
93.75 % of the individuals possess this category in the global population versus 97.59% of the individuals within cluster 1;
77.14 % individuals possessing this category belong to cluster 1

- **`ticket.public.transport.season=ticket.public.transport.season_no`**
66.96 % of the individuals possess this category in the global population versus 73.49% of the individuals within cluster 1;
81.33 % individuals possessing this category belong to cluster 1

- **`walk.5.to.20.km=walk.5.to.20.km_no`**
86.61 % of the individuals possess this category in the global population versus 91.57% of the individuals within cluster 1;
78.35 % individuals possessing this category belong to cluster 1

- **`sit.on.the.fence=sit.on.the.fence_no`**
78.57 % of the individuals possess this category in the global population versus 84.34% of the individuals within cluster 1;
79.55 % individuals possessing this category belong to cluster 1

- **`when.do.you.use.the.car=when.do.you.use.the.car_weekend`**
42.86 % of the individuals possess this category in the global population versus 49.4% of the individuals within cluster 1;
85.42 % individuals possessing this category belong to cluster 1



How can the groups be described?

Description of cluster 1 (7 / 7)

The following modalities are meaningful for cluster 1 :

- **going.on.holidays.by.car=going.on.holidays.by.car_yes**
83.93 % of the individuals possess this category in the global population versus 89.16% of the individuals within cluster 1;
78.72 % individuals possessing this category belong to cluster 1
- **scooter.more.than.20.km=scooter.more.than.20.km_no**
97.32 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 1;
76.15 % individuals possessing this category belong to cluster 1
- **going.to.leisure.by.scooter=going.to.leisure.by.scooter_no**
97.32 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 1;
76.15 % individuals possessing this category belong to cluster 1
- **you.do.not.have.any.car=you.do.not.have.any.car_no**
80.36 % of the individuals possess this category in the global population versus 85.54% of the individuals within cluster 1;
78.89 % individuals possessing this category belong to cluster 1



How can the groups be described?

Description of cluster 2 (1 / 7)

The following modalities are meaningful for cluster 2 :

- **moto.5.to.20.km=moto.5.to.20.km_yes**

7.14 % of the individuals possess this category in the global population versus 36.36% of the individuals within cluster 2;

100 % individuals possessing this category belong to cluster 2

-

- you.do.not.have.any.motorcycle=you.do.not.have.any.motorcycle_no**

8.93 % of the individuals possess this category in the global population versus 36.36% of the individuals within cluster 2;

80 % individuals possessing this category belong to cluster 2

-

- how.often.do.you.use.the.car=how.often.do.you.use.the.car_never**

7.14 % of the individuals possess this category in the global population versus 31.82% of the individuals within cluster 2;

87.5 % individuals possessing this category belong to cluster 2

- **when.do.you.use.the.car=when.do.you.use.the.car_never**

9.82 % of the individuals possess this category in the global population versus 36.36% of the individuals within cluster 2;

72.73 % individuals possessing this category belong to cluster 2

- **go-**

- ing.to.leisure.by.motorcycle.1=going.to.leisure.by.motorcycle.1_yes**

4.46 % of the individuals possess this category in the global population versus 22.73% of the individuals within cluster 2;

100 % individuals possessing this category belong to cluster 2



How can the groups be described?

Description of cluster 2 (2 / 7)

The following modalities are meaningful for cluster 2 :

- go-

ing.to.leisure.by.motorcycle=going.to.leisure.by.motorcycle_yes

4.46 % of the individuals possess this category in the global population versus 22.73% of the individuals within cluster 2;

100 % individuals possessing this category belong to cluster 2

- **moto.0.to.2.km=moto.0.to.2.km_no**

10.71 % of the individuals possess this category in the global population versus 36.36% of the individuals within cluster 2;

66.67 % individuals possessing this category belong to cluster 2

- **buying.motor.cycle=buying.motor.cycle_yes**

11.61 % of the individuals possess this category in the global population versus 36.36% of the individuals within cluster 2;

61.54 % individuals possessing this category belong to cluster 2

- **moto.more.than.20.km=moto.more.than.20.km_yes**

3.57 % of the individuals possess this category in the global population versus 18.18% of the individuals within cluster 2;

100 % individuals possessing this category belong to cluster 2

-

how.often.do.you.use.the.motorcycle=how.often.do.you.use.the.motorcycle

3.57 % of the individuals possess this category in the global population versus 18.18% of the individuals within cluster 2;

100 % individuals possessing this category belong to cluster 2



How can the groups be described?

Description of cluster 2 (3 / 7)

The following modalities are meaningful for cluster 2 :

- **going.on.holidays.by.car=going.on.holidays.by.car_no**
16.07 % of the individuals possess this category in the global population versus 40.91% of the individuals within cluster 2;
50 % individuals possessing this category belong to cluster 2
- **you.do.not.have.any.car=you.do.not.have.any.car_yes**
19.64 % of the individuals possess this category in the global population versus 45.45% of the individuals within cluster 2;
45.45 % individuals possessing this category belong to cluster 2
- **pub-**
lic.transport.more.than.20.km=public.transport.more.than.20.km_yes
23.21 % of the individuals possess this category in the global population versus 50% of the individuals within cluster 2;
42.31 % individuals possessing this category belong to cluster 2
- **travel-**
ling.generally.by.public.transport=travelling.generally.by.public.ti
27.68 % of the individuals possess this category in the global population versus 54.55% of the individuals within cluster 2;
38.71 % individuals possessing this category belong to cluster 2
- **public.transport.5.to.20.km=public.transport.5.to.20.km_yes**
32.14 % of the individuals possess this category in the global population versus 59.09% of the individuals within cluster 2;
36.11 % individuals possessing this category belong to cluster 2



How can the groups be described?

Description of cluster 2 (4 / 7)

The following modalities are meaningful for cluster 2 :

- **buying.gasoline=service station**

21.43 % of the individuals possess this category in the global population versus 45.45% of the individuals within cluster 2;

41.67 % individuals possessing this category belong to cluster 2

- **carpool=carpool_yes**

25 % of the individuals possess this category in the global population versus 50% of the individuals within cluster 2;

39.29 % individuals possessing this category belong to cluster 2

- **car.0.to.2.km=car.0.to.2.km_yes**

15.18 % of the individuals possess this category in the global population versus 36.36% of the individuals within cluster 2;

47.06 % individuals possessing this category belong to cluster 2

- **i.do.not.want.a.car=i.do.not.want.a.car_yes**

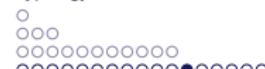
2.68 % of the individuals possess this category in the global population versus 13.64% of the individuals within cluster 2;

100 % individuals possessing this category belong to cluster 2

- **scooter.5.to.20.km=scooter.5.to.20.km_yes**

2.68 % of the individuals possess this category in the global population versus 13.64% of the individuals within cluster 2;

100 % individuals possessing this category belong to cluster 2



How can the groups be described?

Description of cluster 2 (5 / 7)

The following modalities are meaningful for cluster 2 :



how.often.do.you.use.the.motorcycle=how.often.do.you.use.the.motorcycle

2.68 % of the individuals possess this category in the global population versus 13.64% of the individuals within cluster 2;

100 % individuals possessing this category belong to cluster 2



how.often.do.you.use.the.scooter=how.often.do.you.use.the.scooter

2.68 % of the individuals possess this category in the global population versus 13.64% of the individuals within cluster 2;

100 % individuals possessing this category belong to cluster 2



when.do.you.use.the.motorcycle=when.do.you.use.the.motorcycle_weekend

2.68 % of the individuals possess this category in the global population versus 13.64% of the individuals within cluster 2;

100 % individuals possessing this category belong to cluster 2



when.do.you.use.the.motorcycle=when.do.you.use.the.motorcycle_all

2.68 % of the individuals possess this category in the global population versus 13.64% of the individuals within cluster 2;

100 % individuals possessing this category belong to cluster 2



when.do.you.use.the.scooter=when.do.you.use.the.scooter_weekend

2.68 % of the individuals possess this category in the global population versus 13.64% of the individuals within cluster 2;



How can the groups be described?

Description of cluster 2 (6 / 7)

The following modalities are meaningful for cluster 2 :

- **`motorcycle.convenient=motorcycle.convenient_yes`**
16.07 % of the individuals possess this category in the global population versus 36.36% of the individuals within cluster 2;
44.44 % individuals possessing this category belong to cluster 2
- **`you.do.not.have.any.bike=you.do.not.have.any.bike_yes`**
19.64 % of the individuals possess this category in the global population versus 40.91% of the individuals within cluster 2;
40.91 % individuals possessing this category belong to cluster 2
- **`scooter.not.for.me=scooter.not.for.me_no`**
43.75 % of the individuals possess this category in the global population versus 68.18% of the individuals within cluster 2;
30.61 % individuals possessing this category belong to cluster 2
- **`regular.sport.practice=regular.sport.practice_no`**
44.64 % of the individuals possess this category in the global population versus 68.18% of the individuals within cluster 2;
30 % individuals possessing this category belong to cluster 2
- **`motorcycle.not.for.me=motorcycle.not.for.me_no`**
44.64 % of the individuals possess this category in the global population versus 68.18% of the individuals within cluster 2;
30 % individuals possessing this category belong to cluster 2



How can the groups be described?

Description of cluster 2 (7 / 7)

The following modalities are meaningful for cluster 2 :

- **doing.the.shopping.by.car=doing.the.shopping.by.car_no**
28.57 % of the individuals possess this category in the global population versus 50% of the individuals within cluster 2;
34.38 % individuals possessing this category belong to cluster 2
- **going.to.leisure.by.car=going.to.leisure.by.car_no**
41.07 % of the individuals possess this category in the global population versus 63.64% of the individuals within cluster 2;
30.43 % individuals possessing this category belong to cluster 2
- **moto.2.to.5.km=moto.2.to.5.km_yes**
3.57 % of the individuals possess this category in the global population versus 13.64% of the individuals within cluster 2;
75 % individuals possessing this category belong to cluster 2
- **when.do.you.use.the.motorcycle=when.do.you.use.the.motorcycle_no.an**
3.57 % of the individuals possess this category in the global population versus 13.64% of the individuals within cluster 2;
75 % individuals possessing this category belong to cluster 2



How can the groups be described?

Description of cluster 3 (1 / 5)

The following modalities are meaningful for cluster 3 :

- **`walk.more.than.20.km=walk.more.than.20.km_no.answer`**

5.36 % of the individuals possess this category in the global population versus 85.71% of the individuals within cluster 3;

100 % individuals possessing this category belong to cluster 3

- **`walk.5.to.20.km=walk.5.to.20.km_no.answer`**

5.36 % of the individuals possess this category in the global population versus 85.71% of the individuals within cluster 3;

100 % individuals possessing this category belong to cluster 3

- **`walk.2.to.5.km=walk.2.to.5.km_no.answer`**

5.36 % of the individuals possess this category in the global population versus 85.71% of the individuals within cluster 3;

100 % individuals possessing this category belong to cluster 3

- **`walk.0.to.2.km=walk.0.to.2.km_no.answer`**

5.36 % of the individuals possess this category in the global population versus 85.71% of the individuals within cluster 3;

100 % individuals possessing this category belong to cluster 3

- **pub-**

`lic.transport.more.than.20.km=public.transport.more.than.20.km_no.answer`

5.36 % of the individuals possess this category in the global population versus 71.43% of the individuals within cluster 3;

83.33 % individuals possessing this category belong to cluster 3



How can the groups be described?

Description of cluster 3 (2 / 5)

The following modalities are meaningful for cluster 3 :

- pub-

lic.transport.5.to.20.km=public.transport.5.to.20.km_no.answer

5.36 % of the individuals possess this category in the global population versus 71.43% of the individuals within cluster 3;

83.33 % individuals possessing this category belong to cluster 3

- pub-

lic.transport.2.to.5.km=public.transport.2.to.5.km_no.answer

5.36 % of the individuals possess this category in the global population versus 71.43% of the individuals within cluster 3;

83.33 % individuals possessing this category belong to cluster 3

- pub-

lic.transport.0.to.2.km=public.transport.0.to.2.km_no.answer

5.36 % of the individuals possess this category in the global population versus 71.43% of the individuals within cluster 3;

83.33 % individuals possessing this category belong to cluster 3

- when.do.you.walk=when.do.you.walk_no.answer

10.71 % of the individuals possess this category in the global population versus 71.43% of the individuals within cluster 3;

41.67 % individuals possessing this category belong to cluster 3

- how.often.do.you.walk=how.often.do.you.walk_no.answer

9.82 % of the individuals possess this category in the global population versus 57.14% of the individuals within cluster 3;

36.36 % individuals possessing this category belong to cluster 3



How can the groups be described?

Description of cluster 3 (3 / 5)

The following modalities are meaningful for cluster 3 :

- go-

ing.to.work.or.school.by.car=going.to.work.or.school.by.car_yes

44.64 % of the individuals possess this category in the global population versus 100% of the individuals within cluster 3;

14 % individuals possessing this category belong to cluster 3

- peo-

ple.using.car.fell.guilty=people.using.car.fell.guilty_no.answer

1.79 % of the individuals possess this category in the global population versus 28.57% of the individuals within cluster 3;

100 % individuals possessing this category belong to cluster 3

- scooter.more.than.20.km=scooter.more.than.20.km_no.answer

1.79 % of the individuals possess this category in the global population versus 28.57% of the individuals within cluster 3;

100 % individuals possessing this category belong to cluster 3

- scooter.5.to.20.km=scooter.5.to.20.km_no.answer

1.79 % of the individuals possess this category in the global population versus 28.57% of the individuals within cluster 3;

100 % individuals possessing this category belong to cluster 3

- scooter.2.to.5.km=scooter.2.to.5.km_no.answer

1.79 % of the individuals possess this category in the global population versus 28.57% of the individuals within cluster 3;

100 % individuals possessing this category belong to cluster 3



How can the groups be described?

Description of cluster 3 (4 / 5)

The following modalities are meaningful for cluster 3 :



you.do.not.have.any.scooter=you.do.not.have.any.scooter_no.answer
1.79 % of the individuals possess this category in the global population versus 28.57% of the individuals within cluster 3;

100 % individuals possessing this category belong to cluster 3



21.43 % of the individuals possess this category in the global population versus 71.43% of the individuals within cluster 3;

20.83 % individuals possessing this category belong to cluster 3



global.ecological.emergency=global.ecological.emergency_no.answer
2.68 % of the individuals possess this category in the global population versus 28.57% of the individuals within cluster 3;

66.67 % individuals possessing this category belong to cluster 3



2.68 % of the individuals possess this category in the global population versus 28.57% of the individuals within cluster 3;

66.67 % individuals possessing this category belong to cluster 3



2.68 % of the individuals possess this category in the global population versus 28.57% of the individuals within cluster 3;

66.67 % individuals possessing this category belong to cluster 3



How can the groups be described?

Description of cluster 3 (5 / 5)

The following modalities are meaningful for cluster 3 :

- **bike.more.than.20.km=bike.more.than.20.km_no.answer**
2.68 % of the individuals possess this category in the global population versus 28.57% of the individuals within cluster 3;
66.67 % individuals possessing this category belong to cluster 3
- **drive.estate.car=drive.estate.car_yes**
25 % of the individuals possess this category in the global population versus 71.43% of the individuals within cluster 3;
17.86 % individuals possessing this category belong to cluster 3