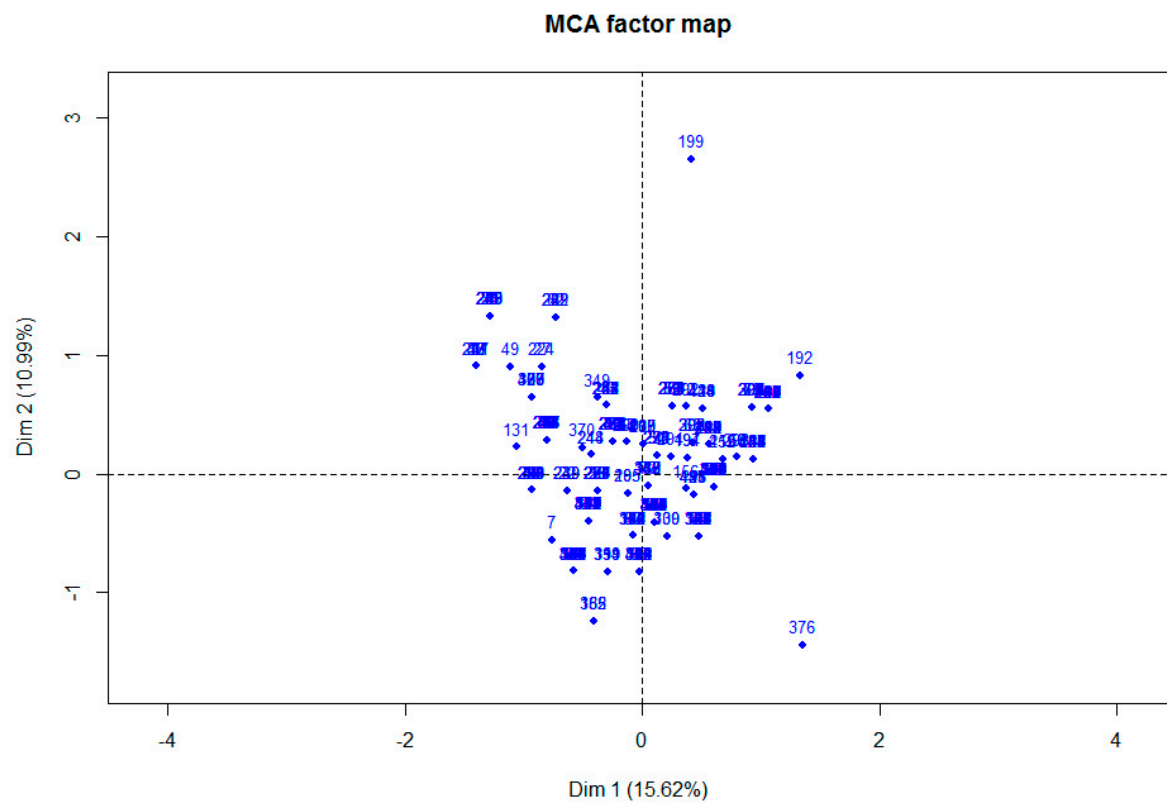
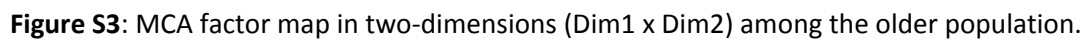


**Figure S1:** MCA factor map in two-dimensions (Dim1 x Dim2) among the young population.



**Figure S2:** MCA factor map in two-dimensions (Dim1 x Dim2) among the middle-age population.



**Table S1a:** Description of the **profile 1** among the youngest (18–29 years)

<b>Variable:</b> <i>modality</i>	Cla/Mod <sup>‡</sup>	Mod/Cla <sup>¥</sup>	Global <sup>§</sup>	<i>p</i> value
<b>Travel mean:</b> <i>Car</i>	55.81	77.42	29.45	<0.00001
<b>Perceived Air quality:</b> <i>Totally agree</i>	58.33	67.74	24.66	<0.00001
<b>Housing:</b> <i>House</i>	57.14	51.61	19.18	<0.00001
<b>Satisfaction with the residential place:</b> <i>Totally agree</i>	36.92	77.42	44.52	<0.0001
<b>Living in another place:</b> <i>No</i>	32.10	83.87	55.48	<0.001
<b>Gender:</b> <i>Man</i>	32.43	77.42	50.68	<0.001
<b>Work location:</b> <i>In a municipality not in the Rhône-Alpes department</i>	39.53	54.84	29.45	<0.001
<b>Work location:</b> <i>Other place of work</i>	100.00	12.90	2.74	<0.01
<b>Occupational status:</b> <i>Employed</i>	32.81	67.74	43.84	<0.01
<b>Number years living in Lyon:</b> <i>&gt;10 years</i>	27.78	80.65	61.64	<0.05
<b>Respiratory health problem:</b> <i>No</i>	25.47	87.10	72.60	<0.05
<b>Level of Education:</b> <i>Baccalaureat</i>	0.00	0.00	10.27	<0.05
<b>Heating mode:</b> <i>Electric</i>	10.20	16.13	33.56	<0.05
<b>Respiratory health problem:</b> <i>Yes</i>	7.69	9.68	26.71	<0.05
<b>Number years living in Lyon:</b> <i>5–9 years</i>	3.85	3.23	17.81	<0.05
<b>Work location:</b> <i>In the municipality of residence</i>	11.27	25.81	48.63	<0.01
<b>Living in another place:</b> <i>Yes</i>	8.77	16.13	39.04	<0.01

<b>Perceived Air quality:</b> <i>Not agree</i>	5.13	6.45	26.71	<0.01
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**Table S1b:** Description of the **profile 2** among the youngest (18–29 years)

<b>Variable:</b> <i>modality</i>	Cla/Mod <sup>φ</sup>	Mod/Cla <sup>¥</sup>	Global <sup>\$</sup>	<i>p</i> value
<b>Living in another place:</b> <i>Yes</i>	61.40	81.40	39.04	<0.00001
<b>Occupational status:</b> <i>Employed</i>	56.25	83.72	43.84	<0.00001
<b>Number years living in Lyon:</b> <i>5–9 years</i>	76.92	46.51	17.81	<0.00001
<b>Housing:</b> <i>Apartment</i>	36.44	100.00	80.82	<0.0001
<b>Travel mean:</b> <i>Bicycle</i>	84.62	25.58	8.90	<0.0001
<b>Perceived Air quality:</b> <i>not agree</i>	56.41	51.16	26.71	<0.0001
<b>Family status:</b> <i>Live with partner without children</i>	65.22	34.88	15.75	<0.001
<b>Satisfaction with the residential place:</b> <i>Not agree</i>	100.00	16.28	4.79	<0.001
<b>Level of education:</b> <i>High</i>	61.11	25.58	12.33	<0.01
<b>Family status:</b> <i>Live alone without children</i>	57.89	25.58	13.01	<0.01
<b>Occupation:</b> <i>Tradespeople-Shopkeepers</i>	100.00	9.30	2.74	<0.01
<b>Occupation:</b> <i>Employees</i>	50.00	34.88	20.55	<0.01
<b>Level of education:</b> <i>Low</i>	6.25	2.33	10.96	<0.05
<b>Occupational status:</b> <i>Unemployed</i>	0.00	0.00	8.22	<0.05
<b>Level of education:</b> <i>Baccalaureat</i>	0.00	0.00	8.22	<0.05

<b>Satisfaction with the residential place:</b> <i>Totally agree</i>	15.38	23.26	44.52	<0.001
<b>Occupational status:</b> <i>Student</i>	12.07	16.28	39.73	<0.001
<b>Perceived Air quality:</b> <i>Totally agree</i>	5.56	4.65	24.66	<0.001

**Table S1c:** Description of the **profile 3** among the youngest (18–29 years)

<b>Variable:</b> <i>modality</i>	Cla/Mod <sup>♢</sup>	Mod/Cla <sup>¥</sup>	Global <sup>§</sup>	<i>p</i> value
<b>Occupational status:</b> <i>Student</i>	70.69	85.42	39.73	<0.00001
<b>Family status:</b> <i>With parent</i>	56.96	93.75	54.11	<0.00001
<b>Occupation:</b> <i>Missing value</i>	59.42	85.42	47.26	<0.00001
<b>Travel mean:</b> <i>Public transport</i>	63.46	68.75	35.62	<0.00001
<b>Number years living in Lyon :</b> <i>&gt;10 years</i>	46.67	87.50	61.64	<0.00001
<b>Work location:</b> <i>In the municipality of residence</i>	50.70	75.00	48.63	<0.00001
<b>Level of education:</b> <i>Low</i>	75.00	25.00	10.96	<0.001
<b>Level of education:</b> <i>Baccalaureat</i>	73.33	22.92	10.27	<0.001
<b>Respiratory health problem:</b> <i>Yes</i>	48.72	39.58	26.71	<0.05
<b>Travel mean:</b> <i>Bicycle</i>	7.69	2.08	8.90	<0.05
<b>Level of education:</b> <i>High</i>	11.11	4.17	12.33	<0.05
<b>Occupation:</b> <i>Employee</i>	16.67	10.42	20.55	<0.05

<b>Respiratory health problem:</b> <i>No</i>	27.36	60.42	72.60	<0.05
<b>Occupation:</b> <i>Manual worker</i>	6.67	2.08	10.27	<0.05
<b>Occupation:</b> <i>Manager</i>	0.00	0.00	7.53	<0.05
<b>Occupation:</b> <i>Non-manual worker</i>	5.88	2.08	11.64	<0.01
<b>Occupational status:</b> <i>unemployed</i>	0.00	0.00	8.22	<0.01
<b>Travel mean:</b> <i>Car</i>	16.28	14.58	29.45	<0.01
<b>Living in another place:</b> <i>Yes</i>	19.30	22.92	39.04	<0.01
<b>Family status:</b> <i>Live alone without children</i>	5.26	2.08	13.01	<0.01
<b>Family status:</b> <i>Live with partner with children</i>	0.00	0.00	12.33	<0.001
<b>Number years living in Lyon:</b> <i>5–9 years</i>	3.85	2.08	17.81	<0.001
<b>Family status:</b> <i>Live with partner without children</i>	0.00	0.00	15.75	<0.0001

**Table S1d:** Description of the **profile 4** among the youngest (18–29 years)

<b>Variable: modality</b>	<b>Cla/Mod<sup>‡</sup></b>	<b>Mod/Cla<sup>‡</sup></b>	<b>Global<sup>§</sup></b>	<b>p value</b>
<b>Work location: Missing value</b>	100.00	100.00	16.44	<0.00001
<b>Travel mean: Missing value</b>	96.00	100.00	17.12	<0.00001
<b>Occupational status: Unemployed</b>	100.00	50.00	8.22	<0.00001
<b>Occupational status: Inactive</b>	100.00	16.67	2.74	<0.001
<b>Family status: Live with partner with children</b>	44.44	33.33	12.33	<0.001
<b>Level of education: Baccalaureat</b>	50.00	25.00	8.22	<0.01
<b>Level of education: Low</b>	57.14	16.67	4.79	<0.05
<b>Occupation: Manual worker</b>	40.00	25.00	10.27	<0.05
<b>Perceived Air quality: Somewhat agree</b>	24.24	66.67	45.21	<0.05
<b>Family status: Live alone without children</b>	0.00	0.00	13.01	<0.05
<b>Heating mode: Gas</b>	9.76	33.33	56.16	<0.05
<b>Travel mean: Car</b>	0.00	0.00	29.45	<0.00001
<b>Location of work: In a municipality not in the Rhône-Alpes department</b>	0.00	0.00	29.45	<0.00001
<b>Travel mean: Public transport</b>	0.00	0.00	35.62	<0.00001
<b>Occupational status: Student</b>	0.00	0.00	39.73	<0.00001
<b>Occupational status: Employed</b>	0.00	0.00	43.84	<0.00001

<b>Location of work:</b> <i>In my residential municipality</i>	0.00	0.00	48.63	<0.00001
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Legend: <sup>φ</sup> Percentage of individuals with the modality belonging to the profile; <sup>¥</sup> Percentage of individuals of the profile with the modality; <sup>§</sup> Percentage of the modality among the oldest.

**Table S2a:** Description of the **profile 1** among the middle age (ages 30 to 59)

<b>Variable:</b> <i>modality</i>	Cla/Mod <sup>φ</sup>	Mod/Cla <sup>¥</sup>	Global <sup>§</sup>	<i>p</i> value
<b>Travel mean:</b> <i>Car</i>	50.53	79.34	40.51	<0.00001
<b>Occupation:</b> <i>Manager</i>	68.42	53.72	20.26	<0.00001
<b>Occupational status:</b> <i>Employed</i>	33.52	100.00	76.97	<0.00001
<b>Level of education:</b> <i>High</i>	50.00	48.76	25.16	<0.00001
<b>Housing:</b> <i>House</i>	47.29	50.41	27.51	<0.00001
<b>Work location:</b> <i>In a municipality not in the Rhône-Alpes department</i>	41.46	56.20	34.97	<0.00001
<b>Work location:</b> <i>Other place of work</i>	70.83	14.05	5.12	<0.00001
<b>Knowledge about air quality:</b> <i>Yes</i>	38.22	49.59	33.48	<0.0001
<b>Gender:</b> <i>Man</i>	35.50	58.68	42.64	<0.0001
<b>Level of education:</b> <i>Intermediate</i>	48.78	16.53	8.74	<0.001
<b>Travel mean:</b> <i>Motorbike</i>	85.71	4.96	1.49	<0.01
<b>Living in another place:</b> <i>No</i>	31.20	68.60	56.72	<0.01
<b>Family status:</b> <i>Live with partner with children</i>	31.71	64.46	52.45	<0.01
<b>Occupation:</b> <i>Tradespeople-Shopkeepers</i>	54.55	9.92	4.69	<0.01



<b>Satisfaction with the residential place:</b> <i>Totally agree</i>	32.80	50.41	39.66	<0.01
<b>Perceived Air quality:</b> <i>Totally agree</i>	37.36	28.10	19.40	<0.01
<b>Occupational status:</b> <i>Retired</i>	0.00	0.00	2.99	<0.05
<b>Living in another place:</b> <i>Yes</i>	18.92	28.93	39.45	<0.01
<b>Level of education:</b> <i>Baccalaureat</i>	7.50	2.48	8.53	<0.01
<b>Family status:</b> <i>Live alone without children</i>	11.43	6.61	14.93	<0.01
<b>Perceived Air quality:</b> <i>Not agree</i>	14.81	16.53	28.78	<0.001
<b>Satisfaction with the residential place:</b> <i>Not agree</i>	2.78	0.83	7.68	<0.001
<b>Occupation:</b> <i>Manual worker</i>	7.94	4.13	13.43	<0.001
<b>Level of education:</b> <i>Low</i>	10.23	7.44	18.76	<0.0001
<b>Travel mean:</b> <i>Public transport</i>	1.52	0.83	14.07	<0.00001
<b>Housing:</b> <i>Apartment</i>	17.40	48.76	72.28	<0.00001
<b>Occupation:</b> <i>Employee</i>	1.77	1.65	24.09	<0.00001

**Table S2b:** Description of the **profile 2** among the middle age (ages 30 to 59)

<b>Variable: modality</b>	<b>Cla/Mod <sup>φ</sup></b>	<b>Mod/Cla <sup>¥</sup></b>	<b>Global <sup>§</sup></b>	<b>p value</b>
<b>Work location:</b> <i>In the municipality of residence</i>	63.43	68.55	28.57	<0.00001
<b>Housing:</b> <i>House</i>	35.40	96.77	72.28	<0.00001
<b>Occupational status:</b> <i>Employed</i>	33.80	98.39	76.97	<0.00001
<b>Perceived Air quality:</b> <i>Not agree</i>	49.63	54.03	28.78	<0.00001
<b>Living in another place:</b> <i>Yes</i>	43.78	65.32	39.45	<0.00001
<b>Travel mean:</b> <i>By foot</i>	64.10	20.16	8.32	<0.00001
<b>Occupation:</b> <i>Non-manual worker</i>	45.05	40.32	23.67	<0.00001
<b>Satisfaction with the residential place:</b> <i>Somewhat agree</i>	35.37	70.16	52.45	<0.00001
<b>Satisfaction with the residential place:</b> <i>Not agree</i>	58.33	16.94	7.68	<0.0001
<b>Level of education:</b> <i>Intermediate</i>	43.16	33.06	20.26	<0.0001
<b>Travel mean:</b> <i>Public transport</i>	46.97	25.00	14.07	<0.001
<b>Travel mean:</b> <i>Bicycle</i>	65.00	10.48	4.26	<0.001
<b>Respiratory health problem:</b> <i>Yes</i>	37.19	36.29	25.80	<0.01
<b>Level of education:</b> <i>Baccalaureat</i>	83.33	4.03	1.28	<0.01
<b>Occupational status:</b> <i>Retired</i>	0.00	0.00	2.99	<0.05
<b>Level of education:</b> <i>Low</i>	4.17	0.81	5.12	<0.01
<b>Respiratory health problem:</b> <i>No</i>	22.67	62.90	73.35	<0.01

<b>Heating mode:</b> <i>Wood</i>	0.00	0.00	5.12	<0.001
<b>Work location:</b> <i>In a municipality of the Rhône-Alpes department</i>	15.85	20.97	34.97	<0.001
<b>Occupational status:</b> <i>Unemployed</i>	0.00	0.00	8.53	<0.00001
<b>Occupational status:</b> <i>Inactive</i>	0.00	0.00	9.17	<0.00001
<b>Living in another place:</b> <i>No</i>	13.91	29.84	56.72	<0.00001
<b>Satisfaction with the residential place:</b> <i>Totally agree</i>	8.60	12.90	39.66	<0.00001
<b>Perceived Air quality:</b> <i>Totally agree</i>	0.00	0.00	19.40	<0.00001
<b>Housing:</b> <i>House</i>	3.10	3.23	27.51	<0.00001

**Table S2c:** Description of the **profile 3** among the middle age (ages 30 to 59)

<b>Variable: modality</b>	Cla/Mod <sup>φ</sup>	Mod/Cla <sup>¥</sup>	Global <sup>§</sup>	<i>p</i> value
<b>Occupation:</b> <i>Employee</i>	61.06	57.02	24.09	<0.00001
<b>Occupational status:</b> <i>Employed</i>	32.69	97.52	76.97	<0.00001
<b>Work location:</b> <i>In the municipality of residence</i>	42.68	57.85	34.97	<0.00001
<b>Work location:</b> <i>At home</i>	68.75	18.18	6.82	<0.00001
<b>Living in another place:</b> <i>No</i>	34.59	76.03	56.72	<0.00001
<b>Level of education:</b> <i>Low</i>	47.73	34.71	18.76	<0.00001
<b>Occupation:</b> <i>Manual worker</i>	52.38	27.27	13.43	<0.00001

<b>Travel mean: <i>Public transport</i></b>	51.52	28.10	14.07	<0.00001
<b>Level of education: <i>Baccalaureat</i></b>	60.00	19.83	8.53	<0.00001
<b>Satisfaction with the residential place: <i>Totally agree</i></b>	37.10	57.02	39.66	<0.00001
<b>Perceived Air quality: <i>Totally agree</i></b>	43.96	33.06	19.40	<0.0001
<b>Heating mode: <i>Other</i></b>	70.59	9.92	3.62	<0.001
<b>Respiratory health problem: <i>No</i></b>	29.36	83.47	73.35	<0.01
<b>Work location: <i>Other place of work</i></b>	4.17	0.83	5.12	<0.01
<b>Respiratory health problem: <i>Yes</i></b>	15.70	15.70	25.80	<0.01
<b>Level of education: <i>Intermediate</i></b>	12.63	9.92	20.26	<0.001
<b>Occupational status: <i>Unemployed</i></b>	5.00	1.65	8.53	<0.001
<b>Satisfaction with the residential place: <i>Somewhat agree</i></b>	19.11	38.84	52.45	<0.001
<b>Occupation: <i>non manual worker</i></b>	12.61	11.57	23.67	<0.001
<b>Occupational status: <i>Inactive</i></b>	0.00	0.00	9.17	<0.00001
<b>Living in another place: <i>Yes</i></b>	13.51	20.66	39.45	<0.00001
<b>Perceived Air quality: <i>Not agree</i></b>	9.63	10.74	28.78	<0.00001
<b>Level of education: <i>High</i></b>	7.63	7.44	25.16	<0.00001
<b>Occupation: <i>Manager</i></b>	2.11	1.65	20.26	<0.00001

**Table S2d:** Description of the **profile 4** among the middle age (ages 30 to 59)

<b>Variable: modality</b>	<b>Cla/Mod <sup>φ</sup></b>	<b>Mod/Cla <sup>¥</sup></b>	<b>Global <sup>§</sup></b>	<b>p value</b>
<b>Work location: Missing value</b>	96.23	100.00	22.60	<0.00001
<b>Travel mean: Missing value</b>	74.45	100.00	29.21	<0.00001
<b>Occupation: Missing value</b>	93.85	59.80	13.86	<0.00001
<b>Occupational status: Inactive</b>	100.00	42.16	9.17	<0.00001
<b>Occupational status: Unemployed</b>	95.00	37.25	8.53	<0.00001
<b>Occupational status: Retired</b>	100.00	13.73	2.99	<0.00001
<b>Level of education: Low</b>	54.17	12.75	5.12	<0.001
<b>Knowledge about air quality: Yes</b>	15.29	23.53	33.48	<0.05
<b>Travel mean: Bicycle</b>	0.00	0.00	4.26	<0.01
<b>Work location: Other place of work</b>	0.00	0.00	5.12	<0.01
<b>Work location: At home</b>	0.00	0.00	6.82	<0.001
<b>Occupation: Non-manual worker</b>	9.01	9.80	23.67	<0.0001
<b>Travel mean: By foot</b>	0.00	0.00	8.32	<0.0001
<b>Occupation: Manager</b>	7.37	6.86	20.26	<0.0001
<b>Occupation: Employee</b>	6.19	6.86	24.09	<0.00001
<b>Travel mean: Public transport</b>	0.00	0.00	14.07	<0.00001

<b>Work location:</b> <i>In the municipality of residence</i>	0.00	0.00	28.57	<0.00001
<b>Work location:</b> <i>In a municipality of the Rhône-Alpes department</i>	0.00	0.00	34.97	<0.00001
<b>Travel mean:</b> <i>Car</i>	0.00	0.00	40.51	<0.00001
<b>Occupational status:</b> <i>Employed</i>	0.00	0.00	76.97	<0.00001

Legend: <sup>‡</sup> Percentage of individuals with the modality belonging to the profile; <sup>¥</sup> Percentage of individuals of the profile with the modality; <sup>§</sup> Percentage of the modality among the oldest.

**Table S3a:** Description of the **profile 1** among the oldest ( $\geq 60$  years)

<b>Variable:</b> <i>modality</i>	Cla/Mod <sup>‡</sup>	Mod/Cla <sup>¥</sup>	Global <sup>§</sup>	<i>p</i> value
<b>Work location:</b> <i>Missing value</i>	100.00	100.00	91.05	<0.00001
<b>Occupation:</b> <i>Missing value</i>	100.00	99.71	90.79	<0.00001
<b>Travel mean:</b> <i>Missing value</i>	99.14	100.00	91.84	<0.00001
<b>Occupational status:</b> <i>Retired</i>	100.00	93.35	85.00	<0.00001
<b>Level of education:</b> <i>Low</i>	98.39	17.63	16.32	<0.05
<b>Perceived Air quality:</b> <i>Totally agree</i>	94.06	59.54	57.63	<0.05
<b>Perceived Air quality:</b> <i>Somewhat agree</i>	86.33	34.68	36.58	<0.05
<b>Work location:</b> <i>At home</i>	0.00	0.00	0.79	<0.001
<b>Occupation:</b> <i>Tradespeople - Shopkeepers</i>	0.00	0.00	0.79	<0.001
<b>Work location:</b> <i>other place of work</i>	0.00	0.00	1.32	<0.00001

<b>Work location:</b> <i>In a municipality not in the Rhône-Alpes department</i>	0.00	0.00	1.58	<0.00001
<b>Occupation:</b> <i>Manual worker</i>	0.00	0.00	1.58	<0.00001
<b>Occupation:</b> <i>Non-manual worker</i>	12.50	0.29	2.11	<0.00001
<b>Travel mean:</b> <i>Public transport</i>	0.00	0.00	2.11	<0.00001
<b>Travel mean:</b> <i>by foot</i>	0.00	0.00	2.11	<0.00001
<b>Occupation:</b> <i>Employee</i>	0.00	0.00	2.11	<0.00001
<b>Occupation:</b> <i>Manager</i>	0.00	0.00	2.63	<0.00001
<b>Travel mean:</b> <i>Car</i>	0.00	0.00	3.42	<0.00001
<b>Work location:</b> <i>In the municipality of residence</i>	0.00	0.00	5.00	<0.00001
<b>Occupational status:</b> <i>Employed</i>	0.00	0.00	8.95	<0.00001

**Table S3b:** Description of the **profile 2** among the oldest ( $\geq 60$  years)

<b>Variable: modality</b>	<b>Cla/Mod <sup>†</sup></b>	<b>Mod/Cla <sup>‡</sup></b>	<b>Global <sup>§</sup></b>	<b>p value</b>
<b>Satisfaction with the residential place: <i>Totally agree</i></b>	48.96	94.95	59.44	<0.00001
<b>Perceived Air quality: <i>Totally agree</i></b>	72.84	59.60	25.08	<0.00001
<b>Living in another place: <i>No</i></b>	35.13	98.99	86.38	<0.00001
<b>Cardiovascular health problem: <i>No</i></b>	36.58	94.95	79.57	<0.00001
<b>Respiratory health problem: <i>No</i></b>	37.07	86.87	71.83	<0.0001
<b>Level of education: <i>Low</i></b>	55.10	27.27	15.17	<0.001
<b>Knowledge about air quality: <i>No</i></b>	34.85	92.93	81.73	<0.001
<b>Level of education: <i>Baccalaureat</i></b>	87.50	7.07	2.48	<0.01
<b>Heating mode: <i>Other</i></b>	71.43	10.10	4.33	<0.01
<b>Heating mode: <i>Electric</i></b>	17.81	13.13	22.60	<0.01
<b>Satisfaction with the residential place: <i>Not agree</i></b>	0.00	0.00	4.33	<0.01
<b>Family status: <i>With partner with children</i></b>	0.00	0.00	5.57	<0.01
<b>Perceived Air quality: <i>Not agree</i></b>	10.53	6.06	17.65	<0.001
<b>Knowledge about air quality: <i>Yes</i></b>	8.77	5.05	17.65	<0.0001
<b>Respiratory health problem: <i>Yes</i></b>	13.33	12.12	27.86	<0.0001
<b>Living in another place: <i>Yes</i></b>	2.63	1.01	11.76	<0.00001



<b>Level of education:</b> <i>Low</i>	6.78	4.04	18.27	<0.00001
<b>Cardiovascular health problem:</b> <i>Yes</i>	7.58	5.05	20.43	<0.00001
<b>Perceived Air quality:</b> <i>Somewhat agree</i>	16.77	27.27	49.85	<0.00001
<b>Satisfaction with the residential place:</b> <i>Somewhat agree</i>	3.51	4.04	35.29	<0.00001

**Table S3c:** Description of the **profile 3** among the oldest ( $\geq 60$  years)

<b>Variable:</b> <i>modality</i>	Cla/Mod $\phi$	Mod/Cla $\psi$	Global $\$$	<i>p</i> value
<b>Gender:</b> <i>man</i>	48.67	86.90	46.44	<0.00001
<b>Knowledge about air quality:</b> <i>Yes</i>	64.91	44.05	17.65	<0.00001
<b>Family status:</b> <i>With partner without children</i>	37.74	71.43	49.23	<0.00001
<b>Family status:</b> <i>With partner with children</i>	77.78	16.67	5.57	<0.00001
<b>Housing:</b> <i>House</i>	43.96	47.62	28.17	<0.00001
<b>Satisfaction with the residential place:</b> <i>Somewhat agree</i>	40.35	54.76	35.29	<0.0001
<b>Level of education:</b> <i>Intermediate</i>	53.13	20.24	9.91	<0.001
<b>Level of education:</b> <i>High</i>	47.62	23.81	13.00	<0.01
<b>Respiratory health problem:</b> <i>No</i>	30.17	83.33	71.83	<0.01
<b>Heating mode:</b> <i>Gas</i>	30.53	69.05	58.82	<0.05
<b>Perceived Air quality:</b> <i>Somewhat agreed</i>	31.06	59.52	49.85	<0.05
<b>Heating mode:</b> <i>Other</i>	0.00	0.00	4.33	<0.05

<b>Respiratory health problem: Yes</b>	15.56	16.67	27.86	<0.01
<b>Satisfaction with the residential place: Totally agree</b>	19.27	44.05	59.44	<0.001
<b>Level of education: Low</b>	8.16	4.76	15.17	<0.001
<b>Housing: Apartment</b>	18.97	52.38	71.83	<0.00001
<b>Knowledge about air quality: No</b>	17.80	55.95	81.73	<0.00001
<b>Family status: Live alone without children</b>	7.19	11.90	43.03	<0.00001

**Table S3d:** Description of the **profile 4** among the oldest ( $\geq 60$  years)

<b>Variable: modality</b>	<b>Cla/Mod <sup>‡</sup></b>	<b>Mod/Cla <sup>¥</sup></b>	<b>Global <sup>§</sup></b>	<b>p value</b>
<b>Level of education: Low</b>	79.66	45.63	18.27	<0.00001
<b>Gender: Woman</b>	49.13	82.52	53.56	<0.00001
<b>Perceived Air quality: Somewhat agree</b>	47.20	73.79	49.85	<0.00001
<b>Family status: Live alone without children</b>	46.04	62.14	43.03	<0.00001
<b>Respiratory health problem: Yes</b>	47.78	41.75	27.86	<0.001
<b>Satisfaction with the residential place: Somewhat agree</b>	42.98	47.57	35.29	<0.01
<b>Heating mode: Fuel oil</b>	55.56	19.42	11.15	<0.01
<b>Level of education: High</b>	85.71	5.83	2.17	<0.01
<b>Number years living in Lyon : &gt;10 years</b>	33.67	98.06	92.88	<0.01
<b>Family status: With partner with children</b>	5.56	0.97	5.57	<0.01

<b>Living in another place:</b> <i>Yes</i>	13.16	4.85	11.76	<0.01
<b>Satisfaction with the residential place:</b> <i>Not agree</i>	0.00	0.00	4.33	<0.01
<b>Family status:</b> <i>With partner without children</i>	23.27	35.92	49.23	<0.01
<b>Respiratory health problem:</b> <i>No</i>	25.86	58.25	71.83	<0.001
<b>Level of education:</b> <i>Low</i>	6.12	2.91	15.17	<0.00001
<b>Level of education:</b> <i>High</i>	2.38	0.97	13.00	<0.00001
<b>Gender:</b> <i>Man</i>	12.00	17.48	46.44	<0.00001
<b>Perceived Air quality:</b> <i>Totally agree</i>	2.47	1.94	25.08	<0.00001

**Table S3e:** Description of the **profile 5** (among the oldest (≥60 years))

<b>Variable: modality</b>	<b>Cla/Mod <sup>φ</sup></b>	<b>Mod/Cla <sup>¥</sup></b>	<b>Global <sup>§</sup></b>	<b>p value</b>
<b>Perceived Air quality:</b> <i>Not agree</i>	49.12	80.00	17.65	<0.00001
<b>Satisfaction with the residential place:</b> <i>Not agree</i>	92.86	37.14	4.33	<0.00001
<b>Living in another place:</b> <i>Yes</i>	52.63	57.14	11.76	<0.00001
<b>Level of education:</b> <i>Low</i>	30.61	42.86	15.17	<0.0001
<b>Respiratory health problem:</b> <i>Yes</i>	23.33	60.00	27.86	<0.0001
<b>Housing:</b> <i>Apartment</i>	14.66	97.14	71.83	<0.0001
<b>Cardiovascular health problem:</b> <i>Yes</i>	24.24	45.71	20.43	<0.001
<b>Family status:</b> <i>Living alone with children</i>	50.00	8.57	1.86	<0.05

<b>Level of education:</b> <i>High</i>	0.00	0.00	13.0	<0.01
<b>Cardiovascular health problem:</b> <i>No</i>	7.39	54.29	79.57	<0.001
<b>Satisfaction with the residential place:</b> <i>Somewhat agree</i>	4.35	20.00	49.85	<0.001
<b>Housing:</b> <i>House</i>	1.10	2.86	28.17	<0.0001
<b>Respiratory health problem:</b> <i>No</i>	6.03	40.00	71.83	<0.0001
<b>Perceived Air quality:</b> <i>Totally agree</i>	0.00	0.00	25.08	<0.0001
<b>Satisfaction with the residential place:</b> <i>Totally agree</i>	3.13	17.14	59.44	<0.00001
<b>Living in another place:</b> <i>No</i>	5.02	40.00	86.38	<0.00001

Legend: <sup>‡</sup> Percentage of individuals with the modality belonging to the profile; <sup>¥</sup> Percentage of individuals of the profile with the modality; <sup>§</sup> Percentage of the modality among the oldest.