



Support study on data collection and analysis of active modes use and infrastructure in Europe

Appendix D - Consultation Templates

Written by
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COWI



EUROPEAN COMMISSION

Directorate-General for Mobility and Transport
Directorate A— Policy Coordination
Unit A.3 — Economic Analysis & Better Regulation

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Support study on data collection and analysis of active modes use and infrastructure in Europe

Appendix D – Consultation Templates

January 2017

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D.1 INITIAL E-MAIL TEMPLATE

Dear Mr Sir/Madam.

The **European Commission (DG MOVE)** has given COWI and KU Leuven the task to provide comparable information and statistics on **walking and cycling use and infrastructure at urban and national level** and to suggest ways forward to further improve this information. Please find attached the Introductory Letter from the Commission.

As part of this study, we are undertaking a **stakeholder's consultation** in different European countries **from May 23 to June 30, 2016**. Due to your knowledge and previous involvement in activities in the sector you have been identified of one of our contact points for **[Country/City]**.

I would appreciate your contribution to our assignment by providing us with your insights and/or available data with regards to walking and cycling use and infrastructure, which shall be gathered through a questionnaire developed for the purpose of this study. I have attached the Consultation Guide with the topics and questions addressed in the **Questionnaire**.

The questionnaire is mainly targeted to persons with previous experience in data collection and/or analysis of statistics on walking and cycling.

The attached material is in English however the next steps of the consultation process could also be carried out in **[local language]**.

On this basis, we would kindly ask you to confirm your interest in participating in the study or to indicate a potential colleague that could support us on this consultation.

Meanwhile, we remain available to clarify any questions that you might have in a short call at your earliest convenience, if necessary.

I'm looking forward to your reply.

With my best regards,

[Signature]

Annexes:

Introduction Letter

Consultation Guidance Note



EUROPEAN COMMISSION
DIRECTORATE-GENERAL FOR MOBILITY AND TRANSPORT

Directorate A - Policy coordination and security
A.3 – Economic Analysis & Impact Assessment

Brussels, **17 MAI 2016**
move.a.3/GvS/ha(2016)2876504

TO WHOM IT MAY CONCERN

Subject: Study on data collection and analysis of active modes use and infrastructure in Europe

Dear Sir/Madam,

In the Communication "Together towards competitive and resource-efficient urban mobility" the Commission established that with their high population densities and high share of short-distance trips, there is a large potential for cities to move towards low-carbon transport, among others through the development of walking and cycling. In this light, the value of sharing experiences, showcasing best-practice examples, and fostering cooperation across the Union is uncontested.

However, currently there is a lack of comparable information and statistics on walking and cycling use on urban and national level. Without this information, it is impossible to identify and compare performance at the EU level, which hampers identifying and transferring best-practice examples and developing well-informed European strategy.

Therefore, the Commission has initiated a study to provide comparable information and statistics on walking and cycling use on urban and national level, and suggest ways forward to further improve this information. The contract to undertake the study has been awarded to an independent company, COWI Belgium and its subcontractor KU Leuven.

As part of its work, the contractor is undertaking a stakeholders' consultation exercise. The involvement of stakeholders through an adequate consultation process is very important for the conclusions of this study. I would therefore ask for your active and prompt cooperation with COWI Belgium and KU Leuven.

If you have any questions regarding this study or require a copy of the Terms of Reference, please contact the officer in charge, Mr Guus van de Schouw, (tel: +32 2298 0024; email: guus.van-de-schouw@ec.europa.eu).

I would like to thank you in advance for your cooperation.

Yours sincerely,

Rolf DIEMER
Head of Unit

D.2 COUNTRY QUESTIONNAIRE

Q

HOW TO COMPLETE THIS COUNTRY QUESTIONNAIRE

1 SAVE this file with a different name according to below instructions:

e.g. "MOVE5-24_COUNTRY_UK"

↑
two letters country
abbreviation

2 Before start completing the questionnaire, please remember:

- Each Excel file should reflect the compiled results for the specific country. If more than one respondent reply to the same question, please indicate the different answers by using different **colours** and/or indicating the respondent e.g. "R1" - see P0-GENERAL.
- BE FLEXIBLE! Not all questions are relevant to the different respondents

3 Fill in the questionnaire:

ALL RESPONDENTS

GENERAL INFORMATION RESPONDENT AND GENERAL CHALLENGES

[P0 - INFORMATION ON DATA COLLECTION AND ANALYSIS AND ITS CHALLENGES](#)

DATA COLLECTION INFO

[P1 - DATA COLLECTION AND AVAILABILITY INFORMATION](#)

IMPORTANT!

The relevant parts to be completed in the questionnaire will depend on the data collection methods used (See question 1.1.1). Different excel sheets should be completed if different data collection methods are used.

ALL RESPONDENTS PROVIDING DATA

ACTIVE MODES USE STATISTICS

[P2 - STATISTICS ON WALKING AND CYCLING](#)

METHODOLOGY USED FOR STATISTICS

[P3 - TARGET POPULATION](#)

[P4 - HOW TRIPS ARE RECORDED](#)

[P5 - FACTORS THAT AFFECT DISTANCE](#)

BIG DATA

[P6 - USE OF BIG DATA ON WALKING AND CYCLING](#)

TRAFFIC COUNTS

[P7 - TRAFFIC COUNTS \(PEDESTRIANS AND CYCLISTS\)](#)

NATIONAL CENSUS

[P8 - APPROACH OF NATIONAL CENSUS TO WALKING AND CYCLING](#)

ONLY RESPONDENTS PROVIDING THE RESPECTIVE DATA, ACCORDING TO QUESTION 1.1.1

ALL RESPONDENTS

INFRASTRUCTURE

[P9 - STANDARDS AND STATISTICS](#)

IMPORTANT!

When different respondents answer the questionnaire. Please try to ensure that answers are coherent or to understand the reason for the different responses.

COUNTRY QUESTIONNAIRE

INTRODUCTION

The Commission has initiated a study to provide comparable information and statistics on walking and cycling use on urban and national level and suggests ways forward to further improve this information. The contract undertake the study has been awarded to COWI Belgium and KU Leuven. As part of its work, the contractor is undertaking a stakeholder's consultation to understand the practices on data collection and analysis across Europe.

This Questionnaire is part of this consultation process and it aims to find out information available at COUNTRY level. Information only available at Urban/City level should be provided through a different questionnaire.

The respondent is expected to have a good knowledge of one or more data collection methods in the Country.

P0. GENERAL QUESTIONS

0.1 Identification Respondent

0.1.1 Respondent 1 (R1)

Name of the respondent (e.g. First and LAST NAME)

Email address

Name of the authority, association, company represented by the respondent

Sections answered by the respondent

0.1.2 Respondent 2 (R2)

Name of the respondent (e.g. First and LAST NAME)

Email address

Name of the authority, association, company represented by the respondent

Sections answered by the respondent

0.1.3 Respondent 3 (R3)

Name of the respondent (e.g. First and LAST NAME)

Email address

Name of the authority, association, company represented by the respondent

Sections answered by the respondent

0.1.4 Respondent 4 (R4)

Name of the respondent (e.g. First and LAST NAME)

Email address

Name of the authority, association, company represented by the respondent

Sections answered by the respondent

0.2 Challenges related to data collection

0.2.1 How would you rate the friendliness for walking and cycling in your city? Scale: 0 - 10, being "0" bad and "10" Excellent

Walking:

Cycling:

0.2.2 Which difficulties do you encounter when collecting statistics on walking and cycling?

0.2.3 Do you compare your statistics/performance on walking and cycling with other regions/cities? If yes, which difficulties do you encounter?

0.2.4 Do you see a need for EU action on comparable statistics on walking and cycling? If yes, what are priority actions that should be taken?

0.2.5 Are there other statistics that you collect on walking and cycling (e.g. safety, attractiveness)? If yes, which ones?

0.2.6 Are big data sources used? If Big Data is not used is there awareness of potential big data sources available?

0.2.7 Are you aware of other sources of information (such as past research, studies) on walking and cycling in your country that we can use for the purpose of the study?

P1. DATA COLLECTION INFORMATION

1.1 Identification of Data Collection of Walking and Cycling at country level

1.1.1 What are the **data collection methods** used?

mark with "x" one or more answers

<input type="checkbox"/>	Surveys (Complete sections P2 - P5)	
<input type="checkbox"/>	Big data (Complete section P2 and P6)	
<input type="checkbox"/>	Traffic counts (Cycling and/or Walking) (Complete section P2 and P7)	
<input type="checkbox"/>	National Census (Complete section P2 and P8)	
<input type="checkbox"/>	Other methods (if yes, please specify) (Complete sections P2- P5)	<input type="text" value="..."/>

1.1.2 What is the name of the data collection from which the data is provided

e.g. Survey on the mobility of the Belgian population (BELDAM) - BELSPO

1.1.3 What is the most recent year in which data was collected? Please also indicate ongoing data collections, if any.

1.1.4 What is the periodicity of this data collection?

1.2 Data availability

1.2.1 **Type of data available** from this data collection? (mark with "x")

	Publicly accessible	Available upon request	Not available or not accessible
<i>Data collection description</i>			
<i>Data collection design</i>			
<i>Questionnaire (for surveys only)</i>			
<i>Codebook and metadata</i>			
<i>Descriptive statistics</i>			
<i>Interactive analysis tools</i>			
<i>Micro data</i>			
<i>Big data sources</i>			
<i>Origin/destination (O/D) matrices i.e. generally</i>			

1.2.3 Are the results reported at **urban level**?

if yes, on which basis:

yes/no

mark with "x"

<input type="checkbox"/>	Residence	
<input type="checkbox"/>	Counts	
<input type="checkbox"/>	Origin/Destination	
<input type="checkbox"/>	Other (if yes, please specify):	<input type="text" value="..."/>

P2. USE OF ACTIVE MODES - STATISTICS

2.1 Walking

2.1.1 What is the **definition of walking** applied in the surveys?

yes/no

Walking stages in multi-modal trips (mostly Public Transport) included?

Waiting times included in the walking time?

Other active modes e.g. skateboarding, roller skating, etc. included?

2.1.2 Please provide us with the **most recent data on Walking**

Average daily distance travelled per person			average number of trips per day		
Distance	Unit	Year	Number	Unit	Year
2.1.2.1	pkm/day			trips/day	
2.1.2.2	other?			other?	
2.1.2.3					
2.1.2.4					
2.1.2.5					
2.1.2.6					

2.2 Cycling

2.2.1 What is the **definition of cycling** applied in the surveys?

yes/no

Pedaling without any motorised support included?

E-bike included?

Other forms of motorised vehicles e.g. mopeds included?

2.2.2 If **different types of bikes** are considered in the surveys, **are statistics collected separately?** If yes, please provide data separately.

yes/no

2.2.3 Please provide us with the **most recent data on Cycling**

Average daily distance travelled per person			average number of trips per day		
Distance	Unit	Year	Number	Unit	Year
2.2.2.1	0.0	pkm/day		0.0	trips/day
2.2.2.2	0.0	other?		0.0	other?
2.2.2.3	0.0			0.0	
2.2.2.4	0.0			0.0	
2.2.2.5	0.0			0.0	
2.2.2.6	0.0			0.0	

2.2.4 What is the percentage of the population Cycling in the country?

P3. TARGET POPULATION

3.1 What is the **urban population sample size**?

3.2 What is the **sampling spatial distribution method**? *mark with "x" one or more answers*

<input type="checkbox"/>	Random sampling	
<input type="checkbox"/>	Stratification by region	
<input type="checkbox"/>	Stratification by population density	
<input type="checkbox"/>	Oversampling of same areas	
<input type="checkbox"/>	Other stratifications <i>(if yes, please define)</i> :	<input type="text"/>

3.3 What are the **survey methods used**? *mark with "x" one or more answers*

<input type="checkbox"/>	Phone (including Computer-assisted telephone interviewing - CATI)	
<input type="checkbox"/>	Face-to-face (including Computer-assisted personal interviewing - CAPI)	
<input type="checkbox"/>	Postal	
<input type="checkbox"/>	Email/web interviewing (including Computer-assisted web interviewing - CAWI)	
<input type="checkbox"/>	GPS used in travel survey	
<input type="checkbox"/>	Other methods (if yes, please define):	<input type="text"/>

3.4 Are there **age limits** (minimum or maximum) *yes/no* for the respondents of the survey? *if, yes what are the age limits?*

3.5 What is the **population included** in the **sampling**? *Please select the correct answer*

3.6 Are people who **didn't travel in the day** *yes/no* **included** in the sampling/reporting?

P4. TRIPS (TRIPS/DAY)

4.1 What is the **definition of a TRIP** in your surveys?

4.2 How the **trip is recorded**? mark with "x" the correct answer

- All **transport modes** are recorded (e.g. trip1: walking+bus+walking)
- Only **main mode** recorded, **walking derived** (estimated) as part of multimodal trip
- Only **main mode** recorded, **walking NOT derived** (estimated) as part of multimodal trip
- Only **main mode** recorded, **cycling derived** (estimated) as part of multimodal trip
- Only **main mode** recorded, **cycling NOT derived** (estimated) as part of multimodal trip
- Others, please describe:

4.3 What are the **boundaries** used? mark with "x" one or more answers

- Trips within core city area
- Trips within greater city area
- Cross-border trips
- Trips made entirely in another city but in the same country
- Trips made entirely in another city but in a different country
- Others, please describe:

4.4 Is the survey **trip-based** or **activity based**? mark with "x" the correct answer

- Trip based
- Activity based

4.5 Is the **trip purpose** recorded in the survey? e.g. work, leisure, *yes/no* if yes, please specify the categories

4.6 Are **professionals recorded** in the survey? e.g. postman, bike delivery, etc. *yes/no*

P5. FACTORS AFFECTING DISTANCE (Km)

5.1 What is the **reporting period** of the surveys? *mark with "x"*

<input type="checkbox"/>	Predefined survey day	
<input type="checkbox"/>	Weekday before	
<input type="checkbox"/>	7-day diary	
<input type="checkbox"/>	last weekend	
<input type="checkbox"/>	Other, please specify:	...

5.2 Are **seasonal variations** taken into *yes/no* *if yes, please explain how*
e.g. sampling days throughout the year, surveys in specific months

5.3 What is the **duration and length recording method** used? *mark with "x"*

<input type="checkbox"/>	Self-estimation	
<input type="checkbox"/>	Geo-location	
<input type="checkbox"/>	GPS-tracking	
<input type="checkbox"/>	Other, please specify:	...

5.4 How is the **distance** collected in the surveys? *mark with "x"*

<input type="checkbox"/>	Duration and distance are collected separately	
<input type="checkbox"/>	Only distance is collected	
<input type="checkbox"/>	Duration is collected and converted to distance	
<input type="checkbox"/>	Other, please specify:	...

5.5 Is there a **minimum distance/time threshold** for the data recorded? *yes/no* *if yes, please specify*

P6. BIG DATA

6.1 Walking

6.1.1 What are the **Big Data methods** used to measure walking? *mark with "x"*

<input type="checkbox"/>	Data from Service Providers (mobile phone service providers via GPS, GSM, Wifi, etc., tracks shared via opt-in websites)
<input type="checkbox"/>	Data from Sensor Networks (data collected from sensor networks via Bluetooth, Wifi, RFID, other sensing technologies)
<input type="checkbox"/>	Data from Social Media (data collected via Social Media sites, Facebook, Twitter, Google+, etc.)
<input type="checkbox"/>	Other, please specify: <input type="text" value="..."/>

6.2 Cycling

6.2.1 What are the **Big Data methods** used to measure cycling? *mark with "x"*

<input type="checkbox"/>	Data from Service Providers (mobile phone service providers via GPS, GSM, Wifi, etc., tracks shared via opt-in websites)
<input type="checkbox"/>	Data from Sensor Networks (data collected from sensor networks via Bluetooth, Wifi, RFID, other sensing technologies)
<input type="checkbox"/>	Data from Social Media (data collected via Social Media sites, Facebook, Twitter, Google+, etc.)
<input type="checkbox"/>	Other, please specify: <input type="text" value="..."/>

6.3 Walking and Cycling

6.3.1 What is the **relevance of the collected Big Data** to measure walking and cycling? *mark with "x"*

<input type="checkbox"/>	Routes, O/D
<input type="checkbox"/>	Validation of travel surveys
<input type="checkbox"/>	Account for seasonal variation
<input type="checkbox"/>	Other, please specify: <input type="text" value="..."/>

6.3.2 What are the big data sources used? Please provide links if available.

<input type="text" value="..."/>

P7. TRAFFIC COUNTS (Walking and/or Cycling)

7.1 What are the **counting methods** used? *e.g. automatic, manual, video*

...

7.2 Are **pedestrians and cyclists counted/extracted separately**?

...

7.2 What is the **duration of the counts**?

...

7.3 What are the **locations** of the traffic counting points?

...

P8. NATIONAL CENSUS

8.1 What is the most recent year?

...

8.2 What is reported in the Census with regards to walking and cycling?

...

8.3 What is the percentage of the population that cycles?

...

8.4 What is the link to access its results?

...

P9. INFRASTRUCTURE

9.1 Walking

9.1.1 Are there **regulations or guidelines** about **walking** infrastructure quality requirements? *yes/no* *If yes, complete below 9.1.1.1 and 9.1.1.2*

9.1.1.1 Please indicate the name and link to the document(s)

...

9.1.1.2 Please give a short description of what is covered in the regulation/guidelines

...

9.1.2 Which cities (>50,000 inh.) have **dedicated pedestrianised streets/areas and/or shared space areas/street**? What is the area/kms of these zones/streets?

9.1.2.1 Dedicated pedestrianised streets/areas



Cities	...	
Area	...	m ²
Distance	...	km

9.1.2.2 Shared-space streets/areas



Cities	...	
Area	...	m ²
Distance	...	km

9.2 Cycling

9.2.1 Do you have **statistics on cycling infrastructure**? *yes/no* *if yes, how many Km in the country?*

9.2.1 Are there **regulations or guidelines** about **cycling** infrastructure quality requirements? *yes/no* *If yes, complete below 9.2.1.1 and 9.2.1.2*

9.2.1.1 Please indicate the name and link to the document(s)

...

9.2.1.2 Please give a short description of what is covered in the regulation/guidelines

...

9.2.2 What are the standards for cycling infrastructure as per **National Highway Code**?

...

9.2.3 What **type of cycling infrastructures** do you have in your country? *mark with "x"*



<input type="checkbox"/>	cycle track
0.0	Kms



<input type="checkbox"/>	cycle street
0.0	Kms



<input type="checkbox"/>	bus and bicycle lane
0.0	Kms



<input type="checkbox"/>	contraflow cycling
0.0	Kms



<input type="checkbox"/>	cycle lane
0.0	Kms



<input type="checkbox"/>	advisory cycle lane
0.0	Kms

D.3 CITY QUESTIONNAIRE

HOW TO COMPLETE THIS CITY QUESTIONNAIRE

1 SAVE this file with a different name according to below instructions:

e.g. "MOVE5-24_CITY_LONDON_UK"

↑ city name ↑ two letters country abbreviation

2 Before start completing the questionnaire, please remember:

- Each Excel file should reflect the compiled results for the specific city. If more than one respondent reply to the same question, please indicate the different answers by using different **colours** and/or indicating the respondent e.g. "R1" - see P0-GENERAL.
- BE FLEXIBLE! Not all questions are relevant to the different respondents

3 Fill in the questionnaire:

ALL RESPONDENTS

GENERAL INFORMATION RESPONDENT AND GENERAL CHALLENGES

[P0 - INFORMATION ON DATA COLLECTION AND ANALYSIS AND ITS CHALLENGES](#)

DATA COLLECTION INFO

[P1 - DATA COLLECTION AND AVAILABILITY INFORMATION](#)

IMPORTANT!

The relevant parts to be completed in the questionnaire will depend on the data collection methods used (See question 1.1.1). Different excel sheets should be completed if different data collection methods are used.

ALL RESPONDENTS PROVIDING DATA

ACTIVE MODES USE STATISTICS

[P2 - STATISTICS ON WALKING AND CYCLING](#)

METHODOLOGY USED FOR STATISTICS

[P3 - TARGET POPULATION](#)

[P4 - HOW TRIPS ARE RECORDED](#)

[P5 - FACTORS THAT AFFECT DISTANCE](#)

ONLY RESPONDENTS PROVIDING THE RESPECTIVE DATA, ACCORDING TO QUESTION 1.1.1

BIG DATA

[P6 - USE OF BIG DATA ON WALKING AND CYCLING](#)

TRAFFIC COUNTS

[P7 - TRAFFIC COUNTS \(PEDESTRIANS AND CYCLISTS\)](#)

NATIONAL CENSUS

[P8 - APPROACH OF NATIONAL CENSUS TO WALKING AND CYCLING](#)

ALL RESPONDENTS

INFRASTRUCTURE

[P9 - STANDARDS AND STATISTICS](#)

IMPORTANT!

When different respondents answer the questionnaire. Please try to ensure that answers are coherent or to understand the reason for the different responses.

CITY QUESTIONNAIRE

INTRODUCTION

The Commission has initiated a study to provide comparable information and statistics on walking and cycling use on urban and national level and suggests ways forward to further improve this information. The contract undertake the study has been awarded to COWI Belgium and KU Leuven. As part of its work, the contractor is undertaking a stakeholder's consultation to understand the practices on data collection and analysis across Europe.

This Questionnaire is part of this consultation process and it aims to find out information available at CITY (Capital) level. Information only available at Country level should be provided through a different questionnaire.

The respondent is expected to have a good knowledge of one or more data collection methods in the City.

P0. GENERAL QUESTIONS

0.1 Identification Respondent

0.1.1 Respondent 1 (R1)

Name of the respondent (e.g. First and LAST NAME)

Email address

Name of the authority, association, company represented by the respondent

Sections answered by the respondent

0.1.2 Respondent 2 (R2)

Name of the respondent (e.g. First and LAST NAME)

Email address

Name of the authority, association, company represented by the respondent

Sections answered by the respondent

0.1.3 Respondent 3 (R3)

Name of the respondent (e.g. First and LAST NAME)

Email address

Name of the authority, association, company represented by the respondent

Sections answered by the respondent

0.1.4 Respondent 4 (R4)

Name of the respondent (e.g. First and LAST NAME)

Email address

Name of the authority, association, company represented by the respondent

Sections answered by the respondent

0.2 Challenges related to data collection

0.2.1 How would you rate the friendliness for walking and cycling in your city? Scale: 0 - 10, being "0" bad and "10" Excellent

Walking:

Cycling:

0.2.2 Which difficulties do you encounter when collecting statistics on walking and cycling?

0.2.3 Do you compare your statistics/performance on walking and cycling with other regions/cities? If yes, which difficulties do you encounter?

0.2.4 Do you see a need for EU action on comparable statistics on walking and cycling? If yes, what are priority actions that should be taken?

0.2.5 Are there other statistics that you collect on walking and cycling (e.g. safety, attractiveness)? If yes, which ones?

0.2.6 Are big data sources used? If Big Data is not used is there awareness of potential big data sources available?

0.2.7 Are you aware of other sources of information (such as past research, studies) on walking and cycling in your country that we can use for the purpose of the study?

P1. DATA COLLECTION INFORMATION

1.1 Identification of Data Collection of Walking and Cycling at city level

1.1.1 What are the **data collection methods** used?

mark with "x"

<input type="checkbox"/>	Surveys (Complete sections P2 - P5)	
<input type="checkbox"/>	Big data (Complete section P2 and P6)	
<input type="checkbox"/>	Traffic counts (Cycling and/or Walking) (Complete section P2 and P7)	
<input type="checkbox"/>	National Census (Complete section P2 and P8)	
<input type="checkbox"/>	Other methods (if yes, please specify) (Complete sections P2- P5 and others if relevant)	<input type="text" value="..."/>

1.1.2 Name of the data collection from which the data is provided

e.g. Survey on the mobility of the Belgian population (BELDAM) - BELSPO

1.1.3 What is the most recent year for which you have data?

1.1.4 What is the periodicity of this data collection?

1.2 Data availability

1.2.1 **Type of data available** from this data collection? (mark with "x")

	Publicly accessible	Available upon request	Not available or not accessible
<i>Data collection description</i>			
<i>Data collection design</i>			
<i>Questionnaire (for surveys only)</i>			
<i>Codebook and metadata</i>			
<i>Descriptive statistics</i>			
<i>Interactive analysis tools</i>			
<i>Micro data</i>			
<i>Big data sources</i>			
<i>Origin/destination (O/D) matrices i.e. generally</i>			

P2. USE OF ACTIVE MODES - STATISTICS

2.1 Walking

2.1.1 What is the **definition of walking** applied in the surveys?

yes/no

Walking stages in multi-modal (mostly Public Transport) included?

Waiting times included in the walking time?

Other active modes e.g. skateboarding, roller skating, etc. included?

2.1.2 Please provide us with the **most recent data on Walking**

Average daily distance travelled per person			average number of trips per day		
Distance	Unit	Year	Number	Unit	Year
2.1.2.1	pkm/day			trips/day	
2.1.2.2	other?			other?	
2.1.2.3					
2.1.2.4					
2.1.2.5					
2.1.2.6					

2.2 Cycling

2.2.1 What is the **definition of cycling** applied in the surveys?

yes/no

Pedaling without any motorised support included?

E-bike included?

Other forms of motorised vehicles e.g. mopeds included?

2.2.2 If **different types of bikes** are considered in the surveys, **are statistics collected separately?** If yes, please provide data separately.

yes/no

2.2.3 Please provide us with the **most recent data on Cycling**

Average daily distance travelled per person			average number of trips per day		
Distance	Unit	Year	Number	Unit	Year
2.2.3.1	0.0	pkm/day		0.0	trips/day
2.2.3.2	0.0	other?		0.0	other?
2.2.3.3	0.0			0.0	
2.2.3.4	0.0			0.0	
2.2.3.5	0.0			0.0	
2.2.3.6	0.0			0.0	

2.2.4 What is the percentage of the population Cycling in your city?

P3. TARGET POPULATION

3.1 What is the **urban population sample size**?

3.2 What is the **sampling spatial distribution method**? *mark with "x"*

<input type="checkbox"/>	Random sampling	
<input type="checkbox"/>	Stratification by region	
<input type="checkbox"/>	Stratification by population density	
<input type="checkbox"/>	Oversampling of same areas	
<input type="checkbox"/>	Other stratifications (<i>if yes, please define</i>) :	<input type="text"/>

3.3 What are the **survey methods used**? *mark with "x"*

<input type="checkbox"/>	Phone (including Computer-assisted telephone interviewing - CATI)	
<input type="checkbox"/>	Face-to-face (including Computer-assisted personal interviewing - CAPI)	
<input type="checkbox"/>	Postal	
<input type="checkbox"/>	Email/web interviewing (including Computer-assisted web interviewing - CAWI)	
<input type="checkbox"/>	GPS used in travel survey	
<input type="checkbox"/>	Other methods (if yes, please define):	<input type="text"/>

3.4 Are there **age limits** (minimum or maximum) for the respondents of the survey?

<i>yes/no</i>	<i>if, yes what are the age limits?</i>
<input type="text"/>	<input type="text"/>

3.5 What is the **population included** in the **sampling**?

Please select the correct answer

3.6 Are people who **didn't travel in the day included** in the sampling/reporting?

yes/no

P4. TRIPS (TRIPS/DAY)

4.1 What is the **definition of a TRIP** in your surveys?

4.2 How the **trip is recorded**? *mark with "x"*

- All transport modes** are recorded (e.g. trip1: walking+bus+walking)
- Only **main mode** recorded, **walking derived** (estimated) as part of multimodal trip
- Only **main mode** recorded, **walking NOT derived** (estimated) as part of multimodal trip
- Only **main mode** recorded, **cycling derived** (estimated) as part of multimodal trip
- Only **main mode** recorded, **cycling NOT derived** (estimated) as part of multimodal trip

4.3 What are the geographical **boundaries** used? *mark with "x"*

- Trips within core city area
- Trips within greater city area
- Cross-border trips
- Trips made entirely in another city but in the same country
- Trips made entirely in another city but in a different country
- Others, please describe:

4.4 Is the survey **trip-based** or **activity based**? *mark with "x" the correct answer*

- Trip based
- Activity based

4.4 Is the **trip purpose** recorded in the survey?
e.g. work, leisure, education, etc.

yes/no

if yes, please specify the categories

4.5 Are **professionals recorded** in the survey?
e.g. postman, bike delivery, etc.

yes/no

P5. FACTORS AFFECTING DISTANCE (Km)

5.1 What is the **reporting period** of the surveys? *mark with "x"*

<input type="checkbox"/>	Predefined survey day	
<input type="checkbox"/>	Weekday before	
<input type="checkbox"/>	7-day diary	
<input type="checkbox"/>	last weekend	
<input type="checkbox"/>	Other, please specify:	...

5.2 Are **seasonal variations** taken into *yes/no* *if yes, please explain how*
e.g. sampling days throughout the year, surveys in specific months

5.3 What is the **duration and length recording method** used? *mark with "x"*

<input type="checkbox"/>	Self-estimation	
<input type="checkbox"/>	Geo-location	
<input type="checkbox"/>	GPS-tracking	
<input type="checkbox"/>	Other, please specify:	...

5.4 How is the **distance** collected in the surveys? *mark with "x"*

<input type="checkbox"/>	Duration and distance are collected separately	
<input type="checkbox"/>	Only distance is collected	
<input type="checkbox"/>	Duration is collected and converted to distance	
<input type="checkbox"/>	Other, please specify:	...

5.5 Is there a **minimum distance/time threshold** for the data recorded? *yes/no* *if yes, please specify*

P6. BIG DATA

6.1 Walking

6.1.1 What are the **Big Data methods** used to measure walking? *mark with "x"*

<input type="checkbox"/>	Data from Service Providers (mobile phone service providers via GPS, GSM, Wifi, etc., tracks shared via opt-in websites)
<input type="checkbox"/>	Data from Sensor Networks (data collected from sensor networks via Bluetooth, Wifi, RFID, other sensing technologies)
<input type="checkbox"/>	Data from Social Media (data collected via Social Media sites, Facebook, Twitter, Google+, etc.)
<input type="checkbox"/>	Other, please specify: <input type="text" value="..."/>

6.2 Cycling

6.2.1 What are the **Big Data methods** used to measure walking? *mark with "x"*

<input type="checkbox"/>	Data from Service Providers (mobile phone service providers via GPS, GSM, Wifi, etc., tracks shared via opt-in websites)
<input type="checkbox"/>	Data from Sensor Networks (data collected from sensor networks via Bluetooth, Wifi, RFID, other sensing technologies)
<input type="checkbox"/>	Data from Social Media (data collected via Social Media sites, Facebook, Twitter, Google+, etc.)
<input type="checkbox"/>	Other, please specify: <input type="text" value="..."/>

6.3 Walking and Cycling

6.3.1 What is the **relevance of the collected Big Data** to measure walking and cycling? *mark with "x"*

<input type="checkbox"/>	Routes, O/D
<input type="checkbox"/>	Validation of travel surveys
<input type="checkbox"/>	Account for seasonal variation
<input type="checkbox"/>	Other, please specify: <input type="text" value="..."/>

6.3.2 What are the **big data sources used**? Please provide links if available.

<input type="text" value="..."/>

P7. TRAFFIC COUNTS (Walking and/or Cycling)

7.1 What are the **counting methods** used? *e.g. automatic, manual, video*

...

7.2 Are **pedestrians and cyclists counted/extracted separately**?

...

7.2 What is the **duration of the counts**?

...

7.3 What are the **locations** of the traffic counting points?

...

P8. NATIONAL CENSUS

8.1 What is the most recent year?

...

8.2 What is reported in the Census with regards to walking and cycling?

...

8.3 What is the percentage of the population that cycles?

...

8.4 What is the link to access its results?

...

P9. INFRASTRUCTURE

9.1 Walking

9.1.1 Are there **regulations or guidelines** about walking infrastructure quality requirements? *yes/no* *If yes, complete below 9.1.1.1 and 9.1.1.2*

9.1.1.1 Please indicate the name and link to the document(s)

9.1.1.2 Please give a short description of what is covered in the regulation/guidelines

9.1.2 Does your city have **dedicated pedestrianised areas/streets and/or shared space areas/streets**? What is the area/kms of these zones/streets? Please provide maps if available.

9.1.2.1 Dedicated pedestrianised areas/streets



Total area m²
 Distance km

9.1.2.2 Shared-space areas/streets



Total area m²
 Distance km

9.1.3 Please indicate what is considered as pedestrianised areas/streets and shared space areas/streets *e.g. squares, parks, etc.*

9.2 Cycling

9.2.1 Do you **have statistics on cycling infrastructure**? *yes/no* *if yes, how many Km in the city?*

9.2.1 Are there **regulations or guidelines** about cycling infrastructure quality requirements? *yes/no* *If yes, complete below 9.2.1.1 and 9.2.1.2*

9.2.1.1 Please indicate the name and link to the document(s)

9.2.1.2 Please give a short description of what is covered in the regulation/guidelines

9.2.2 What are the standards for cycling infrastructure as per **National Highway Code**?

9.2.3 What **type of cycling infrastructures** do you have in your city? *mark with "x"*



cycle track
 Km



cycle street
 Km



bus and bicycle lane
 Km



contraflow cycling
 Km



cycle lane
 Km



advisory cycle lane
 Km

D.4 QUESTIONNAIRE GUIDANCE NOTE

MAY 2016
EUROPEAN COMMISSION
DG MOBILITY AND TRANSPORT

QUESTIONNAIRE "ACTIVE MODES USE AND INFRASTRUCTURE IN EUROPE"

Guidance Note

PROJECT NO. DOCUMENT NO.
MOVE5024 MOVE5024-3

VERSION	DATE OF ISSUE	DESCRIPTION	PREPARED	CHECKED	APPROVED
3	13/06/2016		THÉRÈSE STEENBERGHEN, THIAGO TAVARES	THIAGO TAVARES	THIAGO TAVARES

1 Introduction

Prior to filling the questionnaire, be sure to select only surveys and/or other data collection method having information on walking and cycling. Select the most recent data collection.

The questionnaire consists of one excel workbook per data collection method per country and one per capital, and includes:

- 1 "Instructions" for general instructions on how to complete the Excel file.
- 2 "Introduction" for the introduction of the purpose of the study and of the questionnaire.
- 3 "P0_General" for general information about the respondents of the questionnaire and the challenges faced for data collection and analysis.
- 4 "P1_Data collection info" for identification of existing data collection methods for walking and cycling applied in the country/city and its availability.
- 5 "P2_Active modes use statistics" with the definition of walking and cycling for the different survey methods and with the most recent data available on active modes use.
- 6 "P3_Population" for information on the population sampling used in the data collection.
- 7 "P4_Trips" for the definition of a trips as applied for the data collection
- 8 "P5_Distance" with the factors affecting distance with regards to the methodology used.
- 9 "P6_Big data" for understanding the use of big data for measuring walking and cycling (to be completed when relevant).
- 10 "P7_Traffic counts" for understanding if traffic counts record information on walking and cycling and if those are/could be used on measuring these active modes use (to be completed when relevant).
- 11 "P8_National census" for understanding if the national census provides valid information that could be used to measure walking and/or cycling (to be completed when relevant).
- 12 "P9_Infrastructure" for information about pedestrianised zones and shared space areas and cycling infrastructure in cities, including its standards and policies.

The answers to the questions can be:

- › A dropdown list with available options e.g. yes or no.
- › A multiple choice in which all correct answers should be marked with an "x"
- › Open questions where the answers need to be filled inside the box, where indicated "...". In case the answer is too long, please use numbered references, for example [1] and elaborate in a "notes" document. Please name the Word document with the same name of the questionnaire file. Number the notes sequentially for the entire workbook.

2 PART 0. GENERAL INFORMATION

PART 0.1 Identification of respondent

Information related to the name and contact details of the respondent.

PART 0.2 Challenges related to data collection in the country

How would you rate the friendliness for walking and cycling in your country/city?

Which difficulties do you encounter when collecting statistics on walking and cycling?

Do you compare your statistics/performance on walking and cycling with other countries/regions/cities? If yes, which difficulties do you encounter?

Do you see a need for EU action on comparable statistics on walking and cycling? If yes, what are priority actions that should be taken?

Are there other statistics that you collect on walking and cycling (e.g. safety, attractiveness)? If yes, which ones?

Are you aware of other sources of information (such as past research, studies) on walking and cycling in your country that we can use for the purpose of the study?

3 PART 1. DATA COLLECTION INFORMATION

PART 1.1 Identification of Data Collection of Walking and Cycling at country level

What are the data collection methods used?

Select one or more data collection methods.

- > Surveys
- > Big data
- > Traffic counts
- > National Census
- > Other methods

What is the name of the data collection from which data is provided?

Fill in the name of the data collection method, in the original language, in English and/or the acronym (commonly used reference).

Example: National Travel Surveys:

Country	Survey
Austria	Mobilitätserhebung österreichischer Haushalte (MÖH); Mobility Survey of Austrian Households
Belgium	BELDAM NTS Belgian Daily Mobility
Denmark	Transportvaneundersøgelsen (TU); Transport Behaviour Survey
Finland	Henkilöliikennetutkimus (HLT); National Travel Survey
France	Enquête Nationale Transports et Déplacements (ENTD); National Survey Transportations and Travel
Germany	Deutsches Mobilitätspanel (MOP); German Mobility Panel
Italy	Osservatorio sui comportamenti di mobilità degli italiani (AUDIMOB) (Italian mobility behaviours Observatory)
Latvia	Iedzīvotāju pārvietošanās apsekojums 2003.g.; Passenger mobility survey
Netherlands	Onderzoek Verplaatsingen in Nederland (OVIN); Movement Research in the Netherlands
Spain	MOVILIA Mobility Survey
Great Britain	National Travel Survey (NTS)
Norway	Nasjonale Reisevaneundersøkelsen (RVU); National Travel Survey
Sweden	The National Swedish Travel Survey
Mikrozensus Verkehr; Microcensus Traffic	Mikrozensus Verkehr; Microcensus Traffic

Source: SHANTI

What is the most recent year in which data was collected?

The year the data on walking and cycling were collected. The entire sheet refers to the same data collection year. If the most recent year is not used, please indicate the reason (not available yet, not the most adequate measurement of walking and cycling,) in the country report.

What is the periodicity of this data collection?

Indicate how often the data collection is carried out. If different methods are applicable, please indicate the periodicity of each of them.

Which type of data is available from this data collection?

Please indicate the availability of each data type below:

- > Data collection description:
a description of the data collection method is available, e.g. for a survey, is it a panel survey, a travel diary approach, etc.
- > Data collection design:
the design of the data collection is available: e.g. for a travel diary, the

description of when the survey is conducted (days months), the focus group, etc.

- › Questionnaire (for surveys only)
- › Codebook and metadata
- › Descriptive statistics
- › Interactive analysis tools
- › Micro data
- › Big data sources
- › Origin/destination (O/D) matrices i.e. generally estimated from household survey results
- › The availability can be classified in:
 - › **Publicly accessible:** information is available, either electronically or through some printed publication. In this case, provide details how to access it (for example, giving full bibliographic references or the link to the relevant web page)
 - › **Available upon request:** some conditions might apply. In this case, detail the procedure that needs to be followed to access the information: contact details of the institution or the person in charge of the diffusion, costs, restrictions and conditions that need to be taken into account, indication of application forms and letter of request etc.
- › Not available or not accessible

Are the results reported at urban level? (Country questionnaire only)

Are the results detailed enough that statistics from the different cities could be extracted? Are the results presented as a total value only for the country/region?

If yes, on which basis are the results segregated per city?

- › Residence: depending on the place of residence of the respondent
- › Counts: depending the location where the pedestrian/cyclist was counted.
- › Origin/Destination: depending on the origin and/or destination of the person in the time of the survey

4 PART 2. ACTIVE MODES USE STATISTICS

What is the definition of walking applied in the surveys?

Please select one or more options that are considered as walking in the surveys.

Walking stages in multi-modal trips (mostly Public Transport) included. e.g. Is the walk from home to metro and from metro to work counted in the survey?

Waiting times included in the walking time. e.g. is the waiting time in the transfer of modes of transport (bus stations) considered in the walking time

- › Other active modes e.g. skateboarding, roller skating, etc. included. Are those active modes considered in the survey as walking?

What is the definition of cycling applied in the surveys?

Please select one or more options that are considered as cycling in the surveys.

- › Pedalling without any motorised support included, refers to normal cycling.
- › E-bike, refers to electric bikes which provide support to the cyclist but still requires pedalling
- › Other forms of motorised vehicles e.g. mopeds, scooters. Two-wheeler vehicles which do not require pedalling.

If different types of bikes are considered in the surveys, are statistics collected separately? If yes, please provide data separately.

In case normal bikes, e-bikes and other types are recorded separately, please provide this information separately in table 2.2.3.

What is the percentage of the population cycling in the country?

Please indicate percentage and the source of the information e.g. name of study when available.

Statistics data to be provided separately for walking and cycling.

Average pkm (person-km)

- › Pkm is the distance travelled by pedestrians/cyclists while walking/cycling and it is determined by multiplying the total pedestrians/cyclists trips by the average length of their trips.

Fill in the average pkm for walking and cycling per day e.g. 1,5

- › Only if pkm/day is not published, fill in the used time unit. Fill in only published time units (per month, week, year), do not make calculations.

Example:

- Unit pkm/YEAR
- Walking: 550

- › Indicate the year for which the data is provided e.g. 2014

Average number of trips

There is a common agreement on the definition of trips and trip stages in a questionnaire (Axhausen). For example: five trips/day refers to the common agreement on trip definition. This may differ from the terminology used in different countries. For example, in the UK a trip may be called a journey, while elsewhere a journey may refer to a long distance trip. Therefore, the definition of a trip is asked in the survey, but the questions are filled in according to the common agreement in the country or in particular survey for which data is provided.

5 PART 3. TARGET POPULATION

What is the urban population sample size of the surveys?

Sample size: (number of persons)

Of which urban population:

A list of the larger cities with an urban centre of at least 50,000 inhabitants defined by the EC-OECD will be provided.

What is the sampling spatial distribution method?

The study focus is on the urban environment. The description of the sampling method is intended to help identify the spatial representativeness of the measured active mode. Combinations are possible, select the options (clear others), explain:

- > random sampling
- > stratification by region
- > stratification by population density
- > other stratification, please describe.

What are the survey methods used in this data collection?

Combinations are possible, select the options:

- > Phone (including Computer-assisted telephone interviewing - CATI)
- > Face-to-face (including Computer-assisted personal interviewing - CAPI)
- > Postal
- > Email/web interviewing (including Computer-assisted web interviewing - CAWI)
- > GPS used in travel survey
- > Other methods (if yes, please define):

Are there age limits (minimum or maximum) for the respondents of the surveys?

Conditions on age exist at the time of the choice of individual respondents, especially among children and, in some cases, the elderly. Fill in the age categories included. This depends on the sampling method used, for example, travel diaries in a household may not be filled in for children.

Example:

- > Total of all ages (from birth)
- > Ages > 4 yrs.;
- > Ages > 11 yrs. (primary sch. excluded);
- > Ages > 17 yrs. (sec. school excluded);
- > Ages < 80 yrs.
- > Ages 12 – 79 yrs.

What is the population included in the sampling?

Depending on the sampling method used, the results can be very different. Populations included in the sample could be.

- > total population
- > mobile population (only people who can travel outside their homes are registered)

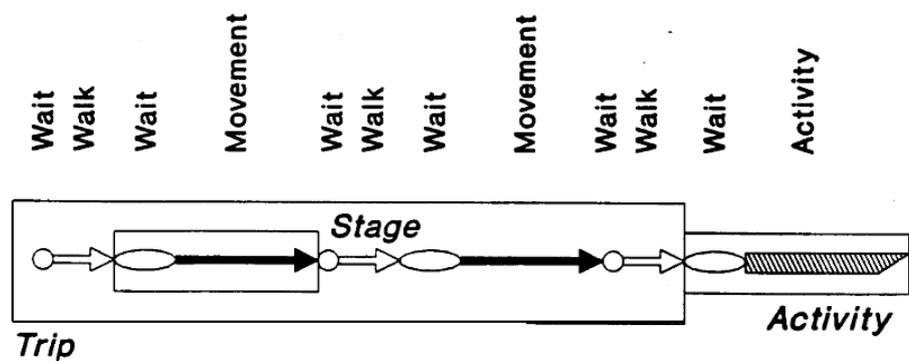
Are people who didn't travel in the day included in the sampling/reporting?

6 PART 4. TRIPS

What is the definition of Trip in the survey?

The definition of the trip and its measurement vary from one country to another. The following definitions are used in the survey to describe the trip.

A **travel** is a movement of a person from the place of origin to a destination made for a stay or a reason, it is a general term, not used as a definition in a national travel survey. A **trip**, is a unit of travel defined as a one-way course of travel with a single main stay or activity. A trip is a sequence of one or more **stages** between two activities using the public domain.



Source: Axhausen, 1995

Trips may include more than one **mode of transport**, and each mode is recorded as a stage within that trip. Modes of transport are: walking, roller, bike, motorcycle, motorbike, car, caravan, bus and rail. When 'mode' is used this refers to information for individual stages of trips. When '**main mode**' is used in the title of a table or charts this allocates information for the whole trip according to the mode used for the greatest length (in distance) of the trip. This leads to an underestimation of walking and to some extent of cycling, because they tend to be the shortest part of the trip.

Be aware, that:

- > in some countries, "trip" refers to a one-mode trip, which is also known as a segment
- > the term journey is also used to refer to multi-modal trips.

Use an explanatory note to make the link between the terminology used in the survey, and the terminology used in the country/region/city!

Select one of the options, clear the others:

- > All transport modes are recorded (e.g. trip1: walking+bus+walking)
- > Only main mode recorded, walking derived (estimated) as part of multimodal trip

- › Only main mode recorded, walking NOT derived (estimated) as part of multimodal trip
- › Only main mode recorded, cycling derived (estimated) as part of multimodal trip
- › Only main mode recorded, cycling NOT derived (estimated) as part of multimodal trip

Example:

For Finland, France, Norway and Spain, a trip is a movement from one address to another for a purpose.

Other aspects to consider in the description:

Some surveys add boundaries, for example, in a travel survey conducted by a city, only trips within the city limits may be recorded.

In an activity-based approach, the activity is the principal control, and the trips and trip stages are fitted. For example, start of the trip = I went from my home to the shop, and filled in the different stages of the trip to reach that destination.

In a stage based approach, the stages are the principal control and the activities are fitted. For example, starting from stage = I walked down the shopping street, and fill in the different activities (shopping, café, stop to look at street artist, ...) performed during that trip.

Country	Distance limit for trip	Collection of stages	Trip-based / activity-based
Belgium	No	Yes	Activity-based (?)
Denmark	No	Yes	Trip-based
Finland	No	Yes	Trip-based
France	No	No, but multiple modes are identified	Trip-based
Germany	No	No, but multiple modes are identified	Trip-based (MID)
Italy	>5min for walking trips; <20km Trips >20 km are not included	No	Trip-based
Netherlands	No	Yes	Trip-based
Spain	Daily mobility; > 5 min for walk trip	Yes (daily mobility)	Trip-based
Sweden	No	Yes	Stage-based
Great Britain	Walk trips <1mile (but > 50 yards) only on day 7	Yes	Stage/trip based
Israel	> 100 Meters	Yes	Activity-based
Norway	No	No, but all transport modes are recorded	Trip-based
Switzerland	> 25 meters (for a stage)	Yes	Stage-based

What are the geographical boundaries used?

Please select one or more of the options below. If other, please describe.

- › Trips within core city area
- › Trips within greater city area: e.g. metropolitan area
- › Cross-border trips: trips starting or ending at the city of interest
- › Trips made entirely in another city but in the same country: when regional travel is made on the day of the survey.

- › Trips made entirely in another city but in a different country: when international travel is made on the day of the survey.
- › Others, please describe:

Is the survey trip-based or activity-based?

Combinations are possible, select the options (clear others):

- › Trip based: each trip is recorded separately *e.g. going and coming from the bakery are recorded as two trips.*
- › Activity based: each activity is reported separately and it could include more than one trip *e.g. going to the bakery (1 activity but 2 trips)*

Is the trip purpose recorded in the survey?

e.g. work, leisure, education, etc.

Is the trip purpose recorded in the survey?

Some surveys also consider professionals e.g. postman, bike delivery, etc. in the surveys. This might have a strong impact on the results as those respondents will represent a considerable increase in the average of km travelled.

7 PART 5. FACTORS AFFECTING DISTANCE

What is the reporting period of the surveys?

Travel diaries can use different types of questionnaires for short distance travels. Combinations are possible, select the options (clear others). Add additional information in explanatory notes.

Example:

Country	Type of questionnaire in daily mobility
Belgium	Diary for a pre-defined day
Denmark	Trip of the day before. The survey day is predefined
Finland	Trips of a specific predefined day. Telephone interview with memory jogger, a simplified trip diary form sent in advance
France	Trips of the day before and of the last week end day by memory
Germany	MID: CATI based on memory jogger MOP: paper and pencil trip diary for 7 days a week
Italy	Trips of the day before and of the last week end day by memory
Netherlands	Diary for a pre-defined day
Spain	Week day before + 1 weekend day by memory
Sweden	Memory collection with memory jogger sent in advance
Great Britain	7-day diary previous to the first visit + face-to-face questionnaire
Norway	Trips on a specified day
Switzerland	Stage diary

Source: SHANTI

Are seasonal variations taken into account?

Surveys that collect data throughout the year will present more reliable average results than those carrying out the surveys on specific months only.

What is the duration and length recording method used?

Distance and time are in most cases estimated by the persons being interviewed (self-estimation). Experience shows that these estimates are not always accurate. One of the reasons why estimates are only rough indicators is that people tend to round figures in their estimates, e.g. 750 metres are rounded down or up to 500 metres or 1km. From a walking perspective, time is more important than distance (Sauter et. al. 2015).

Recording method used, select the options:

- > Self-estimation
- > Geo-location
- > GPS-tracking
- > Other, please specify.

How is the distance collected in the surveys?

- > Duration and distance are collected separately
- > Only distance is collected
- > Duration is collected and converted to distance
- > Other, please specify.

Is there a minimum distance/time threshold for the data recorded?

The distance threshold refers to the minimal distance used to produce the reported active walking and cycling. This is particularly important for walking. The thresholds can be a consequence of the accuracy of the data collection method used, geo-localisation and aggregation prior to analysis (e.g. due to privacy), and modelling. Fill in the threshold distance if available, or the time in case distance is not available.

8 PART 6. USE OF BIG DATA

This section is relevant only when big data is used for measuring walking and cycling. These questions are more open than the other parts. Please elaborate in an explanatory note if necessary.

What are the Big Data methods used to measure walking?

Select the relevant options, remove the others. Several methods can be combined.

- > Data from Service Providers (mobile phone service providers via GPS, GSM, Wifi, etc., tracks shared via opt-in websites)
- > Data from Sensor Networks (data collected from sensor networks via Bluetooth, RFID, other sensing technologies)

- › Data from Social Media (data collected via Social Media sites, Facebook, Twitter, Google+, etc.)

What are the Big Data methods used to measure walking

Select the relevant options, remove the others. Several methods can be combined.

- › Data from Service Providers (mobile phone service providers via GPS, GSM, Wifi, etc., tracks shared via opt-in websites)
- › Data from Sensor Networks (data collected from sensor networks via Bluetooth, RFID, other sensing technologies)
- › Data from Social Media (data collected via Social Media sites, Facebook, Twitter, Google+, etc.)

What is the relevance of the collected Big Data to measure walking and/or cycling?

- › routes, O/D
- › validation of travel surveys
- › account for seasonal variation
- › Other:

What are the big data sources used? If Big Data is not used is there awareness of potential big data sources available?

9 PART 7. TRAFFIC COUNTS

This section is relevant only when traffic counts are also used for recording walking and/or cycling.

What are the counting methods used? e.g. automatic, manual, video

Are pedestrians and cyclists counted/extracted separately?

What is the duration of the counts?

What are the locations of the traffic counting points?

10 PART 8. NATIONAL CENSUS

This section is only relevant when the national census includes questions about transport mobility in which walking and/or cycling are also considered.

What is the most recent year?

What is reported in the Census with regards to walking and cycling?

The answer to this question should be of sufficient detail to explain exactly what the % refers to in the answer in the following question.

An example:

The questions in the Belgian Census refer to trips to work or school:

- How many times a day do you go from your normal place of stay and your work or school, and back? (1x, 2x or more)
- How many days a week do you make this trip (both ways)?
- Which transport mode(s) do you mostly use for this trip? (walk, bicycle, motorcycle, scooter, transport organized by the employer or school, car (passenger), car (driver),)
- What is the distance (one way) in km?
- What were your departure and arrival times of your last normal trip
 - o To: departure (h, min) arrival (h, min)
 - o Return: departure (h, min) arrival (h, min)
- How many time a week (0, 1, 2, 3 or more)do you normally combine this trip with the following activities
 - o To:
 - shopping
 - bring child to school or daycare
 - other activity
 - o Return:
 - shopping
 - bring child to school or daycare
 - other activity

The reported percentage of the population that cycles refers to:

- the population older than 15 that uses a bicycle at least ones a week for the trip to work or school

What is the percentage of the population that cycles?

What is the link to access its results?

11 PART 9. INFRASTRUCTURE

PART 9.1 Walking infrastructure

Are there regulations or guidelines about walking infrastructure quality/standards requirements? If yes, please provide give a short description of what is covered in those, including the link to the document when available.

Which cities (>50,000 inh.) have dedicated pedestrianised areas/street and/or shared space areas/streets? Please provide maps when available.

Definitions:



Pedestrianised areas/streets: these are pedestrian-only areas where motorised traffic is not allowed. Cyclists are generally allowed at low speeds.



Shared-space: areas with low speed for traffic where pedestrians, cyclists and cars coexist.

- > Please indicate the names of the cities which have these infrastructures
- > What is the area or km of these pedestrianised areas/streets or shared-space areas/streets

PART 9.2 Cycling infrastructure

Do you have statistics on cycling infrastructures in your country? If yes, how many Km?

Are there regulations or guidelines about cycling infrastructure quality/standards requirements? If yes, please provide give a short description of what is covered in those, including the link to the document when available.

What type of cycling infrastructures do you have in your country?

Please refer to "European Cycling Lexicon" for the different types of cycling infrastructure.

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