



# Social Networks, Mobility Biographies and Mobility Tools

T Ohnmacht

## **Social Networks, Mobiliy Biographies and Mobility Tools**

T Ohnmacht  
IVT  
ETH Zürich  
Zürich

Phone: +41 44 633 41 02  
Fax: +41 44 633 10 57  
[frei@ivt.baug.ethz.ch](mailto:frei@ivt.baug.ethz.ch)

### **Abstract**

The project Social Networks, Mobility Biographies and Mobility Tools addresses a possible determinant to help us understand travel behaviour: this being the size and structure of social networks. Whereas over last few decades, the motives and determinants of individual travel behaviour have been analysed from different perspectives (generalised costs of travel, role patterns out of sociodemographics, household interactions, time budgets, life styles etc.) this approach deals with the question of the spatial representation of ego-centric social networks and effects on social-activity-travel behaviour may cause. For that reason the conducted data is containing information about corporeal travel as well as communication travel in the context of socio ego-centric networks in terms of maintaining social relations.

### **Keywords**

Social networks, Mobility biographies, Mobility tools

### **Preferred citation style**

Ohnmacht, T. (2005) Social Networks, Mobiliy Biographies and Mobility Tools , *Travel Survey Metadata Series*, **15**, Institute for Transport Planning and Systems (IVT); ETH Zürich, Zürich.

# 1.0 Document Description

## Citation

Title: Social Networks, Mobily Biographies and Mobility Tools

Subtitle: Social Networks and Future Mobilities

Alternative Title: Social Networks and Future Mobilities

Parallel Title: Social Networks and Future Mobilities

Identification Number: ifmo\_eth

Authoring Entity: Ohnmacht T. (IVT ETH Zurich)

Other identifications and acknowledgements: Prof. Kay W. Axhausen

Producer: Institute for Transport Planning and Systems

Copyright: Institute for Transport Planning and Systems

Date of Production: 2005-10-26

Software used in Production: Nesstar Hierarchy Builder

Distributor: Institute for Transport Planning and Systems

Access Authority: Ohnmacht T.

Access Authority: Prof. Kay W. Axhausen

Depositor: Institute for Transport Planning and Systems

Date of Deposit:

Date of  
Distribution:

Version: 1.0

Version  
Responsibility: Ohnmacht T.

## 2.0 Study Description

### Citation

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Funding Agency/Sponsor: IFMO Institut für Mobilitätsforschung Berlin

Version: 1.0

## Study Scope

Abstract:

The project Social Networks, Mobility Biographies and Mobility Tools addresses a possible determinant to help us understand travel behaviour: this being the size and structure of social networks. Whereas over last few decades, the motives and determinants of individual travel behaviour have been analysed from different perspectives (generalised costs of travel, role patterns out of sociodemographics, household interactions, time budgets, life styles etc.) this approach deals with the question of the spatial representation of ego-centric social networks and effects on social-activity-travel behaviour may cause. For that reason the conducted data is containing information about corporeal travel as well as communication travel in the context of socio ego-centric networks in terms of maintaining social relations.

Country:

Germany , Switzerland

## **Methodology and Processing**

Data Collector: Ohnmacht T.

Mode of Data  
Collection: Quantitative Survey

## **Sources Statement**

## **Other Study Description Materials**

### **Related Materials**

### **Related Studies**

### **Other Reference Note(s)**

## 3.0 File Description

### File: Persons.NSDstat

- File Structure: hierarchical
- Record Group
- Number of cases: 30
- No. of variables per record: 11
- Type of File: NSDstat 200203

## **3.0 File Description**

### **File: Life\_phases.NSDstat**

- File Structure: hierarchical
- Record Group
- Number of cases: 166
- No. of variables per record: 5
- Type of File: NSDstat 200203

## 3.0 File Description

### File: Car\_availability.NSDstat

- File Structure: hierarchical
- Record Group
- Number of cases: 58
- No. of variables per record: 5
- Type of File: NSDstat 200203

## 3.0 File Description

### File: Mode\_of\_transport.NSDstat

- File Structure: hierarchical
- Record Group
- Number of cases: 103
- No. of variables per record: 5
- Type of File: NSDstat 200203

## 3.0 File Description

### File: PT\_TICKETS.NSDstat

- File Structure: hierarchical
- Record Group
- Number of cases: 47
- No. of variables per record: 5
- Type of File: NSDstat 200203

## **3.0 File Description**

### **File: Geography.NSDstat**

- File Structure: hierarchical
- Record Group
- Number of cases: 1180
- No. of variables per record: 14
- Type of File: NSDstat 200203

## 4.0 Variable Description

### Variable Groups

- [Persons](#)
- [Socio demographics](#)
- [Index variables](#)
- [Life phases](#)
- [Index variables](#)
- [Car Availability](#)
- [Index variables](#)
- [Mode of transport](#)
- [Index variables](#)
- [Public transport tickets](#)
- [Index variables](#)
- [Relationships](#)
- [Index variables](#)

#### Persons

Variable Groups within *Persons*

- [Socio demographics](#)
- [Index variables](#)

#### Socio demographics

Variables within *Socio demographics*

- [ID Interviewee](#)
- [Gender](#)
- [Age](#)
- [Nationality](#)
- [Highest education in life](#)
- [Kind of Occupation](#)
- [Kind of working place](#)
- [Job status](#)
- [Status car availability](#)
- [Drivers licence ownership](#)

- [Drivers licence since](#)

## **Index variables**

Variables within *Index variables*

- [ID\\_Interviewee](#)

## **Life phases**

Variable Groups within *Life phases*

- [Index variables](#)

## **Life phases**

Variables within *Life phases*

- [ID\\_Interviewee](#)
- [Number of completed and running life course phases](#)
- [Start year of the corresponding life course phase](#)
- [End year of the corresponding life course phase](#)
- [Description of the corresponding life course phase](#)

## **Index variables**

Variables within *Index variables*

- [ID\\_Interviewee](#)
- [ID\\_Interviewee](#)

## **Car Availability**

Variable Groups within *Car Availability*

- [Index variables](#)

## **Car Availability**

Variables within *Car Availability*

- [ID\\_ Interviewee](#)
- [Gender](#)
- [Life course phase: Car availability](#)
- [Start year of the life course phase: car availability](#)
- [End year of the life course phase: car availability](#)
- [Availability car during the corresponding life course phase](#)

## **Index variables**

Variables within *Index variables*

- [ID\\_ Interviewee](#)
- [ID\\_ Interviewee](#)

## **Mode of transport**

Variable Groups within *Mode of transport*

- [Index variables](#)

## **Mode of transport**

Variables within *Mode of transport*

- [Gender](#)
- [Life course phase](#)
- [Most used mode of transport in the corresponding life course phase](#)
- [Start year of the mode of transport](#)
- [End year of the mode of transport](#)

## **Index variables**

Variables within *Index variables*

- [Gender](#)
- [ID Interviewee](#)

**Public transport tickets**

Variable Groups within *Public transport tickets*

- [Index variables](#)

**Public transport tickets**

Variables within *Public transport tickets*

- [Gender](#)
- [Age](#)
- [No of public transport ticket](#)
- [Mode of public transport](#)
- [Start year of public transportation ticket](#)
- [End year of public transportation ticket](#)

**Index variables**

Variables within *Index variables*

- [Gender](#)
- [Interviewee\\_ID](#)

**Relationships**

Variable Groups within *Relationships*

- [Index variables](#)

**Relationships**

### Variables within *Relationships*

- [Age](#)
- [Nationality](#)
- [Social Geography Number](#)
- [Interaction phase: Number](#)
- [Start year of the geography](#)
- [End year of the geography](#)
- [Relationship: Kind](#)
- [Location of the social relationship member](#)
- [Relationship: Strength](#)
- [Frequency of meetings](#)
- [Main mode of transport to visit social geography place](#)

### **Index variables**

#### Variables within *Index variables*

- [Age](#)
- [Nationality](#)
- [Nr\\_ Interviewee](#)
- [Location of the social geography: Latitude](#)
- [Location of the social geography: Longitude](#)
- [Location of the social geography: Geo-Code - X Coordinate](#)
- [Location of the social geography: Geo-Code - Y Coordinate](#)

# Variables

**Variable: ID Interviewee**

Location: *Range of Valid Data Values: 1 to 30*

Width: 11 **Summary Statistics:**

*Minimum : 1*

*Maximum : 30*

*Variable Format: numeric*

**Variable: Gender**

Location: *Question: Are you male or female?*

Width: 8

<b>Value</b>	<b>Label</b>	<b>Frequency</b>
0 .	Female	13
1 .	Male	17

*Range of Valid Data Values: 0 to 1*

**Summary Statistics:**

*Minimum : 0*

*Maximum : 1*

*Variable Format: numeric*

**Variable: Age**Location: *Question: How old are you?*

Width: 11

<b>Value</b>	<b>Label</b>	<b>Frequency</b>
26 .		1
27 .		2
29 .		3
30 .		2
31 .		1
32 .		2
33 .		1
34 .		1
38 .		2
40 .		1
41 .		1
42 .		3
43 .		1

49 .	1
53 .	1
58 .	1
62 .	1
64 .	1
65 .	1
70 .	1
80 .	1
85 .	1

*Range of Valid Data Values: 26 to 85*

**Summary Statistics:**

*Minimum : 26*

*Maximum : 85*

*Mean : 43.367*

*Standard deviation : 16.468*

*Variable Format: numeric*

**Variable: Nationality**

Location: *Question: Where are you from (Nationality)?*

Width: 8

<b>Value</b>	<b>Label</b>	<b>Frequency</b>
1 .	Swiss	11
2 .	German	19

*Range of Valid Data Values: 1 to 2*

**Summary Statistics:**

*Minimum : 1*

*Maximum : 2*

*Variable Format: numeric*

**Variable: Highest education in life**

Location: *Question:* Please choose the highest education which you have obtain in your life:

Width: 8

<b>Value</b>	<b>Label</b>	<b>Frequency</b>
1 .	Primary School Germany	0
2 .	Secondary School Germany	0
3 .	High School Germany	1
4 .	Training Germnay	7
5 .	Master Craftsman Germany	0
6 .	University Germany	2
7 .	Primary School Switzerland	0
8 .	Secondary School Switzerland	0
9 .	High School Switzerland	3
10 .	University "ETH" Switzerland	5
11 .	University Switzerland	1
12 .	Training Switzerland	7

13 . "Fachhochschule" Switzerland 4

*Range of Valid Data Values:* 1 to 13

**Summary Statistics:**

*Minimum :* 3

*Maximum :* 13

*Variable Format:* numeric

**Variable: Kind of Occupation**

Location: *Question:* What is your occupation?

Width: 47

<b>Value</b>	<b>Label</b>	<b>Frequency</b>
Accounting clerk .		2
Biologist .		1
Bricklayer/Educator/Bike Messenger .		1
Carpenter .		1
Civil engineer .		1
Custom manager .		1
Draftsmen .		1
Educator .		2
Engineer .		1
Grafic freelancer .		1
Ingeneer .		1
Interpreter .		1

Lawyer .	1
Management-Consultant .	1
Music educator .	1
PHD student .	1
Personal manager .	1
Pädagogische Mitarbeiterin .	1
Retailer .	1
Shopkeeper (Dipl. Kauffrau) .	1
Socologist + Housewife .	1
Student .	2
Student/ Grafic freelancer .	1
TV Editor .	1
TV Editor DRS 3 .	1
Technican .	1
Tradesman .	1

**Summary Statistics:**

*Variable Format:* character

**Variable: Kind of working place**

Location: *Question:* Where is your working place physically?

Width: 8

<b>Value</b>	<b>Label</b>	<b>Frequency</b>
1 .	Working place at home	7
2 .	Sales representative	3
3 .	Non-home work place	9

*Range of Valid Data Values:* 1 to 3

**Summary Statistics:**

*Minimum :* 1

*Maximum :* 3

*Variable Format:* numeric

**Variable: Job status**

Location: *Question:* What is your recent job status?

Width: 8

<b>Value</b>	<b>Label</b>	<b>Frequency</b>
1 .	Fully employed	9
2 .	Partly employed	8
3 .	Job search	0
4 .	pensioneer	5
5 .	In education	7
6 .	Housewife/Housemen	1

*Range of Valid Data Values:* 1 to 6

**Summary Statistics:**

*Minimum :* 1

*Maximum :* 6

*Variable Format:* numeric

**Variable: Status car availability**

Location: *Question: Do you have access to a car?*

Width: 8

<b>Value</b>	<b>Label</b>	<b>Frequency</b>
1 .	Ownership	14
2 .	Household	3
3 .	Friends car	3
4 .	Job car with private use	1
5 .	Job Car	0
6 .	Sharing	0
7 .	Car access	0

*Range of Valid Data Values: 1 to 7*

**Summary Statistics:**

*Minimum : 1*

*Maximum : 4*

*Variable Format: numeric*

**Variable: Drivers licence ownership**

Location: *Question: Do you have a driver licence?*

Width: 11

<b>Value</b>	<b>Label</b>	<b>Frequency</b>
0 .	No	3
1 .	Yes	27

*Range of Valid Data Values: 0 to 1*

**Summary Statistics:**

*Minimum : 0*

*Maximum : 1*

*Variable Format: numeric*

***Variable: Drivers licence since***

Location: *Question: Since which year do you have a drivers licence?*

Width: 11

<b>Value</b>	<b>Label</b>	<b>Frequency</b>
1950 .		1
1959 .		1
1961 .		1
1963 .		1
1964 .		1
1967 .		1
1974 .		1
1978 .		1
1981 .		3
1982 .		1
1983 .		1
1988 .		1
1990 .		2

1991 .	1
1992 .	1
1993 .	4
1994 .	1
1995 .	1
1996 .	2
1997 .	1
Sysmiss .	3

*Range of Valid Data Values: 1950 to 1997*

**Summary Statistics:**

*Minimum : 1950*

*Maximum : 1997*

*Mean : 1982.407*

*Standard deviation : 13.506*

*Variable Format: numeric*

**Variable: ID Interviewee**

Location: *Range of Valid Data Values: 1 to 30*

Width: 11 **Summary Statistics:**

*Minimum : 1*

*Maximum : 30*

*Variable Format: numeric*

***Variable:* Number of completed and running life course phases**

Location:                      **Value**                      **Label**                      **Frequency**

Width: 11

1 .			30
2 .			30
3 .			30
4 .			29
5 .			22
6 .			12
7 .			6
8 .			4
9 .			2
10 .			1

*Range of Valid Data Values: 1 to 10*

**Summary Statistics:**

*Minimum : 1*

*Maximum : 10*

*Mean : 3.494*

*Standard deviation : 1.987*

*Variable Format: numeric*

**Variable: Start year of the corresponding life course phase**

Location: *Question:* In what year the life course has started?

Width: 11

Value	Label	Frequency
1920 .		1
1925 .		1
1928 .		1
1931 .		1
1935 .		1
1938 .		1
1940 .		1
1941 .		2
1943 .		2
1944 .		1
1947 .		2
1948 .		2
1950 .		1

1951 .	1
1954 .	1
1955 .	1
1956 .	1
1957 .	1
1958 .	1
1959 .	1
1960 .	3
1961 .	2
1962 .	3
1963 .	4
1964 .	1
1965 .	2
1966 .	1
1967 .	1
1968 .	4

1969 .	2
1970 .	4
1971 .	3
1972 .	1
1973 .	4
1974 .	2
1975 .	3
1976 .	3
1978 .	4
1979 .	3
1980 .	2
1981 .	2
1982 .	4
1983 .	2
1984 .	5
1985 .	5

1986 .	2
1987 .	1
1988 .	1
1989 .	5
1991 .	3
1992 .	3
1993 .	4
1994 .	1
1995 .	6
1996 .	3
1997 .	3
1998 .	8
1999 .	7
2000 .	5
2001 .	6
2002 .	7

2003 . 5

2004 . 2

*Range of Valid Data Values:* 1920 to 2004

**Summary Statistics:**

*Minimum :* 1920

*Maximum :* 2004

*Mean :* 1979.398

*Standard deviation :* 19.528

*Variable Format:* numeric

**Variable: End year of the corresponding life course phase**

Location: *Question:* In what year the life course has ended?

Width: 11

Value	Label	Frequency
1927 .		1
1930 .		1
1937 .		1
1940 .		1
1942 .		1
1943 .		1
1946 .		1
1947 .		2
1955 .		1
1957 .		1
1958 .		2
1959 .		2
1960 .		2

1961 .	3
1962 .	1
1963 .	1
1964 .	1
1966 .	1
1967 .	1
1968 .	3
1969 .	2
1970 .	4
1971 .	1
1973 .	1
1974 .	3
1978 .	3
1979 .	2
1980 .	2
1981 .	2

1982 .	4
1983 .	3
1984 .	4
1985 .	4
1986 .	1
1987 .	1
1988 .	2
1989 .	4
1990 .	3
1991 .	1
1992 .	3
1993 .	3
1994 .	2
1995 .	6
1996 .	7
1997 .	4

1998 .	6
1999 .	7
2000 .	4
2001 .	7
2002 .	3
2003 .	6
2004 .	10
2005 .	23

*Range of Valid Data Values: 1927 to 2005*

**Summary Statistics:**

*Minimum : 1927*

*Maximum : 2005*

*Mean : 1987.295*

*Standard deviation : 18.13*

*Variable Format: numeric*

**Variable: Description of the corresponding life course phase**

Location: *Question:* Which attribute is corresponding with the life course phase?

Width: 8

<b>Value</b>	<b>Label</b>	<b>Frequency</b>
1 .	Parental house	31
2 .	School	32
3 .	Education	20
4 .	Military / Civil service	9
5 .	Job search	5
6 .	Work	34
7 .	Pension	4
8 .	Miscellaneous	31

*Range of Valid Data Values:* 1 to 8

**Summary Statistics:**

*Minimum :* 1

*Maximum :* 8

*Variable Format:* numeric

**Variable: ID Interviewee**

Location: *Range of Valid Data Values: 1 to 30*

Width: 11 **Summary Statistics:**

*Minimum : 1*

*Maximum : 30*

*Variable Format: numeric*













































































































































































