

TimeUse+ Pretest Data and variable description

Other Research Data

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Publication date: 2023-01

Permanent link: https://doi.org/10.3929/ethz-b-000609796

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Originally published in: Travel Survey Metadata Series 89

Funding acknowledgement: 189001 - Consumption and travel after the smartphone revolution (SNF)

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TimeUse+ Pretest: Data and variable description

Caroline Winkler Adrian Meister Ueli Isenschmid Karina Lerdo de Tejada Acosta Basil Schmid Kay W. Axhausen

Travel Survey Metadata Series 85

Institut für Verkehrsplanung und Transportsysteme Institute for Transport Planning and Systems January 2023



Eidgenössische Technische Hochschule Zürich Swiss Federal Institute of Technology Zurich

TimeUse+ Pretest: Data and variable description

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January 2023

Abstract

The TimeUse+ study is an effort to collect data to understand daily patterns in travel, time use, and expenditure behavior. Study participation begins with an initial survey that collects personal and household level characteristics along with information on mobility tool ownership. Next, participants took part in either 14 or 28 days of tracking and validating, or annotating, their passively recorded events with all of the activities their performed at each location or during travel. For each activity, some or all of the following attributes had to be validated: duration, social partners, and expenditures. The TimeUse+ smartphone app was developed specifically for this project and the tracking portion relies on the software development kit from MotionTag (www.motiontag.com). After a successful tracking period, participants completed a final questionnaire that mainly collected long-term expenditure information. 7,500 individuals were invited to participated in this pretest between March and April 2022, and 205 successfully completed all three parts (i.e. net response rate around 2.7%).

Keywords

Codebook, list of variables, GPS data, time use and travel data, expenditure data

Suggested Citation

Winkler, C., A. Meister, U. Isenschmid, K. Lerdo de Tejada Acosta, B. Schmid and K.
W. Axhausen (2023) TimeUse+ Pretest: Data and variable description, *Travel Survey Metadata Series 85*, Institute for Transport Planning and Systems (IVT), ETH Zurich, Zurich.

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Study description

Title

TimeUse+ Pretest

Creator

Caroline Winkler (IVT, ETH Zurich)

Subject

Codebook, list of variables, initial and final questionnaire data, tracking summary data, GPS tracking with diary information

Description

The TimeUse+ study is an effort to collect data to understand daily patterns in travel, time use, and expenditure behavior. Study participation begins with an initial survey that collects personal and household level characteristics along with information on mobility tool ownership. Next, participants took part in either 14 or 28 days of tracking and validating, or annotating, their passively recorded events with all of the activities their performed at each location or during travel. For each activity, some or all of the following attributes had to be validated: duration, social partners, and expenditures. The TimeUse+ smartphone app was developed specifically for this project and the tracking portion relies on the software development kit from MotionTag (www.motiontag.com). After a successful tracking period, participants completed a final questionnaire that mainly collected long-term expenditure information. 7,500 individuals were invited to participated in this pretest during March and April 2022, and 205 successfully completed all three parts (i.e. net response rate around 2.7%).

This pretest aimed to test different configurations of the TimeUse+ study. To that end, 1) study duration, 2) activity list complexity, and 3) incentive level were tested. The five groups tested had the following characteristics (1,500 invitations sent per group):

- 1. 28 days tracking & validating /detailed activity list /50 CHF incentive
- 2. 28 days tracking & validating /simple activity list /50 CHF incentive
- 3. 14 days tracking & validating /detailed activity list /50 CHF incentive
- 4. 14 days tracking & validating /simple activity list /50 CHF incentive
- 5. 28 days tracking & validating /detailed activity list /100 CHF incentive

With respect to the detailed vs. simple activity lists, simple lists of activities are a shorter, aggregated version of the detailed versions.

| | Simple | Detailed |
|-------|---|--|
| Home | Sleeping Self-care Eating and cooking Chores Leisure Digital entertainment Working or studying Online Shopping | Sleeping Self-care, Resting Eating and cooking General household work, caretaking Exercising, Socializing, Entertainment Digital entertainment Home-office, Studying Online shopping Other |
| Other | Shopping Leisure Eating and drinking Waiting Errands Working or studying Overnight stay | Shopping Gastronomy, Entertainment, Socializing, Exercising Eating and cooking (without expenses) Waiting Errands, Caretaking, Person pick up/drop off, Package pick up/drop off Coworking, Studying Sleeping, Resting, Self-care Other |
| Work | Working Other | Working Other |

Table 1: Full list of activities

Group affiliation is included in the participants_tracking_summary.EXT files.

Publisher

Institute for Transport Planning and Systems (IVT), ETH Zurich

Contributor

Adrian Meister

Ueli Isenschmid

Karina Lerdo de Tejada Acosta

Basil Schmid

Kay W. Axhausen

Date

2023-01-30

Туре

Codebook, surveydata

Format

Portable document format (pdf), R data (.Rda), comma-separated (.csv)

Source

https://www.ivt.ethz.ch/
https://www.timeuse.ethz.ch/

Language

Codebook contents are described in English.

Questionnaires were available in English and German; the app (tracking data) in English, German, French, and Italian. The p_language variable in the participant.EXT files indicates which language the initial questionnaire was filled out in.

Relation

https://www.ivt.ethz.ch/ https://www.timeuse.ethz.ch/

Coverage

German speaking part of Switzerland, 2022. Adults only.

Rights

Institute for Transport Planning and Systems (IVT), ETH Zurich

Other identifications, funding and acknowledgements

The project was financed by the Swiss National Science Foundation (SNF).

Unit of analysis

Adult respondents from the German speaking part of Switzerland

Document responsibility

Caroline Winkler

Email: caroline.winkler at ivt.baug.ethz.ch

Participants: File description

Title: participants.rda, participants.csv

Contents: Data from the initial and final questionnaires, 106 variables from 205 participants.

Data collection: Merged from both Qualtrics questionnaires

Unit of analysis: Individual data. Each row corresponds to a unique respondent. Household-level characteristics are prefixed by hh_.

File Structure: Data frame, with participant_id uniquely identifying each row. Columns 4 - 60 stem from the initial questionnaire (before tracking period), while columns 61 - 106 are from the final questionnaire.

Number of cases: 205. Variables per record: 106.

Participants: Variables

participant_id: Participant identification number

Format = numeric.

survey_date_intro: Recorded date introductory questionnaire

Format = POSIXct, POSIXt, numeric.

survey_date_final: Recorded date final questionnaire

Format = POSIXct, POSIXt, numeric.

distribution_channel: Whether participant used the QR code for the initial online questionnaire

Format = character.

| | qr | anonymous |
|-------|-----|-----------|
| Count | 172 | 33 |

p_language: Initial questionnaire language

Format = character.

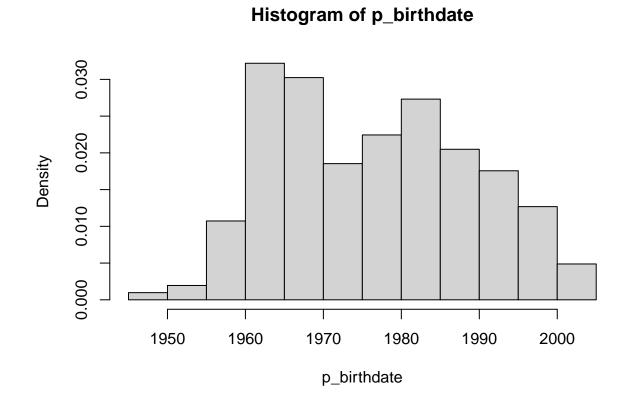
| | DE | EN |
|-------|-----|----|
| Count | 194 | 11 |

p_sex: Sex

| | female | male |
|-------|--------|------|
| Count | 101 | 104 |

p_birthdate: Birth year

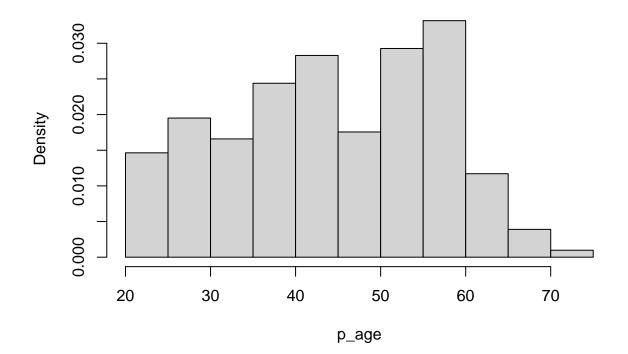
Format = numeric.



p_age: Age at time of study (2022)

Format = numeric.

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. |
|------|---------|--------|-------|---------|------|
| 20 | 35 | 45 | 44.82 | 55 | 74 |



Histogram of p_age

p_age_group: Age group (2022)

| | 18 - 40 | 41 - 55 | 56 - 65 | 66 + |
|-------|---------|---------|---------|------|
| Count | 77 | 77 | 46 | 5 |

p_citizenship_swiss: Whether the participant is a Swiss citizen

Format = character.

| | Switzerland | Other |
|-------|-------------|-------|
| Count | 192 | 13 |

p_citizenship_2: Country of citizenship (non-Swiss)

Format = character.

| | Switzerland | Germany | France | Portugal | Italy | Colombia |
|-------|-------------|---------|--------|----------|-------|----------|
| Count | 12 | 3 | 1 | 1 | 2 | 1 |
| | | | | | | |
| | | Austria | Serbia | Spain | NA's | |
| | Count | 1 | 1 | 1 | 182 | |

p_citizenship_3: First country of dual (or multiple) citizenship (non-Swiss)

| | Germany | NA's |
|-------|---------|------|
| Count | 1 | 204 |

p_citizenship_4: Second country of dual (or multiple) citizenship

Format = character.

| | Germany | Austria | Finland | l Bosnia and Herzegovina | Turkey |
|-------|---------|---------|---------|------------------------------|--------|
| Count | 3 | 1 | - | L 1 | 1 |
| | | | | | |
| | | | | United Kingdom of Great | |
| | Serbia | Italy | Brazil | Britain and Northern Ireland | NA's |
| Count | 1 | 4 | 1 | 1 | 191 |

p_educ: Participant's highest completed level of education

Format = character.

| | Secondary education (e.g., | Higher education (e.g. |
|-------|----------------------------|------------------------|
| | apprenticeship or diploma) | university) |
| Count | 119 | 80 |
| | | |
| | Mandator | y education |
| | Mandator | y cuucation |

p_occup_1_employed: Normal employment

| | employed | NA's |
|-------|----------|------|
| Count | 168 | 37 |

p_occup_1_selfemployed: Self-employment

Format = character.

| | self-employed | NA's |
|-------|---------------|------|
| Count | 11 | 194 |

p_occup_1_student: Student/trainee

Format = character.

| | student | NA's |
|-------|---------|------|
| Count | 18 | 187 |

p_occup_1_other: Other occupational status

Format = character.

| | other | NA's |
|-------|-------|------|
| Count | 16 | 189 |

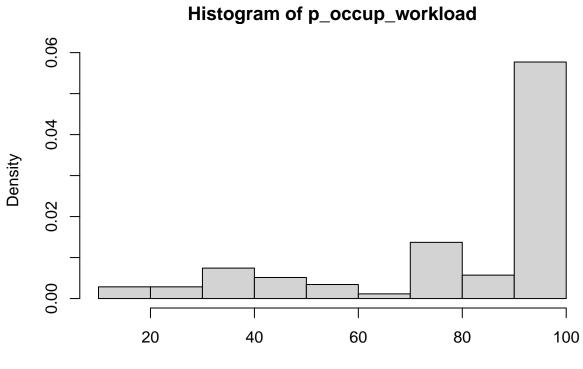
p_occup_employed: Employment vs. self-employment

| | employed | self-employed | NA's |
|-------|----------|---------------|------|
| Count | 168 | 6 | 31 |

p_occup_workload: Percent of full time employment

Format = numeric.

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. | NA's |
|------|---------|--------|-------|---------|------|------|
| 15 | 80 | 100 | 83.35 | 100 | 100 | 30 |



p_occup_workload

p_occup_loc_regularity: Whether main work location changes regularly

| | No, I have a | fixed workplace | Yes, we | eekly or more often |
|-------|--------------|-----------------|---------|---------------------|
| Count | | 149 | | 15 |
| | | | | |
| | | Yes, monthly | NA's | |
| | Count | 1 | 40 | |

p_occup_plz: Postcode of main place of employment

Format = numeric.

p_occup_plz_otherloc: Postcode of the second most frequented place of employment

Format = numeric.

p_occup_shift: Whether participant works in shifts

Format = character.

| | Yes | No | NA's |
|-------|-----|-----|------|
| Count | 21 | 154 | 30 |

p_occup_shorttimework: Whether participant is in short time work

Format = character.

| | No | Yes | NA's |
|-------|-----|-----|------|
| Count | 173 | 2 | 30 |

p_occup_n_days: Number of days per week that the participant works at their usual workplace away from home

Format = numeric.

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. | NA's |
|------|---------|--------|-------|---------|------|------|
| 0 | 2 | 3 | 3.257 | 5 | 7 | 30 |

p_occup_wfh_possibility: Whether participant is allowed to work from home

Format = character.

| | | | No, but I worked from home | |
|-------|---------------|-----|----------------------------|------|
| | | | during COVID-19 related | |
| | No, never did | Yes | lockdowns | NA's |
| Count | 67 | 87 | 21 | 30 |

p_occup_wfh_n_days: Number of days per week that the participant works from home

Format = numeric.

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. | NA's |
|------|---------|--------|-------|---------|------|------|
| 0 | 1 | 1 | 2.092 | 3 | 7 | 118 |

p_occup_wfh_n_days_covid: Number of days per week that the participant worked from home in the average week during COVID-19 related lockdowns

Format = numeric.

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. | NA's |
|------|---------|--------|-------|---------|------|------|
| 0 | 1 | 4 | 3.241 | 5 | 7 | 97 |

p_ptmobtool_ga1cl: Whether the participant owns a 1st class national (unlimited) railway pass

| | ga1cl | NA's |
|-------|-------|------|
| Count | 3 | 202 |

p_ptmobtool_ga2c1: Whether the participant owns a 2nd class national (unlimited) railway pass

Format = character.

| | ga2cl | NA's |
|-------|-------|------|
| Count | 27 | 178 |

p_ptmobtool_ht: Whether the participant owns a half-fare card (Halbtax)

Format = character.

| | ht | NA's |
|-------|-----|------|
| Count | 126 | 79 |

p_ptmobtool_regional_or_point_to_point: Whether the participant owns a regional or 'point-to-point' public transport pass

Format = character.

| | $regional_point2point$ | NA's |
|-------|------------------------|------|
| Count | 30 | 175 |

p_ptmobtool_seven25: Whether the participant owns a seven25 (Gleis 7) pass

| | seven25 | NA's |
|-------|---------|------|
| Count | 1 | 204 |

p_ptmobtool_other: Whether the participant owns another public transport pass

Format = character.

| | other | NA's |
|-------|-------|------|
| Count | 3 | 202 |

$\ensuremath{\texttt{p_driverslicense}}$: Whether the participant owns a driver's license for cars

Format = character.

| | Yes | No |
|-------|-----|----|
| Count | 196 | 9 |

p_motolicense: Whether the participant owns a driver's license for motorbikes

Format = character.

| | No | Yes |
|-------|-----|-----|
| Count | 118 | 87 |

p_carsharing_subscription: Whether the participant has a carsharing subscription

| | No | Yes | NA's |
|-------|-----|-----|------|
| Count | 172 | 24 | 9 |

p_carsharing_user: Whether the participant has used the carsharing service they have a subscription for in the past 12 months

Format = character.

| | Yes | No | NA's |
|-------|-----|----|------|
| Count | 13 | 11 | 181 |

p_bikesharing_subscription: Whether the participant has a bikesharing subscription

Format = character.

| | No | Yes |
|-------|-----|-----|
| Count | 202 | 3 |

p_bikesharing_user: Whether the participant has used the bikesharing service they have a subscription for in the past 12 months

| Format = 0 | character. |
|------------|------------|
|------------|------------|

| | No | Yes | NA's |
|-------|----|-----|------|
| Count | 1 | 2 | 202 |

p_car_access: How often the participant has access to a car

| | No, but I can arrange to borrow one | | | |
|-------|-------------------------------------|-----|----|------|
| | from someone (e.g., my partner, | | | |
| | friend, neighbor) | Yes | No | NA's |
| Count | 22 | 152 | 22 | 9 |

p_motorbike_access: How often the participant has access to a car

| | | | No, but I can arrange to borrow one | |
|-------|----|-----|-------------------------------------|------|
| | | | from someone (e.g., my partner, | |
| | No | Yes | friend, neighbor) | NA's |
| Count | 57 | 27 | 3 | 118 |

p_bike_access: How often the participant has access to a car

Format = character.

| | | | No, but I can arrange to borrow one |
|-------|----|-----|-------------------------------------|
| | | | from someone (e.g., my partner, |
| | No | Yes | friend, neighbor) |
| Count | 28 | 173 | 4 |

hh_privatemobtool_bike_regular: Whether the participant owns a normal bicycle

Format = character.

| | bike-regular | NA's |
|-------|--------------|------|
| Count | 141 | 64 |

<code>hh_privatemobtool_bike_e25: Whether the participant owns an e-bike with 25 km/h max. speed</code>

| | bike-e25 | NA's |
|-------|----------|------|
| Count | 42 | 163 |

<code>hh_privatemobtool_bike_e45: Whether the participant owns an e-bike with 45 km/h max. speed</code>

Format = character.

| | bike-e45 | NA's |
|-------|----------|------|
| Count | 8 | 197 |

car_fuel: Fuel type of main car

Format = character.

car_year: Year of main car

Format = character.

car_size: Size of main car

Format = character.

car_engine: Engine size of main car

Format = logical.

parking_spaces: Number of owned or rented parking spaces at home

| | 1 | 2 | more than 3 | 3 | None | NA's |
|-------|----|----|-------------|----|------|------|
| Count | 69 | 49 | 19 | 12 | 3 | 53 |

parking_spaces_cost: Monthly cost of parking spaces at home

Format = character.

| | up to 100 CHF | 0 CHF | 101 - 200 CHF | 301 - 400 | 201 - 300 CHF |
|-------|-------------------------|-------|---------------|-----------|---------------|
| Count | 30 | 71 | 40 | 3 | 5 |
| | | | | | |
| | | | NA's | | |
| | | Cour | nt 56 | | |

parking_work: Number of owner or rented parking spaces at work

Format = character.

| | None | 1 | more than 3 | 3 | 2 | NA's |
|-------|------|----|-------------|---|---|------|
| Count | 86 | 52 | 11 | 2 | 1 | 53 |

parking_work_cost: Monthly cost of parking spaces at work

Format = character.

| | 0 CHF | up to 100 CHF | 101 - 200 CHF | NA's |
|-------|-------|---------------|---------------|------|
| Count | 38 | 24 | 4 | 139 |

hh_postcode: Home postcode

Format = numeric.

hh_income: Gross household income per month (in CHF)

Format = character.

| | 4 001 - 8 000 CHF | More than 16 000 CH | IF 8 001 - 12 00 | 00 CHF |
|-------|---------------------|--------------------------------|-------------------|--------|
| Count | 69 | - | 13 | 58 |
| | | | | |
| | 12 001 - 16 000 CHF | $4\ 000\ \mathrm{CHF}$ or less | Prefer not to say | NA's |
| Count | 30 | 20 | 14 | 1 |

hh_dogs: Whether household owns dogs

Format = character.

| | No | Yes | NA's |
|-------|-----|-----|------|
| Count | 187 | 17 | 1 |

hh_size_total: Total household size

Format = character.

| | 2 | 4 | 5 or more | 1 | 3 | NA's |
|-------|----|----|-----------|----|----|------|
| Count | 67 | 44 | 16 | 43 | 34 | 1 |

hh_young_kids: Do any children aged 12 or younger live in the household?

| | youngkids | NA's |
|-------|-----------|------|
| Count | 46 | 159 |

living_movein: Year moved into current residence

Format = numeric.



Histogram of living_movein

living_situation: Current residential situation (renter/owner)

| | I live in a housing | I own my home and pay a | |
|-------|---------------------|------------------------------------|----------------|
| | cooperative | mortgage | I rent my home |
| Count | 50 | 109 | 43 |
| | | | |
| | | | |
| | I ow | vn my home and have paid it o | off |
| | I ow | vn my home and have paid it of ful | |

living_rentcost: Cost of monthly rent (renters)

Format = character.

| | between $1,501$ CHF and $2,000$ CHF | between 1,000 CHF and 1,5 | 500 CHF |
|-------|-------------------------------------|---------------------------|---------|
| Count | 29 | | 20 |
| | | | _ |
| | between 2,001 CHF and 2,500 $$ | 0 CHF up to 1,000 CH | F |
| Coun | t | 18 | 6 |
| | | | _ |
| | between 2,501 CHF and 3,000 C $$ | HF I do not pay my | rent |
| Count | | 4 | 5 |
| | | | |
| | between $3,001$ CHF and $3,500$ | | |
| | CHF | more than $4,000$ CHF | NA's |
| Count | 3 | 2 | 112 |

living_perc_rent: Percentage of total rent participant personally pays for

| | between 51 and 80% | 100% | up to 49 | 9% | 50% | 0% |
|-------|-----------------------|------------|----------|------|-----|----|
| Count | 7 | 35 | | 12 | 24 | 13 |
| | | | | | | |
| | betw | een 81 and | 1 99% | NA's | | |
| | Count | | 2 | 112 | | |
| | | | | | | |

living_mortgagecost: Cost of monthly mortgage (owners)

| | between 3 | ,001 CHF and $3,500$ CHF | between 1,001 | CHF and | 1,500 CHF |
|-------|-----------|--------------------------|---------------|------------|-----------|
| Count | | 3 | | | 29 |
| | | | | | |
| | between 1 | ,501 CHF and 2,000 CHF | between 2,001 | CHF and | 2,500 CHF |
| Count | | 13 | | | 7 |
| | | | | | |
| _ | | up to 1,000 CHF | I do not pa | ay my rent | |
| _ | Count | 51 | | 3 | |
| _ | | | | | |
| | | between 2,501 CHF an | d 3,000 CHF | NA's | |
| | Count | | 2 | 97 | |

living_perc_mortgage: Percentage of total mortgage participant personally pays for

| | 50% | 100% | 0% | up to 49% | between 51 and 80% | NA's |
|-------|-----|------|----|--------------|-----------------------|------|
| Count | 26 | 54 | 11 | 11 | 5 | 98 |

living_clothes: Amount of money spent on clothing for oneself in the past year

| 2,000 CH | between $1,001$ and 2 | $501 \ \mathrm{and} \ 1{,}000 \ \mathrm{CHF}$ | between |
|-----------|-------------------------|---|---------|
| 3 | | 64 | int |
| 1 500 CHF | between 251 and | 101 CHF and 250 CHF | between |
| 55 | | 28 | ount |
| | over 2,000 CHF | up to 100 CHF | |
| | 11 | 14 | Count |

living_hhitems: Amount spent on household items in the past year

| | between 251 and 500 CHF | over 2,000 CHF $$ | up to 100 CHF |
|-------|-----------------------------|-------------------|-----------------|
| Count | 60 | 16 | 28 |
| | | | |
| | between 501 and $1,000$ CHF | between 1,00 | 1 and 2,000 CHF |
| Count | 35 | 5 | 14 |
| | | | |
| | between 10 | 1 CHF and 250 CHF | - |
| | Count | 52 | - |

living_hh_appliances: Amount spent on household appliances in the past year

| nat = character. |
|------------------|
| nat = character. |

| | betwe | een 101 CHF and 250 CHF | between 501 and $1,00$ | 00 CH |
|-------|-------|-----------------------------|------------------------|-------|
| Count | | 36 | | |
| - | | between 251 and 500 CHF | up to 100 CHF | |
| - | Count | 36 | 93 | |
| | | between 1,001 and 2,000 CHF | F over 2,000 CHF | |
| | Count | 12 | 2 9 | |

living_sports_equip: Amount of money spent on sports equipment in the past year

| | between 251 and 500 CHF | up to 100 CHF | |
|--------|-----------------------------|--------------------------|-------|
| | 48 | 47 | Count |
| | | | |
| 0 CHF | between $1,001$ and $2,000$ | veen 501 and $1,000$ CHF | ł |
| 21 | | 31 | Count |
| | | | |
| - ק | ween 101 CHF and 250 CHF | over 2,001 CHF be | |
| | | | |

online_internet_time: Number of hours spent on the internet weekly

Format = character.

| | more than 25 hours | between 6 and 24 | hours | less than 5 hours |
|-------|--------------------|----------------------|-------|-------------------|
| Count | 62 | | 109 | 18 |
| | | | | |
| | | NA's | | |
| | Co | unt 16 | | |
| | | | | |

online_ict_devices: Which of the following IT devices do you own?
- Multiple answers possible

Format = character.

online_prod_type: Types of products the participant buys online -Multiple answers possible

Format = character.

online_order_freq: Frequency of online product purchases

| | less than once a month up to | to 4 times per month | | |
|-------|-------------------------------|----------------------|------|--|
| Count | 83 | | 8 | |
| | more than four times per more | nth | NA's | |
| Count | | 17 | 16 | |

subs_phoneTVinternet: Amount spent on combined phone, internet and TV plan monthly

| | between 31 and 70 CHF | between | 101 and 150 CH |
|-------|-----------------------------|-----------|----------------|
| Count | 48 | | |
| | | | |
| | more than 150 CHF | between 7 | 71 and 100 CHF |
| Count | 27 | | 44 |
| | | | |
| | I do not have a combi | ined plan | up to 30 CHF |
| Count | | 16 | 10 |

Format = character.

subs_phoneplan: Amount spent on mobile phone plan monthly

| | up to 30 CHF | between 71 and | 100 CHF |
|-------|-------------------|------------------|---------|
| Count | 14 | | 1 |
| | | | |
| | I do not have a m | obile phone plan | NA's |
| Count | | 1 | 189 |

subs_homewifi: Amount spent on home internet plan monthly

| Format = ch | naracter. |
|-------------|-----------|
|-------------|-----------|

| | up to 30 CHF | between 31 and 70 CHF $$ | betwee | n 71 and 100 CHF |
|-------|--------------|-------------------------------|--------|--------------------|
| Count | 7 | 7 | | 1 |
| | | | | |
| | Ι | do not have a home internet p | olan | NA's |
| | Count | | 1 | 189 |

${\tt subs_TVplan}:$ Amount of money spent on a cable/satellite TV plan monthly

| | | I do not have a cable (or | | |
|-------|------------------------|---------------------------|-----------|---------------------------|
| | up to 30 CHF | satellite plan) at home | between 7 | $^{\prime 1}$ and 100 CHF |
| Count | 8 | 6 | | 1 |
| | | | | |
| | | between 30 and 70 CHF | NA's | |
| | Count | 1 | 189 | |
| | | | | |

services_TVstreaming: Amount of money spent on TV streaming services per month

| reamir | I do not use a TV str | | | |
|------------|-------------------------|-------------|-------------------|---------|
| servi | | p to 10 CHF | n 11 and 30 CHF | between |
| 8 | | 30 | 57 | Count |
| | | | | |
| ΓV | I use someone else's | | | |
| int | streaming service accou | CHF | between 31 and | |
| 15 | | 12 | | Count |
| | | | | |
| | tween 81 and 100 CHF | CHF be | more than 1 | |
| | 1 | 1 | | Count |

Format = character.

services_musicstream: Amount of money spent on music streaming services per month

| | I do not use | a music streaming service | between 11 and 30 CHF |
|------|--------------|---------------------------|---------------------------|
| Со | unt | 110 | 52 |
| | | | |
| | | I use someone else's mu | sic |
| | up to 10 CHF | streaming service accou | int between 31 and 80 CHF |
| Coun | t 33 | | 9 1 |

services_education: Amount of money spent on education per month

Format = character.

| | up to 10 CHF | between 81 and 1 | 00 CHF be | etween 11 and 30 CHF |
|-------|------------------------|----------------------|------------|----------------------|
| Count | 140 | | 12 | 26 |
| | | | | |
| | mor | e than 100 CHF | between 31 | and 80 CHF |
| | Count | 13 | | 14 |

services_childcare: Amount of money spent on childcare per month

| | e no children in the | | |
|---------------|-------------------------|---|--|
| | household | between 801 and | 1,000 CHF |
| | 156 | | 4 |
| | | | |
| up to 100 CHF | between 301 and 800 | CHF between 101 | and 300 CHF |
| 26 | | 7 | 1(|
| | | | |
| | between 1,001 | and 2,000 CHF | |
| Count | | 2 | |
| | 26 | 156 up to 100 CHF between 301 and 800 26 between 1,001 | 156 up to 100 CHF between 301 and 800 CHF between 101 26 7 between 1,001 and 2,000 CHF |

services_cleaning: Amount of money spent on cleaning services per month

| | I never hire cleaners | more than 100 CHF |
|-------|----------------------------|-----------------------------|
| Count | 171 | 24 |
| | | |
| | | |
| | between 51 CHF and 100 CHI | F up to 50 CHF |

services_hobbies: Amount of money spent on hobbies per month

Format = character.

| | 0 CHF | between 81 an | d 100 CHF | between | 11 and 30 CHF |
|-------|-----------|---------------|-----------|---------|---------------|
| Count | 64 | | 19 | | 45 |
| | | | | | |
| | between 3 | 31 and 80 CHF | more than | 100 CHF | up to 10 CHF |
| Count | | 30 | | 25 | 22 |

services_printmedia: Amount of money spent on print media per month

| | $0 \ \mathrm{CHF}$ | between 11 an | d 30 CHF | between 81 and | 100 CHF |
|-------|--------------------|---------------|-------------|----------------|-----------|
| Count | 95 | | 40 | | 5 |
| | | | | | |
| | between 3 | 1 and 80 CHF | up to 10 CI | HF more that | n 100 CHF |
| Count | | 28 | | 30 | 7 |

services_beauty: Amount of money spent on beauty services per month

Format = character.

| | | 0 CHF h | between 11 and 30 CHF | up to 10 CHF |
|-------|--------|-----------------|------------------------|---------------------|
| _ | Count | 56 | 49 | 30 |
| | | | | |
| | betwee | n 31 and 80 CHF | between 81 and 100 CHI | F more than 100 CHF |
| Count | t | 48 | 3 13 | 3 9 |
| | | | | |

services_wellness: Amount of money spent on wellness services per month

Format = character.

| | $0 \mathrm{CHF}$ | between 11 a | and 30 CHF | betwee | en 31 and 80 CHF |
|-------|-------------------|--------------|-------------------|--------|--------------------|
| Count | 136 | | 19 | | 14 |
| | | | | | |
| | between 81 | and 100 CHF | up to 10 (| CHF | more than 100 CHF |
| Count | | 14 | | 15 | 7 |

services_counceling: Amount of money spent on counseling services per month

| | $0 \mathrm{CHF}$ | between 50 and 100 | CHF | between 100 and | d 200 CHF |
|-------|-------------------|------------------------|------|-----------------|-----------|
| Count | 172 | | 13 | | 5 |
| | | | | | |
| | | up to 50 CHF | more | e than 200 CHF | |
| | Count | 9 | | 6 | |

health_insurance: Monthly cost of health insurance premium

Format = character.

| | between 301 and 4 | 00 CHF between | 401 and 500 CHF |
|-------|--|----------------------|-----------------------------|
| Cou | nt | 59 | 33 |
| | | | |
| | between 100 and 300 CHF | more than 500 CHF $$ | less than 100 CHF |
| Count | 90 | 21 | 2 |

health_suppl_insuran: Amount spent on supplementary health insurance per month

Format = character.

| | between | 20 and 50 CHF | between 101 and | d 250 CHF | less than 2 | 0 CHF |
|-------|---------|-----------------|-------------------|--------------|-------------|-------|
| Count | | 77 | | 25 | | 18 |
| _ | | | | | | |
| _ | | between 51 | 1 and 100 CHF | more tha | n 250 CHF | |
| | Count | | 54 | | 9 | |
| _ | | | | | | |
| | | I do 1 | not have a supple | ementary hea | llth | |
| | | | | insurance p | lan | |
| | Co | ount | | | 22 | |

health_accident_insu: Whether the participant has an active accident insurance policy

| | Yes, my employer covers my | Yes, I pay for it as part of my | |
|-------|----------------------------|---------------------------------|----|
| | accident insurance | health insurance | No |
| Count | 161 | 39 | 5 |

health_liability_ins: Whether the participant has an active third-partly liability insurance policy

Format = character.

| | Yes | No |
|-------|-----|----|
| Count | 196 | 9 |

health_home_insuranc: Whether the participant has an active household contents insurance policy

Format = character.

| | Yes | No |
|-------|-----|----|
| Count | 190 | 15 |

vacation_duringstudy: Whether a participant took time off of work during study participation

| | No | Yes |
|-------|-----|-----|
| Count | 153 | 52 |

vacation_yearly: Number of weeks of vacation per year

Format = character.

| | 4 - 5 weeks | 5 - 6 weeks | 6 - 8 weeks | 2 - 3 weeks |
|-------|---------------|------------------|--------------|------------------|
| Count | 77 | 55 | 19 | 11 |
| | | | | |
| | 1 - 2 weeks m | ore than two mor | ths per year | less than 1 week |
| Count | 9 | | 9 | |
| | | | | |
| | | 3 - 4 | 4 weeks | |
| | Cou | nt | 20 | |

vacation_company: Who usually accompanies the participant on vacation

| | Partner and other household | | | | | |
|----|-----------------------------|---------|-------------------------|---------|---------------|-------------|
| | | Friends | mem | bers | Partner only | Colleagues |
| Co | ount | 24 | | 67 | 69 | 6 |
| | | | | | | |
| | |] | Extended family members | 8 | Other (please | se specify) |
| | Count | | 10 | 5 | | 12 |
| | | | | | | |
| | | | I pre | fer tra | veling alone | |
| | | C | ount | | 11 | |

vacation_expensepn: Average amount of CHF participant is willing to spend on an average night during a typical vacation

Format = character.

| | between 51 and | 100 CHF bet | ween 151 and 200 CHF |
|-------|----------------------------|-----------------|----------------------------|
| Co | unt | 67 | 33 |
| | | | |
| | between 101 and 150 CHF $$ | up to 50 CHF | between 201 and 300 CHF $$ |
| Count | 86 | 11 | 4 |
| | | more than 300 (| CHF |
| | Count | | 4 |

vacation_expensefood: Average amount of CHF the participant is willing to spend on gastronomy daily while on a typical vacation

| | betwe | een 51 and 100 CHF | between 151 a | and 200 CHF | up to 50 C | HF |
|-------|-------|----------------------|----------------|--------------|----------------------|----|
| Count | t | 103 | | 12 | | 60 |
| | | | | | | |
| | | between 101 a | and 150 CHF | more than 30 | 0 CHF | |
| | Count | | 26 | | 1 | |
| | | | | | | |
| | - | | between 201 an | d 300 CHF | | |
| | - | Count | | 3 | | |

vacation_expenseleis: Average amount of CHF the participant is willing to spend on entertainment daily while on a typical vacation

Format = character.

| | between 101 and 150 CHF | up to 50 CHF | between 51 and 100 CHF |
|-------|-------------------------|--------------|------------------------|
| Count | 14 | 119 | 68 |
| | | | |
| | between 151 and 20 | 00 CHF bet | ween 201 and 300 CHF |
| Coun | t | 3 | 1 |

$\mathtt{hh_fin_who}:$ Who takes care of the finances in your household? - Multiple answers possible

| My partner and I manage our | | | | | | | |
|-----------------------------|----------------------|--|--|--|--|--|--|
| I do | financ | es together | My partner does | | | | |
| 103 | | 49 | 13 | | | | |
| | | | | | | | |
| My part | ner and I manage our | | | | | | |
| | finances separately | Other arrang | gement (please specify | | | | |
| | 22 | | | | | | |
| | | | | | | | |
| Another ho | usehold member does | I do no | t know/ rather not sa | | | | |
| | 11 | | | | | | |
| | 103 My part | I do finance 103 My partner and I manage our finances separately 22 Another household member does | I do finances together 103 49 My partner and I manage our finances separately Other arrange 22 22 Another household member does I do not | | | | |

$\tt hh_fin_org:$ How are finances organized in your household? - Multiple answers possible

Format = character.

| | Other arrangement (please | |
|-------|---------------------------|--------------------------------|
| | specify) | I share almost all of my money |
| Count | 27 | 76 |
| | | |
| | I share part of my money | I do not know/ rather not say |
| Count | 70 | 32 |

hh_fin_share: Percentage of personal income the participant shares with other household members

| | less than 20% | 51 - 75 $\%$ | 21 - $50%$ | more than 76 |
|-------|------------------|-----------------|--------------|----------------|
| Count | 36 | 8 | 19 | |
| | | | | |
| | I d | o not know/ rat | ther not say | NA's |
| | ount | | 6 | 135 |

savings_amountleft: Amount of money left at the end of a month on average

| CHF | and 2,000 C | between 1,001 | between 2,001 and 3,000 CHF | |
|-----|--------------------|---------------|------------------------------------|-------|
| 34 | | | 26 | Count |
| | | | | |
| | break even | I usually | between 501 and 1,000 CHF $$ | |
| | 21 | | 43 | Count |
| | | | | |
| CHF | up to 100 (| e money left | veen 101 and 500 CHF I rarely have | betv |
| 10 | | 19 | 39 | Count |
| | | | | |
| | 5,000 CHF | more than | between 3,001 and 4,000 CHF $$ | |
| | 4 | | 7 | Count |
| | | | | |
| | | ł 5,000 CHF | between 4,001 and | |
| | | 2 | Count | - |
| | | | | - |

savings_monthlydonat: Percent of monthly income donated

Format = character.

| | 0% | 1 - 5% | more than 20% | 6 - 10% | 11 - 20% |
|-------|----|--------|------------------|---------|----------|
| Count | 77 | 109 | 3 | 14 | 2 |

savings_investments: Regular contributions to investment plans Multiple answers possible

savings_mainjob: Percent of total income that is earned through the participant's main job

| | | 100% | less than 5 | 0% | 71 - 80 | % 91 - | 99% |
|-------|-------|-------------|-------------|------|---------|----------|----------|
| (| Count | 108 | | 13 | 1 | 3 | 22 |
| | I am | not current | ly employed | 61 - | 70% | 81 - 90% | 51 - 60% |
| Count | | | 22 | | 3 | 13 | 11 |

Participants_tracking_summary: File description

Title: participants_tracking_summary.rda, participants_tracking_summary.csv

Contents: Data about which TimeUse+ pretest configuration each participant belonged to, when they started/stopped tracking, and what phone type they hold.

Data collection: Summary based on tracking data using the TimeUse+ app.

Unit of analysis: Individual data. Each row corresponds to a unique respondent.

File Structure: Data frame, with participant_id uniquely identifying each row. 7 variables from 205 participants.

Number of cases: 205. Variables per record: 11.

Participants_tracking_summary: Variables

participant_id: Participant identification number

Format = numeric.

group: Group belonging

Format = numeric.

| | 1 | 2 | 3 | 4 | 5 |
|-------|----|----|----|----|----|
| Count | 39 | 33 | 40 | 38 | 55 |

participation_days: Number of required participation days

Format = numeric.

| | 14 | 28 |
|-------|----|-----|
| Count | 78 | 127 |

activity_segmentation: Activity segmentation

Format = character.

| | detailed | simple |
|-------|----------|--------|
| Count | 134 | 71 |

monetary_incentive: Monetary incentive amount in CHF for study participation

Format = character.

| | $50 \ \mathrm{CHF}$ | 100 CHF |
|-------|---------------------|---------|
| Count | 150 | 55 |

first_tracking_date: First date of tracking

Format = character.

last_tracking_date: Last date of tracking

Format = character.

validation_passed: Whether participant validated enough

validation_percentage: Percent of activities validated by the participant

Format = character.

participant_handset: Device model used by participant

Format = character.

participant_os: Device OS used by participant

Activities: File description

Title: activities.rda, activities.csv

Contents: Annotated tracking data from all 205 participants. Locations (event_type "stay") and start, mid, and end points for stages (event_type "track") are provided as coordinates using the LV95 system, anonymized to a 100m grid. This level of anonymization also matches the https://www.bfs.admin.ch/bfs/de/home.assetdetail.14716365.html. The original data are therefore necessary for investigating trips outside of Switzerland.

Data collection: Passively tracked start and end points using TimeUse+ (based on SDK from MotionTag GmbH) with activity information provided by participants who were asked to annotate/validate events (i.e. stays or tracks) over five minutes.

Unit of analysis: Activity-level data. Each row corresponds to a unique activity. Group by distinct "event_id" for pure list of stays and tracks.

File Structure: Data frame

Number of cases: 82906. Variables per record: 34.

Activities: Variables

event_id: Event ID

Format = numeric.

status: Event validated by participant

| | complete | incomplete |
|-------|----------|------------|
| Count | 79421 | 3485 |

event_type: Event type

Format = character.

| | stay | track | untracked | deleted |
|-------|-------|-------|-----------|---------|
| Count | 44701 | 36021 | 1341 | 843 |

event_name_detected: Event start time

Format = character.

event_name_validated: Event start timezone

| | othe | er car | walk | bus | untracked | work | home |
|-------|----------|-----------------|-------------|----------|-----------|------------|-----------|
| Count | 2492 | 9 10134 | 17857 | 1878 | 1352 | 4198 | 15562 |
| | | | | | | | |
| | passenge | er train | other_track | tram | bicycle | ski o | cable_car |
| Count | 63 | 3 9 1263 | 151 | 750 | 2084 | 302 | 108 |
| | | | | | | | |
| | regiona | al_train | airplane | ebicycle | subway | motorbik | e_scooter |
| Count | | 537 | 12 | 119 | 6 | | 121 |
| | | | | | | | |
| | boat | taxi_uber | ebikesharin | ig cars | sharing k | ick_scoote | r NA's |
| Count | 20 | 13 | | 3 | 1 | 24 | 4 843 |
| | | | | | | | |

event_name_imputed: Event end time

| Format = | character. |
|----------|------------|
|----------|------------|

| | home | car | other | walk | bus | untracked | work |
|-------|-----------|-----------|-------------|----------|----------|-------------|-----------|
| Count | 23184 | 10134 | 17320 | 17853 | 1878 | 1343 | 4198 |
| | | | | | | | |
| | passenger | train | other_track | tram | bicycle | ski o | cable_car |
| Count | 639 | 1263 | 151 | 750 | 2084 | 302 | 108 |
| | | | | | | | |
| | regional | train | airplane | ebicycle | subway | motorbik | e_scooter |
| Count | | 537 | 12 | 119 | 6 | | 121 |
| | | | | | | | |
| | boat t | taxi_uber | ebikesharin | g cars | haring l | kick_scoote | r NA's |
| Count | 20 | 13 | | 3 | 1 | 24 | 4 843 |

started_at: Event end timezone

Format = POSIXct, POSIXt, numeric.

started_at_tz: Event duration in minutes

Format = character.

finished_at: Event distance in meters

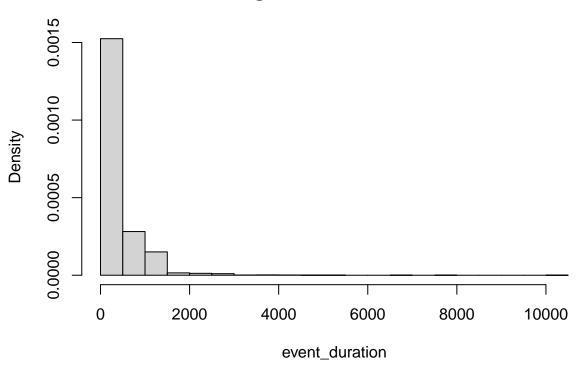
Format = POSIXct, POSIXt, numeric.

finished_at_tz: Mode or location detected by app algorithm

event_duration: Mode or location validated by participant

Format = integer, numeric.

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. |
|------|---------|--------|-------|---------|-------|
| 1 | 6 | 23 | 288.8 | 375 | 10311 |

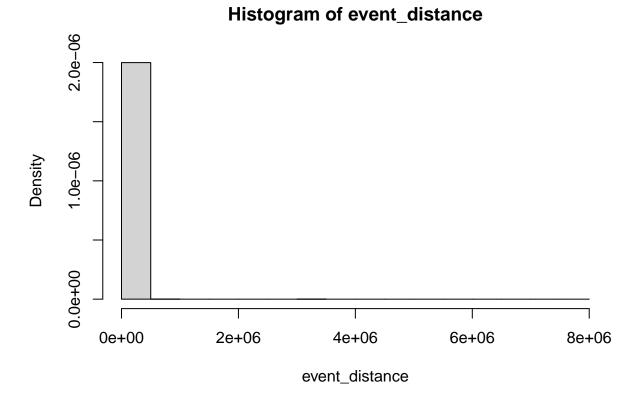


Histogram of event_duration

Format = integer, numeric.

event_distance: Mode or location refined by imputing location through clustering and activity information

| | Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. | NA's |
|---|------|---------|--------|------|---------|---------|------|
| _ | 0 | 0 | 0 | 3480 | 882.5 | 7811873 | 843 |



event_start_lat: Latitude of track start point location

Format = numeric.

event_start_lon: Longitude of track start point location

Format = numeric.

event_mid_lat: Latitude of stay location or mid point of track

Format = numeric.

event_mid_lon: Longitude of stay location or mid point of track

Format = numeric.

event_end_lat: Latitude of track end point location

Format = numeric.

event_end_lon: Longitude of track end point location

Format = numeric.

trip_id: Trip ID

Format = numeric.

trip_status: All stages of this trip are validated by participant

| | complete | incomplete | NA's |
|-------|----------|------------|-------|
| Count | 34254 | 1726 | 46926 |

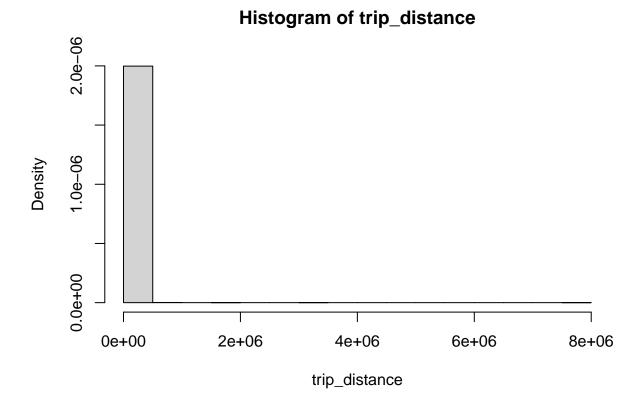
trip_main_mode: Trip main mode by distance share

| | car | walk | bus | passeng | ger | train | other_track | bicycle |
|-------|---------|----------|-----------|----------|------|-------|-------------|------------|
| Count | 12743 | 10764 | 2781 | 8 | 37 | 2967 | 126 | 2271 |
| | | | | | | | | |
| | ski | tram | regiona | al_train | air | plane | ebicycle | subway |
| Count | 376 | 1237 | | 1398 | | 21 | 129 | 20 |
| | | | | | | | | |
| | cable_c | car moto | orbike_so | cooter | boat | ebik | esharing | carsharing |
| Count | | 82 | | 169 | 17 | | 4 | 2 |
| | | | | | | | | |
| | | | kick_s | cooter | taxi | _uber | NA's | |
| | Cour | nt | | 13 | | 23 | 46926 | |
| | | | | | | | | |

trip_distance: Trip distance in meters

Format = integer, numeric.

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. | NA's |
|------|---------|--------|-------|---------|---------|-------|
| 10 | 1114 | 4250 | 15107 | 13265 | 7811991 | 46926 |

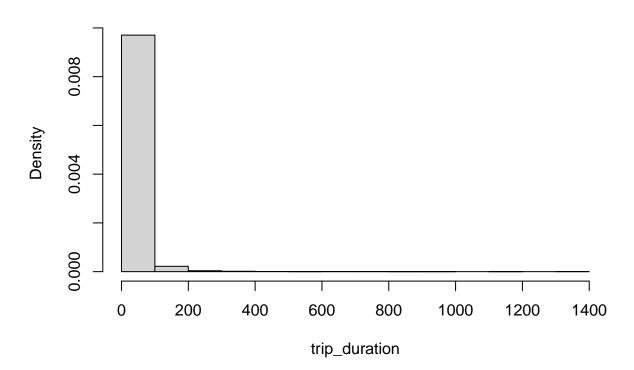


trip_duration: Trip duration in minutes

| Format = | = integer. | numeric. |
|-----------|------------|-------------|
| 1 0111000 | | 11011101101 |

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. | NA's |
|------|---------|--------|-------|---------|------|-------|
| 1 | 6 | 14 | 25.59 | 31 | 1373 | 46926 |

Histogram of trip_duration



trip_started_at: Trip start time

Format = POSIXct, POSIXt, numeric.

trip_finished_at: Trip end time

Format = POSIXct, POSIXt, numeric.

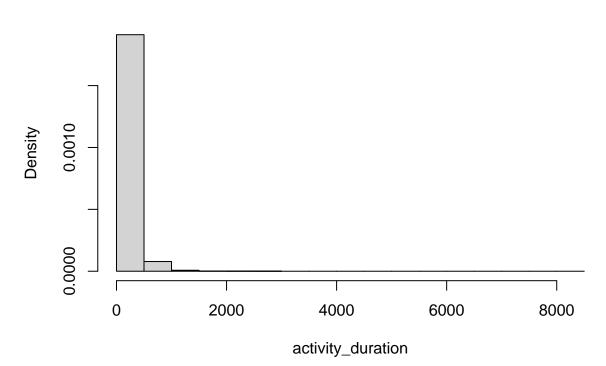
activity_name: Activity name, if activity logged by participant

Format = character.

activity_duration: Activity duration in minutes

Format = integer, numeric.

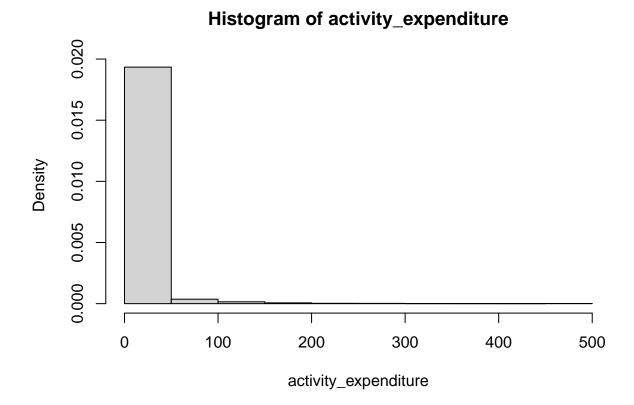
| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. | NA's |
|------|---------|--------|-------|---------|------|-------|
| 0 | 20 | 40 | 110.2 | 120 | 8400 | 24095 |



Histogram of activity_duration

activity_expenditure: Expenditures during activity in CHF

| Min. | 1st Qu. | Median | Mean | 3rd Qu. | Max. | NA's |
|------|---------|--------|-------|---------|------|-------|
| 0 | 0 | 0 | 5.471 | 0 | 500 | 48283 |



activity_expenditure_necessity: Reported necessity of expenditure

| | required | not required | NA's |
|-------|----------|--------------|-------|
| Count | 27226 | 205 | 55475 |

activity_expenditure_beneficiary: Reported beneficiary of expenditure

Format = character.

| | for me | for the household | NA's |
|-------|--------|-------------------|-------|
| Count | 26626 | 805 | 55475 |

activity_expenditure_timehorizon: Reported time horizon of expenditure

Format = character.

| | daily needs | long-term | NA's |
|-------|-------------|-----------|-------|
| Count | 27065 | 366 | 55475 |

activity_socialpartner: Social companion reported for activity

Format = character.

| | alone | householdmembers | friends | NA's |
|-------|-------|------------------|---------|-------|
| Count | 29173 | 5809 | 3346 | 44578 |

participant_id: Participant ID

Format = numeric.

Waypoints: File description

Titles: pretest_geometries_week_2022-03-03.csv \ pretest_geometries_week_2022-03-10.csv \ pretest_geometries_week_2022-03-17.csv \ pretest_geometries_week_2022-03-31.csv \ pretest_geometries_week_2022-04-07.csv \ pretest_geometries_week_2022-04-14.csv \ pretest_geometries_week_2022-04-21.csv \

Contents: Waypoints for all tracks in the activities files. Longitude and latitude mapped on The World Geodetic System 1984 (WGS84). Data archived on a weekly basis.

Data collection: Passively tracked waypoints using TimeUse+ (based on SDK from MotionTag GmbH).

Unit of analysis: Event-level data. event_id variable can be used to join these files to the activities file.

File Structure: Data frame

Number of cases: 1048148. Variables per record: 3.

Waypoints: Variables

event_id:

Format = numeric.

lon:

Format = numeric.

lat:

Format = numeric.