

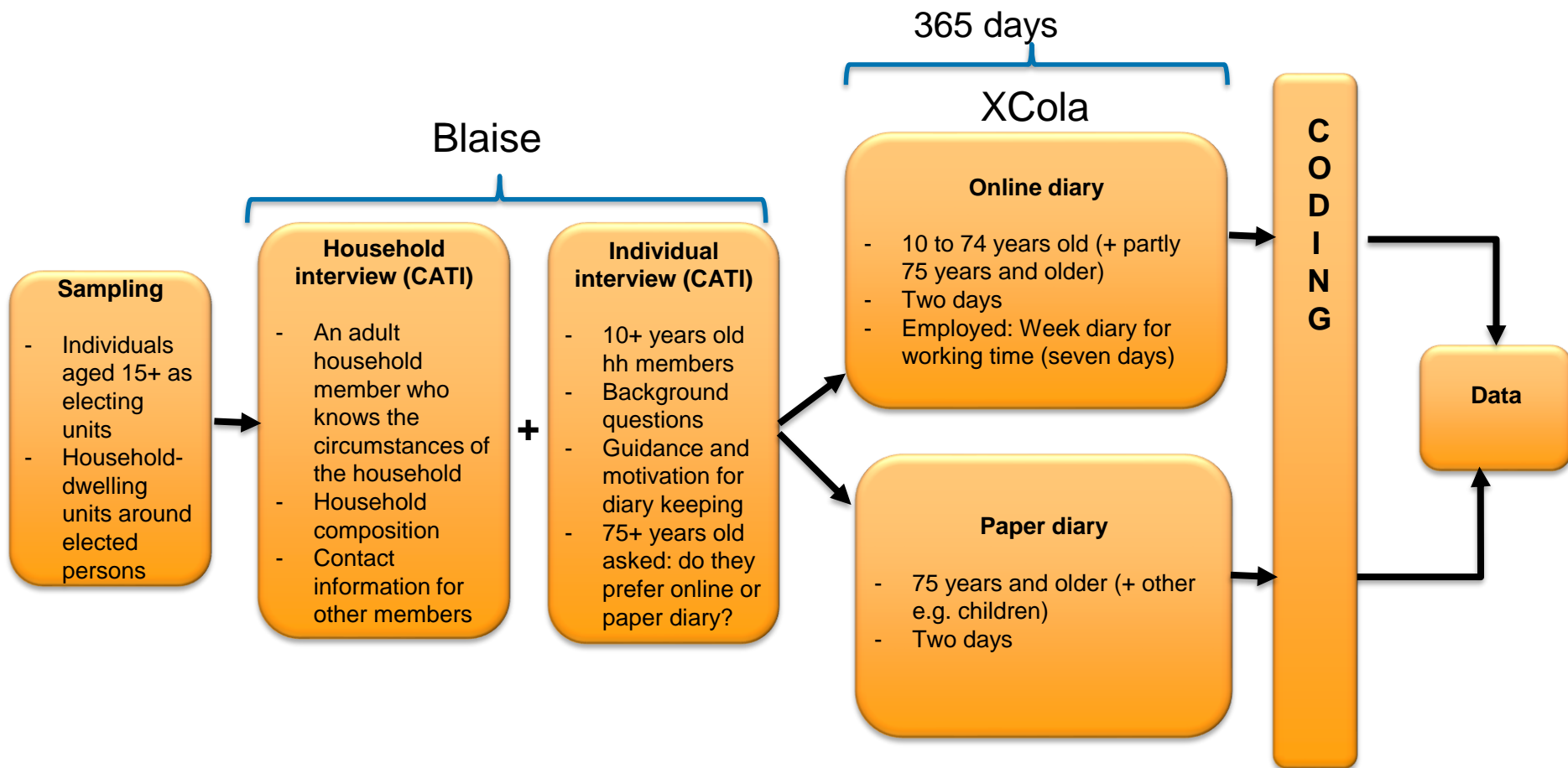


XCola Online Diary

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Session 5: update on ongoing efforts to modernize time-use data collections (Finland) 22 May 2019

Finnish Time Use Survey 2020: Data Collection Process



30 March 2020 to 29 March 2021

XCola (XML based Collection Application)

- A scalable web application used for business surveys
- Developed at Statistics Finland
- Main functions:
 - A flexible web survey platform
 - Offers basic form functionality (validations, paradata etc.) with ability to fully customize the UI of the survey
 - HTML, CSS, JavaScript
 - XCola is only a web form engine tool so to setting up a survey there is need for external login system and data transfer system
 - XCola output is a user data file in XML format that can be transferred in to the SQL-database.
 - User data contains user inputs and paradata.
 - TUS: Online diary, CATI interviews with Blaise software
 - No separate mobile app


How respondents will be approached?

- Advance letters to selected households by mail
- Household interviews, individual interviews by telephone
- Guidance and motivation for diary keeping
- E-mail addresses / phone numbers of the members of the household
- Direct personified link via e-mail or SMS message
- If employed => week diary available
- If living alone: no with other household member check boxes
- Reminder SMS message: direct link included


How data are inserted?

- "Full diary": respondents fill in the diary in their own words
- Activities will be coded afterwards
- First respondent chooses starting and ending times for an episode
- 10-minute intervals
- *"What were you doing?"*
- *"I used a computer or smart device for doing this"* (check box)
- *"What else were you doing?"*
- *"I used a computer or smart device for doing this?"* (check box)
- *"With whom?"* (check box)
- *"How did you experience the time?"* (smileys, 5-point scale)
- Location will be determined in the coding phase

XCola Online Diary: Prototype

Tilastokeskus 

[På svenska](#) [In English](#) [Kirjaudu ulos](#)

Ajankäyttötutkimus 

Päiväkirja


Ohjeet

- Täyttäkää ajankäyttöne allaolevien päivien osalta valitsemalla päivä listasta
- Voit palata täyttämään päiväkirjaa myöhemmin

Valitse päivä...

20.11.2018
10%

21.11.2018
0%


Merkintä 

21.11. klo 06:50

21.11. klo 07:20

Mitä teit?

Söin aamiaista

Kenen kanssa? 

Puolison kanssa

Äidin tai isän kanssa



Alle 10-v. lasten kanssa


Muiden perheenjäsenten kanssa

Muiden kanssa, jotka tunnette


Mitä muuta teitte samanaikaisesti?

Luin Hesaria

Tilastokeskus 

[På svenska](#) [In English](#) [Kirjaudu ulos](#)

Ajankäyttötutkimus 

Päiväkirja / 21.11.2018

Päiväkirja 21.11.2018

Ohjeet

21.11. klo 05:50 - 21.11. klo 06:00 - Heräsin


21.11. klo 06:00 - 21.11. klo 06:30 - Vein koirat ulos

21.11. klo 06:30 - 21.11. klo 06:50 - Peseydyin

21.11. klo 06:50 - 21.11. klo 07:20 - Söin aamiaista

21.11. klo 07:20 - 21.11. klo 07:40 - Pyöräilin töihin

8%

Lisää merkintä 

How data are retrieved?

- The whole data can be transferred in to the database on demand
- Data transfer could be automated, if needed
- Possible to examine the questionnaires in real time via XCola Management System

Preliminary in-house user tests in March–April 2019

- 21 persons from Statistics Finland
- 3 children (10+ years)
- One weekday, one weekend day
- Guidance via Skype calls on previous Fridays
- All filled in the diaries
- Webropol link for feedback (11 answers)
- 12 respondents in follow-up usability tests after they had completed the diaries
- 6 respondents only feedback questionnaires (no interviews)
- Nearly all used several types of devices (computer, smart phone, tablet) => No mobile app!

Feedback from the respondents

- **Pros**
- All liked the layout
- Easy to use
- All understood easily how the online diary functions
- Respondents were more motivated than on average!

- **Cons**
- Sometimes activities were grouped together: e.g. three activities during 30 minutes
- Save command was not always found
- Usability: could be made better
- With whom: respondents were not always sure if they understood the definition correctly

Advantages of XCola

- Responsive UI with Statistics Finland's visual look
- Easy to integrate to data collection process
- Uniform tools with other Statistics Finland's data collections
- In-house development
- Flexible expandability to other data collections

Advantages of online diary

- Easier to take with than a paper diary (mobile phone!)
- Filling in the diary does not draw attention from other people
- Most of the respondents filled in the diary several times during the day
- Data in electronic format

Disadvantages/challenges

- Small screen: instructions
- Different devices: problems

Cost estimate compared to the previous mode of data collection

- In-house development: savings
- Interviews are necessary: costs
- Coding costs
- No savings in total costs?

Thank you!

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