
Plan Overview

A Data Management Plan created using DMPonline.be

Title: Social media surveillance and psychosocial well-being: A mixed-method study across adolescents with varying neurodevelopmental and social-structural backgrounds

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Funder: Bijzonder Onderzoeksfonds

Template: KU Leuven BOF-IOF

Project abstract:

In spite of the academic interest in the question of whether and how social media affect adolescents' psychosocial well-being, meta-reviews found highly conflicting results. Although some studies argue that social media offer opportunities for connection and self-presentation, they might also worsen one's psychosocial well-being. This project aims to move this field forward by introducing two new perspectives: a surveillance and individual difference perspective. Through the use of qualitative go-along interviews and a daily diary study with measurement burst design, this project aims to provide an in depth insight in (1) how adolescents monitor themselves and others continuously through social media, (2) the daily dynamics and long term associations between online self and social surveillance practices and psychosocial well-being, and (3) whether specific subgroups of adolescents (those with Autism, and those with low socio-economic status) are at greater risk compared to their peers.

ID: 212111

Start date: 01-10-2024

End date: 30-09-2028

Last modified: 30-01-2025

Social media surveillance and psychosocial well-being: A mixed-method study across adolescents with varying neurodevelopmental and social-structural backgrounds

Research Data Summary

List and describe all datasets or research materials that you plan to generate/collect or reuse during your research project. For each dataset or data type (observational, experimental etc.), provide a short name & description (sufficient for yourself to know what data it is about), indicate whether the data are newly generated/collected or reused, digital or physical, also indicate the type of the data (the kind of content), its technical format (file extension), and an estimate of the upper limit of the volume of the data.

Dataset name	Description	New or reuse	Digital or Physical data	Data Type	File format	Data volume	Physical volume
Go-along interviews	<p>'Go-along interviews' will be conducted among Flemish adolescents between the ages of 16-18 until thematic saturation is reached. It is advised to conduct +-12 interviews to capture the majority of themes (i.e., to reach >80% thematic saturation).</p> <p>A camera and screen recording software will be used to video-record the device screen while the interview is in progress, the recorded images will be coded alongside the audio transcripts.</p>	New data	Digital and physical data	<p>Sound: The go-along interviews will be recorded in order to make data transcription possible. These recordings will be deleted after the interviews have been transcribed and the data will be anonymized in the interview transcripts.</p> <p>Textual:</p> <ul style="list-style-type: none"> -The participants will have to fill in active consent forms before participating in the go-along interviews. - The interviews will be transcribed in MS Word format. <p>Software: Nvivo will be used to analyse the transcripts and add relevant codes.</p>	<p>Sound: Interview recordings will consist of audio recordings in MP3 format.</p> <p>Textual:</p> <ul style="list-style-type: none"> - The informed consent will initially be given to the participants in physical form but will be scanned in Word and PDF form for storage. - The interviews will be transcribed in Word format. <p>Software: an Nvivo project will be created (.nvp)</p>	<p>Sound: We expect to collect +-12 interviews of 1 hour. This will result in a volume of audio recordings below 1GB</p> <p>Textual:</p> <ul style="list-style-type: none"> - The Word and PDF forms of the scanned informed consents and transcribed interviews are expected to be below 1GB. <p>Software: Th Nvivo project is expected to be below 1GB.</p>	No physical samples will be collected.

Experience sampling method (ESM) study	<p>A daily diary study with measurement burst (3 waves, 6-month interval) will be conducted among Flemish adolescents aged 16-17 at baseline (ages 17-18 at follow-up).</p> <p>Participants will receive 1 background survey at the beginning, followed by 2 online checklist for 10 consecutive days. The diary study will be repeated twice with an interval of 6 months. Given an expected compliance rate of 70%, we aim for a total sample size of 400</p>	New Data	Digital and physical data	<p>Textual:</p> <ul style="list-style-type: none"> - The selected schools and adolescents receive information brochures about the study's objectives, selection procedure, confidentiality and administered measures, and are requested to participate. - Before participating in the background survey, the participants will have to fill in active consent forms, which they will receive via email (PDF) or physical letters. - Participants will receive 1 background survey and 2 daily surveys each day over 10 days. The surveys will initially be formulated in Word, but will eventually be sent out through an application on participants' phones (m-Path app). <p>Software:</p> <ul style="list-style-type: none"> - The survey will be sent out using <i>m-Path</i>, an app that allows real-time monitoring of participants and follows the GDPR-protocols. - After data collection, data will be downloaded from the <i>m-Path</i> app and analyzed using <i>R</i>. 	<p>Textual:</p> <ul style="list-style-type: none"> - the survey and informed consent forms will be in Word/PDF format. <p>Software:</p> <ul style="list-style-type: none"> - Data will be downloaded in <i>R</i> in .csv format. 	<p>Textual: The surveys and informed consents are expected to be below 1GB.</p> <p>Software: The data file of the ESM study (.csv) is expected to be between 1 and 5GB.</p>	No Physical samples will be collected.
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If you reuse existing data, please specify the source, preferably by using a persistent identifier (e.g. DOI, Handle, URL etc.) per dataset or data type:

No existing data from previous research will be used.

Are there any ethical issues concerning the creation and/or use of the data (e.g. experiments on humans or animals, dual use)? If so, refer to specific datasets or data types when appropriate and provide the relevant ethical approval number.

- Yes, human subject data (Provide SMEC or EC approval number below)

Personal data will be collected among young individuals aged 16 to 18, but this data will be pseudo-anonymized. We take into account the privacy of the participants. Furthermore, the raw dataset will be stored in a protected location of the KU Leuven and only accessible to the researchers involved in the project. The data will be deleted after 10 years. Ethical approval has been obtained (G-2024-8279-R3(MAR)).

Will you process personal data? If so, please refer to specific datasets or data types when appropriate and provide the KU Leuven or UZ Leuven privacy register number (G or S number).

- Yes (Provide PRET G-number or EC S-number below)

We will work with pseudonymized data and ethical approval has been obtained (G-2024-8279-R3(MAR)).

Does your work have potential for commercial valorization (e.g. tech transfer, for example spin-offs, commercial exploitation, ...)? If so, please comment per dataset or data type where appropriate.

- No

Do existing 3rd party agreements restrict exploitation or dissemination of the data you (re)use (e.g. Material or Data transfer agreements, Research collaboration agreements)? If so, please explain in the comment section to what data they relate and what restrictions are in place.

- Yes

We will collaborate with the Network against Poverty to recruit adolescents, but they will not have access to our data. All data remain property of KU Leuven and will only be used by KU Leuven researchers.

Are there any other legal issues, such as intellectual property rights and ownership, to be managed related to the data you (re)use? If so, please explain in the comment section to what data they relate and which restrictions will be asserted.

- No

For this project, we are working together with Network against Poverty, which will assist with data collection (providing access to participants). A standard service provision contract by the KU Leuven will be created for this purpose. This contract states that the contractor irrevocably transfers all possible intellectual property rights to KU Leuven. The contractor has already agreed to a provisional version of this agreement. The final version will be drawn up before the start of this data collection.

Documentation and Metadata

Clearly describe what approach will be followed to capture the accompanying information necessary to keep data understandable and usable, for yourself and others, now and in the future (e.g. in terms of documentation levels and types required, procedures used, Electronic Lab Notebooks, README.txt files, codebook.tsv etc. where this information is recorded).

Go-along interviews:

- We will provide Word documents with the meaning of the codes
We will make use of an Nvivo project to generate documentation and metadata
 - We will follow the guidelines as described in the following [link](https://ukdataservice.ac.uk) (ukdataservice.ac.uk)

ESM study:

- We will provide a codebook with the naming of the variables, the meaning of the values, and the labels in order to interpret the dataset. This will be generated using SPSS.
- R code to analyze our data will be stored in specific R scripts.

For both studies, we will publish our materials within our organization via the shared drive and outside our organization by making use of the Open Science Framework (OSF). Therefore, we will develop our documents with a special eye for transparency and reproducibility.

Will a metadata standard be used to make it easier to find and reuse the data?

If so, please specify which metadata standard will be used.

If not, please specify which metadata will be created to make the data easier to find and reuse.

- No

We will make use of the personal (I-drive) and shared KU Leuven drive (J-drive) to make our research project visible within our organization. In addition, the Open Science Framework (OSF) will be used as a repository for all materials that can be publicly shared, including code books, anonymized data, code for analyses.

Data Storage & Back-up during the Research Project

Where will the data be stored?

- Shared network drive (J-drive)
- Personal network drive (I-drive)
- Other (specify below)

OSF Framework

How will the data be backed up?

- Standard back-up provided by KU Leuven ICTS for my storage solution

Is there currently sufficient storage & backup capacity during the project?

If no or insufficient storage or backup capacities are available, explain how this will be taken care of.

- Yes

How will you ensure that the data are securely stored and not accessed or modified by unauthorized persons?

All data will be encrypted and can only be accessed by a password known by the researchers working on the project. Data will be stored on the networks provided by KU Leuven, which provide high security.

What are the expected costs for data storage and backup during the research project? How will these costs be covered?

No expected costs.

Data Preservation after the end of the Research Project

Which data will be retained for 10 years (or longer, in agreement with other retention policies that are applicable) after the end of the project?

In case some data cannot be preserved, clearly state the reasons for this (e.g. legal or contractual restrictions, storage/budget issues, institutional policies...).

- All data will be preserved for 10 years according to KU Leuven RDM policy
- Certain data cannot be kept for 10 years (explain below)

The recordings from the go-along interviews will be deleted as soon as all interviews are transcribed.

Where will these data be archived (stored and curated for the long-term)?

- Other (specify below)
- Shared network drive (J-drive)

What are the expected costs for data preservation during the expected retention period? How will these costs be covered?

No expected costs.

Data Sharing and Reuse

Will the data (or part of the data) be made available for reuse after/during the project?

Please explain per dataset or data type which data will be made available.

- Yes, as open data

After publication of an article in which these data are used, everything except the transcripts will be made available with open access for reuse.

If access is restricted, please specify who will be able to access the data and under what conditions.

Fully pseudonymized data will be provided on the Open Science Framework to encourage open science practices.

Are there any factors that restrict or prevent the sharing of (some of) the data (e.g. as defined in an agreement with a 3rd party, legal restrictions)?

Please explain per dataset or data type where appropriate.

- Yes, privacy aspects
- Yes, ethical aspects

For both the experience sampling and the go-along study, all data will be fully pseudonymized before making this available. No identifying information will be kept and the demographic variables (gender, age, student status) will not be sufficient to identify the respondents should anyone try to do so.

Where will the data be made available?

If already known, please provide a repository per dataset or data type.

- Other (specify below)
- KU Leuven RDR (Research Data Repository)

Open Science Framework (OSF) for both the transcripts of the focus group interviews and the data derived from the ESM study.

When will the data be made available?

- Upon publication of research results

A DOI will be attached to our data once articles are accepted for publication.

Which data usage licenses are you going to provide?

If none, please explain why.

- Other (specify below)

[CC BY-NC-ND 4.0](#)

Do you intend to add a persistent identifier (PID) to your dataset(s), e.g. a DOI or accession number? If already available, please provide it here.

- Yes, a PID will be added upon deposit in a data repository

What are the expected costs for data sharing? How will these costs be covered?

No costs are expected for sharing as both KU Leuven RDR and OSF are free.

Responsibilities

Who will manage data documentation and metadata during the research project?

The PhD-student (Fé Verrelst) will be responsible for data documentation and metadata, under supervision of Prof. Dr. Kathleen Beullens (Promotor of the project) and Dr. Jolien Trekels (Co-promotor of the project).

Who will manage data storage and backup during the research project?

Also, the data storage and backup will be managed by Fé Verrelst (PhD-student on this project).

Who will manage data preservation and sharing?

Data preservation and sharing will be managed by Fé Verrelst (PhD-student on this project).

Who will update and implement this DMP?

The PhD-student on this project, named Fé Verrelst, will update and implement this DMP.