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## Plan Overview

*A Data Management Plan created using DMPonline*

**Title:** Exploring the WEF nexus as a system of (poly-centric) governance from household to global levels: the case of informal settlements in Kampala, Uganda

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**Funder:** Netherlands Organisation for Scientific Research (NWO)

**Template:** Data Management Plan NWO (September 2020)

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### Project abstract:

There is increasing evidence of the interaction between the water, energy, and food (WEF) nexus and health. Improvements in health, which are central to the attainment of the 2030 UN agenda, are largely dependent on equitable access to WEF among other resources. However, the relationship between WEF and health at the household level is not well documented in the literature. As a result, it is increasingly difficult to maximize synergies and balance trade-offs in the provision of these resources. Due to the limited evidence of these interactions, WEF is governed in isolation, which reduces the ability of policymakers and implementers to capitalize on the synergies and reduce trade-offs arising from the interactions. Nonetheless, it is these interactions (WEF and health) that provide the basis for programming, policy development, and governance frameworks at both local and international levels. The role of the private sector and donors, who are known to engage in budget discussions, advocacy, capacity building, and funding of WEF initiatives, is not understood. The proposed mixed methods study will utilize a structured questionnaire to establish the relationship between WEF and health (using diarrhoea as a proxy), Focus Group Discussions to understand how decisions related to WEF are made at the household level, and Key Informant Interview guides to explore the role of the private sector and donor-recipient alignments in the governance of the WEF and health nexus. Evidence generated from the study will inform the development of a polycentric WEF nexus governance framework for Uganda.

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# Exploring the WEF nexus as a system of (poly-centric) governance from household to global levels: the case of informal settlements in Kampala, Uganda

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## General Information

### Name applicant and project number

Prof. Art Dewulf

Name of data management support staff consulted during the preparation of this plan and date of consultation.

## 1. What data will be collected or produced, and what existing data will be re-used?

### 1.1 Will you re-use existing data for this research?

If yes: explain which existing data you will re-use and under which terms of use.

- No

Aside, from evidence obtained from the literature review, the research will not use secondary data.

### 1.2 If new data will be produced: describe the data you expect your research will generate and the format and volumes to be collected or produced.

The project will generate qualitative data in both audio and textual form (after transcription). Textual data will be in doc format while audio data will be in MP4 format. The quantitative component of the research will generate data that will be in form of spreadsheets and will be stored as xls, csv or .dta.

### 1.3. How much data storage will your project require in total?

- 100 - 1000 GB

## 2. What metadata and documentation will accompany the data?

### 2.1 Indicate what documentation will accompany the data.

Data

To interpret the data correctly, metadata sheets in the form of a readme text file will also be provided. The read-me (.txt) file is stored in the same folder as the data per project phase.

### 2.2 Indicate which metadata will be provided to help others identify and discover the data.

A README text file will be created with a meta datasheet for both primary and secondary data. The README text file contains

information about the title of the dataset, author's information, date of data collection, location of the data collection areas, methods used for data collection, methods for processing the data, analytical tools/software used to clean, organize, code, analyze and interpret the data and list of variables. In addition, each folder with types of data will have a document added with information about what data are being stored in the folder.

### **3. How will data and metadata be stored and backed up during the research?**

#### **3.1 Describe where the data and metadata will be stored and backed up during the project.**

- Institution networked research storage

Data will be stored on the Wageningen university server

#### **3.2 How will data security and protection of sensitive data be taken care of during the research?**

- Additional security measures (please specify)

The raw data collected with the KoboCollect mobile app contains personal data. All sensitive data will be treated as confidential. Data will be password-protected and stored on the WUR W: drive in specific folders

### **4. How will you handle issues regarding the processing of personal information and intellectual property rights and ownership?**

#### **4.1 Will you process and/or store personal data during your project?**

**If yes, how will compliance with legislation and (institutional) regulation on personal data be ensured?**

- No

Personal identification information will not be stored. All data collected from the study participants will be anonymised to ensure utmost confidentiality

#### **4.2 How will ownership of the data and intellectual property rights to the data be managed?**

The data will be owned by Wageningen university and Research, and the project funder (NWO)

### **5. How and when will data be shared and preserved for the long term?**

#### **5.1 How will data be selected for long-term preservation?**

- All data resulting from the project will be preserved for at least 10 years

**5.2 Are there any (legal, IP, privacy related, security related) reasons to restrict access to the data once made publicly available, to limit which data will be made publicly available, or to not make part of the data publicly available?**

**If yes, please explain.**

- Yes

All personal identifying information such as positions, contact information, GPS coordinates will be removed from the datasets

### **5.3 What data will be made available for re-use?**

- All data resulting from the project will be made available

### **5.4 When will the data be available for re-use, and for how long will the data be available?**

- Data available as soon as article is published

### **5.5 In which repository will the data be archived and made available for re-use, and under which license?**

The DANS-EASY repository will be used (with a creative common license). The WUR Library provides support with depositing data into DANS-EASY and covers all the related costs.

### **5.6 Describe your strategy for publishing the analysis software that will be generated in this project.**

Quantitative data will be analysed using STATA 16. Descriptive and inferential statistics will be generated. A thematic approach aided by Atlas ti version 23.0 will be used during the qualitative analysis.

## **6. Data management costs**

### **6.1 What resources (for example financial and time) will be dedicated to data management and ensuring that data will be FAIR (Findable, Accessible, Interoperable, Re-usable)?**

The mobile data collection tools will have validation criteria to improve data quality. Research assistants will be trained for 5 days to ensure quality assurance. Research assistants will also be supervised by the principal investigator