Policy integration in Vietnam's Green Transformation policy: Evaluating progress, explaining outcome, and innovating for the future.

A Data Management Plan created using DMPonline.be

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Project abstract:

Since the 2015 Paris Climate agreement, many countries have adopted low-carbon development policies (LCDPs) to achieve carbon neutrality and decarbonize their economies, including Vietnam with its Green Transformation Policy. The LCDPs are thus an important tool for halting climate change and revitalizing a global economy battered by wars and pandemics. However, we know very little about the LCDPs, especially whether they can deliver the intended benefits, if so through what mechanisms, and how can their performance be improved. The project will address these existing research puzzles through three consecutive case studies on Vietnam's Green Transformation, which will build on each other's findings. First, I will evaluate the performance of Vietnam's Green Transformation policy through its policy integration level. Second, I will uncover the causal mechanism that leads to this outcome via the process-tracing method. Third, I will develop an analytical framework that links the policy integration and the polycentric governance approaches with a view to improving the Green Transformation's performance by taking advantage of Vietnam's institutional fragmentation rather than reversing it.

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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.

Work package	Description	New or reuse	Digital or Physical data	Data Type	File format	Data volume	Physical volume
		*Indicate: **N**(ew data) or **E**(xisting data)*	Indicate: **D**(igital) or **P**(hysical)	Indicate: **A**udiovisual **I**mages **S**ound **N**umerical **T**extual **M**odel **SO**ftware Other (specify)		Indicate: <1GB <100GB <1TB <5TB >5TB NA	
WP1: Textual data	Peer-reviewed literature to be used for content analysis, managed in EndNote	Existing	Digital	Textual	.enl	<500MB	
Policy documents, used for content analysis	Existing	Digital	Textual	.pdf	<500MB		
Qualitative analysis of peer-reviewed literature and policy documents, conducted in NVIVO	New	Digital	Textual	.nvp	<2GB		
WP2: Interview data	Informed consent forms for interviewees	New	Physical	Textual			30 A4 sheets
Audio recordings of the interviews	New	Digital	Audiovisual	.wav	<5GB		
Pseudonymized transcripts of the interviews' audiofiles	New	Digital	Textual	.rtf	<200MB		
Notes taken during the interviews	New	Digital	Textual	.docx	<200MB		
Qualitative analysis of interview transcripts, conducted in NVIVO	New	Digital	Textual	.nvp	<1GB		

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:

Peer-reviewed articles for the first work package are collected from Web of Science and Scopus databases:
https://www.scopus.com/search/form.uri?display=basic#basic
https://www.webofscience.com/wos/alldb/basic-search
This is the source for original national-level policy documents in Vietnam:
https://chinhphu.vn/he-thong-van-ban

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)

A Privacy and Ethics application (PRET) has been submitted to the KU Leuven Social and Societal Ethics Committee (SMEC). This PRET application concerns the justifications of the general project and the second dataset, which involves collecting ordinary personal data from

respondents, such as professional affiliations and positions, contact details, and audio recordings.

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)

The second work packages' dataset involves ordinary personal data. Ordinary data includes basic personal characteristics of the respondents such as their voice recording, contact address and work position. A PRET application has been submitted (G-2024-7900)

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.

- No

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

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).

For all datasets within the two work packages, the following types of metadata will be generated:

- a codebook.pdf file, containing details about
  - the research design for all component research questions;
  - analytical frameworks for all research objectives;
  - the variables and indicators required for the analytical frameworks (i.e., variable labels, exact question wordings, and answer scales with corresponding values);
  - interview sampling methodology, and response rates.
- a ReadMe.txt file, containing details about
  - the project and its member (i.e., a short description of the project, the ethical approval number, preregistration DOI, and the contact information of the involved researcher);
  - the folders and files in the replication folder;
  - the step-by-step explanation to replicate the results;
  - the last date of modification and successful replication.

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.

- Yes

- Codebook.pdf: I will follow the KU Leuven guidelines and, hence, use DDI to create the codebook (https://ddialliance.org/training/gettingstarted-new-content/create-a-codebook)
- ReadMe.txt: I will use the KU Leuven template (https://www.kuleuven.be/rdm/en/guidance/documentation-metadata/README)

Data Storage & Back-up during the Research Project

Where will the data be stored?

- Personal network drive (I-drive)
- OneDrive (KU Leuven)

The datasets within the first work package (textual data) will be stored in a folder on the **KU Leuven OneDrive for Business** of the research fellow, provided by KU Leuven. OneDrive for Business is suitable for storing confidential data, as long as multifactor authentication with the KU Leuven Authenticator app is activated.
The datasets within the second work package (interview data) will also be stored on OneDrive. However, extra precautions will be taken because this work package contains personal data. Specifically, the datasets will be pseudonymized. I will replace all directly identifiable information (e.g., name of respondents) with a pseudonym and code indirectly
identifiable information (e.g., age) in a way that makes it impossible to re-identify individuals. A separate record (that is, a coding table) will be created that links the pseudonyms to the identifiable information. This coding table will be kept securely in the personal KU Leuven I-Drive of the research fellow, and thus separated from the pseudonymized data (which will be stored on OneDrive), to prevent re-identification. Access to these datasets will be restricted to the research fellow and the project's supervisor (Katja Biedenkopf).

How will the data be backed up?

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

Files in OneDrive are automatically backed up, up to 100 versions per file. A second copy will be kept on the KU Leuven I:\ network drive of the research fellow.

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

I consider that there will be sufficient storage and backup capacity during the project. OneDrive for Business has a standard storage capacity of 2TB but this can be extended to 5 TB upon motivated request through ICTS Service Point. The estimated size of all datasets combined is < 10 GB.

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

I will strictly manage access rights to datasets. Only the research fellow and the project's supervisor (Katja Biedenkopf) will have access to the datasets and will have to grant access to anyone else.
I will activate multifactor authentication with the KU Leuven Authenticator app for OneDrive Business.
The laptop(s) on which the datasets are stored are password-protected.
Personal data will be pseudonymized and the coding table, which makes it possible to link the identifiable information with the pseudonymized data, will be stored on an encrypted KU Leuven I-drive. Transcripts and codebooks will be kept separate.

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

There are no expected costs for data storage, as OneDrive for Business is free for staff and students of KU Leuven. The I-drive is also provided (and secured) by KU Leuven.

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

The datasets will be preserved for minimally 10 years after the study's completion, in line with KU Leuven's RDM policy.

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

- KU Leuven RDR

The datasets within the two work packages will be stored in a folder on the KU Leuven OneDrive for Business of the research fellow. OneDrive for Business is suitable for strictly confidential data, as long as multifactor authentication with the KU Leuven Authenticator app is activated. OneDrive is also suitable to save human subject data in this case, since the data will be anonymized. Access to these datasets will be restricted to the research fellow and only the research fellow can decide to grant access to collaborators.

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

There are no expected costs for data preservation.

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
- No (closed access)

Datasets in the first work package can become open data. For the second work package: the codebooks for qualitative data analysis in NVIVO (already pseudomyzed) can be made open. Transcripts, notes and audio recordings are not to be made accessible because they can reveal personal identity.

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

Only the researcher and the project's supervisor (Prof. Katja Biedenkopf) can access the restricted data to ensure privacy considerations.

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.

- No

Where will the data be made available?

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

- KU Leuven RDR (Research Data Repository)

Upon completion of a publication, the dataset used in that publication, along with the documentation and metadata necessary to reuse the data, will be deposited at the KU Leuven RDR. This is a generic, online data repository where one can publicly share and preserve research data. The KU Leuven RDR is the preferred option for KU Leuven research data publication as it's the university's institutional research data repository.

When will the data be made available?

- Upon publication of research results

Upon publication of the research results.

Which data usage licenses are you going to provide?

If none, please explain why.

- CC-BY 4.0 (data)

- Free to share and adapt.
- Give appropriate credit, and indicate if changes were made.
- Do not use the material for commercial purposes.
- Distribute your contributions under the same license as the original.

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

Yes. The KU Leuven repository uses a DOI.

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

There are no expected costs for data storage, as OneDrive for Business is free for staff and students of KU Leuven.

Responsibilities

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

Khoi Hoang Nguyen (research fellow) and Katja Biedenkopf (project's supervisor)

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

Khoi Hoang Nguyen (research fellow) and Katja Biedenkopf (project's supervisor)

Who will manage data preservation and sharing?

Khoi Hoang Nguyen (research fellow). In case the research fellow leaves KU Leuven after finishing the PhD, Katja Biedenkopf (project's supervisor) will manage data preservation and sharing.

Who will update and implement this DMP?

Khoi Hoang Nguyen and Katja Biedenkopf.