Voluntary Participation and Exit in International Unions

A Data Management Plan created using DMPonline.be

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Project abstract:

Globalization is one of the main economic trends of the twentieth century. The Global Financial Crisis and the current pandemic have substantially slowed down this trend and reduced the popularity of international integration. This poses a challenge to international unions, which rely on the voluntary participation of countries. The most prominent examples of those tendencies are Brexit, tensions within NATO, the withdrawal of the US from NAFTA, or the recent international trade wars.

The above phenomena pose a challenge to the economic theory of international cooperation. This theory relies on static models and does not consider the possibility of exit from international unions. This project introduces a dynamic model of international unions and the explicit option of an exit decision. The threat of exit changes optimal decision-making within unions, and the model's dynamic nature provides new insights into the union's optimal size and composition. In the second part of the project, the general model is applied to the case of a monetary union. The monetary union framework includes modeling the macroeconomic structure of the member economies. The novel model is used to study the motivation for bail-outs in a monetary union and their dynamic effects.

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FWO DMP (Flemish Standard DMP)

1. 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 reused	Digital or Physical	Digital Data Type	Digital Data format	Digital data volume (MB/GB/TB)	Physical volume
Macroeconomic Data	Macroeconomic times series for Greece and the Eurozone. The data are used for motivating and calibrating the theoretical model.	Reuse	Digital	Compiled/aggregated	.csv	<10MB	
Computer code	Computer code for numerically solving the theoretical model	New	Digital	Software	.m (Matlab code)	<100MB	
Simulation results	Results of the simulations of the solved models.	New	Digital	Simulation data	.mat	<100GB	

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:

I will use existing macroeconomic data series from publicly available data sources:

- The Eurostat Database (https://ec.europa.eu/eurostat/data/database)
- The OECD Database (https://stats.oecd.org/)
- The data on public debt created by Carmen Reinhart and Kenneth Rogoff, available at: https://www.openicpsr.org/openicpsr/project/112444/version/V1/view

Are there any ethical issues concerning the creation and/or use of the data (e.g. experiments on humans or animals, dual use)? Describe these issues in the comment section. Please refer to specific datasets or data types when appropriate.

- No

Will you process personal data? If so, briefly describe the kind of personal data you will use in the comment section. Please refer to specific datasets or data types when appropriate.

- No

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/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

2. 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 the aggregated macroeconomic times series I will create an overview file with the names of the variables, a description of data manipulation, and the source of the original data.
The computer code will be internally documented, so that the code is easily understandable by other researchers in the field. There will be also a README.txt file created that describes all the files needed to obtain the results and the order of steps to be taken.
The simulation results are closely tied to the computer code and will also be described in the README.txt file.

Will a metadata standard be used to make it easier to find and reuse the data? If so, please specify (where appropriate per dataset or data type) which metadata standard will be used. If not, please specify (where appropriate per dataset or data type) which metadata will be created to make the data easier to find and reuse.

- No

NA

3. Data storage & back-up during the research project

Where will the data be stored?

Data is stored on KU Leuven servers. Working copies are available on PCs of PI and PhD student. Data will be kept for at least 10 years, in line with KU Leuven policy. Data codes are made publicly accessible through the journal website (after publication of the paper), the personal website of Michal Kobielarz, or on request. With these files, any researcher interested in replicating the results of the project will be able to do so.

How will the data be backed up?

I use standard KU Leuven procedures for data back-up - provided and managed by KUL ICTS.

Is there currently sufficient storage & backup capacity during the project? If yes, specify concisely.
If no or insufficient storage or backup capacities are available, then explain how this will be taken care of.

- Yes

Provided by KU Leuven. If more space is necessary, this can be easily arranged with KU Leuven ICTS.

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

All project participants will follow standard security measures recommended by KU Leuven.
No physical data in this project.

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

No expected costs - I use the standard network drive available to all KU Leuven employees.
250 euro per TB/year in case more space is required

4. Data preservation after the end of the research project

Which data will be retained for at least five 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 stored for at least 10 years in line with KU Leuven RDM policy.

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

The data will be archived on KU Leuven servers, as well as made publicly available via the Mendeley Data repository (the preferred standard in the field).

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

Free of charge.

5. Data sharing and reuse

Will the data (or part of the data) be made available for reuse after/during the project? In the comment section please explain per dataset or data type which data will be made available.

- Yes, in an Open Access repository

All data will be made publicly available via Mendeley Data after the resulting papers are published.

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

NA

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 in the comment section 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.

All data will be made available via Mendeley Data.

When will the data be made available?

After publication of the papers.

Which data usage licenses are you going to provide? If none, please explain why.

CC BY 4.0

Do you intend to add a PID/DOI/accession number to your dataset(s)? If already available, you have the option to provide it in the comment section.

- Yes

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

Free of charge

6. Responsibilities

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

Michal Kobielarz

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

Michal Kobielarz

Who will manage data preservation and sharing?

Michal Kobielarz

Who will update and implement this DMP?

Michal Kobielarz

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GDPR

GDPR

Have you registered personal data processing activities for this project?

- Not applicable

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DPIA

DPIA

Have you performed a DPIA for the personal data processing activities for this project?

- Not applicable