FWO DMP Template

Project supervisors (from application round 2018 onwards) and fellows (from application round 2020 onwards) will, upon being awarded their project or fellowship, be invited to develop their answers to the data management related questions into a DMP. The FWO expects a **completed DMP no later than 6 months after the official start date** of the project or fellowship. The DMP should not be submitted to FWO but to the research co-ordination office of the host institute; FWO may request the DMP in a random check.

At the end of the project, the **final version of the DMP** has to be added to the final report of the project; this should be submitted to FWO by the supervisor-spokesperson through FWO's e-portal. This DMP may of course have been updated since its first version. The DMP is an element in the final evaluation of the project by the relevant expert panel. Both the DMP submitted within the first 6 months after the start date and the final DMP may use this template.

1. General Information	
Name applicants	Bart Leten, Stijn Kelchtermans, Walter Van Dyck
FWO Project Number & Title	G0C6522N Designing Technology Licensing Contracts
Affiliation	☒ KU Leuven ☐ Universiteit Antwerpen ☐ Universiteit Gent ☐ Universiteit Hasselt ☐ Vrije Universiteit Brussel ☐ Other:
2. Data description	
Will you generate/collect new data and/or make use of existing data?	☒ Generate new data ☒ Reuse existing data

Describe the origin, type and format of the data (per dataset) and its (estimated) volume

*If you **reuse** existing data, specify the **source** of these data.*
*Distinguish data **types** (the kind of content) from data **formats** (the technical format).*

Data	**Source / Collection**	**Format**	**Role in the project**
Interviews	To be collected from corporate contacts	Coded transcripts (Nvivo)	RO1. Identify common clauses and contract design routines
Patent lists & Licensing contracts	In process of collection: Deal in place with BioSciDB (Bioscience Advisors)	Electronic files: csv / dta (Stata)(Python)	RO1/2/3. Basis for constructing detailed indicators for contractual clauses
Panel (1995-2015) of 250 top R&D spending firms in the pharmaceutical industry	Available within applicant team (developed in prior research projects)	Electronic files: dta (Stata)	RO1/2/3. Information about firms' patents, publications, open innovation activities (alliances, corporate venturing investments), R&D investments and financial performance.
Online Markets for Technology (MFT)	To be collected from the web (no cost). Main options: - pharmalicensing.com - Wellspring/Flintbox Data collection through the Internet Archive and (for *pharmalicensing.com*) facilitated by Cognis Group.	Electronic files: csv / dta (Stata)	RO3. The data on the licensing contracts will be matched against historical records of online MFT.

Estimated volume of data = 31GB: interviews (1GB), patent lists & licensing contracts (10GB), panel dataset of 250 top R&D spending firms (10GB) and data for online markets for technology (10GB).

3. Ethical and legal issues

Will you use personal data? If so, shortly describe the kind of personal data you will use AND add the reference to your file in your host institution's privacy register. *In case your host institution does not (yet) have a privacy register, a reference is not yet required of course; please add the reference once the privacy register is in place in your host institution.*	☐ Yes ☒ No We will use data on licensing contracts for which the ultimate source is an oversight institution (i.e., the SEC in the US) or that have been obtained by the data provider (BioSciDB) through the Freedom of Information Act. In case there are confidential clauses, the contracts have been redacted and are supplied under this form by the data provider. We have verified that redacted contracts also contain the necessary information for our analysis. No individual contracts will be reported in publications, workshops or conferences. The names of the interviewees will not be reported in publications, workshops or conferences.
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, add the reference to the formal approval by the relevant ethical review committee(s).	☐ Yes ☒ No If yes: - Reference to ethical committee approval:
Does your work possibly result in research data with potential for tech transfer and valorisation? Will IP restrictions be claimed for the data you created? If so, for what data and which restrictions will be asserted?	☐ Yes ☒ No If yes, please comment:
Do existing 3rd party agreements restrict dissemination or exploitation of the data you (re)use? If so, to what data do they relate and what restrictions are in place?	☐ Yes ☒ No If yes, please comment:

4. Documentation and metadata

What documentation will be provided to enable understanding and reuse of the data collected/generated in this project?	Both in Python and in Stata scripts, comments are added to explain first what is done in the script, which files are the input, which are the output. Additional comments structuring the code and explaining the individual steps are also added. "Read me" files are used and kept within the same folder as the files they apply to. They contain additional information on for instance (color)codes used in the files.
Will a metadata standard be used? If so, describe in detail which standard will be used. If not, state in detail which metadata will be created to make the data easy/easier to find and reuse.	☐ Yes ☒ No If yes, please specify:

5. Data storage & backup during the FWO project	
Where will the data be stored?	During the research, the data will be stored on a Onedrive folder. This is a storage solution provided by the KU Leuven that ensures secure sharing of the data only between the co-authors of the project
How will the data be backed up?	The Onedrive folders are a cloud solution with integrated back-ups, which ensures data availability. The promotor will keep a local backup copy of the data in an encrypted folder. Both the encrypted local copy and the copy on the cloud folder will be kept for future reference, for at least 5 years after completion of the project.
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 ☐ No The KU Leuven OneDrive for business solution provides 2000GB storage capacity.

What are the expected costs for data storage and backup during the project? How will these costs be covered? *Although FWO has no earmarked budget at its disposal to support correct research data management, FWO allows for part of* ***the allocated project budget*** *to be used to cover the cost incurred.*	There are no costs involved as KU Leuven provides all personnel a free OneDrive for Business account.
Data security: how will you ensure that the data are securely stored and not accessed or modified by unauthorized persons?	This is done through use of KU Leuven OneDrive as all supervisors have access through their KU Leuven accounts. As a backup, the data will also be stored on Vlerick OneDrive (in addition to local storage on the computer).

6. Data preservation after the end of the FWO project

FWO expects that data generated during the project are retained for a period of minimally 5 years after the end of the project, in as far as legal and contractual agreements allow.

<table>
<tr><td>Which data will be retained for the expected 5 year period after the end of the project? In case only a selection of the data can/will be preserved, clearly state the reasons for this (legal or contractual restrictions, physical preservation issues, ...).</td><td>
<table>
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</table>
</td></tr>
<tr><td>Where will these data be archived (= stored for the long term)?</td><td>The data will be stored on a OneDrive folder. The promotor will keep a local backup copy of the data in an encrypted folder. Both the encrypted local copy and the copy on the cloud folder will be kept for future reference, for at least 5 years after completion of the project.</td></tr>
<tr><td>What are the expected costs for data preservation during these 5 years? How will the costs be covered?

Although FWO has no earmarked budget at its disposal to support correct research data management, FWO allows for part of the allocated project budget to be used to cover the cost incurred.</td><td>There are no costs involved as KU Leuven provides all personnel a free OneDrive for Business account.</td></tr>
</table>

7. Data sharing and reuse

Are there any factors restricting or preventing the sharing of (some of) the data (e.g. as defined in an agreement with a 3rd party, legal restrictions)?	☐ Yes ☒ No If yes, please specify:
Which data will be made available after the end of the project?	It concerns proprietary data. It will be shared during the PhD trajectory within the research team, for follow-up work with collaborators. It will not be made available through a repository.
Where/how will the data be made available for reuse?	☐ In an Open Access repository ☐ In a restricted access repository ☐ Upon request by mail ☒ Other (specify): Data will not be made available through a repository
When will the data be made available?	NA
Who will be able to access the data and under what conditions?	It concerns proprietary data. It will be shared during the PhD trajectory within the research team, for follow-up work with collaborators
What are the expected costs for data sharing? How will these costs be covered? *Although FWO has no earmarked budget at its disposal to support correct research data management, FWO allows for part of* ***the allocated project budget*** *to be used to cover the cost incurred.*	NA

8. Responsibilities	
Who will be responsible for the data documentation & metadata?	Bart Leten, Stijn Kelchtermans, Walter Van Dyck
Who will be responsible for data storage & back up during the project?	Bart Leten, Stijn Kelchtermans, Walter Van Dyck
Who will be responsible for ensuring data preservation and sharing?	Bart Leten, Stijn Kelchtermans, Walter Van Dyck

Who bears the end responsibility for updating & implementing this DMP? *Default response: The PI bears the overall responsibility for updating & implementing this DMP*	Bart Leten, Stijn Kelchtermans, Walter Van Dyck