

OPEN KNOWLEDGE PLAN

Version 1
April 2018

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Introduction

The participants of WATExR are committed to providing open access to data and deliverables from the project, in line with JPI Climate Guidelines on Open Knowledge, to actively promote, design and implement comprehensive open knowledge policies in order to enhance research activities' societal benefit. This **Open Knowledge Plan** (OKP) describes the data, codes, and tools that our research will generate, how we will ensure its curation, preservation and sustainability, what parts of the data and products will be open, and how we plan to achieve this. The OKP is in fact a living document which will be updated as the project progresses and deliverables become available. The FAIR (Findable, Accessible, Interoperable, and Re-usable) data management principles have been considered to develop the OKP.

WATExR considers the following lines of action in its OKP: 1) open lincensing, 2) Open formats, 3) Open access publishing, 4) Publishing costs, and 5) Open data.

1. Open licensing

In order to reconcile the proper management of intellectual property and the broad distribution and use of information and knowledge generated in WATExR, the use of the Creative Commons "Attribution" license (CC-BY) and the "public domain" license (CC0) is recommended when dealing with research results and data (including meta-data), respectively. This also includes the internal deliverables produced in the project.

JPI Climate recommends using the CC-BY license when dealing with scientific publications, as it is the less restrictive one. When dealing with data (including metadata), JPI Climate recommends using the CC0 license, since it is the only ensuring unlimited access, re-use and re-dissemination.

An **Intellectual Property Rights Committee** with representatives of each Parties and coordinated by the Coordinator's Innovation Manager (Mr. Jaume Alemany) has been appointed by the Supervisory Board, and

will be the body in charge of making sure that decisions regarding licensing and protection vs. publication are well taken and do not become a matter of conflict among Parties. The use of CC-BY or CC0 will be decided on the basis of an assessment of IPR aspects of every publication, abstract, media, or internal report/deliverable published in WATExR, using a dedicated IPR check-list available for all project members.

The IPR committee will adhere to the following procedure (always by e-mail unless asked otherwise by a IPR member):

1. The PI of the institution of the first author of a publication, report, etc., sends the IPR check-list to all WATExR team members, with a copy of an almost-ready version of the item for which permission to publish is asked. The e-mail communication will also include a suggestion for the type of licensing, if applicable
2. Members of the project will have 10 days to make allegations to the contents of the check-list, the item itself, or the suggested licensing.
3. After this period, the chairperson of the IPR committee will approve the dissemination activity or suggest modifications. The project coordinator will authorize the submission or notify the required modifications via e-mail. Instructions for licensing will be provided if applicable. Coping with the Creative Commons licenses is not particularly challenging; there are just a few key aspects that should be taken into account when using them. In order to get familiar with them, JPI Climate recommends the official Creative Commons website, in which a brief set of best practices in attribution is available.

IPR check-list is included at the end of this document.

2. Open formats

Recognising that the new online possibilities to create and share documents (e.g. “Google Docs”, “Prezi”) might lead to a lessen importance of this issue in the future, WATExR will promote the use of open formats (ODF), since this is the only way to achieve full interoperability in international-based standards (and not in vendor-based file formats).

The coordinator will promote the use of **open formats** for the distribution of working documents for internal purposes, and also for Deliverables if applicable. All internal documents (text, spreadsheets, presentations) will be distributed in the default open format used by the **LibreOffice** suite. Team members should avoid changing to vendor-based formats when replying or commenting a document received in an open format.

The LibreOffice suite can be downloaded in this page for multiple platforms: <https://www.libreoffice.org/>

3. Open Access publishing

As stated in the Consortium Agreement, Open Access requirements for all scientific publications produced by WATExR will support both Green Open Access (immediate or delayed open access provided through self-archiving), and Gold Open Access (immediate open access provided by a publisher). Other possibilities offering restrictive Open Access rights through e.g. national contracts with given publishers are not contemplated.

JPI-Climate thinks that by fostering the “green” road it is crucial to specify where research output is to be deposited. In this respect, JPI Climate (a) recommends using those consolidated repositories (“arXiv” (<http://arxiv.org/>) and “PubMed” (<http://europepmc.org/>)), as well as those included in the EC’s platform OpenAIRE; and (b) encourages members and partners to enable and empower those research organisations at their home countries that still have not created a repository to do so if they deem it appropriate. WATExR will work on this line.

4. Publishing costs

Funding agencies will assume in their budgets those costs related to open access data managing and research results publication, including the so-called Author Processing Charges (APCs), if any.

In case of a publication authored by people from more than one institution, the funding agency of the first author will assume the publishing costs. However, the partners are free to negotiate any other arrangement.

5. Open Data

WATExR advocates for Open Data policies based on the principle that any data (including meta-data) that is produced with public funds belongs to the public, and should therefore be released as open data.

Data Management Plans (DMP) are iterative documents defining responsibilities in the data (and metadata) publication and curation (i.e. collection, monitoring, archiving, maintenance and preservation of digital assets).

Open source software (impact models, data extraction, analysis and GIS) will be used throughout the project whenever possible, and source code for all workflows will be made available through **Github**. It is envisaged that the tools which are co-developed in WP1 will transfer into executable QGIS plug-ins with linked source code in Github. These tools will be accompanied by accessible user guides.

Restrictions on project data (e.g. third party datasets used during the project) which may prevent them from being open access will be highlighted at an early stage and justification provided for why this is the case. In preparing our DMP, we will determine whether a stand-alone repository for data arising from the project will be used, or whether we can use repository infrastructures which are already in place (e.g. <https://www.openaire.eu/>

There are two issues which may result particularly controversial in this topic, namely the timing by publishing data and the most proper platform to do so. The former issue can be solved in the worst case by establishing retention periods. If funders assure that datasets are not published before the agreed retention period, manuscript can be handed over to funders immediately after a project is finished. The latter issue is more open, since there are many possibilities to deposit a set of data. For climate-related data, the GEOSS portal is explicitly recommended by the EC for JPI Climate.

WATExR will further develop a Data Management Plan in line with the FAIR framework. The first draft of the plan will be elaborated during the annual meeting of the project in 2018.

IPRC chek-list

CONFIDENTIAL

IPRC Checklist prior to publishing	Yes/No	Description / Comments
Publishing Author Checklist		
Title of the paper / abstract/ presentation....		
Type of Dissemination Activity <i>Name of Conference with dates and place, journal, peer-reviewed publication, paper in proceedings of a conference / workshop, article/section in an edited book or book series, thesis/dissertation, university publication/scientific monograph, RTD protocol/technical manual, book/review, case study, guidelines/standards, training activity/learning module, software/modelling tools, product prototype, services/tools, multimedia, patent, training course, other (if other is chosen, please clarify).</i>		
List the Authors and their organisation		
Have all contributors to the publication been included in the author list or are otherwise properly acknowledged? <i>Include the names of the authors.</i>		
Have different institutions been involved in this publication? If different institutions have been involved, have you taken care of ownership issues? <i>Include the names and address of the institution/s</i>		
Is acknowledgement to RFOs included? <i>Note: always include the statement indicated for each Research Funding Organizations</i>		The standard acknowledgement formula communicated by ERA4CS is "Project WATExR is part of ERA4CS, an ERA-NET initiated by JPI Climate, and funded by MINECO (ES), FORMAS (SE), BMBF (DE), EPA (IE), RCN (NO), and IFD (DK), with co-funding by the European Union (Grant 690462)"
Does it correspond to work done within the project? <i>Include , if possible, WP number and tasks numbers.</i>		

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Does it include work performed within other projects? <i>Include name/code of the project</i>		
IPR-Committee Checklist		
Should the Information being disclosed be Protected prior to disclosure ? <i>By whom and how ?</i>		
Are all Partners satisfied that all authors, including from other Partners, have been included ?		
Is the published information considered to be commercially exploitable? By which partner(s)? <i>Authors and IPRC assessment. Who considers and why. IPRC shall include assessment about its commercial/industrial value</i>		
Which are the stakeholders that could be interested in knowing about the results and the conclusions of your work? <i>Choose the relevant target group(s) among:</i> A)Policy/decision makers B)Agencies and consumer organisations C)Other stakeholders		
Decision by the IPR Committee		
Approve publication without modification		Signed by Chairperson of IPRC: _____ Date_____
Publication approved with Modifications		Modifications required : Signed by Chairperson of IPRC: _____ Date_____