DSW project name

Organization DS-Review

Created by Nikita Bardatskii (n.bardatskii@gmail.com)

Based on Life Sciences DSW Knowledge Model, 2.4.4 (dsw:lifesciences:2.4.4)

Project Phase Before Submitting the Proposal

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posuere rhoncus. Pellentesque quis hendrerit lacus. Integer lectus diam, efficitur et ipsum

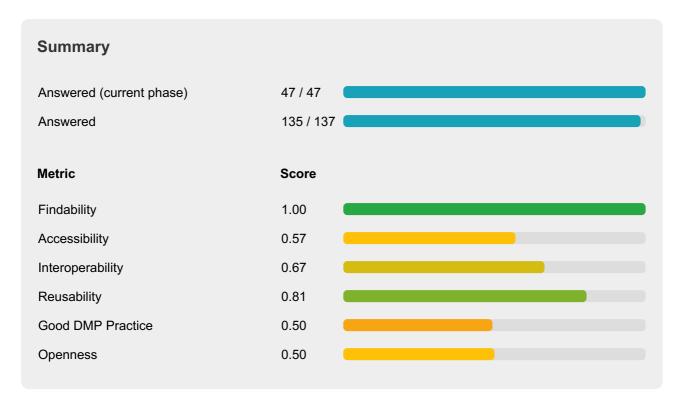
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Created at 10 May 2023



Summary Report



I. Administrative information

Summary Answered (current phase) 7 / 7 Answered 29 / 29

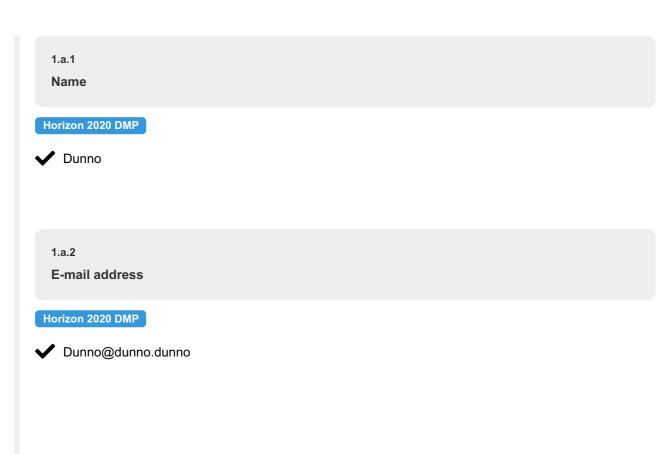
Questions

1 Contributors

Horizon 2020 DMP

Each person contributing to creating or executing the data management plan should be added as a contributor. A project probably should have a Contact Person, and a Data Curator.

Answers



1.a.3 ORCID Identifier
Horizon 2020 DMP
✓ orcid identifier
•
1.a.4
Affiliation
Horizon 2020 DMP
✓
affiliation
1.a.5
Role
Horizon 2020 DMP
Roles in a project should be given as they are defined by <u>datacite</u> .
You should specify at least one "Contact Person". If your project has a work package for data management, identify the leader of that work package as "Data Curator".
Contact Person
Data Collector
Data Curator Data Manager
Data Protection Officer
Data Steward
✓ Distributor
Editor
Producer Project Leader
Project Leader Project Manager
Project Member
Researcher
Rights Holder
Sponsor
Supervisor



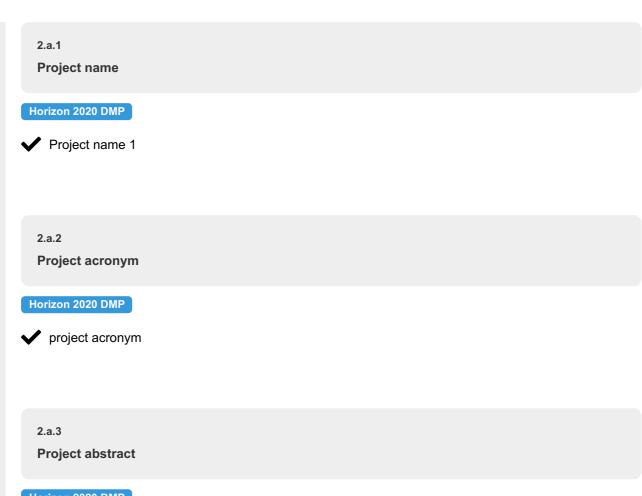
2

Research Project(s)

Horizon 2020 DMP

Add each of the research project(s) that you are (or will be) working on and for which the data and work are described in this DMP. Give each project a small identifying name for yourself.

Answers



Horizon 2020 DMP

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2.a.4

Starting date of the project

Horizon 2020 DMP

2023-05-10

2.a.5

Ending date of the project

Horizon 2020 DMP

2023-05-31

2.a.6

Funding

Horizon 2020 DMP

Add all the funding that are part of this project.

Answers

2.a.6.a.1

Funder

Horizon 2020 DMP

Specify the name of the funder that you ask for funding for your project. If the funder is not present in the suggested list, please specify a complete URL to the funder web site.



National Science Foundation Crossref http://dx.doi.org/10.13039/100000001 2.a.6.a.2 **Funding status** Horizon 2020 DMP a. Planned 2.a.6.a.3 **Grant number** Horizon 2020 DMP grant number 2.b.1 **Project name** Horizon 2020 DMP ✓ project name 2 2.b.2 **Project acronym** Horizon 2020 DMP ✓ acronym

2.b.3

Project abstract

Horizon 2020 DMP

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2.b.4

Starting date of the project

Horizon 2020 DMP

2023-05-11

2.b.5

Ending date of the project

Horizon 2020 DMP

2023-06-08

2.b.6

Funding

Horizon 2020 DMP

Add all the funding that are part of this project.

Answers

2.b.6.a.1

Funder

Horizon 2020 DMP

Specify the name of the funder that you ask for funding for your project. If the funder is not present in the suggested list, please specify a complete URL to the funder web site.



National Science Foundation



Crossref http://dx.doi.org/10.13039/100000001

2.b.6.a.2

Funding status

Horizon 2020 DMP



c. Granted

2.b.6.a.3

Grant number

Horizon 2020 DMP



3

To execute the DMP, is additional specialist expertise required?

Horizon 2020 DMP

c. Yes, we will be training existing staff

3.c.1

What kind of training?

Horizon 2020 DMP

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4

Do you require hardware or software in addition to what is usually available in the institute?

Horizon 2020 DMP



b. Yes

4.b.1

What specific hard/software do you need, and why?

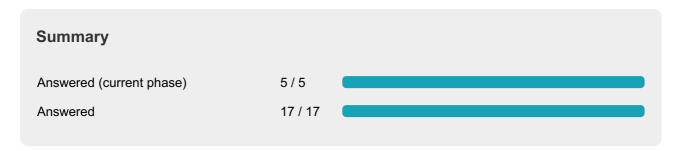
Horizon 2020 DMP

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II. Re-using data

Before you decide to embark on any new study, it is good practice to check all options to re-use existing available data, either collected or generated by yourself in an earlier project, or data from others (Barend Mons calls this "Other PEople's Data And Services" or OPEDAS). This can include reusable data that have been created for an earlier study, and also so-called "reference data" which is used by many projects.

It is not because we can generate massive amounts of data that we always need to do so. Creating data with public money is bringing with it the responsibility to treat those data well and (if potentially useful) make them available for re-use by others. And the circle is only complete if such data is actually re-used.



Questions

Is there any pre-existing data?

Horizon 2020 DMP

Are there any data sets available in the world that are relevant to your planned research?

Data Stewardship for Open Science: <u>atq</u>

External Links: <u>Google dataset search</u>, <u>Datacite Search</u>, <u>RDMkit on Reusing Data</u>, <u>RDMkit on Existing</u>



1.b.1

What existing reference data did you consider re-using?

Horizon 2020 DMP

Much of todays data is used in comparison with reference data. You may be comparing your own data with a "standard set" which is maintained as a collection by someone else. Or you could be determining differences to a standard (for example in bioinformatics, a genome is often compared with a reference genome to identify genomic variants). If you use reference data, there are several specific issues that you should consider. What are the reference data sets that you will use?

Data Stewardship for Open Science: <u>quc</u>

Answers

1.b.1.a.1

Reference database or dataset

Horizon 2020 DMP

Give the name of the database or dataset. You will be shown suggestions of data bases from FAIRSharing, but you can also type the name of a dataset that is not in FAIRsharing



Kaggle Datasets



https://fairsharing.org/10.25504/FAIRsharing.mjq9vj

1.b.1.a.2

Where is this reference data available

Horizon 2020 DMP

Specify a URL or a persistent identifier (e.g. DOI) for the database or dataset. If possible, refer exactly to the version that you are using.



✓ https://url.com

1.b.1.a.3

Will you be using this reference data set?

Horizon 2020 DMP



✓ b. Yes

1.b.1.a.3.b.1

What are the conditions of use for this database or dataset?

Horizon 2020 DMP

Although there is no world-wide rule for the application of copyright on data sets (copyright only applies to things that require a so-called "creative step"), it is wise to check for an explicit permission to use a data set and not to assume that data can be used freely just because you can access it. Note that copyright laws explicitly *forbid* the use of a copyrighted work, *except* if you get permission. Such a permission is called a "licence". So: if you can not find a licence, you have to assume you can not use the data.

External Links: Wikipedia on Copyright

c. They are available under some restrictions, which we will follow in our project

1.b.1.a.3.b.1.c.1

What conditions?

Horizon 2020 DMP

Please describe the conditions.

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1.b.1.a.3.b.2

Is the reference database or dataset versioned?

Horizon 2020 DMP

Many reference datasets and databases evolve over time. If the reference data changes, this may affect your results. If different versions of a reference data exist, you need to establish your "version policy".

Data Stewardship for Open Science: <u>rgy</u>

🗸 b. Yes

1.b.1.a.3.b.2.b.1

Which version will you use?

Horizon 2020 DMP

If there are different versions available, you have to decide with all project partners together which version you will be using. Probably you will go for the latest release as of the date of the start of your research project. However, if you have other data from older projects that need to be merged, you may need to consider using the same release you used for a previous project.

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1.b.1.a.3.b.2.b.2

Will you change version if it updates?

Horizon 2020 DMP

If the reference changes while you are working on your research project, you need to decide whether you will follow these changes. Most likely that will mean that you have to do some analyses again, so you will need to make sure enough resources are available to do so. You can decide to stay with the version that you started with; this can have the disadvantage that you will not benefit from added information or added consistency.



a. Will stay with the old version

1.b.2

What existing non-reference data sets did you consider re-using?

Horizon 2020 DMP

Even if you will be producing your own data, you often will also be relying on existing data sets (e.g. from your own earlier projects). You may need to integrate your new data with an existing data set or retrieve additional information from related data bases. Will you be doing such things?

Data Stewardship for Open Science: wya

Answers

1.b.2.a.1

Non-reference data set

Horizon 2020 DMP

Give a name for the data set. You will get suggestions listing databases listed in FAIRSharing, but you can also specify data sets that are not listed.



ConoServer



https://fairsharing.org/10.25504/FAIRsharing.y00hz4

1.b.2.a.2

Where is this non-reference data set available

Horizon 2020 DMP

Specify a URL or a persistent identifier (e.g. DOI) for the data set. If the data set is versioned, try to refer to the exact version you will use.



https://url.com

1.b.2.a.3

Will you be using this non-reference data set?

Horizon 2020 DMP



b. Yes

1.b.2.a.3.b.1

What are the conditions of use for this data set?

Horizon 2020 DMP

Although there is no world-wide rule for the application of copyright on data sets (copyright only applies to things that require a so-called "creative step"), it is wise to check for an explicit permission to use a data set and not to assume that data can be used freely just because you can access it. Note that copyright laws explicitly *forbid* the use of a copyrighted work, *except* if you get permission. Such a permission is called a "licence". So: if you can not find a licence, you have to assume you can not use the data.

External Links: Wikipedia on Copyright

c. They are available under some restrictions, which we will follow in our project

1.b.2.a.3.b.1.c.1

What conditions?

Horizon 2020 DMP

Please describe the conditions.

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1.b.2.a.3.b.2

How will you be accessing the data?

Horizon 2020 DMP

a. Already have a copy

III. Creating and collecting data

In this chapter we describe all the sources of data: they can e.g. come from instruments or from questionnaires; data can be newly collected as part of the current project, but it can also be pre-existing data that may need proper contracts with the maintainer, some pre-processing, and quality checks. It can also be reference data that is part of curated resources and (public) databases.

For more information see Collecting in RDMKit



Questions

1

How will you do file naming and file organization?

Horizon 2020 DMP

Putting some thoughts into file naming can save a lot of trouble later.

External Links: <u>RDMkit on data organisation</u>



1.a.1

Did you make appointments in the project on how to name files and folders?

Horizon 2020 DMP

It can help if everyone in the project uses the same naming scheme.



1.a.1.b.1

How do you name files in the project?

Horizon 2020 DMP

Describe how everyone in the project will be naming files and folders, and what folder structure you will use.

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1.a.2

Will you be keeping the relationships between data clear in the file names?

Horizon 2020 DMP

Advice: Use the same identifiers for sample IDs etc throughout the entire project.



1.a.3

Will all the metadata that is embedded in the file names also be available in the proper metadata?

Horizon 2020 DMP

The file names are very useful as metadata for people involved in the project, but to computers they are just identifiers. To prevent accidents with e.g. renamed files metadata information should always also be available elsewhere and not only through the file name.

Also note that if metadata could need to change, embedding it in the file names may require renaming files during the project; and this may have implications for references to those files.

✓ b. Yes, all metadata is also explicitly available elsewhere

1.a.4

Will you be using persistent identifiers to refer to data within the project?

Horizon 2020 DMP

Especially for large projects, referring to data internally via a persistent identifier system can be helpful as such a system can help to keep track of data that moves to a new location.

External Links: The Handle System, Handbook on Persistent Identifiers



2

What existing data formats/types will you be using?

Horizon 2020 DMP

Have you identified types of data that you will use that are used by others too? Some types of data (for example "images" or "tables") are used by many different projects. For such data, often common standards exist (in our example "JPG" and "CSV" [comma separated values]) that help to make these data reusable. Are you using such common data formats?

Please make sure you list all the data types that are important for your project. You should make sure also to list the formats used in any data sets that you are re-using.

Data Stewardship for Open Science: njy

Answers

2.a.1

Data format/type

Horizon 2020 DMP



Mosquito gross anatomy



https://fairsharing.org/10.25504/FAIRsharing.dqnfkg

2.a.2

Is this a standard data format widely used by researchers in this field?

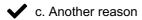
Horizon 2020 DMP



2.a.2.a.1

Why are you using a non-standard format?

Horizon 2020 DMP



2.a.2.a.1.c.1

What other reason do you have for not using a standard file format for this type?

Horizon 2020 DMP



2.a.3

Does this data format enable sharing and long term archiving?

Horizon 2020 DMP

Complicated (binary) file formats tend to change over time, and software may not stay compatible with older versions. Also, some formats (e.g. DOC, XLS) hamper long term usability by making use of patents or being hampered by restrictive licensing.

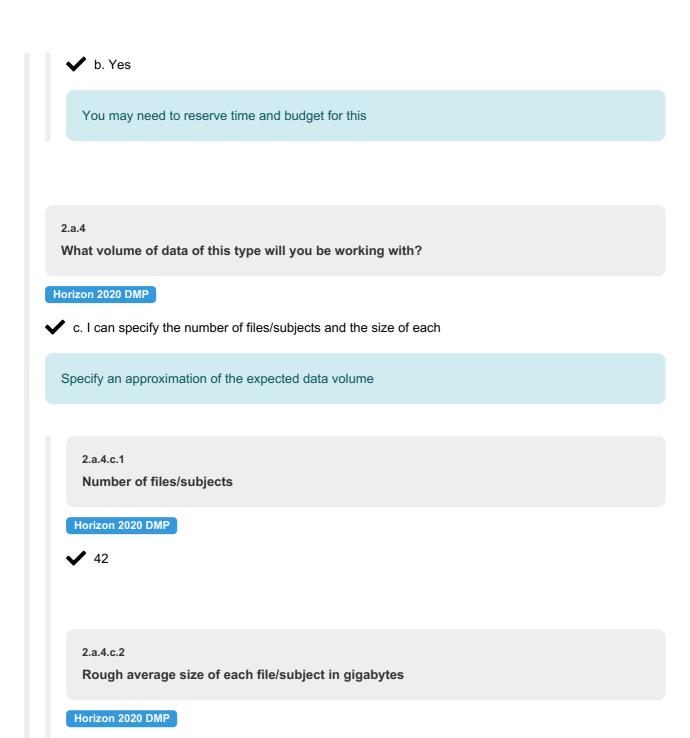
Ideally a format should be simple, text only, completely described, not restricted by copyrights, and implemented in different software packages.



2.a.3.a.1

Will you convert to a file format more suitable for archiving later?

Horizon 2020 DMP



42

What existing encodings/terminologies/vocabularies/ontologies will you be using?

Horizon 2020 DMP

External Links: <u>RDMkit on Plant Sciences</u>

Answers

3.a.1

Name

Horizon 2020 DMP



HOMology



https://fairsharing.org/10.25504/FAIRsharing.efv7gw

3.a.2

If you use a standard that is not in FAIRsharing, please specify its PID or URL

Horizon 2020 DMP



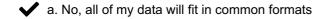
4

Will you be using new types of data?

Horizon 2020 DMP

Sometimes the type of data you collect can not be stored in a commonly used data format. In such cases you may need to make your own, keeping interoperability as high as possible.

Data Stewardship for Open Science: ikk



5

How will you be collecting and keeping your metadata?

Horizon 2020 DMP

For the re-usability of your data by yourself or others at a later stage, a lot of information about the data – for example how it was collected and how it can be used – should be stored with the data. Such *data about the data* is called **metadata**, and this set of questions are about this metadata.

Data Stewardship for Open Science: <u>rhm</u>

External Links: RDMkit on documentation and metadata, Metadata Standards Catalogue (RDA)

a. Explore

There are many kinds of metadata, each serving their own purpose. Some key metadata that you should consider:

- There is metadata that helps identify where the data is coming from (e.g. who created it, title). For this the Dublin Core is often used.
- There are different ways of adding metadata to make the data "discoverable" for other researchers. This requires either keywords or ontology terms describing what is in the data.
- There is metadata describing how the data can be re-used, such as license information and, for data about people, the extent of their consent for data reuse.
- There is metadata that makes the data understandable, e.g. linking to the exact processes used to collect them (is a body temperature measured under the tongue or in the rectum?) and units (is a temperature given in Celsius or Fahrenheit?).
- There is metadata describing where the data comes from and what it is useful for. For frequently used data types, there are often very well defined metadata standards, in other cases you may need to think about this yourself. For each of these kinds of metadata there are specific standards. There is no single standard that will get you all the metadata needed to make the data as FAIR as possible.

5 a 1

What standard(s) will you use to specify author/title/keyword information?

Horizon 2020 DMP

There are a few different standards that are often used to give basic information about your dataset. Which ones of these will you be using?

a. Explore

5.a.1.a.1

Will you document the data with Dublin Core metadata?

Horizon 2020 DMP

Dublin Core is a standard documenting domain independent aspects of a resource; including who has created it, audience, function, formatting and licensing. Does your documentation follow the Dublin Core standard?

External Links: <u>Dublin Core Metadata Terms</u>, <u>Dublin Core Initiative</u>

b. Yes

5.a.1.a.2

Will you document the data with DataCite metadata

Horizon 2020 DMP

External Links: <u>DataCite metadata schema</u>



5.a.1.a.3

Will you document the data with DDI metadata

Horizon 2020 DMP

DDI metadata is more extensive than Dublin Core and DataCite, it details more of what is in the data and really can help other researchers locate your data set as an interesting source.

External Links: <u>DDI metadata documentation</u>



5.a.2

Do suitable 'Minimal Metadata About ...' (MIA...) standards exist for your experiments?

Horizon 2020 DMP

Many research fields have worked together to define what kind of metadata should really be collected when an experiment of a certain kind is performed and described. That information is described in a Minimal Metadata Standard. Often, these standards describe both what kind of information needs to be collected as well as the format in which it is expected.

External Links: <u>FAIRsharing repository of standards</u>



5.a.2.b.1

Which "Minimal Information" standards will you use?

Horizon 2020 DMP

X This question has not been answered yet!

5.a.3

How will you be keeping track of the "provenance" of the data?

Horizon 2020 DMP

Data analysis is normally done step-by-step. It is important that for all data the origin and all processing and filtering steps are documented, otherwise results will not be reproducible.

Re-users of the data also need this information to decide whether the data can be used for their purpose.

In computing, systems like Galaxy and (Jupyter) notebooks often automatically keep provenance information.

✓ b. We use an electronic lab notebook

5.a.4

Will you be documenting the data with W3C PROV provenance?

Horizon 2020 DMP

The W3C Prov standard documents processes (workflow) that were used to produce a resource. This can be used to document e.g. the software (including version) and parameters you use to analyze the data. Will your documentation follow the W3C Prov standard?

External Links: W3C Prov primer

b. Yes

Will you be acquiring data using measurement equipment?

Horizon 2020 DMP

b. Yes

6.b.1

Specify what data sets you will acquire using measurement equipment

Horizon 2020 DMP

You can use any name for the data set, make sure that it identifies the data set to yourself.

Answers

6.b.1.a.1

Data set:

Horizon 2020 DMP

✓ Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus

6.b.1.a.2

Who will do the measurements? And where?

Horizon 2020 DMP

Are there easily accessible specialized service providers for data capture?



c. External party

consider making them partner in the project

6.b.1.a.2.c.1

Has formal ownership of the data been established?

Horizon 2020 DMP

c. We have made other arrangements

6.b.1.a.2.c.1.c.1

What other arrangements?

Horizon 2020 DMP

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6.b.1.a.3

Is the equipment completely standard and well described?

Horizon 2020 DMP

If the technology is very much under development, you may want to come back later to understand exactly how the measurements have been made. Is the measurement equipment and protocol sufficiently standard that you will be able to explain how it is done or refer to a standard explanation?

b. Less well described or not completely standard

Take pictures of the instruments for documentation, and keep copies of any documentation.

6.b.1.a.4

Who else could be interested in using this data?

Horizon 2020 DMP

c. Researchers working in other fields

6.b.1.a.4.c.1

How do you think other researchers can use this data?

Horizon 2020 DMP

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7

Do you have any non-equipment data capture?

Horizon 2020 DMP

Does the data you collect contain non-equipment captured data such as questionnaires, case report forms, electronic patient records?

Data Stewardship for Open Science: ybw

✓ b. Yes

7.b.1

Will you be collecting questionnaires?

Horizon 2020 DMP

✓ b. Yes

7.b.2 Will you be collecting case report forms? Horizon 2020 DMP Data Stewardship for Open Science: <a href="https://doi.org/10.2016/j.jps.1006/j.ps.1006/j.jps.1006/j.jps.1006/j.jps.1006/j.jps.1006/j.ps.10 b. Yes 7.b.3 Will you be collecting data from electronic patient records? Horizon 2020 DMP ✓ b. Yes 7.b.3.b.1 Has access to the electronic patient records been arranged? Horizon 2020 DMP a. Not yet 7.b.4 Please list all non-equipment data sets you will collect Horizon 2020 DMP You can use any name for the data set, make sure that it identifies the data set to yourself. **Answers** 7.b.4.a.1 Data set: Horizon 2020 DMP ✓ Lorem ipsum dolor sit amet, consectetur adipiscin

7.b.4.a.2

Description

Horizon 2020 DMP

Briefly describe the contents of this data set

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7.b.4.a.3

Who else could be interested in using this data?

Horizon 2020 DMP

c. Researchers working in other fields

7.b.4.a.3.c.1

How do you think other researchers can use this data?

Horizon 2020 DMP

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8

How is the ownership of the collected data arranged?

Horizon 2020 DMP



✓ a. Our data is legally not copyrightable, there is no legal owner

IV. Processing data

In the processing phase, the data will be undergoing the mostly automated steps for processing, before the analysis and interpretation.

In this chapter, many questions are focusing on the compute environment that is used to process the data and make it available for interpretation by project partners. Some of those questions (e.g. on workflow systems and data provenance) are also relevant for the work in the interpretation phase.



Questions

1

Will you be using a shared working space to work with your data?

Horizon 2020 DMP

Will you be using a working space containing data and software specific to the project that is shared between all the people working on the data in the project? Sometimes such a system is called a *Virtual Research Environment*.



2

How will you validate the integrity of the results?

Horizon 2020 DMP



a. Explore

2.a.1

Will you run a subset of your jobs several times across the different compute infrastructures you are using?

Horizon 2020 DMP

There are surprisingly many complications that can cause (slight) inconsistencies between results when workflows are run on different compute infrastructures. A good way to make sure this does not bite you is to run a subset of all jobs on all different infrastructure to check the consistency.



2.a.2

Will you be instrumenting the tools into pipelines and workflows using automated tools?

Horizon 2020 DMP

Surrounding all tools in your data processing and analysis workflows with the 'boilerplate' code necessary on the computer system you are using is tedious and error prone. Especially if you are using the same tools in multiple different work flows and/or on multiple different computer architectures. Automated instrumentation, e.g. by using a workflow management system, can prevent many mistakes.



a. No

2.a.3

Will you use independently developed duplicate tools or workflows for critical steps to reduce or eliminate human errors?

Horizon 2020 DMP

Validation of results without a golden standard is very hard. One way of doing it is to develop two solutions for a problem (two independent workflows or two independently developed tools) to check whether the results are identical or comparable.



🗸 a. No

2.a.4

Will you run part of the data set repeatedly to catch unexpected changes in results?

Horizon 2020 DMP

Running a small subset of the data repeatedly can be useful to catch unexpected problems that would otherwise be very hard to detect.

Data Stewardship for Open Science: <u>egv</u>

✓ b. Yes

3

Is the risk of information loss, leaks and vandalism acceptably low?

Horizon 2020 DMP

There are many factors that can contribute to the risk of information loss or information leaks. They are often part of the behavior of the people that are involved in the project, but can also be steered by properly planned infrastructure.



3.a.1

Do project members store data or software on computers in the lab or external hard drives connected to those computers?

Horizon 2020 DMP

When assessing the risk, take into account who has access to the lab, who has (physical) access to the computer hardware itself. Also consider whether data on those systems is properly backed up



3.a.2

Do project members carry data with them?

Horizon 2020 DMP

Does anyone carry project data on laptops, USB sticks or other external media?



3.a.2.b.1 Are all data carriers encrypted? Horizon 2020 DMP ✓ b. Yes 3.a.2.b.2 Are accounts on laptops password protected? Horizon 2020 DMP 🗸 a. No 3.a.3 Do all data centers where project data is stored carry sufficient certifications? Horizon 2020 DMP 🖊 a. No 3.a.4 Are all project web services addressed via secure http (https://)? Horizon 2020 DMP 🖊 a. No 3.a.5 Have project members been instructed about the risks (generic and specific to the project)?

Horizon 2020 DMP

Project members may need to know about passwords (not sharing accounts, using different passwords for each service, and two factor authentication), about security for data they carry (encryption, backups), data stored in their own labs and in personal cloud accounts, and about the use of open WiFi and HTTPS.



3.a.6

Did you consider the possible impact to the project or organization if information is lost?

Horizon 2020 DMP

✓ b. Yes; the effect is small

3.a.7

Did you consider the possible impact to the project or organization if information leaks?

Horizon 2020 DMP

Your institute may have a generic risk assessment; you should be informed about this.

✓ b. Yes; the effect is small

3.a.8

Did you consider the possible impact to the project or organization if information is vandalized?

Horizon 2020 DMP

d. Yes; we will need to work on this.

3.a.9

Are personal data sufficiently protected?

Horizon 2020 DMP

External Links: <u>RDMkit on Sensitive Data</u>, <u>RDMkit on Human Data</u>

a. We are not using any personal information

V. Interpreting data

The interpretation of the data consists of the last steps of processing (often with manual interventions), visualisation, and data integration. In this chapter many questions about data interoperability will come up.

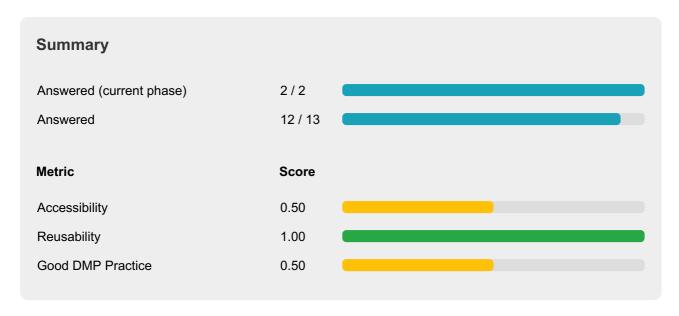
Summary			
Answered (current phase)	0/0		
Answered	0/0		

Questions

No questions

VI. Preserving data

In this chapter, issues regarding data publication and long term archiving are addressed.



Questions

Specify a list of data sets you will be producing

Horizon 2020 DMP

Add all the data sets you will be producing. Give each a short name, sufficient for yourself to know what data it is about. It is useful to think about a data set as some collection of data that will be ending up in the same place.

External Links: <u>RDMkit on Collecting Data</u>, <u>RDMkit on Data Preserving</u>

X This question has not been answered yet!

2

Will you be archiving data (using so-called 'cold storage') for long term preservation already during your project?

Horizon 2020 DMP

Much of the raw data you have will need to be archived for your own later use somewhere. This is often done off-line on tape, not on the disks of the compute facility. Please note that this does not refer to the data publication.

Data Stewardship for Open Science: kjp

✓ b. Yes

2.b.1 Will the archive be stored in a remote location, protecting the data against disasters? Horizon 2020 DMP ✓ a. No 2.b.2 Will the archive need to be protected against loss or theft? Horizon 2020 DMP ✓ b. Yes 2.b.2.b.1 Will the archive be encrypted? Horizon 2020 DMP c. Yes 2.b.2.b.1.c.1 Is it clear who has access to the key? Also in case of a required data restore? Horizon 2020 DMP 🗸 a. No 2.b.2.b.2 Is it clear who has physical access to the archives? Horizon 2020 DMP



Will the data still be understandable and reusable after a long time?

Horizon 2020 DMP

See also all questions about keeping metadata and data formats. Make sure the metadata is kept close to the data in the archive, and that community supported data formats are used for all long term archiving.

■ Data Stewardship for Open Science: <u>zmu</u>

b. Yes

3

Will you be archiving your data in 'cold storage' after the project finishes?

Horizon 2020 DMP

Will you be storing (in cold storage) copies of your own data for a longer period after the project has ended? Possibly as a continuation of archival as part of data storage strategy during the project? Data archival is distinct from data publishing, an archive is usually strictly limited in who can access the data.

■ Data Stewardship for Open Science: <u>fxe</u>



4

Will any of the repositories you use charge you for their services?

Horizon 2020 DMP



4.b.1

How will you be paying for these services?

Horizon 2020 DMP

✓ d. We will pay for these costs by other means

4.b.1.d.1

How will you pay for these costs?

Horizon 2020 DMP

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5

Did you budget for the time and effort it will take to prepare the data for publication?

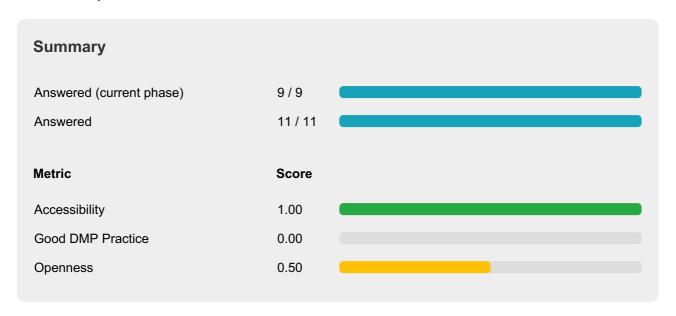
Horizon 2020 DMP



🗸 a. No

VII. Giving access to data

This chapter deals with the information needed by people who will re-use your data, and with the access conditions they will need to follow.



Questions

1

Will you be working with the philosophy 'as open as possible' for your data?

Horizon 2020 DMP

The FAIR principles do not contain any direction towards "Openness". This is done on purpose, because there can be compelling reasons not to make data "Open", such as privacy, other sensitive data, or intellectual property protection.

The true goal of funding agencies is to create the maximum value for society from their investments. They therefore often add "As open as possible, as closed as necessary" to the requirements for funding.

Data Stewardship for Open Science: <u>jvm</u>



2

Can all of your data become completely open over time?

Horizon 2020 DMP

Some data may be subject to a temporary embargo, or need to stay closed for specific reasons.

2.a.1

Are there legal reasons why (some of your) data can not be completely open?

Horizon 2020 DMP

✓ b. Yes

2.a.1.b.1

Are there privacy reasons why your data can not be open?

Horizon 2020 DMP

External Links: <u>RDMkit on Sensitive Data</u>

🗸 a. No

2.a.1.b.2

Are there IP reasons why your data can not be open?

Horizon 2020 DMP

✓ b. Yes

2.a.1.b.2.b.1

Is it clear who owns data and documents?

Horizon 2020 DMP

🗸 a. No

2.a.1.b.2.b.2

Will someone be given decision power to move documents or data to a new place after the project has finished?

Horizon 2020 DMP

In one case in the past, all documents that had been assembled by a project in a documentation system had to be deleted because not a single person could decide to move them to a new platform when the documentation system was going off-line.

b. Yes

2.a.2

Are there business reasons why (some of your) data can not be completely open?

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2.a.3

Are there other reasons why (some of your) data can not be completely open?

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c. Yes, other reasons

2.a.3.c.1

What other reasons are there not to open all data immediately?

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3

Will you use temporary restrictions on the reuse of the data (embargo)?

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✓ a. No, all data will be opened immediately