## Research Data Management - BRDM 2019 Course

Dear Participant,

To obtain information of participants' perceptions of the importance of research data management in the differenct phases of data lifecycle, and to obtain information of their current skills and competencies, we kindly ask you to answer the questions below.

We will use the participants' anonyme answers in teaching and developing the course, and as a part of research project on RDM. The anonyme data will be preserved in Finnish Social Science Data Archive for research, teaching and learning purposes.

Thank you for you participation in the survey!

1. Faculty
☐ Humanities
Education
Science and Engineering
Medicine
○ Law
School of Economics
Social Sciences
2. Study Programme
Health Sciences
Survey
Natural Sciences

Please indicate how important you believe it is for you to be knowledgeable in each of the competencies
listed below by the time you graduate. Please also tell how well do you think you'll manage the
competence now.

## **Discovery and Acquisition of Data**

Skills may include:

Locates and utilizes disciplinary data repositories or other external data sources. Evaluates the quality of the data available from external sources. Not only identifies appropriate external data sources, but also imports data and converts it when necessary, so it can be used locally.

3. Discovery and Acquisition of Data: Importance
O Not important
Somewhat Important
○ Important
O Very Important
○ Essential
☐ I don't know or NA
4. Discovery and Acquisition of Data: Competence
On't have competence
O Somewhat competence
Good competence
Very good competence
Ultimate competence

## **Databases and Data Formats**

Skills may include:

Understands the concept of relational databases, how to query those databases, and becomes familiar

5. Databases and Data Formats: Importance
O Not important
O Somewhat Important
○ Important
O Very Important
Essential
◯ I don"t know or NA
6. Databases and Data Formats: Competence
On't have
Somewhat
Good
○ Very good
Ultimate
Data Conversion and Interoperability
Skills may include: Is proficient in migrating data from one format to another. Understands the risks and potential loss or corruption of information caused by changing data formats. Understands the benefits of making data available in standard formats to facilitate downstream use.
7. Data Conversion and Interoperability: Importance
O Not important
Somewhat Important
☐ Important

with standard data formats and types for their discipline. Understands which formats and data types are

appropriate for different research questions.

Very Important
○ Essential
I don't know or NA
8. Data Conversion and Interoperability: Competence
Opon't have
Somewhat
Good
Very good
Ultimate
Data Management and Organization
Skills may include: Understands the lifecycle of data, develops data management plans, and keeps track of the relation of subsets or processed data to the original data sets. Creates standard operating procedures for data management and documentation.
9.
Data Management and Organization: Importance
Data Management and Organization: Importance  Not Important
Not Important
<ul><li>Not Important</li><li>Somewhat Important</li></ul>
<ul><li>Not Important</li><li>Somewhat Important</li><li>Important</li></ul>
<ul><li>Not Important</li><li>Somewhat Important</li><li>Important</li><li>Very Important</li></ul>
<ul><li>Not Important</li><li>Somewhat Important</li><li>Important</li><li>Very Important</li><li>Essential</li></ul>
<ul><li>Not Important</li><li>Somewhat Important</li><li>Important</li><li>Very Important</li><li>Essential</li></ul>

Somewhat
Good
○ Very good
Ultimate
Data Quality and Documentation
Skills may include: Recognizes, documents, and resolves any apparent artifacts, incompletion, or corruption of data sets. Utilizes metadata to facilitate an understanding of potential problems with data sets. Documents data sufficiently enough to enable the reproduction of the research results and the data by others. Tracks data provenance and clearly delineates and denotes versions of a data set.
11.  Data Quality and Documentation: Importance
O Not Important
O Somewhat Important
☐ Important
Overy Important
Essential
O I don't know or NA
12. Data Quality and Documentation: Competence
On't have
Somewhat
Good
Very good
Ultimate

Skills may include:		
Understands the rationale for metadata and proficiently annotates and describes data so it can be understood and used by self and others. Develops the ability to read and interpret metadata from external disciplinary sources. Understands the structure and purpose of ontologies in facilitating better sharing of data.		
Sharing of data.		
13.		
Metadata and Data Description: Importance		
Not Important		
O Somewhat Important		
☐ Important		
Very Important		
○ Essential		
I don't know or NA		
14. Metadata and Data Description: Competence		
On't have		
Somewhat		

## **Cultures of Practice**

Good

Very good

Ultimate

Skills may include:

Recognizes the practices, values, and norms of his/her chosen field, discipline, or subdiscipline as they relate to managing, sharing, curating, and preserving data. Recognizes relevant data standards of his/her field (metadata, quality, formatting, etc.) and understands how these standards are applied.

15.	
Cult	tures of Practice: Importance
$\bigcirc$	Not Important

Somewhat Important
☐ Important
Very Important
○ Essential
I don't know or NA
16. Cultures of Practice: Competence
On't have
Somewhat
Good
○ Very good
Ultimate
Ethics and Attribution
Skills may include:  Develops an understanding of intellectual property, privacy and confidentiality issues, and the ethos of the discipline when it comes to sharing and administering data. Acknowledges data from external sources appropriately. Avoids misleading or ambiguous representations when presenting data.
17. Ethics and Attribution: Importance
O Not Important
O Somewhat Important
☐ Important
Very Important
○ Essential
I don't know or NA

18. Ethics and Attribution: Competence
On't have
Somewhat
Good
○ Very good
Ultimate
Data Curation and Re-use
Skills may include: Recognizes that data may have value beyond the original purpose, to validate research, or for use by others. Is able to distinguish which elements of a data set are likely to have future value for self and for others. Understands that curating data is a complex, often costly endeavor that is nonetheless vital to community-driven e-research. Recognizes that data must be prepared for its eventual curation at its creation and throughout its lifecycle. Articulates the planning and activities needed to enable data curation, both generally and within his/her local practice. Understands how to cite data as well as how to make his/her data citable.
19.  Data Curation and Re-use: Importance
O Not Important
Somewhat Important
☐ Important
Very Important
Essential
I don't know or NA
20. Data Curation and Re-use: Competence
On't have
○ Somewhat
Good

Very good
Ultimate
Data Preservation
Skills may include: Recognizes the benefits and costs of data preservation. Understands the technology, resources, and organizational components of preserving data. Utilizes best practices in preparing data for its eventual preservation during its active lifecycle. Articulates the potential long term value of his/her data for him/herself or others and is able to determine an appropriate preservation timeframe. Understands the need to develop preservation policies and is able to identify the core elements of such policies.
21.  Data Preservation: Importance
O Not Important
O Somewhat Important
☐ Important
O Very Important
○ Essential
O I don't know or NA
22. Data Preservation: Competence
On't have
Somewhat
Good

Very good

Ultimate