



PROJECT DELIVERABLE REPORT

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TITLE	REPORT WITH THE AVAILABLE INFRASTRUCTURES
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WP LEADER	C. PRIAMI
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* Security: PU – Public; PP – Restricted to other programme participants (including JPI Services); RE – Restricted to a group specified by the consortium (including JPI Services); CO – Confidential, only for members of the consortium (including JPI Services)

** Type: R – Report; P – Prototype; D – Demonstrator; - O - Other



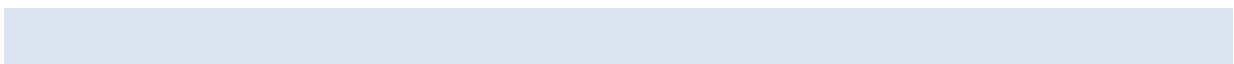
ENPADASI

European Nutrition Phenotype Assessment and Data Sharing Initiative

JOINT PROGRAMMING INITIATIVE – A HEALTHY DIET FOR A HEALTHY LIFE EUROPEAN NUTRITION PHENOTYPE ASSESSMENT AND DATA SHARING INITIATIVE

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INTRODUCTION

The purpose of work package 3 is to connect and further develop data infrastructures for enhancing data sharing and exchange for systems nutrition research in order to facilitate research and reuse of data. This work will result in an infrastructure that is scalable and sustainable over time. Therefore, the first action of this Work Package is to check which infrastructures are available that fit to the requirements of ENPADASI.

Task 3.1 has consolidated the mapping work of EuroDISH of available infrastructures for data sharing and investigated the available data resources available within and relevant to this consortium (e.g. the Phenotype database and tools from the Bioshare suite) this was done with input from WP2 task. 2.1. The goal of ENPADASI is to develop an infrastructure where all nutritional studies can be combined, therefore the different data resources will be integrated in one single infrastructure. The resulting system should be able to link out to other repositories (e.g. BBMRI) as relevant data for nutritional questions may be available from those repositories (task 3.5) and connected to relevant pipelines. It was identified that the resulting infrastructure should include:

- An atlas with the main features (input from WP 2 task 2.2) of each resource, access policies, where the data are collected, data representation and available pipelines
- The automated querying systems should recognize the access level of the study
- To make connections to other infrastructure possible the system should adhere (should plan to adhere) to FAIR standards
- Relevant for the design of the infrastructure will be the selection and management of metadata associated with molecular and clinical data in relation to nutrition research (e.g. Individual phenotype, geographic origin, diet, physiological or pathological state, etc.).

Based on those requirements an excel sheet as built in which relevant infrastructures were summarized (see excel file D3.1.1). Not all fields could currently be filled out as some details on the infrastructures were not easily findable. In addition, the ENPADASI may become aware of additional systems in the remaining period of the project. As we would like to have all relevant systems connected to the DASH-IN infrastructure and be as detailed as possible, we will update this deliverable at the end of 2016.

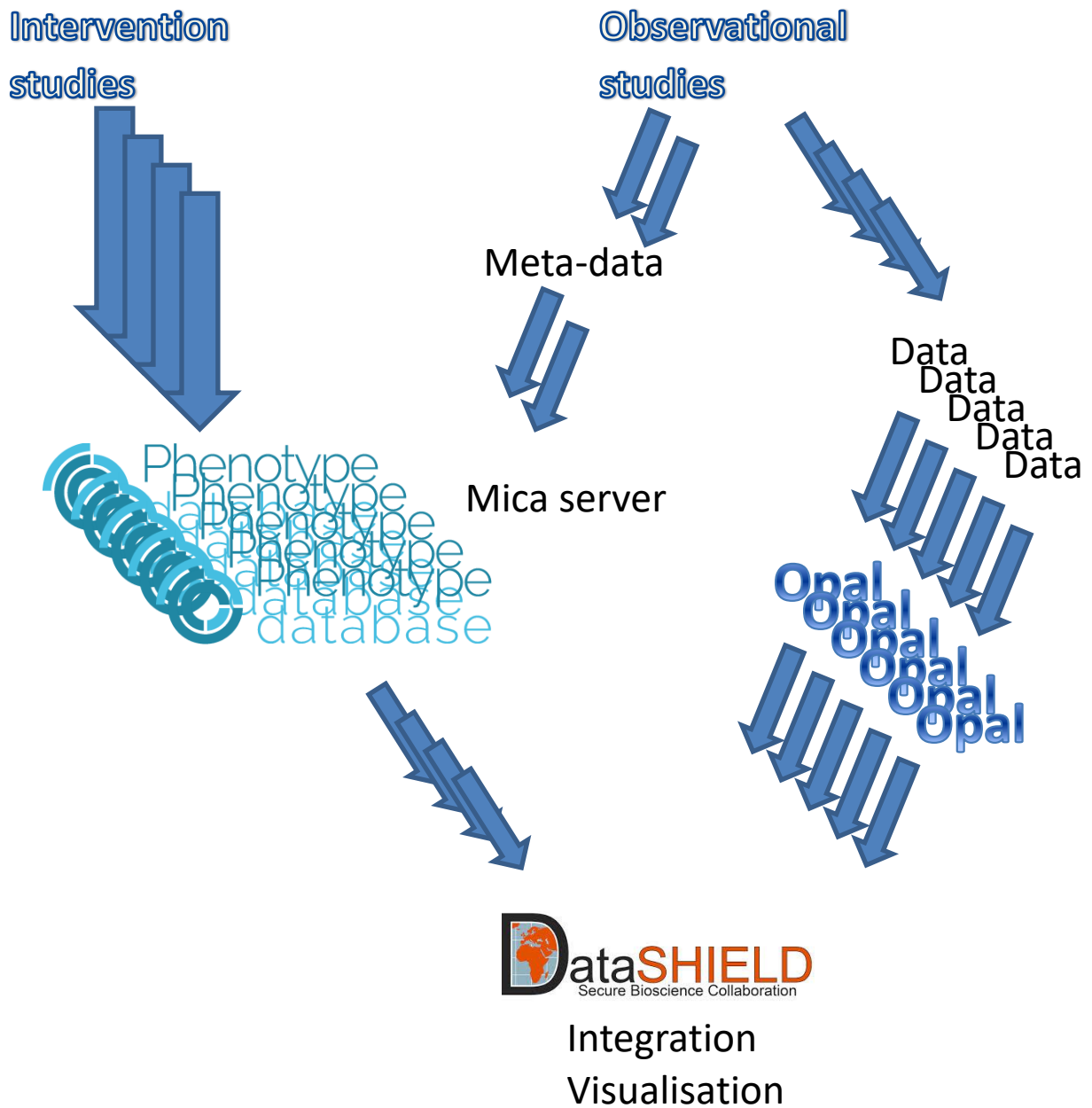
CONCLUSION

This task has made an overview of available infrastructures that can be used for sharing of data in the ENPADASI project. It was shown that the Phenotype database can be used for data sharing of intervention studies and observational studies that are anonymized and the opal/Datashield system for studies that are non-anonymized. These results can be used in task 3.1.2, that will define a technical requirement for the data sharing infrastructure.

AVAILABLE INFRASTRUCTURES

Figure 1 depicts the results from this mapping task, shown are the relevant infrastructures for ENPADASI, both for intervention studies and for observational studies (Deliverable 3.1.1).

Figure 1. Relevant infrastructures for ENPADASI





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ANNEX 1

See Excel named “D.3.1.1”