

A DMP template for Digital Humanities: the PARTHENOS model

Sheena Bassett, Sara Di Giorgio, Franco Niccolucci and Paola Ronzino

The PARTHENOS project empowers digital research in the fields of History, Language Studies, Cultural Heritage, Archaeology, and related fields across the (Digital) Humanities. PARTHENOS supports the work of relevant research infrastructures, such as CLARIN (language resources) and DARIAH (digital humanities), ARIADNE (digital archaeological research infrastructure), EHRI (European Holocaust research infrastructure), CENDARI (digital research infrastructure for historical research), CHARISMA and IPERION-CH (EU projects on heritage science), along with other relevant integrating activities projects, by building a cross-disciplinary virtual environment to enable researchers of the humanities to have access to data, tools and services based on common policies, guidelines and standards. As part of this work, one task is the implementation of a series of recommendations and guidelines based on FAIR Data Principles, targeted at researchers and research centres about which policies to apply during and after their research or infrastructure work.

Within this framework PARTHENOS has been working on a Data Management Plan (DMP) template which is based upon the Horizon 2020 template. Indeed since 2016, the Horizon 2020 Programme has produced Guidelines on FAIR Data Management to support Horizon 2020 beneficiaries in making their research data findable, accessible, interoperable and reusable (FAIR). Funded projects are requested to deliver an implementation of Data Management Plan (DMP) which aims to improve and maximise access to and reuse of research data generated by the projects. This is part of the Commission's policy actions on Open Science to reinforce the EU's political priority of fostering knowledge circulation. Open Science is in practice about 'sharing knowledge as early as practically possible in the discovery process' and because DMPs gather information about what data will be created and how, and outline the plans for sharing and preservation, specifying the nature of the data and any restrictions that may need to be applied, DMPs ensure that research data is secure and well-maintained during a project and beyond, when it might be shared with others.

A first draft of DMP has been presented in the 'Report on Guidelines for Common Policies Implementation', that gives an overview of existing policies concerning data management as well as policies regarding quality of data, metadata and repositories, IPR, open data and open access, presented according to FAIR Data Principles. The PARTHENOS DMP and Guidelines will support researchers to effectively share their data according to the FAIR Data Principles through publicly accessible, digital repositories.

The PARTHENOS DMP will offer a clear guidance to its stakeholders, mainly researchers and data repositories, to plan the life cycle of data. It will offer a long-term perspective by outlining how data will be generated, collected, documented, shared and preserved, taking into consideration commonalities and specific requirements of the disciplines involved in the project. The PARTHENOS DMP template comprises sections about data collection and documentation, ethics, legal and security issues, data storage and preservation, and data sharing and reuse.

The PARTHENOS DMP template provides a guidance to help researchers/data repositories for completing their data management plan and it is composed of two levels: a basic template that can be applied to all the disciplines in the humanities, as well as the closely related stakeholders: cultural heritage institutions, data archives and research infrastructures, and a domain level that contains more detailed questions where policies, specific standards and practices may vary according to the research area. Moreover, some of the questions will only apply to researchers or to data repositories. The PARTHENOS DMP template will also encourage researchers to follow common policies and use best practice for their data management.

The talk will present the methodology and the actions taken by the project to meet the diverse needs of the PARTHENOS communities which includes archaeologists, historians, linguists, librarians, archivists and social scientists to define the first version of the DMP and to assess it through gathering feedback regarding the clarity of the questions and the accompanying guidance. It will present also how the PARTHENOS DMP template will be made available as an online tool to support better researchers to freely access, mine, exploit, reproduce and disseminate their data and identify the tools needed to use the raw data for validating research results, or provide the tools themselves, a significant step towards to the realization of Open Science.

Visit the PARTHENOS web site (<https://www.parthenos-project.eu>) for more information and subscribe to the newsletter to keep up to date with developments.

REFERENCES

The Three Os – Open innovation, open science, open to the world - a vision for Europe, produced by the European Commission's Directorate-General for Research & Innovation, 2016-05-17, <https://publications.europa.eu/it/publication-detail/-/publication/3213b335-1cbc-11e6-ba9a-01aa75ed71a1>

Wilkinson, M. D. *et al.* The FAIR Guiding Principles for scientific data management and stewardship. *Sci. Data*3:160018 doi: 10.1038/sdata.2016.18 (2016)

Links to the FAIR principles (1), EU policy (2), (3) PARTHENOS web site, (4) DARIAH web site, (5) CLARIN web site, (6) ARIADNE web site, (7) EHRI web site, (8) CENDARI web site, (9) CHARISMA web site, (10) IPERION web site

(1) <https://www.force11.org/group/fairgroup/fairprinciples>

(2) H2020 Programme, Guidelines on FAIR Data Management in Horizon 2020 http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-pilot-guide_en.pdf

(3) <https://www.parthenos-project.eu>

(4) <http://www.dariah.eu/>

(5) <https://www.clarin.eu/>

(6) www.ariadne-infrastructure.eu

(7) <https://ehri-project.eu/>

(8) www.cendari.eu/

(9) www.charismaproject.eu/transnational-access.aspx

(10) <http://www.iperionch.eu/>