

D7.7- Data Management Plan

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HISTORY OF CHANGES

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03.03.2023	1.0	Luisa Bettili, with the contribute of WP leaders	First Issue



1 ABSTRACT

Within HORIZON-CL4-2021-SPACE-01-43 - Copernicus Security and Emergency Services evolution, the objective of CENTAUR is to respond to societal challenges deriving from Climate Change threats by developing and demonstrating new service components for the Copernicus Emergency Management Service (CEMS) and Copernicus Service in Support to EU External Action service (SEA), aiming to:

- Improve situational awareness and preparedness around climate change and its impact on complex emergencies and multi-dimensional (security) crises.
- Anticipate the occurrence and possible knock-on effects of crisis events, in particular those triggered by climatic extremes, thus contributing to resilience and effective adaptation. In the emergency domain, CENTAUR will address the flood-related threats to population, assets and infrastructures in urban areas. In the Security domain, CENTAUR will address water & food insecurity.

The two work streams will be connected via a cross-cutting component focusing on exposure and vulnerability to climate change, as well as resilience and societal capacity for managing environmental risks and social conflict. Across work streams, indicators and models will be validated by different methods.

CENTAUR will integrate data coming from multiple heterogeneous sources, with a specific focus on those generated by other Copernicus services, and, in particular, those of the Climate Change Service. It will combine these with meteorological data, socio-economic data, and data coming from new sensors (e.g. traditional and social media). Thus, it will enhance current capacities to produce composite risk indexes and to perform multi-criteria analyses in the emergency and security domains.

The present document describes the Data Management Plan (DMP) of CENTAUR project.

The Data Management Plan (DMP) is a deliverable required for all projects participating in the ORD Pilot (Open Research Data Pilot). In the previous work programmes, the ORD pilot included only some areas of Horizon 2020, now, under the revised version of the 2017 work programme, the Open Research Data pilot has been extended to cover all the thematic areas of Horizon 2020. It aims to encourage the data management following the principle "as open as possible, as closed as necessary".

"The ORD pilot aims to improve and maximise access to and re-use of research data generated by Horizon 2020 projects and takes into account the need to balance openness and protection of scientific information, commercialisation and Intellectual Property Rights (IPR), privacy concerns, security as well as data management and preservation questions" (from "Guidelines on FAIR Data Management in Horizon 2020").

The structure of the document follows the "Guidelines on FAIR Data Management in Horizon 2020", provided by the Directorate-General for Research & Innovation of the European Commission

https://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/open-access-data-management/data-management_en.htm

and related template

(https://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tpl-oa-data-mgt-plan_en.docx)

2 INTRODUCTION

The main goal of this document is to show how the research data of the project are **Findable, Accessible, Interoperable and Reusable (FAIR)**.

This deliverable describes the data management life cycle for the data to be collected, processed and/or generated by the project. It includes information on:

- the handling of research data during and after the end of the project.
- what type of data will be collected, processed and/or generated.
- which methodology and standards will be applied.
- whether data will be shared/made open access.
- how data will be curated and preserved (including after the end of the project).
- ethical aspects related to data protection issues are highlighted, providing links to the relevant deliverables for more information, as necessary.
- how data security issues will be assessed and minimised.
- what are the costs related to data management.

The DMP represents the document where all the details regarding data management are easily accessible to all the members of the consortium to ensure the FAIR principles.

The DMP is intended to be a living document and it will be updated over the course of the project whenever significant changes arise.

The CENTAUR DMP addresses the following issues:

- Data Summary
- FAIR data:
 - Making data findable, including provisions for metadata.
 - Making data openly accessible.
 - Making data interoperable.
 - Increase data re-use.
- Allocation of resources
- Data security
- Ethical aspects
- Other issues

In particular, this deliverable comprises the following:

Chapter 3, including a description of the methodology used in the context of CENTAUR.

Chapter 4 including the description of the DMP components; information related to the Data Summary and to the Fair Data are divided into the WPs involving the collection or production of data.

2.1 DEFINITIONS, ABBREVIATIONS AND ACRONYMS

Table 1: Definitions, Abbreviations and Acronyms

Abbreviation/acronym	Definition
AB	Advisory Board
CB	Consortium Board
CEMS RM	Copernicus Emergency Management Service Rapid Mapping
DMP	Data Management Plan
DoA	Description of Actions
EC	European Commission
ECMWF	European Centre for Medium-Range Weather Forecasts
EO	Earth Observation
EU	European Union
FAIR	Findable, Accessible, Interoperable and Reusable
H2020	EU Research and Innovation funding programme 2014-2020
KPI	Key Performance Indicators
ORDP	Open Research Data Pilot
PMP	Project Management Plan
QA	Quality Assurance
SC	Steering Committee
SEA	Copernicus Service in Support to EU External Access
(V) HR	(Very) High Resolution
WPL	Work Package Leader
TL	Task Leader

2.2 APPLICABLE AND REFERENCE DOCUMENTS

ID	Document name
[AD1]	CENTAUR - 101082720 – Grant Agreement
[AD3]	HORIZON-CL4-2021-SPACE-01 - Strategic Autonomy in Developing, Deploying and Using Global Space-based Infrastructures, Services, Application and Data 2021, available at: https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/horizon-cl4-2021-space-01-12
[AD4]	Guidelines on FAIR Data Management in Horizon 2020 https://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/open-access-data-management/data-management_en.htm

[RD1]	Copernicus Service in Support to EU External Action: https://sea.security.copernicus.eu/
[RD2]	Copernicus Emergency Mapping Service – Rapid Mapping: https://emergency.copernicus.eu/mapping/copernicus-emergency-management-service#zoom=2&lat=17.44093&lon=29.71939&layers=0BT00
[RD3]	Copernicus Climate Change https://climate.copernicus.eu/
[RD4]	Copernicus Flood Services (EFAS/GloFas) https://www.efas.eu/en https://www.globalfloods.eu/

3 METHODOLOGY

The methodological approach used to compile the D7.7 - Data Management Plan was based on the updated version of the “Guidelines on FAIR Data Management in Horizon 2020” by the European Commission Directorate – General for Research & Innovation [AD4].

The following principles will be at the core of the data management policy:

- European Data Privacy and Protection Policy (EU General Data Protection Regulation – GDPR)¹ will be applied strictly regarding personal data. This means that the following private-by-design principles will be applied:
 - Only data strictly necessary for the service provision will be stored.
 - Users will have the right to alter or remove their personal data from the system at all times.
 - Data will be anonymised at the end of the project unless specifically requested by the users.
 - A controller and Data Protection Officer will be appointed for each consortium partner.
- Definition of Areas of Interest (AoI) and generation of foreground data (generated after applying processing methods) in the frame of the Water and Food Insecurity Use Cases and related to the evolution of the Copernicus SEA service will be for demonstration purposes only and covering non-EU territory. Access and distribution of such data will be analysed and defined on a case by case basis by SatCen.
- The access and use of Copernicus Service Information is regulated under Regulation (EU) No 377/2014 and Commission Delegated Regulation (EU) No 1159/2013. In particular, the law provides that users shall have a free, full and open access to Copernicus Service Information without any express or implied warranty, including as regards quality and suitability for any purpose. Restrictions each Copernicus EMS services will be followed, particularly:
 - Within the Copernicus EMS Mapping products [RD2], security conditions outside EU (sensitive activation, sensitive information content within service products, preventing misuse of products).
 - Within CEMS EFAS & GloFAS [RD4], context, whether data used and distributed, the recipients of the source of data will and information will be informed with similar notice: 'Generated using Copernicus Emergency Management Service information [Year]'.
- Personal Data related to the members of the Advisory Board:
 - Name and contact details of the members of the Advisory Board members will be stored in a database in order to contact and invite them to the CENTAUR events, surveys and workshops that will be organised, to distribute documentation generated during the project activities and receive feedback from them.

The present deliverable will be updated if new data sets not foreseen are required or if the processing of the data involves substantial changes from the guidelines contained in the present deliverable.

¹ The European Union Satellite Centre (SatCen) processes the personal data of a natural person in compliance with Regulation (EU) 2018/1725 on the protection of natural persons with regard to the processing of personal data by the Union institutions, bodies, offices and agencies and on the free movement of such data, and repealing Regulation (EC) No 45/2001 and Decision No 1247/2002/EC.

All research data are and will be stored and shared among the partners of the CENTAUR Consortium, using an online collaborative tool (Sharepoint). The platform enables full access to registered users (who are employees of the partners of the Consortium).

Public data generated by CENTAUR will be made available free of charge in the project website.



4 DMP COMPONENTS IN CENTAUR

4.1 WP1 – ANALYSIS OF REQUIREMENTS AND USE CASES DEFINITION

4.1.1 DATA SUMMARY

Data types, collection and generation	
Purpose of the data collection/generation and its relation to the objectives of the project.	<p>The purpose of the data collection is related to the consultation, steering and engagement activities with the end-users and Advisory Board of the project and will be exclusively used in this context, in particular:</p> <ul style="list-style-type: none"> ➤ collecting user requirements on the design of products and services in the frame of the project. ➤ requesting feedback and advices related to strategic and product-oriented decisions within the project. ➤ communicating important information related to the user consultation process progress of the project and provide documentation. ➤ processing data for statistical and management purposes. ➤ inviting end-users and advisory board members to meetings and events (e.g. workshops, demonstrators).
Types and formats of data that the project will generate/collect.	<p>Data consist in four types of records:</p> <ul style="list-style-type: none"> ➤ Personal data containing contact information of the main PoC per organisation: <ul style="list-style-type: none"> ○ Complete name ○ Email ○ Phone number ○ Organisation ○ Group / Area / Division ○ Country <p>In addition, some optional data may be collected or in case a secondary PoC is identified within the organisation: Name, Surname, Position within the organisation, Location / Address, e-mail and Phone (Point of Contact).</p> ➤ Questionnaire and survey results, containing technical details about the user's infrastructure, operational procedures and requirements towards the CENTAUR solution. ➤ Meeting and event minutes, reporting about the main conclusions and interventions of the participants.

	➤ Issues Registry, containing a list of prioritised advices, change requests and issues expressed by the advisory board members, while revising CENTAUR documentation or participating to meetings/events.
Data origin	<p>Personal data will be provided by the end-users/advisory board members themselves.</p> <p>Questionnaire and survey results will be generated by the AB reference partners based on the discussions/feedback from the end-users/advisory board members.</p> <p>Meeting/event minutes will be produced by the each WP/Task leader and distributed among the list of participants for their final revision.</p>
Expected data size	The size of data will be in the range of few megabytes.
Existing data	
Existing data re-usage and how	<p>Name and contact details of the Advisory Board members will be stored in a secured database, password protected, in order to contact and invite them to the CENTAUR events, surveys and workshops that will be organised, to distribute documentation generated during the project activities and receive feedback from them.</p> <p>The results of questionnaires and surveys and the issues registry will be pseudonymised, meaning that those registries will be separated from any information from which the identity may be determined.</p> <p>Personal data managed in the frame of WP1 will be retained by the data controller during the lifecycle of the project (initially for a period of 3 years, unless the project's lifecycle is extended, in which case would be the end of the extension period agreed with the European Commission) and for 1-year period after its completion.</p> <p>The appropriate safeguards (technical and organizational measures) will be implemented to prevent any unauthorised access, loss, destruction, transfer of the personal information.</p>
Data utility	
To whom it might be useful	Contact information about the end-user and advisory board members will be accessed and managed according to the European Data Privacy Policy. However, all data types mentioned will be shared internally with the rest of partners on a need to know basis, but will not be publicly available.

4.1.2 FAIR DATA

N.A.

4.2 WP2 – THEMATIC PRODUCT ENGINEERING

4.2.1 DATA SUMMARY

Data types, collection and generation	
Purpose of the data collection/generation and its relation to the objectives of the project	Assessment of the available Copernicus EMS and SEA products and evaluation of the current available EO data and non-EO data, as well as a view to those planned to be available in the future. Developing the list of new products that will be part of the CENTAUR services, based on the evaluation of the available products and the user requirements.
Types and formats of data that the project will generate/collect	Collected and generated data are reports in text formats.
Origin of the data	Scientific papers, Technical documentation and reference websites. Requirements and service concepts outlined in WP1.
Expected size of the data	The size of the data will be in the range of gigabytes
Existing data	
Existing data re-usage and how	Data collected and generated will contribute to the deliverables outlined within WP2 (development of services pipelines, WP3 (platform design and development for results visualisation), WP4 (services demonstration among stakeholders) and WP5 (transition from a prototypal level to an initial operational level of CENTAUR into the Copernicus EMS and SEA Security operational service).
Data utility	
To whom it may be useful	End-users and CENTAUR project consortium, i.e. the development of products in WP3-WP5.

4.2.2 FAIR DATA

N.A.

4.3 WP3 – SERVICE DEPLOYMENT

4.3.1 DATA SUMMARY

Data types, collection and generation	
Purpose of the data collection/generation and its relation to the objectives of the project	<p>Data collection in WP2 is performed to setup the platform that will provide the final information services to the end-user.</p> <p>No user information will be stored in the platform, only demo users will be created during.</p> <p>Logs of the activities will be related to the demonstration agreed with the end-users and there will be no private data involved. Logs will be maintained protected and will not be shared. Logs will be maintained only for the purpose of the project and will be deleted periodically.</p>
Types and formats of data generated/collected by the project	<p>Data expected to be used within WP3 will be decided once the data collection in WP2 is established. The preliminary list, to be integrated during the project development, is the following:</p> <ul style="list-style-type: none"> ➤ EO data, coming from Copernicus Services and Commercial EO data ➤ Topographic data ➤ Socio-economic data ➤ Demographic data ➤ Meteorological data ➤ Agricultural data <ul style="list-style-type: none"> ○ LAI ○ FAPAR ○ FCOVER ○ NDVI ○ Thermal ○ etc <p>Products released within CEMS Rapid Mapping, Risk and Recovery and SEA services</p>
Origin of the data	The origin of the data will be established on the interaction with WP1 and WP2, when the use cases are defined.
Expected size of the data	The amount of data will depend on data collection in WP2 and the scope of use cases identified as Demonstrator scenarios.
Existing data	
Existing data re-usage and how	This information will depend on the data collection in WP2
Data utility	
To whom it may be useful	Data will be used by the platform to generate information for the users of the project.

4.3.2 FAIR DATA

Data Findability	
Are the data produced and/or used in the project discoverable with metadata, identifiable and locatable by means of a standard identification mechanism (e.g. persistent and unique identifiers such as Digital Object Identifiers)?	The data available in this WP are produced and selected by WP1 and WP2, a subset of this data will be agreed to be available in the platform.
Naming conventions followed	Regarding source data (ex. Copernicus satellite data), the principle is to maintain the information of the original naming if available. Regarding produced data, WP1 and WP2 will be delivering the data and the naming conventions are imposed in this WP3
Keywords provisioning to optimise possibilities for the re-usage	Data will be searchable by keywords related to the country in scope of the analysis and perhaps topic/indicators.
Clear version of numbers provided	It is not decided yet.

Data Accessibility	
Which data produced and/or used in the project will be made openly available as the default? If certain datasets cannot be shared (or need to be shared under restrictions), explain why, clearly separating legal and contractual reasons from voluntary restrictions (Note that in multi-beneficiary projects it is also possible for specific beneficiaries to keep their data closed if relevant provisions are made in the consortium agreement and are in line with the reasons for opting out)	The project involves security aspects which must be preserved (e.g. geographical location of areas of interests), so, during the course of the project, it will be decided which data can be shared. Anyway, some information hosted in the platform can have a restricted access implemented. In particular: <ul style="list-style-type: none"> Commercial data will be acquired for the sole purpose of the project and will not be made available Sensitive information will be kept private to project members as required by end-users
How will the data be made accessible (e.g. by deposition in a repository)?	To be decided throughout the project activities
What methods or software tools are needed to access the data?	Software will be defined throughout the project activities
Is documentation about the software needed to access the data included?	As above
Is it possible to include the relevant software (e.g. in open source code)?	As above

Where will the data and associated metadata, documentation and code be deposited? Preference should be given to certified repositories which support open access where possible.	The project code and documentation created within the project regarding the platform will be maintained in the internal project code repository based on GITLAB (https://about.gitlab.com/).
Have you explored appropriate arrangements with the identified repository?	The project will deal with open data and commercial data. The former will be also referenced in the project and accessible openly, the latter will be maintained for the project purpose but not available openly. During WP1 and WP2 the generated/derived products will be defined, it is an early state to identify the repository.
If there are restrictions on use, how will access be provided?	Access will be restricted according to end-users requirements on sensitive information contained in the platform.
Is there a need for a data access committee?	No
Are there well described conditions for access (i.e. a machine-readable license)?	All data licenses will be listed on the platform.
How will the identity of the person accessing the data be ascertained?	By using a personal user and password access.

Data Interoperability

Are the data produced in the project interoperable, that is allowing data exchange and re-use between researchers, institutions, organisations, countries, etc. (i.e. adhering to standards for formats, as much as possible compliant with available (open) software applications, and in particular facilitating re-combinations with different datasets from different origins)?	Data is not yet decided where will be allocated, in future phases of the project this will be clarified.
What data and metadata vocabularies, standards or methodologies will you follow to make your data interoperable?	Data is generated in WP1 and WP2, WP3 will be aligned with their output.
Will you be using standard vocabularies for all data types present in your data set, to allow inter-disciplinary interoperability?	Data is generated in WP1 and WP2, WP3 will be aligned with their output.

In case it is unavoidable that you use uncommon or generate project specific ontologies or vocabularies, will you provide mappings to more commonly used ontologies?	Yes
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Data Re-usability	
<ul style="list-style-type: none"> How will the data be licensed to permit the widest re-use possible? 	Generated data will be openly available if there is no need to restrict access due to sensitiveness of the information.
When will the data be made available for re-use? If an embargo is sought to give time to publish or seek patents, specify why and how long this will apply, bearing in mind that research data should be made available as soon as possible.	Data will be made available as soon as the platform is available in its final and stable version
Are the data produced and/or used in the project useable by third parties, in particular after the end of the project? If the re-use of some data is restricted, explain why	<p>The project involves security aspects which must be preserved (e.g. geographical location of areas of interests), so, during the course of the project, it will be decided which data can be shared. Anyway, some information hosted in the platform can have a restricted access implemented. In particular:</p> <ul style="list-style-type: none"> Commercial data (e.g. AIS, Satellite) will be acquired for the sole purpose of the project and will not be made available <p>Sensitive information will be kept private to project members as required by end-users</p>
How long is it intended that the data remains re-usable?	During the course of the project, the platform and the services, that will be included, will be available
Are data quality assurance processes described?	The data is produced in WP1 and WP2, referred to section 4.1, 4.2.

4.4 WP4 - CLIMATE CHANGE CRISIS AND NATURAL DISASTER DEMONSTRATORS

4.4.1 DATA SUMMARY

Data types, collection and generation	
Purpose of the data collection/generation and its relation to the objectives of the project	<p>Demonstrations will consist in running CENTAUR's system over cases selected on the basis of users needs and data availability, in particular:</p> <ul style="list-style-type: none"> ➤ Cold cases: i.e. well documented crisis situations in the past used to calibrate CENTAUR models and validate developed indexes and indicators. ➤ Hot spots cases: i.e. areas where EMS or SEA relevant situation are very likely to occur during the project's lifetime. Those hot cases are used to assess the effectiveness of CENTAUR services in a life situation and allow to run them in pre-operational mode.
Types and formats of data that the project will generate/collect	<p>Data inputs collected:</p> <ul style="list-style-type: none"> • EO data: VHR SAR (e.g. Sentinel-1, COSMO-SkyMed), VHR and HR Optical (Sentinel-2), MR and LR Optical. • Non-EO data: Databases with training datasets, E, DEM, auxiliary vector data, demographic and socio-economic data <p>Data outputs generated: EO based products (Raster and vector formats), metadata, symbology files, text reports (as well as questionnaires completed by technical partners, advisory board at the end of each demonstrator), tabular data and DB, geopdf.</p> <p>Questionnaires will be stored online (sharepoint or other interface) and could be pseudonymised if needed.</p>
Origin of the data	<p>Data inputs collected:</p> <ul style="list-style-type: none"> • EO data: Copernicus Services, Commercial vendors • Non-EO data: Copernicus Services, Commercial vendors, Research centres, other open source and crowdsourcing data

	Data outputs generated: Developed by CENTAUR partners
Expected size of the data	Several TeraBytes
Existing data	
Re-use of existing data and how	Use of any existing products needed for the project. Details of data re-use shall be contained in the CENTAUR products processing chains described in Deliverables of WP3) (Processing chains development/customisation document
Data utility	
To whom it might be useful	Useful for CENTAUR target end users in the demonstration/validation stage. The validation of products and the service demonstration using the data needed will be useful for the users and the partners of the project. . Moreover the questionnaires collected at the end of the demonstrators will be useful for the technical partners to continuously improve the service and products.

4.4.2 FAIR DATA

N.A.

4.5 WP5 - ANALYSIS OF THE INTEGRATION IN THE OPERATIONAL SET UP OF COPERNICUS EMS AND SEA, IMPACT AND FURTHER EXPLOITATION

Data types, collection and generation	
Purpose of the data collection/generation and its relation to the objectives of the project	<p>CENTAUR Service Model will be part of the more general CEMS and SEA Service Operational Model, in particular the proactive products and services generated in:</p> <ul style="list-style-type: none"> - Level 1. Continuous monitoring at multinational level. Integration of space and non-space data sources to trigger alarms for the region when certain conditions are met. - Level 2. Event driven at regional level. EO and non-EO data is processed on specific locations provided by the user.
Types and formats of data that the project will generate/collect	The data consist in 3 types of records,

	<p>Available data and products:</p> <ul style="list-style-type: none"> - Open EO data, coming from Copernicus missions like Sentinel-1,2,3,5. - Commercial EO data derived from satellite missions as (COSMO-SkyMed, VHR/HR SAR and Optical sensors) according to their availability in ESA DWH. - Topographic data - Socio-economic data - Demographic data - Meteorological data - Agricultural data <p>Customised available Copernicus EMS Rapid Mapping, Risk&Recovery and SEA data and products.</p> <p>New products designed under CENTAUR.</p>
Origin of the data	Most of the data will be provided by Copernicus Sentinel missions, the Copernicus Services and other open source products and services.
Expected size of the data	The size of the data will be in the range of a few terabytes.
Existing data	
Re-use of existing data and how	Data will be re-used by the operational service of the Copernicus EMS and SEA Services
Data utility	
To whom it might be useful	Data will be used by the Copernicus EMS and SEA Services to generate proactive information for its users.

4.5.1 FAIR DATA

N.A.

4.6 WP6 – COMMUNICATION, DISSEMINATION AND OUTREACH & WP7 – PROJECT MANAGEMENT

4.6.1 DATA SUMMARY

Data types, collection and generation	
Purpose of the data collection/generation and its relation to the objectives of the project	<p>The list of Consortium members representatives.</p> <p>List of:</p> <ul style="list-style-type: none"> ➤ Stakeholders, ➤ Research and academic community, ➤ Copernicus EMS RM & RRM, and SEA User Community, ➤ General audience <p>Data required to contact and invite them to the CENTAUR events, surveys and workshops that will be organised, to distribute newsletters and documentation generated and receive their feedback during the lifetime of the project.</p>
Types and formats of data that the project will generate/collect	<p>The data consist in records containing the following personal information:</p> <ul style="list-style-type: none"> ➤ Name ➤ Email address ➤ Organisation they represent
Origin of the data	Each member of the consortium has suggested its representatives in the Project, while the stakeholders are analyzed and ranked according to their relevance.
Expected size of the data	The size of the data will be in the range of a few kilobytes
Existing data	
Re-use of existing data and how	Data will be generated inside the project. Name and contact details of the above listed people will be stored in a database in order to contact and invite them to the CENTAUR events, surveys and workshops that will be organised, to distribute documentation generated during the project activities and receive feedback from them.
Data utility	
To whom it might be useful	Data will not be publicly available.

4.6.2 FAIR DATA

N.A.

4.7 ALLOCATION AND RESOURCES

Costs related to data management	
What are the costs for making data FAIR in your project?	Most of the FAIR Data Principles are already taken into account. Further evaluation will be made on the basis of the final data ensemble.
How will these be covered? Note that costs related to open access to research data are eligible as part of the Horizon 2020 grant (if compliant with the Grant Agreement conditions)	Data will be stored in a collaborative platform for Consortium use and re-use and on the CENTAUR website, for public data. Cost for storage and management are included in the project budget to cover the period of usage within the project lifecycle.
Are the resources for long term preservation discussed (costs and potential value, who decides and how what data will be kept and for how long)?	No rolling archive policies have been put in place. Nevertheless, it is allowed the administrator to backup and put offline old data in any moment, if needed.
Data management responsible	
Who will be responsible for the data management in your project?	Each WP leader will be responsible for the data involved in related WP. The Project Coordinator will monitor the proper data management throughout the entire project

4.8 DATA SECURITY

Data security	
What provisions are in place for data security (including data recovery as well as secure storage and transfer of sensitive data)?	The Database will be stored in a collaborative platform and on the CENTAUR website both ensuring high data security and reliability.
Is the data safely stored in certified repositories for long term preservation and curation?	No. See also Data "Re-usability".

4.9 ETHICAL ASPECTS

The only data set that has a potential ethical aspect to consider is the database of the members of the advisory board used in activities related to WP6 and WP7.

Ethical aspects	
Are there any ethical or legal issues that can have an impact on data sharing? If relevant, include references to ethics deliverables and ethics chapter in the Description of the Action (DoA).	Only personal data protection issues.
Is informed consent for data sharing and long term preservation included in questionnaires dealing with personal data?	Yes. The informed consent form is in preparation.



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