

# Data Management Plan (1) Project Management

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#### **Executive summary**

This deliverable aims to collect information about the data sources that the DIANA project consortium will work with. More specifically, for each work package the partners have to define the data sources they will use and create a Data Management Plan (DMP). The DMP includes a description of data management life cycle for all data sets and specifies which data will be findable, openly accessible, interoperable and re-usable. It also includes information about legal issues, privacy and maintenance. The DMP is a live document and it will be regularly updated as more information becomes available and data issues are resolved.

The deliverable is structured in the following chapters:

- Chapter 1 includes a description of the methodology used
- Chapter 2 includes the description of the DMP Components

## Methodology

This document, D7.2 – Data Management Plan (1) is a deliverable of the DIANA project, which is funded by the European Union's Horizon 2020 Programme under Grant Agreement 730109. DIANA is aimed at co-designing and openly demonstrating a commercial service platform that will empower water managers and authorities to optimize the identification and inspection of non-authorised water abstractions for irrigation as well as improve their water management policies and practices, especially in extreme conditions such as drought. The scope of the project is to be co-created and defined along with the users and stakeholders so as to be shaped according to their needs and requirements.

In this deliverable the DIANA consortium presents information about the data that will be collected and generated in the context of the project. The DMP has been based on the updated version of the "Guidelines on FAIR Data Management in Horizon 2020"<sup>1</sup> version 3.0 released on 26<sup>th</sup> of July 2016 by the European Commission Directorate – General for Research & Innovation. The DIANA DMP addresses the following issues:

- Data Summary
- FAIR data
- Allocation of resources
- Data security
- Ethical aspects
- Other issues

#### Why is a Data Management Plan needed?

The DMP is an essential document for the DIANA project that addresses issues related to data management. By creating an earlier plan for managing data at the beginning of the project, will save to the consortium time and effort later on. Furthermore, the DMP helps clarify at an early stage individual and collaborative roles and responsibilities and elaborates reviewers by demonstrating whether the consortium has carefully considered how data quality, security, confidentiality and sharing will be managed.

<sup>&</sup>lt;sup>1</sup> European Commission, (26 July 2016), Guidelines on FAIR Data Management in Horizon 2020, Version 3.0



#### Who is responsible for the implementation of DMP?

The DMP is formulated by AGRO APPS from the early stages of the project addressing crucial management aspects of the data that will be collected/generated in the course of DIANA. AGRO APPS has provided on time all the work package leaders and rest of the partners with a template that includes all the issues that the DMP addresses along with instructions to fill the template.

#### What kind of data will be affected by DMP?

Early in the project, the consortium will identify the related sets of data that will be utilised during the project lifetime. This includes: i) key data required for the provision of DIANA services such as satellite, EO meteorological and auxiliary data from various sources as well as several other data to be collected and utilised throughout the project such as ii) data gathered through the interview-based survey of the project aimed at revealing the needs and requirements of DIANA users and stakeholders, iii) data collected during the pilots of the project necessary for the co-evaluation and validation of the services and business cases, etc.

According to the "Guidelines on FAIR Data Management in Horizon 2020" the DMP applies to the following types of data:

- Making data findable, including provisions for metadata
- Making data openly accessible
- Making data interoperable
- Increase data re-use

The DMP addresses the existing suitable standards including several open standards that are currently available and can be applied in the framework of DIANA, such as the EU Directive 2007/2/EC on Infrastructure for Spatial Information in the European Community (INSPIRE) which addresses spatial data themes required for environmental applications<sup>2</sup>. Moreover, there are various disciplinary metadata standards<sup>3</sup>, however the DIANA consortium has identified a number of available best practices and guidelines for working with Open Data, mostly by organisations or institutions that support and promote Open Data initiatives, and will be taken into account. These include:

http://www.dcc.ac.uk/resources/metadata-standards





<sup>2</sup> http://inspire.jrc.ec.europa.eu/

- Open Data Foundation<sup>4</sup>
- Open Knowledge Foundation<sup>5</sup>
- Open Government Standards<sup>6</sup>.

For datasets that do not have standards, the consortium will provide metadata to help secondary users understand and reuse them.

Due to the DIANA products and services are principally intended for commercial use, the DMP addresses the open data licenses for any interested party following a certain "embargo period". After this "embargo period" open access and data sharing for verification and re-use will be possible through a suitable repository.

### **DMP Components in DIANA**

#### DMP Components in WP1 – Analysis and co-creation

DMP Component	Issues to be addressed
	The purpose of the data collection is to identify and
	analyse the requirements of DIANA users and
	stakeholders of the co-creation process of DIANA tools.
	The development and the evaluation is one of the
	central objectives of the project.
	The following data formats will be produced:
	<ul> <li>Excel database of extended stakeholder</li> </ul>
Data Summary	mapping results;
	<ul> <li>Audio and video documentation of some</li> </ul>
	events (2-3 files per pilot area).
	Data will be collected from events (mostly during
	meetings, but also online) of interaction with
	stakeholders. The data will be used in the ongoing multi-
	actor stakeholder process and will be confidential, to
	remain within each pilot area stakeholder community

<sup>4</sup> http://www.opendatafoundation.org/

<sup>6</sup> http://www.opengovstandards.org/





<sup>5</sup> https://okfn.org/

	(with sharing to be provided only with the consensus by	
	the information providers, i.e. each stakeholder).	
Making data findable, including provisions	N/A (Confidential Data)	
for metadata	N/A (Communitian Data)	
Making data openly accessible	N/A (Confidential Data)	
Making data interoperable	N/A (Confidential Data)	
Increase data re-use	N/A (Confidential Data)	
Allocation of resources	N/A (Confidential Data)	
Data security	N/A (Confidential Data)	
Ethical aspects	N/A (Confidential Data)	
Other issues	N/A (Confidential Data)	

# DMP Components in WP2 – Earth observation data products and services

- Seasonal drought forecasting and monitoring, by using seasonal climate forecast in combination with hydrological models, a six month ahead drought forecast will be provided to the users for their region of interest. This forecast can be used as input to update existing regional or local drought management plans enabling the authorities to take the needed actions in order to cope with the phenomena.
- Support to the implementation and monitoring of the WFD, for long-term sustainable water management.

The data which will be collected and generated in the WP2 will cover the needs to implement and test the DIANA solutions in all the pilots located in Italy, Spain and Romania.

The products will be used in WP3 which is in charge of providing this information to final users.

Data will be available in raster and vector format, accessible through GeoServer application, Map server application, PostGIS database and FTP.

The origin of the data for WP2, will be from:

- Copernicus Scientific Hub per Sentinel Data, (https://scihub.copernicus.eu/dhus/#/home
- USGS Landsat for data, (https://earthexplorer.usgs.gov/);
- GFS forecasts and analyses data (ftp://ftpprd.ncep.noaa.gov/pub/data/nccf/ com/gfs/prod/)
- **MODIS** 16-day vegetation product (https://lpdaac.usgs.gov/dataset\_discovery\_ /modis/modis products table/mod13a1)





© CFS seasonal climate forecasts (thp://ftpprd.ncep.noaa.gov/pub/data/nccf/com/cfs/prod/)  © ERA-Interim Reanalysis data (http://apps.ecmwf.int/datasets/data/interim-full-daily/levtype=sfc/)  © EOCD, a data service platform implemented by the University of Natural Resources and Life Science (BOKU) which provides access to individual Sentinel-2 granules (orthorectified image tiles of 100 by 100 km² in UTM/WGS84 projection). The service runs on the Earth observation Data Centre (EODC), which is a collaborative IT infrastructure for archiving, processing, and distributing Earth observation (EO) data. To use this service, which provides added value products, it will be necessary to have an agreement with BOKU University.  Sentinel-2 data are about 4 GB each, while Landsat around 1 GB each, both compressed. Assuming 3 pilot cases, and a need to have at least two more images per month on a yearly basis, this accounts for over 2 TB of image data. Indices and classification products will account for an additional 20%, hence a total of 2.4 TB of data is foreseen to be generated.  Data and products will be useful for the Water User Association, Reclamation and Irrigation Consortia, Paying Agencies, Regional and National Government. They will be ingested by the DIANA platform and disseminated to project stakeholders, while their usefulness will be demonstrated during the pilot cases.  Making data findable, including provisions for metadata		A 070
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account for an additional 20%, hence a total of 2.4 TB of data is foreseen to be generated.  Data and products will be useful for the Water User Association, Reclamation and Irrigation Consortia, Paying Agencies, Regional and National Government. They will be ingested by the DIANA platform and disseminated to project stakeholders, while their usefulness will be demonstrated during the pilot cases.  Making data findable, including provisions  N/A		month on a yearly basis, this accounts for over 2 TB of
of data is foreseen to be generated.  Data and products will be useful for the Water User Association, Reclamation and Irrigation Consortia, Paying Agencies, Regional and National Government. They will be ingested by the DIANA platform and disseminated to project stakeholders, while their usefulness will be demonstrated during the pilot cases.  Making data findable, including provisions  N/A		image data. Indices and classification products will
Data and products will be useful for the Water User Association, Reclamation and Irrigation Consortia, Paying Agencies, Regional and National Government. They will be ingested by the DIANA platform and disseminated to project stakeholders, while their usefulness will be demonstrated during the pilot cases.  Making data findable, including provisions  N/A		account for an additional 20%, hence a total of 2.4 TB
Association, Reclamation and Irrigation Consortia, Paying Agencies, Regional and National Government. They will be ingested by the DIANA platform and disseminated to project stakeholders, while their usefulness will be demonstrated during the pilot cases.  Making data findable, including provisions  N/A		of data is foreseen to be generated.
Paying Agencies, Regional and National Government.  They will be ingested by the DIANA platform and disseminated to project stakeholders, while their usefulness will be demonstrated during the pilot cases.  Making data findable, including provisions  N/A		Data and products will be useful for the Water User
They will be ingested by the DIANA platform and disseminated to project stakeholders, while their usefulness will be demonstrated during the pilot cases.  Making data findable, including provisions  N/A		Association, Reclamation and Irrigation Consortia,
disseminated to project stakeholders, while their usefulness will be demonstrated during the pilot cases.  Making data findable, including provisions  N/A		Paying Agencies, Regional and National Government.
usefulness will be demonstrated during the pilot cases.  Making data findable, including provisions  N/A		They will be ingested by the DIANA platform and
Making data findable, including provisions  N/A		disseminated to project stakeholders, while their
N/A		usefulness will be demonstrated during the pilot cases.
	Making data findable, including provisions	N/A
	for metadata	N/A



	The image data and the processed products will be
	available to all stakeholders through a DIANA Platform
	(see WP3 for details). Registered users will have
	unlimited access to the products for the duration of the
	project.
	A unique identifier will be assigned to each EO data
	following the provider's identification mechanism. For
	the added value products (Vegetation index, BOA, etc.)
	a unique identification separated by underscore (_) will
	be appended to file name.
	Versioning identifier will be also appended at the end
Making data openly accessible	of the name product starting by 0 (_v00, v01,, vnn)
	Searching dataset will be guarantee by build-in
	keyword search tool of Geoserver, MapServer and
	PostGIS.
	INSPIRE metadata will be created for all the EO-based
	geospatial products that will be generated in the
	lifetime of the project.
	All EO data, value added products, code and metadata
	will be stored in central data repository server of DIANA
	project. Mirror servers for relevant EO data could be
	hold by project partners.
	PostGIS, Mapserver and Geoserver tools will be
	available for a widely accessible management of EO
	information.
Making data interoperable	INSPIRE protocol will be used for metadata descriptors.
	INSPIRE provides typical standard for geospatial data.
	No standard vocabulary will be used and no ontology
	mapping is foreseen.
Increase data re-use	To access to the EO added value data, partnership or
	licensing agreement will be required.
	The EO-based geospatial products that will be
	generated in DIANA will be made available for re-use
	for the project's lifetime and beyond.

	All EO-based products will remain usable after the end	
	of the project.	
	No particular data quality assurance process is	
	followed, and no relevant warranties will be provided.	
	EO-based products will remain re-usable at least two	
	years after the project's conclusion.	
	To access to the EO added value data, partnership or	
	licensing agreement will be required.	
	The costs for maintaining a database of the EO-based	
	products that will be generated to serve the pilot	
	demonstrations are:	
	<ul> <li>Hosting cost: estimated expenditure for the</li> </ul>	
	project life time is about 2500 EUR (about	
	800 EUR for each years beyond project end);	
	<ul> <li>Personnel cost: development cost is</li> </ul>	
Allocation of resources	indicated in the project; maintenance cost	
	after project life time could be foresee in 0.5	
	PM per year.	
	The cost of data FAIR will be covered by project	
	resources.	
	Responsibility of data is shared among projects	
	partners.	
	Servers are managed by the IT department. They are	
Data security	regularly backed up and secured.	
Ethical aspects	N/A	
Other issues	N/A	

# DMP Components in WP3 – DIANA service platform design and development

DMP Component	Issues to be addressed
Data_WP3_1_Sys	tem_arcitecture_and_design
Data Summary	Integration framework, component descriptions and
Data Summary	dependencies, API descriptions, information flow



	diagram, internal and external interfaces, software and
	hardware requirements, use case scenarios and testing
	procedures will be described in deliverable D3.1 Overall
	architecture, system design and integration framework
	specification. This will be the basis upon which the
	system will be built.
	After the document is delivered to the EU and the
	consortium decides to do so, it will become both
Making data findable including providing	discoverable and accessible to the public.
Making data findable, including provisions for metadata	This document will contain a table indicating all versions
Tor metadata	of the document, along with who contributed to each
	version, what the changes where as well as the date a
	new version was created.
	The data will be available in D3.1: Overall architecture,
	system design and integration framework. The
Making data openly accessible	dissemination level is confidential. It will be available
	through the DIANA wiki for the members of the
	consortium.
Making data interoperable	N/A
	This deliverable could be used as an example for
Increase data re-use	technical teams who are interested in building this kind
	of systems.
Allocation of resources	N/A
	All data will be securely saved in the AGRO APPS
Data security	premises and will be shared with the rest of the partners
	using the DIANA wiki.
Ethical aspects	There are no ethical aspects related to the described
Lancal aspects	dataset.
Other issues	N/A

DMP Component	Issues to be addressed	
Data_WP3_2_Maps_produced_by_the_Diana_services		
Data Summary	The DIANA platform will be heavily based on map controls that will offer to the users the possibility to	



	have access to multiple map layers indicating useful
	information derived by the DIANA services.
	Tiff files, bearing geolocation metadata, for each type of
	map will be produced. We have no indication for the
	size of each file yet.
	DIANA will use existing data such as:
	Land use-land cover maps
	<ul> <li>Maps of irrigated and non-irrigated areas</li> </ul>
	Maps of soil physical properties
	<ul><li>Crop maps</li></ul>
	Registered users will be able to discover maps that offer
	them useful information for the completion of their
	duties.
Making data findable, including provisions	As part of every user action we will produce meaningful
for metadata	metadata (time and date of data creation or data
	amendments, owners of actions that took place, service
	that produced the map). Metadata will assist the
	discoverability of the data and related information.
	Only signed in users will have access to the produced
	maps. Given that DIANA will be a paid product, users will
	have to pay in order to access the maps produced.
Making data openly accessible	The maps and the metadata will be made available for
waking data openly accessible	use by the DIANA or third party applications through the
	secure API that we will create.
	Only the authorized technical team will have access to
	the hard drive that will host all the produced tiff files.
Making data interoperable	N/A
	Maps produced during the project, will be offered to
	anyone who asks for it. After the end of the project,
Increase data re-use	these data will only be available to users who will buy
	the product. Paying users will be able to download such
	the product. Paying users will be able to download such data and use it for their own purposes.
	data and use it for their own purposes.





	All data generated by the platform will be saved on the
	DIANA server. SSL connections will be used to ensure
	secure exchange of information.
	In case of necessary updates, the old data will be
	overwritten and all actions will be audited in detail. A
	log will be kept, containing the changed text for security
Data security	reasons. Daily backups for a period of 3 days will be
	kept. All backups will be hosted on a remote server to
	avoid disaster scenarios.
	All servers will be hosted behind firewalls inspecting all
	incoming requests against known vulnerabilities such as
	SQL injection, cookie tampering and cross-site scripting.
	Finally, IP restriction will enforce the secure storage of
	data.
	There are no ethical aspects related to the described
Ethical aspects	dataset.
Other issues	N/A

DMP Component	Issues to be addressed
Data_WP3_3_Statistical_Reports	
Data Summary	EO products and service outputs will be further processed in order to produce statistical reports in the form of charts, graphs and tables. DIANA users will use this information to make better decisions.
Making data findable, including provisions for metadata	Registered users will be able to discover reports, charts and graphs corresponding to their area of interest and selected time period. Users will be able to export the reports and use them the way they want.  Metadata containing the dates the reports/charts/graphs were created, the user for whom they were produced and number of downloads will also be produced.

	Only registered users will have access to reports, graphs
	and charts. As a private product, users will have to pay
	in order to access the maps produced.
	The reports and the metadata will be made available for
	use by the DIANA and third party applications through
Making data ananhi accassible	the secure API that we will create.
Making data openly accessible	The database that will host the above data and any
	related metadata will not be discoverable to other
	network machines operating on the same LAN, VLAN
	with the DB server or other networks. Therefore only
	users with access to the server (DIANA technical team
	members) will be able to discover the database.
Making data interoperable	Statistical reports will be downloadable in xml format so
waking data interoperable	that it is easy to be further used for other purposes.
	Reports produced during the project, will be offered to
	anyone who asks for it. After the end of the project,
Increase data re-use	these data will only be available to users who buy the
	product. Paying users will be able to download such
	data and use it for their own purposes.
	We plan to preserve these data for long time in order to
Allocation of resources	offer the users the opportunity to go back in time and
	compare current farm conditions with those of the past.
	All data generated by the platform will be saved on the
	DIANA server. SSL connections will be used to ensure
	secure exchange of information.
	In case of necessary updates, the old data will be
	overwritten and all actions will be audited in detail. A
Data security	log will be kept, containing the changed text for security
Data security	reasons. Daily backups for a period of 3 days will be
	kept. All backups will be hosted on a remote server to
	avoid disaster scenarios.
	All servers will be hosted behind firewalls inspecting all
	incoming requests against known vulnerabilities such as
	SQL injection, cookie tampering and cross-site scripting.





	Finally, IP restriction will enforce the secure storage of
	data.
Ethical aspects	There are no ethical aspects related to the described
	dataset.
Other issues	N/A

DMP Component	Issues to be addressed
Data_WP3	_4_Website content
	DIANA users will generate data via the platform. These
	data apart from the users' personal information contain
	the administrative boundaries and settlements of each
	area, maps of irrigated and non-irrigated areas and soil
	maps. The data described above will be saved in the
	DIANA central database or as tiff files on the DIANA
	server.
	Detailed log of user actions (login, logout, account
Data Summary	creation, visits on specific parts of the app) will be kept
,	in the form of a text file. This log will be useful for
	debugging purposes.
	Reports containing information on user devices (which
	browsers and mobile phones) as well as number of
	mobile downloads (taken from play store for android
	downloads and app store for mac downloads) will be
	useful for marketing and exploitation purposes, as well
	as decisions regarding the supported browsers and
	operating systems.
	As part of every user action we will produce meaningful
	metadata (time and date of data creation or data
	amendments, owners of actions that took place, service
Making data findable, including provisions	that produced the map). Metadata will assist the
for metadata	discoverability of the data and related information.
	The administrator of the platform will be the only one
	with the ability to discover all data generated by the
	platform.

	Data will only be available to registered users and
Making data openly accessible	administrators. The data produced by the platform
	cannot be shared with others without the user's
	permission. No open data will be created as part of
	DIANA
	The database is only accessible by the authorized
	technical team.
Making data interoperable	N/A
Increase data re-use	N/A
Allocation of resources	N/A
	Platform generated data will be saved on the DIANA
	database server. Sensitive user data (emails, passwords)
	are encrypted using strong algorithms. SSL connections
	will be used in order to ensure secure exchange of
	information.
	In case of necessary updates, the old data will be
	overwritten and all actions will be audited in detail. A
Data security	log will be kept, containing the changed text for security
Satu Security	reasons. Daily backups for a period of 3 days will be
	kept. All backups will be hosted on a remote server to
	avoid disaster scenarios.
	All servers will be hosted behind firewalls inspecting all
	incoming requests against known vulnerabilities such as
	SQL injection, cookie tampering and cross-site scripting.
	Finally, IP restriction will enforce the secure storage of
	data.
Ethical aspects	There are no ethical aspects related to the described
	dataset.
Other issues	N/A

# DMP Components in WP4 – Pilot deployment, monitoring and coevaluation

DMP Component	Issues to be addressed





Data_WP4_2_Pilot deployment	
	In situ data will be collected in order to keep track of the
	performance and impact of the platform and its
	services. The data will include time series of
Data Summan	precipitation, map of evapotranspiration, land use map,
Data Summary	crop phenology, etc. The data will be collected by the
	pilot partners. The data will be available in *.xls and
	*.csv formats and will be used to validate the existing
	models and methodologies.
Making data findable, including provisions	The data will be locally hosted at DIANA server. For each
for metadata	dataset, related metadata will describe data structure
101 metauata	and methodology used to collect the data.
Making data openly accessible	All DIANA in situ data will be locally hosted at DIANA
waking data openiy accessible	server.
	The data will be provided in commonly used physical
Making data interoperable	units, BBHC scale of phenological development stages of
	a crop.
	The data will be available for re-use as soon as the
Increase data re-use	quality is approved. No time limits for re-use of the data
	will be imposed.
Allocation of resources	N/A
Data security	N/A
Ethical aspects	No personal data will be distributed within the
	described datasets.
Other issues	N/A

DMP Component	Issues to be addressed
Data_WP4_3_Co-evaluation and validation of DIANA	
	The aim of the data collection is to effectively manage
Data Summary	ambiguity during the pilot deployment period and lead
	to meaningful, demand-driven improvements. The
	accuracy of DIANA services will be validated based on its
	own validation methodology.
	The following data formats will be produced:

	• *.csv
	• *.xlsx
	These data files will be useful mainly to the DIANA
	project partners and DIANA Advisory Board members
	for evaluation purposes.
Making data findable, including provisions	Task 4.3 will produce results of a blend of quantitative
for metadata	and qualitative techniques for validation of DIANA
101 metauata	services.
	The validation results will be documented in reports
	along with recommendations about adjustments and
	will be made publicly available on the DIANA website;
	the results of the validation will be possibly published in
Making data openly accessible	peer-reviewed scientific journals.
waking data openiy accessible	Public access of the raw data files will be determined
	later in the project life according to the business model
	which will be decided. DIANA partners will have full
	access over the raw data by authenticating themselves
	into the platform.
Making data interoperable	N/A
Increase data re-use	N/A
Allocation of resources	N/A
	The private data (raw data) will be placed in a password
Data security	area on the website or on DIANA Wiki, where only the
	project members can have access. The reports will be
	public, so there is no need for security measurements.
Ethical aspects	N/A
Other issues	N/A

# DMP Components in WP5 – Business planning and innovation management

DMP Component	Issues to be addressed
Data Summary	Market Intelligence Data

The purpose of the Market Intelligent Dataset is to include, document and manage all the data that will be available and/or come out of the market analysis exercise during the DIANA project.

The data will have the following formats: \*.xlsx, \*.doc, \*pdf files.

Market reports and market data related to the pilots' regions and countries will be in \*.xlsx, \*.doc, \*pdf format. In order to make the results of the market analysis more visible, a series of meta-data tables and figures will be produced in similar forms to feed the drafting of Business Modelling, Business Planning and Exploitation tasks.

Thus, all deliverables of type report related to WP5 are expected to include data and meta-data of this kind. These documents will be in \*.doc and/or \*.pdf format. Existing data and reports in partners' repositories may also be used or reused. Generated meta-data will be produced only within the time duration in the context of DIANA project as described in the GA and DoA.

The total file of this dataset will be approximately 1 Gb. This will include text and .xlsx files. These data would be useful to anyone who would like to reflect on the market intelligence in the domains relevant to the DIANA project.

#### Contact details of external stakeholders

The purpose of the Databases is to manage and document all the data that will be produced regarding the external stakeholders that will be contacted and interviewed within the context of WP5 of the DIANA project.

More specifically external stakeholders will include: Potential lead users / early adopters from the Advisory Board of the project as well as other similar ones during

the pilot operation of the DIANA service platform (based on suggestions made by partners).

Interviews will aim either to validate and improve DIANA business models or establish direct contacts and relationships that may result in a more pro-active adoption of DIANA value propositions at an early stage but its target groups.

The data will have the following formats: \*.xlsx, \*.doc, \*pdf files.

Reports related to the external stakeholders' interviews will also be in \*.doc format. In order to make the results of the stakeholders' interviews more visible, a series of \*.xlsx format tables and figures will be produced mainly with coded recommendations. An \*.xls table will also be created to include the list of the contact details of the external stakeholders contacted and interviewed.

Thus, all deliverables of type report related to WP5 are expected to include data and meta-data of this kind. These documents will be in \*.doc and/or \*.pdf format. No existing data will be used or reused. Data will be produced only within the time duration in the context of DIANA project as described in the GA and DoA.

The total file of this dataset will be approximately 1 Gb. This will include text and .xlsx files. These data would be useful to anyone who would like to reflect on novel ideas and recommendations for business modeling and value propositions of services in domains relevant to the DIANA project.

#### Making data findable, including provisions for metadata

A series of market intelligence meta-data tables and figures will be produced to feed the drafting of Business Modelling, Business Planning and Exploitation. Unique and persistent identifiers will not be used for this dataset.

Keyword search will be based on geographical and typological terms.



	Versioning will follow the versioning approach defined
	by the project.
	The datasets will not be publicly available. They will only
	be accessible through the DIANA Dropbox/ wiki and only
	the members of the consortium will have access to that
Making data openly accessible	material.
waking data openiy accessible	The administration of the DIANA wiki will only be
	accessible by the Coordinator (AGROAPPS) of DIANA
	and the databases will be renewed when new data will
	be available.
Making data interoperable	N/A
	The dataset cannot be accessed and there is no
	permission related with this dataset. Final data will be
	publicly available within the related deliverables
Increase data re-use	deposited in the project website. Any individual or third
	party interested to access and reuse the data can
	download the deliverable from the project website in
	*.pdf format.
	All costs related to the WP5 data collection and
Allocation of resources	processing are covered by the project budget with
	dedicated person months under the WP5.
	The WP5 market data will be preserved and shared with
	the members of the consortium through the DIANA
	Dropbox and/or Wiki. The data is collected for internal
	use in the project, and not intended for long-term
	preservation. The WP leader is keeping a quarterly
	backup on a separate disk.
Data security	The preservation of the contact details of the external
·	stakeholders that will be contacted and interviewed
	within the context of PW5 will concern the entire time
	of the project to facilitate communication and
	engagement with them. The data will be preserved and
	shared with the members of the consortium through
	the DIANA Dropbox and/ or Wiki. The data is collected
	for internal use in the project, and not intended for long-





	term preservation. The WP leader is keeping a quarterly
	backup on a separate disk.
	To carry out the interviews with external stakeholders,
	the partners will employ those informed consent
	procedures that abide to ethical standards and
	guidelines of the HORIZON 2020 and in compliance with
	applicable international and national law. The
	anonymity and confidentiality of the research
	participants, as well as their right to turn-down or
	withdraw from the process at any point (i.e. volunteer
	participation), will be guaranteed and be made clear in
Ethical aspects	written (consent form) as well as in oral form where
	possible. Any personal information will be handled
	according to the principles laid out by the Directive
	95/46/EC of the European Parliament and of the Council
	on the "Protection of individuals with regard to the
	processing of personal data and on the free movement
	of such data" (24 October 1995) and its revisions, while
	no sensitive personal data will be collected.
	More specifically, the interviewees will be provided with
	'information sheet', which will:

- Inform them about for the aim of the project;
- Outline the aim, method and implication of the interviews, the nature of the participation and any benefits, risks or discomfort that might be involved;
- Explain the reason of their invitation to be interviewed;
- Explicitly state that participation is voluntary and the interviewee has the right to refuse to participate and to withdraw his/her participation, at any time — without any consequences;
- Explain that the results of the interviews will be used only for the purposes of the project;
- Indicate the potential benefits of the project, such as receiving information about the outcomes of the project, the opportunity to influence evolutions in the field as well as references to related research if they are interested;
- Reveal the lack of risks involved in this project other than what they would encounter in daily life;
- Declare that any personal information (e.g. audio/video name, contact details, recordings, etc.) will be handled in accordance with the Directive 95/46/EC of the European Parliament and of the Council on the "Protection of individuals with regard to the processing of personal data and on the free movement of such data" (24 October 1995) and its revisions, as well as the national law on data protection;

	Explain the need of permission for the
	interview to be audio-recorded and that they
	can revoke this permission at any time;
	Clarify that the interviewer will hold all
	information and data collected securely and
	in confidence and that all efforts will be made
	to ensure that they cannot be identified as a
	participant in the interviews (except as might
	be required by law).
	To ensure that the interviewee has fully understood the
	scope and implications of his/her participation and does
	not feel pressured or forced to provide any information,
	he/she will be asked to give his/her consent in writing
	by signing the 'informed consent form'. If the consent
	cannot be given in writing, for example because of
	illiteracy, the non-written consent must be formally
	documented and independently witnessed.
	If requested, both the "information sheet" and the
	"informed consent form" will be provided to the
	interviewees in their national language, while emphasis
	will be given to ensure that the terms are clear and fully
	understandable to them.
Other issues	N/A

# **DMP Components in WP6 – Enabling environment and awareness** raising

DMP Component	Issues to be addressed
Data Summary	Data collection is an essential procedure for the elaboration of the Enabling environment and awareness raising.  Lists of communication recipients containing stakeholders and their e-mail addresses will be created
	and they will be in *.xls format.

	Information regarding direct/indirect competitors and
	data regarding water management authorities and
	farmers.
Making data findable, including provisions	All data will be publicly available through the DIANA
for metadata	website.
Making data openly accessible	Data concerning e-mail addresses will not be openly
	available because they are personal data.
Making data interoperable	N/A
Increase data re-use	N/A
Allocation of resources	This dataset does not require specific allocation of
	resources for its maintenance.
Data security	Automated backup of files.
Ethical aspects	N/A
Other issues	N/A

# **DMP Components in WP7 – Project Management**

DMP Component	Issues to be addressed
	Contact details of project partners and advisory board
	The purpose of the Databases is to manage and
	document all the data that will be produced regarding
	the project partners and Advisory Board members
	during the DIANA project.
	Advices and quality control, from the members, ensure
	the development and application of state-of-the-art
	methodologies, algorithms and generated services.
Data Summary	The data will have the following formats: *.xlsx, *.doc,
	*pdf files.
	Reports related to the AB will also be in *.doc format. In
	order to make the results of the AB more visible, a series
	of *.xlsx format tables will be produced mainly with
	coded recommendations and their relation to specific
	WP, deliverable or responsible partner. An *.xls table
	will also be created to include the list of the contact
	details of the members.

	Thus, all deliverables of type report related to the
	project's management will be produced, such as Data
	Management Plan, financial reports and management
	reports. These documents will be in *.doc and/or *.pdf
	format.
	No existing data will be used or reused. Data will be
	produced only within the time duration in the context
	of DIANA project as described in the GA and DoA.
	The total file of this dataset will be approximately 1 Gb.
	This will include text and *.xlsx files. These data would
	be useful to anyone who would like to reflect on the
	impact that the AB would have to the evolution of the
	project itself.
	The inclusion of metadata for the current dataset has
Making data findable, including provisions	not been yet decided. Unique and persistent identifiers
for metadata	will not be used for this dataset.
	The datasets will not be publicly available. They will only
	be accessible through the DIANA Dropbox/ Wiki and
	only the members of the consortium will have access to
Making data anantu assasible	that material.
Making data openly accessible	The administration of the DIANA wiki will only be
	accessible by the Coordinator (AGROAPPS) of DIANA
	and the databases will be renewed when new data will
	be available.
Making data interoperable	N/A
	The dataset cannot be accessed and there is no
	permission related with this dataset. Final data will be
	publicly available within the related deliverables
Increase data re-use	deposited in the project website. Any individual or third
	party interested to access and reuse the data can
	party interested to access and reuse the data can download the deliverable from the project website in
	download the deliverable from the project website in
Allocation of resources	download the deliverable from the project website in *.pdf format.





	Preserving contact details of the project partners and
Data security	advisory board members for the entire time of the project will facilitate the internal communication. The data will be preserved and shared with the members of the consortium through the DIANA Dropbox and/ or
	Wiki. The data is collected for internal use in the project, and not intended for long-term preservation. The WP leader is keeping a quarterly backup on a separate disk.
Ethical aspects	N/A
Other issues	N/A

# **Conclusion**

The DMP reflects the data management strategy and the procedure that DIANA will follow in order to identify issues and missing information related to data management that can be further clarified until the submission of the 2<sup>nd</sup> DMP. The DMP is not a fixed document but it will be updated twice during project lifespan (M18, M36).

#### **Abbreviations**

 $\mathsf{AB}$ **Advisory Board** 

API **Application Programming Interface** 

**BBHC** Biologische Bundesastalt, Bundessortenamt und Chemische Industrie

CSV Comma-seperated Values

DoA **Description of Action** 

DMP Data Management Plan

EC **European Commission** 

EO **Earth Observation** 

**EODC** Earth Observation Data Centre

EU **European Union** 

FTP File Transfer Protocol

GΑ **Grant Agreement** 

ΙP Internet Provider

LAN Local Area Network

PDF Portable Document Format

SQL Structured Query Language

SSL Secure Sockets Layers

TIFF Tagged Image File Format

VLAN Virtual LAN

WP Work Package

XML Extensible Markup Language