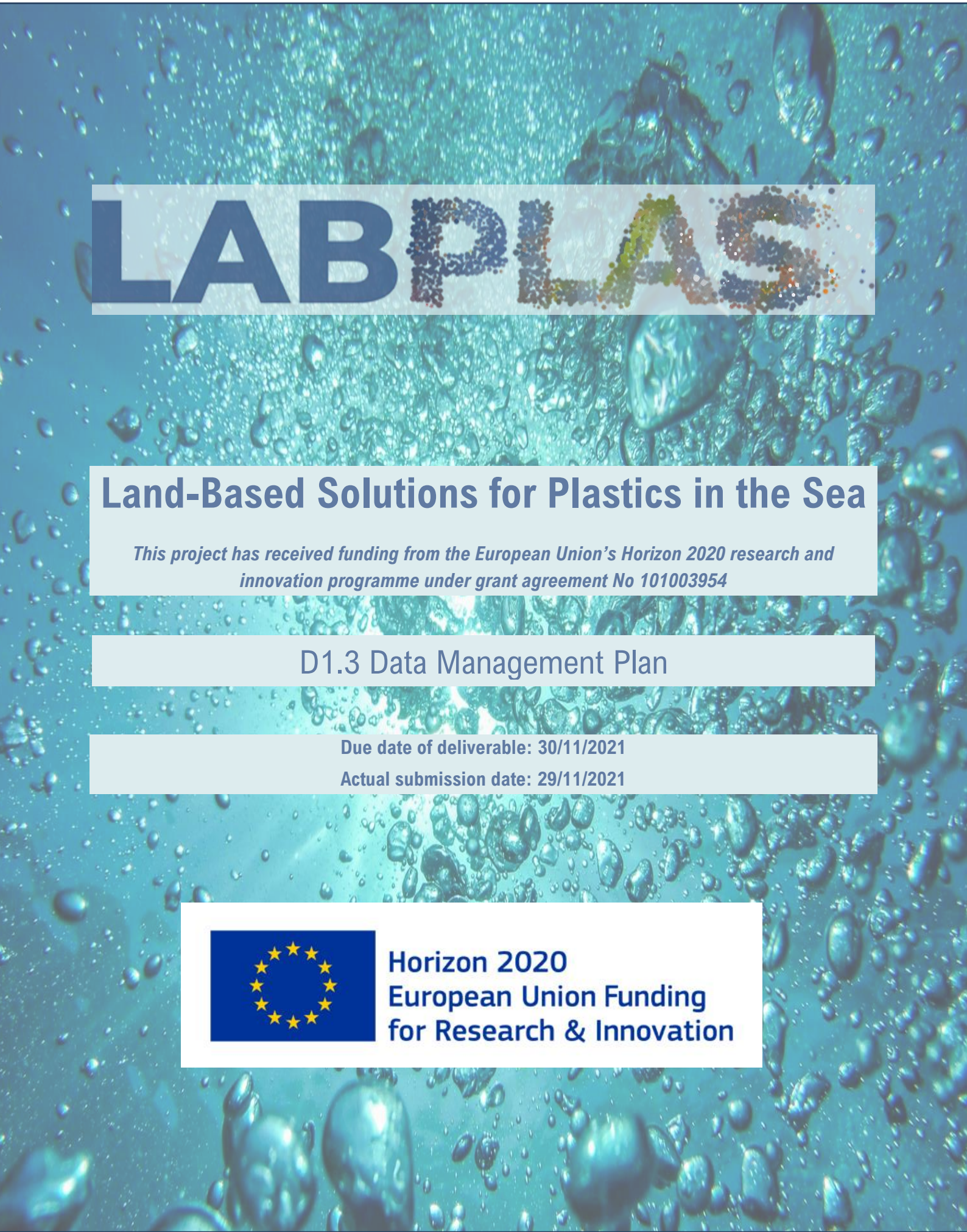
LABPLAS

Horizon 2020
European Union Funding
for Research & Innovation



Land-Based Solutions for Plastics in the Sea

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101003954

D1.3 Data Management Plan

Due date of deliverable: 30/11/2021

Actual submission date: 29/11/2021

Horizon 2020
European Union Funding
for Research & Innovation

LABPLAS

Horizon 2020
European Union Funding
for Research & Innovation

PROJECT INFORMATION

Project number: 101003954

Project acronym: LABPLAS

Project full title: Land-Based Solutions for Plastics in the Sea

Call: H2020-SC5-2018-2019-2020 submitted for H2020-SC5-2020-2 / 03 Sep 2020

Topic: CE-SC5-30-2020 – Plastics in the environment: understanding the sources, transport, distribution and impacts of plastics pollution

Type of action: RIA – Research and Innovation Action

Starting date: June 1st, 2021

Duration: 48 months

List of participants:

Nº	Participant name	Acronym	Country	Type
1	UNIVERSIDADE DE VIGO	UVI	SPAIN	HES
2	UNIVERSIDADE DA CORUÑA	UDC	SPAIN	HES
3	Bundesanstalt fuer Gewaesserkunde	BfG	GERMANY	RTO
4	LABORATORIO IBERICO INTERNACIONAL DE NANOTECNOLOGIA	INL	PORTUGAL	RTO
5	KATHOLIEKE UNIVERSITEIT LEUVEN	KUL	BELGIUM	HES
6	HELMHOLTZ ZENTRUM FUR OZEANFORSCHUNG KIEL	GEOMAR	GERMANY	RTO
7	NATIONAL OCEANOGRAPHY CENTRE	NOC	UNITED KINGDOM	RTO
8	SORBONNE UNIVERSITE	SU	FRANCE	HES
9	OPEN UNIVERSITEIT NEDERLAND	OUNL	NETHERLANDS	HES
10	LEIBNIZ INSTITUTE FOR BALTIC SEA RESEARCH	IOW	GERMANY	RTO
11	ASSOCIACAO PARA O DESENVOLVIMENTO DO ATLANTIC INTERNATIONAL RESEARCH CENTRE	AC	PORTUGAL	RTO
12	UNIVERSIDADE FEDERAL DE SAO PAULO	UNIFESP	BRAZIL	HES
13	BASF SE	BASF	GERMANY	LE
14	TG ENVIRONMENTAL RESEARCH	ER	UNITED KINGDOM	SME
15	CONTACTICA S.L.	CTA	SPAIN	SME
16	STICHTING EGI	EGI	NETHERLANDS	Non-P
17	STICHTING RADBOUD UNIVERSITEIT	RU	NETHERLANDS	HES

DELIVERABLE DETAILS

Document number:	D1.3
Document title:	Data Management Plan
Dissemination level	PU – Public
Period:	PR1
WP:	WP1
Task:	Task 1.1 and Task 1.2
Status:	Final
Author:	M Viljoen
Reviewers:	All Partners
Recommended citation format	M Viljoen, 2021, Data Management Plan, Deliverable1.3, LABPLAS Grant Agreement No. 101003954 H2020-SC5-2020-2
Executive summary:	This document corresponds to the first version of Deliverable 1.3 Data Management Plan. It covers the description of how research data will be collected, processed, monitored, and catalogued during the LABPLAS project lifetime. For each dataset, it describes the type of data and their origin, the related metadata standards, the approach to data sharing and target groups, and the approach to data archiving and preservation, taking into account the need to balance openness and protection of scientific information, commercialisation, Intellectual Property Rights (IPR), privacy concerns and security. The LABPLAS Data Management Plan will be updated periodically.

Version	Date	Comments
1	05/11/2021	First version based on the input from WPs.
2	19/11/2021	Revised version

Disclaimer

The views and opinions expressed in this document reflect only the authors' views, and not necessarily those of the European Commission.

TABLE OF CONTENTS

PROJECT INFORMATION 1
DELIVERABLE DETAILS 2
TABLE OF CONTENTS 3
ABBREVIATIONS AND ACRONYMS 4
1 INTRODUCTION 5
2 DATA MANAGEMENT PLANS PER WORK PACKAGE 5
2.1 WP1 PROJECT MANAGEMENT 5
2.2 WP2 FIELD SAMPLING 8
2.3 WP3 ADVANCED ANALYSIS 11
2.4 WP4 SMART HUBS 13
2.5 WP5 BIOPOLYMERS 16
2.6 WP6 IMPACT ASSESSMENT 19
2.7 WP7 MODELLING 22
2.8 WP8 PLASTICS GOVERNANCE 24
2.9 WP9 COMMUNICATIONS 27

ABBREVIATIONS AND ACRONYMS

Abbreviation / Acronym	Description
CERIF	Common European Research Information Format
DOI	Digital Object Identifier
DMP	Data Management Plan
EC	European Commission
E.R.A	Environmental Risk Assessment
FAIR	Findable, Accessible, Interoperable and Re-Usable
IPR	Intellectual Property Rights
LCA	Life Cycle Assessment
ORE	Open Research Europe
PID	Persistent Identifier
SERS	Surface Enhanced Raman Spectroscopy
SMNP	Small, Micro-, and Nano- Plastics
SOPs	Standard Operating Procedures
WP	Work Package
WPL	Work Package Leader

1 INTRODUCTION

Plastic is pouring from land into our oceans at a rate of nearly 10 million tonnes a year. Once in the sea, plastics fragment into particles moving with the currents and ocean gyres before washing up on the coastline. The smaller the size the higher the risk posed by these particles to organisms and human health. Because small, micro-, and nano- plastics (SMNP) cannot be removed from oceans, proactive action regarding research on plastic alternatives and strategies to prevent plastic from entering the environment should be taken promptly. The LABPLAS project is a 48-months project whose vision is to develop new techniques and models for the detection and quantification of SMNP. Specifically, LABPLAS will determine reliable identification methods for a more accurate assessment of the abundance, distribution, and toxicity determination of SMNP and associated chemicals in the environment. It will also develop practical computational tools that should facilitate the mapping of plastic-impacted hotspots and promote scientifically sound plastic governance.

This document corresponds to the first version of Deliverable 1.3 Data Management Plan. It covers the description of how research data will be collected, processed, monitored, and catalogued during the LABPLAS project lifetime. For each dataset, it describes the type of data and their origin, the related metadata standards, the approach to data sharing and target groups, and the approach to data archiving and preservation, taking into account the need to balance openness and protection of scientific information, commercialisation, Intellectual Property Rights (IPR), privacy concerns and security. The information is organised by Work Packages (WP) and corresponds to the Data Management Plan aspects covered in the H2020 Guidelines on FAIR Data Management in Horizon 2020 (in general terms, research data should be "FAIR", that is findable, accessible, interoperable, and re-usable). Information at this stage of the project has been gathered from Work Package Leaders (WPL). The LABPLAS Data Management Plan will be updated periodically.

2 DATA MANAGEMENT PLANS PER WORK PACKAGE

2.1 WP1 PROJECT MANAGEMENT

Work package	WP1 Project Management
Contact	Cynthia Gomez
1. Data summary	
1.1. Purpose of data collection/generation	*State the purpose of data collection* Data is collected within WP1 to obtain information, to share information, to keep on record, to combine with other data and to make informed decisions to fulfil the objectives of the project as defined by the Grant Agreement.
1.2. Relation to project objectives	*Explain data collection in relation to the objectives of the project* To ensure effective project management and appropriate scientific coordination.
1.3. Types/format of data	*Specify the types of the data* 1. Project documentation (procedures, plans, metrics, risks, meetings, presentations) 2. Deliverables and milestones 3. Efforts and financial data *Specify the data format* plain text, .pdf, .docx, .pptx, .odf, .xls

1.4 Origin of data or reuse of existing data	*Specify the origin of the data* Data is produced and provided by project members
1.5 Scale of data	*Specify the estimated total amount of data generated* <500GB
1.6 Data utility	*Specify to whom the data will be useful* The target groups for data generated in WP1 include the project officer, the project consortium/members, the EC, external researchers and research communities, industry, decision-makers, and the public in general.
2. FAIR Data	
2.1. Making data findable, including provision for metadata	
2.1.1 Facilitating findability	*Outline your approach towards search keywords* Search keywords will be provided to search for and successfully find WP1 outputs.
2.1.2 Identifiability of data	*Do you expect to make use of identification mechanisms such as Digital Object Identifiers (DOIs)?* Yes, for project outputs. Persistent and/or persistent identifiers (PIDs) are provided by data repositories.
2.1.3 Versioning	*Do you expect to use versioning?* Yes. Versions are frequently monitored to discard those that are not required for verification, reproducibility, or transparency, amongst others.
2.1.4 Metadata usage	*What metadata standards (if any) do you expect to use?* No metadata standards are expected to be used for WP1 data.
2.2 Making data openly accessible	
2.2.1 Accessibility	*Which data will be made openly available? If some data is kept private, then say why. Refer to data types in section 1.3* 1. Shared with the consortium to support project work. Some datasets will be shared under restricted access conditions via the Private Area repository in the LABPLAS website (https://labplas.eu/). 2. All deliverables and milestones are shared within the consortium and with the EC. Public deliverables will be deposited in a trusted repository (i.e. Investigo at Universidade de Vigo, ORE: Open Research Europe) and the project website for long term preservation and curation. 3. Shared with the consortium and EC. Contains personal/sensitive/confidential financial data so is kept private.
2.2.2 Method of availability	*Specify how and where the data will be made available* Via the project website (https://labplas.eu/) and trusted data repositories (i.e., Investigo at Universidade de Vigo, ORE: Open Research Europe) that ensure the data is assigned a digital object identifier (DOI).
2.2.3 Methods/software needed to access the data	*Specify what methods/software tools are needed to access the documentation. If these are bespoke tools, is it included, along with the documentation on how to use the tools?* Web browser for web content, open-source tools for documents.

2.2.4 Access control	*Specify how access will be controlled in case access to data is restricted* Via open-source methods of authorisation and authentication. Data access controls, such as passwords or firewalls, will be used to limit access to confidential data and protect it from unauthorised changes.
2.3 Making data interoperable	
2.3.1 Interoperability	*How interoperable will the data be? If appropriate, refer to data/metadata vocabularies/standards or methodologies, or whether you are mapping to more commonly used ontologies* Via the use of well-known formats such as those used by Microsoft Word and Excel.
2.4 Data reuse and quality	
2.4.1 Licensing	*Will the data be released under a license? If so, please specify the license that will be used* Data will be licensed using standard licenses (i.e., Creative Commons licenses) in line with the obligations set out in the Grant Agreement.
2.4.2 Data availability and embargo	*When will the data be available for reuse? If an embargo will be used, specify the length of the embargo* WP1 data will be available after publication.
2.4.3 Reuse restrictions	*Will there be any restrictions on the reuse of the data?* Permissions are provided through licenses.
2.4.4 Data retention	*How long will the data be retained?* At least 5 years after the project ends.
2.4.5 Data quality	*Describe data quality assurance processes* Multiple authors involved in data creation and internal revision before submission to ensure the quality of deliverables and milestones (completeness, accuracy, relevance, appearance & structure).
3 Allocation of resources	
3.1 Costs	*Estimate the costs of making your data FAIR and how these costs will be met* All costs for making data FAIR are integrated within the project.
3.2 Data management responsibilities	*Which are the responsibilities within the project for data management?* Data collectors are all project partners collecting data for project research activities. Partner EGI is the partner responsible for data management.
3.3 Costs of preservation	*What are the costs of data preservation?* Long term preservation of data will be ensured by the project and by the partners themselves.
4 Data security	
4.1 Data security	*How will the security of the data be achieved? This should cover measures to retain and transfer the data* In all cases, data will be stored in at least two locations (i.e., the Universidade de Vigo repository, EC portal and LABPLAS webpage) to provide for data backup, recovery, and secure storage/archiving. Research data of limited use will be kept on

	secure, managed storage for a limited time. Transfer of sensitive data will use secure protocols (i.e. username and password, https://, ssh).
5 Ethical aspects	
5.1 Ethical aspects	*Specify whether there are any ethical aspects to the data management and where these are addressed* Informed consent statements for data sharing and long-term preservation will accompany questionnaires dealing with personal data and have been addressed within Deliverable 10.1 Humans – Protection of Personal Data. Where necessary data will be anonymised.
6 Other aspects	
6.1 Other aspects	*Specify any other national/funder/sectorial/departmental procedures for data management that you are using (if any)* Not applicable

2.2 WP2 Field Sampling

Work package	WP2 Field Sampling
Contact	Friederike Stock
1. Data summary	
1.1. Purpose of data collection/generation	*State the purpose of data collection* Data of sampling campaigns will be used to significantly improve existing knowledge on land-based sources, transport, distribution, and the fate of plastics (macro-, micro-and nanoplastics) within a range of environmental compartments (atmospheric, freshwater, marine, terrestrial, and biological).
1.2. Relation to project objectives	*Explain data collection in relation to the objectives of the project* Samples and data collected in WP2 will be fed to other WPs to fulfil the objectives of the project as defined by the Grant Agreement.
1.3. Types/format of data	*Specify the types of the data* Field sampling data *Specify the data format* Most probably only Microsoft Excel spreadsheets/Word documents
1.4 Origin of data or reuse of existing data	*Specify the origin of the data* New (primary) data from fieldwork
1.5 Scale of data	*Specify the estimated total amount of data generated* Not very much as this is expected only to include fieldwork and mainly notes, <500MB
1.6 Data utility	*Specify to whom the data will be useful* The target groups for data generated in WP2 include other WPs within the project, external researchers and research communities, industry, decision-makers, and the public in general.

2. FAIR Data	
2.1. Making data findable, including provision for metadata	
2.1.1 Facilitating findability	*Outline your approach towards search keywords* Search keywords such as: “SMNP”, “Fieldwork”, “Thames”, “Elbe”, “North Sea”, “Mero-Barcés”, “Baltic Sea”, will be provided to search for and successfully find WP2 outputs.
2.1.2 Identifiability of data	*Do you expect to make use of identification mechanisms such as Digital Object Identifiers (DOIs)?* Yes, for project outputs. Persistent and/or persistent identifiers (PIDs) are provided by data repositories.
2.1.3 Versioning	*Do you expect to use versioning?* Yes.
2.1.4 Metadata usage	*What metadata standards (if any) do you expect to use?* No metadata standards are expected to be used for WP2 data.
2.2 Making data openly accessible	
2.2.1 Accessibility	*Which data will be made openly available? If some data is kept private, then say why. Refer to data types in section 1.3* All data can be made available. This will probably include the location of the samples, name, and size/mass.
2.2.2 Method of availability	*Specify how and where the data will be made available* Published along with the results/analysis of the data.
2.2.3 Methods/software needed to access the data	*Specify what methods/software tools are needed to access the documentation. If these are bespoke tools, is it included, along with the documentation on how to use the tools?* Probably only Microsoft Word and Excel.
2.2.4 Access control	*Specify how access will be controlled in case access to data is restricted* Via open-source methods of authorisation and authentication. Data access controls, such as passwords or firewalls, will be used to limit access to confidential data and protect it from unauthorised changes.
2.3 Making data interoperable	
2.3.1 Interoperability	*How interoperable will the data be? If appropriate, refer to data/metadata vocabularies/standards or methodologies, or whether you are mapping to more commonly used ontologies* Via the use of well-known formats such as those used by Microsoft Word and Excel.
2.4 Data re-use and quality	
2.4.1 Licensing	*Will the data be released under a license? If so, please specify the license that will be used* Data will be licensed using standard licenses (i.e., Creative Commons licenses) in line with the obligations set out in the Grant Agreement.

2.4.2 Data availability and Embargo	*When will the data be available for re-use? If an embargo will be used, specify the length of the embargo* WP2 data will be available after publication.
2.4.3 Re-use Restrictions	*Will there be any restrictions on the re-use of the data?* Permissions are provided through licenses (i.e., Creative Commons licenses) in line with the obligations set out in the Grant Agreement.
2.4.4 Data retention	*How long will the data be retained?* At least 5 years after the project ends.
2.4.5 Data quality	*Describe data quality assurance processes* Multiple authors involved in data creation and internal revision before submission to ensure the quality of deliverables and milestones (completeness, accuracy, relevance, appearance & structure).
3 Allocation of resources	
3.1 Costs	*Estimate the costs of making your data FAIR and how these costs will be met* All costs for making data FAIR are integrated within the project.
3.2 Data management responsibilities	*Which are the responsibilities within the project for data management?* Data collectors are all project partners collecting data for project research activities. Partner EGI is the partner responsible for data management.
3.3 Costs of preservation	*What are the costs of data preservation?* Long term preservation of data will be ensured by the project and by the partners themselves.
4 Data security	
4.1 Data security	*How will the security of the data be achieved? This should cover measures to retain and transfer the data* In all cases, data will be stored in at least two locations (i.e. the Universidade de Vigo repository, EC portal and LABPLAS webpage) to provide for data backup, recovery, and secure storage/archiving. Research data of limited use will be kept on secure, managed storage for a limited time. Transfer of sensitive data will use secure protocols (i.e. username and password, https://, ssh).
5 Ethical aspects	
5.1 Ethical aspects	*Specify whether there are any ethical aspects to the data management and where these are addressed* Informed consent statements for data sharing and long-term preservation will accompany questionnaires dealing with personal data and have been addressed within Deliverable 10.1 Humans – Protection of Personal Data. Where necessary data will be anonymised.
6 Other aspects	
6.1 Other aspects	*Specify any other national/funder/sectorial/departmental procedures for data management that you are using (if any)* Not applicable

WP3 Advanced Analysis

Work package	WP3 Advanced Analytics
Contact	Soledad Muniategui
1. Data summary	
1.1. Purpose of data collection/generation	*State the purpose of data collection* To fulfil the objectives of the project as defined in the Grant Agreement.
1.2. Relation to project objectives	*Explain data collection in relation to the objectives of the project* As in section 1.1
1.3. Types/format of data	*Specify the types of the data* SOPs, methodological guidelines and reports for MP isolation, characterisation and identification. *Specify the data format* .txt; .pdf; .dm3/.dm4; .tiff; .png .csv; .xlsx; .dat; .docx, .pptx
1.4 Origin of data or reuse of existing data	*Specify the origin of the data* Original (primary) data will be generated.
1.5 Scale of data	*Specify the estimated total amount of data generated* <500 GB
1.6 Data utility	*Specify to whom the data will be useful* The target groups include the members of the project and the consortium, the EC, external researchers, and the general public.
2. FAIR Data	
2.1. Making data findable, including provision for metadata	
2.1.1 Facilitating findability	*Outline your approach towards search keywords* Search keywords will be provided in the file/folder name, SOPs, guidelines, and reports such as MP detection, TWP, road dust.
2.1.2 Identifiability of data	*Do you expect to make use of identification mechanisms such as Digital Object Identifiers (DOIs)?* Possibly, for project outputs such as publications, SOPs, guidelines, and methodologies.
2.1.3 Versioning	*Do you expect to use versioning?* Yes.
2.1.4 Metadata usage	*What metadata standards (if any) do you expect to use?* Data generated by scientific equipment.
2.2 Making data openly accessible	
2.2.1 Accessibility	*Which data will be made openly available? If some data is kept private, then say why. Refer to data types in section 1.3* Data will be shared with the consortium partners to support the project work. All deliverables and milestones will be shared within the consortium and the EC. Public

	deliverables will be shared with everyone via the project website (https://labplas.eu/) and an open-data platform. Deliverables D3.1, D3.3 and D3.4 will be kept confidential due to intellectual property (IP) issues and may have restricted access in the repository.
2.2.2 Method of availability	*Specify how and where the data will be made available* Via the project website (https://labplas.eu/), scientific journals and the selected open access repositories.
2.2.3 Methods/software needed to access the data	*Specify what methods/software tools are needed to access the documentation. If these are bespoke tools, is it included, along with the documentation on how to use the tools?* Web browser for web content, open-source tools, and platforms.
2.2.4 Access control	*Specify how access will be controlled in case access to data is restricted* Via open-source methods of authorisation and authentication. Data access controls, such as passwords or firewalls, will be used to limit access to confidential data and protect it from unauthorised changes.
2.3 Making data interoperable	
2.3.1 Interoperability	*How interoperable will the data be? If appropriate, refer to data/metadata vocabularies/standards or methodologies, or whether you are mapping to more commonly used ontologies* Via the use of well-known formats such as those used by Microsoft Word and Excel.
2.4 Data re-use and quality	
2.4.1 Licensing	*Will the data be released under a license? If so, please specify the license that will be used* Data will be licensed using standard licenses (i.e. Creative Commons licenses) in line with the obligations set out in the Grant Agreement.
2.4.2 Data availability and Embargo	*When will the data be available for re-use? If an embargo will be used, specify the length of the embargo* Data used in publications will remain confidential until the date of publication.
2.4.3 Re-use Restrictions	*Will there be any restrictions on the re-use of the data?* Permissions are provided through licenses.
2.4.4 Data retention	*How long will the data be retained?* At least 5 years after the project ends.
2.4.5 Data quality	*Describe data quality assurance processes* Multiple authors involved in data creation and internal revision before submission to ensure the quality of deliverables and milestones (completeness, accuracy, relevance, appearance & structure).
3 Allocation of resources	
3.1 Costs	*Estimate the costs of making your data FAIR and how these costs will be met* All costs for making data FAIR are integrated within the project.

3.2 Data management responsibilities	*Which are the responsibilities within the project for data management?* Data collectors are all project partners collecting data for project research activities. Partner EGI is the partner responsible for data management.
3.3 Costs of preservation	*What are the costs of data preservation?* Long term preservation of data will be ensured by the project and by the partners themselves.
4 Data security	
4.1 Data security	*How will the security of the data be achieved? This should cover measures to retain and transfer the data* In all cases, data will be stored in at least two locations (i.e. the Universidade de Vigo repository, EC portal and LABPLAS webpage) to provide for data backup, recovery, and secure storage/archiving. Research data of limited use will be kept on secure, managed storage for a limited time. Transfer of sensitive data will use secure protocols (i.e. username and password, https://, ssh).
5 Ethical aspects	
5.1 Ethical aspects	*Specify whether there are any ethical aspects to the data management and where these are addressed* Informed consent statements for data sharing and long-term preservation will accompany questionnaires dealing with personal data and have been addressed within Deliverable 10.1 Humans – Protection of Personal Data. Where necessary data will be anonymised.
6 Other aspects	
6.1 Other aspects	*Specify any other national/funder/sectorial/departmental procedures for data management that you are using (if any)* Not applicable.

2.3 WP4 Smart Hubs

Work package	WP4 Smart Hubs
Contact	Begoña Espiña
1. Data summary	
1.1. Purpose of data collection/generation	*State the purpose of data collection* Data is collected in WP4 to fulfil the objectives of the project as defined in the Grant Agreement.
1.2. Relation to project objectives	*Explain data collection in relation to the objectives of the project* As in section 1.1
1.3. Types/format of data	*Specify the types of the data* • Standard operating procedures (SOPs) and reports for the fabrication of Surface Enhanced Raman Spectroscopy (SERS) substrates for monitoring of SMNPs, analytical methods for extraction of SMNPs from different matrices,

	SERS identification of the plastics, design and fabrication of the lab-on-a-chip device and the performance evaluation of these devices. ● Spectroscopic databases ● Optical and electron microscopy images ● Characterisation data (spectroscopic data, size distribution data, etc.). *Specify the data format* .txt; .spc; .pdf; .dm3/.dm4; .tiff; .png .csv; .xlsx; .dat; .docx, .pptx
1.4 Origin of data or reuse of existing data	*Specify the origin of the data* Original (primary) data will be generated to fulfil the deliverables of the WP4. The data will be acquired using scientific equipment (e.g., Raman confocal microscopy, electron microscopy, UV-Vis spectrophotometer, etc). Reports and SOPs will be carried out for the fabrication of SERS substrates for monitoring of submicron and nanoplastics; analytical methods for extraction of submicron and nanoplastics from different matrices; SERS identification of the plastics; design and fabrication of the lab-on-a-chip system.
1.5 Scale of data	*Specify the estimated total amount of data generated* <1 TB
1.6 Data utility	*Specify to whom the data will be useful* The target groups include the members of the project and the consortium, the EC, external researchers, research communities and the public.
2. FAIR Data	
2.1. Making data findable, including provision for metadata	
2.1.1 Facilitating findability	*Outline your approach towards search keywords* By including search keywords in the file/folder name involved in the database. In addition, we will include search keywords in the SOPs and reports such as nanoplastics, SERS, lab-on-a-chip, submicro plastics, microfabrication.
2.1.2 Identifiability of data	*Do you expect to make use of identification mechanisms such as Digital Object Identifiers (DOIs)?* Possibly, for project outputs such as publications, SOPs, guidelines, and methodologies and some open access data repositories generate DOI (e.g., ZENODO).
2.1.3 Versioning	*Do you expect to use versioning?* Yes (e.g., use of data collection to verify a research hypothesis in a publication).
2.1.4 Metadata usage	*What metadata standards (if any) do you expect to use?* Data generated in certain scientific equipment include metadata inside of the file/images (e.g., electron microscopy images, spectroscopic file) such as equipment information, date of data acquisition, units of measure, protocol information, etc.
2.2 Making data openly accessible	
2.2.1 Accessibility	*Which data will be made openly available? If some data is kept private, then say why. Refer to data types in section 1.3*

	Data will be available in an open-data platform (i.e., project website) and can therefore be used freely. Data will be shared with the consortium partners to support the project work. All deliverables and milestones will be shared within the consortium and the EC. Public deliverables will be shared with everyone via the project website (https://labplas.eu/). The data relating to internal processes involved in developing the LABPLAS lab-on-a-chip system, as it may have intellectual property (IP) issues, may have restricted access in the repository.
2.2.2 Method of availability	*Specify how and where the data will be made available* Via the project website (https://labplas.eu/) and the selected trusted open access institutional repositories (ZENODO at INL).
2.2.3 Methods/software needed to access the data	*Specify what methods/software tools are needed to access the documentation. If these are bespoke tools, is it included, along with the documentation on how to use the tools?* Web browser for web content, open-source tools for SOPs, reports files and experimental data (e.g., Fiji for .tiff and SpectraGryph for .spc, .cvs).
2.2.4 Access control	*Specify how access will be controlled in case access to data is restricted* Via open-source methods of authorisation and authentication. Data access controls, such as passwords or firewalls, will be used to limit access to confidential data and protect it from unauthorised changes.
2.3 Making data interoperable	
2.3.1 Interoperability	*How interoperable will the data be? If appropriate, refer to data/metadata vocabularies/standards or methodologies, or whether you are mapping to more commonly used ontologies* From nanosafety, we are using ontologies and descriptors described in eNanoMapper (https://www.enanomapper.net/wp/2-ontology-development; https://www.nature.com/articles/s41565-021-00911-6?proof=t)
2.4 Data re-use and quality	
2.4.1 Licensing	*Will the data be released under a license? If so, please specify the license that will be used* Data will be licensed using standard licenses (i.e., Creative Commons licenses) in line with the obligations set out in the Grant Agreement.
2.4.2 Data availability and embargo	*When will the data be available for re-use? If an embargo will be used, specify the length of the embargo* Data will be available straight after publication. However, the raw data for a publication must be uploaded to an open access repository (e.g., Zenodo) before the manuscript is accepted. Therefore, the data will be in the open access repository (e.g., Zenodo), but not accessible until the paper is accepted and a DOI is created (kind of embargo period).
2.4.3 Re-use Restrictions	*Will there be any restrictions on the re-use of the data?* Permissions are provided through licenses.
2.4.4 Data retention	*How long will the data be retained?*

	After the terminus of the project, the data will be maintained for 5 years (at least).
2.4.5 Data quality	*Describe data quality assurance processes* Internal revision before submission to validate data and to ensure the quality (completeness, accuracy, relevance, appearance & structure) of deliverables and milestones.
3 Allocation of resources	
3.1 Costs	*Estimate the costs of making your data FAIR and how these costs will be met* All costs for making data FAIR are integrated within the project.
3.2 Data management responsibilities	*Which are the responsibilities within the project for data management?* Data collectors are all project partners collecting data for project research activities. Partner EGI is the partner responsible for data management.
3.3 Costs of preservation	*What are the costs of data preservation?* Long term preservation of data will be ensured by the project and by the partners themselves.
4 Data security	
4.1 Data security	*How will the security of the data be achieved? This should cover measures to retain and transfer the data* In all cases, data will be stored in at least two locations (i.e., the Universidade de Vigo repository, EC portal and LABPLAS webpage) to provide for data backup, recovery, and secure storage/archiving. Research data of limited use will be kept on secure, managed storage for a limited time. Transfer of sensitive data will use secure protocols (i.e., username and password, https://, ssh).
5 Ethical aspects	
5.1 Ethical aspects	*Specify whether there are any ethical aspects to the data management and where these are addressed* Informed consent statements for data sharing and long-term preservation will accompany questionnaires dealing with personal data and have been addressed within Deliverable 10.1 Humans – Protection of Personal Data. Where necessary data will be anonymised.
6 Other aspects	
6.1 Other aspects	*Specify any other national/funder/sectorial/departmental procedures for data management that you are using (if any)* Not applicable

2.4 WP5 Biopolymers

Work package	WP5 Biopolymers
Contact	Chong Becker
1. Data summary	
1.1. Purpose of data collection/generation	*State the purpose of data collection*

	Data is collected in WP5 to fulfil the objectives of the project as defined in the Grant Agreement.
1.2. Relation to project objectives	*Explain data collection in relation to the objectives of the project* As in section 1.1
1.3. Types/format of data	*Specify the types of the data* Testing protocols, reports, presentations *Specify the data format* .txt, .pdf, .docx, .pptx, .odf, .tiff, .png, .csv, .xlsx, .dat, .dm3/.dm4
1.4 Origin of data or reuse of existing data	*Specify the origin of the data* Original (primary) data will be generated in WP5, including different kinds of polymer degradation tests and ecotoxicity tests, data will also come from other WPs and external sources (secondary data) for the LCA.
1.5 Scale of data	*Specify the estimated total amount of data generated* < 1TB
1.6 Data utility	*Specify to whom the data will be useful* The target groups include the project officer, the project consortium/members, the EC, external researchers, and the public.
2. FAIR Data	
2.1. Making data findable, including provision for metadata	
2.1.1 Facilitating findability	*Outline your approach towards search keywords* Search keywords will be used in documents and on hosting web pages such as biopolymers, biodegradable, ecotoxicity, degradation, LCA.
2.1.2 Identifiability of data	*Do you expect to make use of identification mechanisms such as Digital Object Identifiers (DOIs)?* Possibly, for project outputs such as publications.
2.1.3 Versioning	*Do you expect to use versioning?* Yes.
2.1.4 Metadata usage	*What metadata standards (if any) do you expect to use?* No metadata standards are expected to be used for WP5 data.
2.2 Making data openly accessible	
2.2.1 Accessibility	*Which data will be made openly available? If some data is kept private, then say why. Refer to data types in section 1.3* All deliverables and milestones are shared within the consortium (to support the project work) and the EC. Public deliverables are shared with everyone via the project website (https://labplas.eu/) and can therefore be used freely.
2.2.2 Method of availability	*Specify how and where the data will be made available* Via the project website (https://labplas.eu/), scientific journals and the selected open access repositories.

2.2.3 Methods/software needed to access the data	*Specify what methods/software tools are needed to access the documentation. If these are bespoke tools, is it included, along with the documentation on how to use the tools?* Web browser for web content, open-source tools for documents and experimental data.
2.2.4 Access control	*Specify how access will be controlled in case access to data is restricted* Via open-source methods of authorisation and authentication. Data access controls, such as passwords or firewalls, will be used to limit access to confidential data and protect it from unauthorised changes.
2.3 Making data interoperable	
2.3.1 Interoperability	*How interoperable will the data be? If appropriate, refer to data/metadata vocabularies/standards or methodologies, or whether you are mapping to more commonly used ontologies* Not applicable for data produced in WP5.
2.4 Data re-use and quality	
2.4.1 Licensing	*Will the data be released under a license? If so, please specify the license that will be used* Data will be licensed using standard licenses (i.e., Creative Commons licenses) in line with the obligations set out in the Grant Agreement.
2.4.2 Data availability and embargo	*When will the data be available for re-use? If an embargo will be used, specify the length of the embargo* Data used in publications will remain confidential until the date of publication.
2.4.3 Re-use Restrictions	*Will there be any restrictions on the re-use of the data?* Permissions are provided through licenses.
2.4.4 Data retention	*How long will the data be retained?* At least 5 years after the project ends.
2.4.5 Data quality	*Describe data quality assurance processes* Internal revision before submission to validate data and to ensure the quality (completeness, accuracy, relevance, appearance & structure) of deliverables and milestones.
3 Allocation of resources	
3.1 Costs	*Estimate the costs of making your data FAIR and how these costs will be met* All costs for making data FAIR are integrated within the project.
3.2 Data management responsibilities	*Which are the responsibilities within the project for data management?* Data collectors are all project partners collecting data for project research activities. Partner EGI is the partner responsible for data management.
3.3 Costs of preservation	*What are the costs of data preservation?* Long term preservation of data will be ensured by the project and by the partners themselves.
4 Data security	

4.1 Data security	*How will the security of the data be achieved? This should cover measures to retain and transfer the data* In all cases, data will be stored in at least two locations (i.e., the Universidade de Vigo repository, EC portal and LABPLAS webpage) to provide for data backup, recovery, and secure storage/archiving. Research data of limited use will be kept on secure, managed storage for a limited time. Transfer of sensitive data will use secure protocols (i.e., username and password, https://, ssh).
5 Ethical aspects	
5.1 Ethical aspects	*Specify whether there are any ethical aspects to the data management and where these are addressed* Informed consent statements for data sharing and long-term preservation will accompany questionnaires dealing with personal data and have been addressed within Deliverable 10.1 Humans – Protection of Personal Data. Where necessary data will be anonymised.
6 Other aspects	
6.1 Other aspects	*Specify any other national/funder/sectorial/departmental procedures for data management that you are using (if any)* Not applicable

2.5 WP6 Impact Assessment

Work package	WP6 Impact Assessment
Contact	Ricardo Beiras
1. Data summary	
1.1. Purpose of data collection/generation	*State the purpose of data collection* Data is collected in WP6 to fulfil the objectives of the project as defined in the Grant Agreement
1.2. Relation to project objectives	*Explain data collection in relation to the objectives of the project* As in section 1.1
1.3. Types/format of data	*Specify the types of the data* Compilation of test batteries and protocols for terrestrial, freshwater, and marine ecosystems; SOPs for ecotoxicological tests, ecotoxicological characterisation, E.R.A. *Specify the data format* .txt, pdf, .docx, .pptx, .odf, .tiff, .png, .csv, .xlsx, .dat, .dm3/.dm4
1.4 Origin of data or reuse of existing data	*Specify the origin of the data* Data will come from other WPs, external sources or produced within WP6 (from ecotoxicological tests) to fulfil the deliverables of WP6.
1.5 Scale of data	*Specify the estimated total amount of data generated* <500GB
1.6 Data utility	*Specify to whom the data will be useful*

	The target groups include the project officer, the project consortium/members, the EC, external researchers and the public.
2. FAIR Data	
2.1. Making data findable, including provision for metadata	
2.1.1 Facilitating findability	*Outline your approach towards search keywords* Search keywords will be used in documents and on hosting web pages such as ecotoxicity, biomonitoring, E.R.A.
2.1.2 Identifiability of data	*Do you expect to make use of identification mechanisms such as Digital Object Identifiers (DOIs)?* Possibly, for project outputs such as publications, protocols, SOPs, E.R.A.
2.1.3 Versioning	*Do you expect to use versioning?* Yes.
2.1.4 Metadata usage	*What metadata standards (if any) do you expect to use?* No metadata standards are expected to be used for WP6 data.
2.2 Making data openly accessible	
2.2.1 Accessibility	*Which data will be made openly available? If some data is kept private, then say why. Refer to data types in section 1.3* All deliverables and milestones are shared within the consortium (to support the project work) and with the EC. Public deliverables are shared with everyone via the project website (https://labplas.eu/) and can therefore be used freely.
2.2.2 Method of availability	*Specify how and where the data will be made available* Via the project website (https://labplas.eu/), scientific journals and the selected open access repositories.
2.2.3 Methods/software needed to access the data	*Specify what methods/software tools are needed to access the documentation. If these are bespoke tools, is it included, along with the documentation on how to use the tools?* Web browser for web content, open-source tools for documents and experimental data.
2.2.4 Access control	*Specify how access will be controlled in case access to data is restricted* Via open-source methods of authorisation and authentication. Data access controls, such as passwords or firewalls, will be used to limit access to confidential data and protect it from unauthorised changes.
2.3 Making data interoperable	
2.3.1 Interoperability	*How interoperable will the data be? If appropriate, refer to data/metadata vocabularies/standards or methodologies, or whether you are mapping to more commonly used ontologies* Not applicable for data produced in WP6.
2.4 Data re-use and quality	
2.4.1 Licensing	*Will the data be released under a license? If so, please specify the license that will be used*

	Data will be licensed using standard licenses (i.e., Creative Commons licenses) in line with the obligations set out in the Grant Agreement.
2.4.2 Data availability and embargo	*When will the data be available for re-use? If an embargo will be used, specify the length of the embargo* Data used in publications will remain confidential until the date of publication.
2.4.3 Re-use restrictions	*Will there be any restrictions on the re-use of the data?* Permissions are provided through licenses.
2.4.4 Data retention	*How long will the data be retained?* At least 5 years after the project ends.
2.4.5 Data quality	*Describe data quality assurance processes* Internal revision before submission to validate data and to ensure the quality (completeness, accuracy, relevance, appearance & structure) of deliverables and milestones.
3 Allocation of resources	
3.1 Costs	*Estimate the costs of making your data FAIR and how these costs will be met* All costs for making data FAIR are integrated within the project.
3.2 Data management responsibilities	*Which are the responsibilities within the project for data management?* Data collectors are all project partners collecting data for project research activities. Partner EGI is the partner responsible for data management.
3.3 Costs of preservation	*What are the costs of data preservation?* Long term preservation of data will be ensured by the project and by the partners themselves.
4 Data security	
4.1 Data security	*How will the security of the data be achieved? This should cover measures to retain and transfer the data* In all cases, data will be stored in at least two locations (i.e., the Universidade de Vigo repository, EC portal and LABPLAS webpage) to provide for data backup, recovery, and secure storage/archiving. Research data of limited use will be kept on secure, managed storage for a limited time. Transfer of sensitive data will use secure protocols (i.e., username and password, https://, ssh).
5 Ethical aspects	
5.1 Ethical aspects	*Specify whether there are any ethical aspects to the data management and where these are addressed* Informed consent statements for data sharing and long-term preservation will accompany questionnaires dealing with personal data and have been addressed within Deliverable 10.1 Humans – Protection of Personal Data. Where necessary data will be anonymised.
6 Other aspects	
6.1 Other aspects	*Specify any other national/funder/sectorial/departmental procedures for data management that you are using (if any)* Not applicable

2.6 WP7 Modelling

Work package	WP7 Modelling
Contact	Erik Toorman
1. Data summary	
1.1. Purpose of data collection/generation	*State the purpose of data collection* To develop models (no models without data).
1.2. Relation to project objectives	*Explain data collection in relation to the objectives of the project* Data is collected to set up the different models in WP7, to define their initial and boundary conditions, and to store results data for future reproduction of the model outcomes.
1.3. Types/format of data	*Specify the types of the data* Model description reports Model results Settling test experimental data *Specify the data format* Reports: text files (Word or Latex) Numeric data: ASCII or Excel sheets
1.4 Origin of data or reuse of existing data	*Specify the origin of the data* Data will come from other WPs, external sources or produced within this WP7.
1.5 Scale of data	*Specify the estimated total amount of data generated* <2TB
1.6 Data utility	*Specify to whom the data will be useful* The data will be useful for the reproduction of the model simulations, the analysis and interpretation of model results. The data will be useful for researchers, decision-makers, the EC.
2. FAIR Data	
2.1. Making data findable, including provision for metadata	
2.1.1 Facilitating findability	*Outline your approach towards search keywords* Search keywords will be provided to search for and successfully find WP7 outputs.
2.1.2 Identifiability of data	*Do you expect to make use of identification mechanisms such as Digital Object Identifiers (DOIs)?* Possibly.
2.1.3 Versioning	*Do you expect to use versioning?* Versioning of the models will happen on their versioning system (GitHub or SVN).
2.1.4 Metadata usage	*What metadata standards (if any) do you expect to use?* No metadata standards are expected to be used in WP7.
2.2 Making data openly accessible	

2.2.1 Accessibility	*Which data will be made openly available? If some data is kept private then say why. Refer to data types in section 1.3* All data generated within this WP will be made openly available.
2.2.2 Method of availability	*Specify how and where the data will be made available* External data will be linked to their repository.
2.2.3 Methods/software needed to access the data	*Specify what methods/software tools are needed to access the documentation. If these are bespoke tools, is it included, along with the documentation on how to use the tools?* No special tools are needed. Data will be available in Excel sheets or ASCII format.
2.2.4 Access control	*Specify how access will be controlled in case access to data is restricted* Internal data will not be restricted. External data will be controlled by the rules of their repository.
2.3 Making data interoperable	
2.3.1 Interoperability	*How interoperable will the data be? If appropriate, refer to data/metadata vocabularies/standards or methodologies, or whether you are mapping to more commonly used ontologies* Not applicable for the data produced in WP7.
2.4 Data re-use and quality	
2.4.1 Licensing	*Will the data be released under a license? If so, please specify the license that will be used* Data will be licensed using standard licenses (i.e., Creative Commons licenses) in line with the obligations set out in the Grant Agreement.
2.4.2 Data availability and embargo	*When will the data be available for re-use? If an embargo will be used, specify the length of the embargo* Available by the end of the project, without embargo.
2.4.3 Re-use restrictions	*Will there be any restrictions on the re-use of the data?* Permissions are provided through licenses.
2.4.4 Data retention	*How long will the data be retained?* At least 5 years after the end of the project
2.4.5 Data quality	*Describe data quality assurance processes* Internal revision before submission to validate data and to ensure the quality (completeness, accuracy, relevance, appearance & structure) of deliverables and milestones.
3 Allocation of resources	
3.1 Costs	*Estimate the costs of making your data FAIR and how these costs will be met* All costs for making data FAIR are integrated within the project.
3.2 Data management responsibilities	*Which are the responsibilities within the project for data management?* Data collectors are all project partners collecting data for project research activities. Partner EGI is the partner responsible for data management.

3.3 Costs of preservation	*What are the costs of data preservation?* Long term preservation of data will be ensured by the project and by the partners themselves.
4 Data security	
4.1 Data security	*How will the security of the data be achieved? This should cover measures to retain and transfer the data* In all cases, data will be stored in at least two locations (i.e., the Universidade de Vigo repository, EC portal and LABPLAS webpage) to provide for data backup, recovery, and secure storage/archiving. Research data of limited use will be kept on secure, managed storage for a limited time. Transfer of sensitive data will use secure protocols (i.e., username and password, https://, ssh).
5 Ethical aspects	
5.1 Ethical aspects	*Specify whether there are any ethical aspects to the data management and where these are addressed* Informed consent statements for data sharing and long-term preservation will accompany questionnaires dealing with personal data and have been addressed within Deliverable 10.1 Humans – Protection of Personal Data. Where necessary data will be anonymised.
6 Other aspects	
6.1 Other aspects	*Specify any other national/funder/sectorial/departmental procedures for data management that you are using (if any)* Not applicable

2.7 WP8 Plastics Governance

Work package	WP8 Plastics Governance
Contact	Ad Ragas
1. Data summary	
1.1. Purpose of data collection/generation	*State the purpose of data collection* Involving stakeholders in the case studies; to obtain information on 2 supply chains (case studies) to demonstrate how LABPLAS tools can be used in collaboration with stakeholders to reduce microplastics emissions.
1.2. Relation to project objectives	*Explain data collection in relation to the objectives of the project* Demonstrate how LABPLAS tools can be used in a practical context
1.3. Types/format of data	*Specify the types of the data* Stakeholders' list/register, supply chain maps, emission data, inventory of mitigation measures and/or potential interventions, online training course *Specify the data format* .docx, .pdf, graphs (flow charts), .xls, .csv
1.4 Origin of data or reuse of existing data	*Specify the origin of the data*

	Secondary data (internet, public literature, stakeholders) and primary data generated in WP8
1.5 Scale of data	*Specify the estimated total amount of data generated* < 500 GB
1.6 Data utility	*Specify to whom the data will be useful* LABPLAS partners (internal use), stakeholders involved in supply chains, external researchers and research communities, policymakers
2. FAIR Data	
2.1. Making data findable, including provision for metadata	
2.1.1 Facilitating findability	*Outline your approach towards search keywords* Search keywords will be used in the published documents (deliverables and articles) to search for and successfully find WP8 outputs.
2.1.2 Identifiability of data	*Do you expect to make use of identification mechanisms such as Digital Object Identifiers (DOIs)?* Scientific publications will have a DOI
2.1.3 Versioning	*Do you expect to use versioning?* Yes, for deliverables. Not for scientific publications.
2.1.4 Metadata usage	*What metadata standards (if any) do you expect to use?* No metadata standards will be used.
2.2 Making data openly accessible	
2.2.1 Accessibility	*Which data will be made openly available? If some data is kept private, then say why. Refer to data types in section 1.3* All data generated in the project will be openly available. Data used in publications will remain confidential until the date of publication. Contact details of stakeholders will remain confidential. Confidential data provided by third parties (stakeholders) will remain confidential.
2.2.2 Method of availability	*Specify how and where the data will be made available* Public project deliverables, scientific publications, training material through the LABPLAS website (https://labplas.eu/) and partner websites.
2.2.3 Methods/software needed to access the data	*Specify what methods/software tools are needed to access the documentation. If these are bespoke tools, is it included, along with the documentation on how to use the tools?* No special software is required. Typically, Word and Excel. .csv files can be opened with Excel and/or R.
2.2.4 Access control	*Specify how access will be controlled in case access to data is restricted* Via open-source methods of authorisation and authentication. Data access controls, such as passwords or firewalls, will be used to limit access to confidential data and protect it from unauthorised changes.
2.3 Making data interoperable	

2.3 Interoperability	*How interoperable will the data be? If appropriate, refer to data/metadata vocabularies/standards or methodologies, or whether you are mapping to more commonly used ontologies* .csv files can be imported to any platform having an import function for .csv files.
2.4 Data re-use and quality	
2.4.1 Licensing	*Will the data be released under a license? If so, please specify the license that will be used* Data will be licensed using standard licences (i.e., Creative Commons licences) in line with the obligations set out in the Grant Agreement.
2.4.2 Data availability and Embargo	*When will the data be available for re-use? If an embargo will be used, specify the length of the embargo* Data will be available from the moment the deliverable is published. In case a scientific publication is being prepared from the data, the data will become available the moment the publication is published.
2.4.3 Re-use Restrictions	*Will there be any restrictions on the re-use of the data?* Permissions are provided through licenses.
2.4.4 Data retention	*How long will the data be retained?* Typically, at least 5 years on the servers of RU (for publication-related data).
2.4.5 Data quality	*Describe data quality assurance processes* Regular quality assurance procedures for scientific research (peer review by colleagues, supervisors and peers).
3 Allocation of resources	
3.1 Costs	*Estimate the costs of making your data FAIR and how these costs will be met* All costs for making data FAIR are integrated within the project.
3.2 Data management responsibilities	*Which are the responsibilities within the project for data management?* Data collectors are all project partners collecting data for project research activities. Partner EGI is the partner responsible for data management.
3.3 Costs of preservation	*What are the costs of data preservation?* Long term preservation of data will be ensured by the project and by the partners themselves.
4 Data security	
4.1 Data security	*How will the security of the data be achieved? This should cover measures to retain and transfer the data* In all cases, data will be stored in at least two locations (i.e., the Universidade de Vigo repository, EC portal and LABPLAS webpage) to provide for data backup, recovery, and secure storage/archiving. Research data of limited use will be kept on secure, managed storage for a limited time. Transfer of sensitive data will use secure protocols (i.e., username and password, https://, ssh).
5 Ethical aspects	
5.1 Ethical aspects	*Specify whether there are any ethical aspects to the data management and where these are addressed*

	Informed consent statements for data sharing and long-term preservation will accompany questionnaires dealing with personal data and have been addressed within Deliverable 10.1 Humans – Protection of Personal Data. Where necessary data will be anonymised.
6 Other aspects	
6.1 Other aspects	*Specify any other national/funder/sectorial/departmental procedures for data management that you are using (if any)* Not applicable

2.8 WP9 COMMUNICATIONS

Work package	WP9 Communication
Contact	Nuria Valdés
1. Data summary	
1.1. Purpose of data collection/generation	*State the purpose of data collection* To share information. To raise public and scientific awareness about the outcomes of the project and the developments achieved and to maximise the impact of the project's results through appropriate exploitation strategies.
1.2. Relation to project objectives	*Explain data collection in relation to the objectives of the project* To ensure that the project's objectives are widely promoted to the target groups defined on a European level and beyond through an appropriate communication strategy.
1.3. Types/format of data	*Specify the types of the data* The project website, press releases, brochures, business models, exploitation plan, posters, presentations. *Specify the data format* text files, multimedia, .pdf, .pptx, .odf, .xls, .mp3, .mp4
1.4 Origin of data or reuse of existing data	*Specify the origin of the data* Data is provided by project members and generated within the project.
1.5 Scale of data	*Specify the estimated total amount of data generated* <1 TB
1.6 Data utility	*Specify to whom the data will be useful* The public in general, researchers, research communities, decision-makers, industry.
2. FAIR Data	
2.1. Making data findable, including provision for metadata	
2.1.1 Facilitating findability	*Outline your approach towards search keywords* Search keywords will be provided to search for and successfully find WP9 outputs, such as SMNPs, polymers, plastics.
2.1.2 Identifiability of data	*Do you expect to make use of identification mechanisms such as Digital Object Identifiers (DOIs)?*

	Not likely.
2.1.3 Versioning	*Do you expect to use versioning?* Yes.
2.1.4 Metadata usage	*What metadata standards (if any) do you expect to use?* No metadata standards will be used for WP9 data.
2.2 Making data openly accessible	
2.2.1 Accessibility	*Which data will be made openly available? If some data is kept private, then say why. Refer to data types in section 1.3* WP9 outputs will be made openly available.
2.2.2 Method of availability	*Specify how and where the data will be made available* Online
2.2.3 Methods/software needed to access the data	*Specify what methods/software tools are needed to access the documentation. If these are bespoke tools, is it included, along with the documentation on how to use the tools?* Web browser for web content, open-source tools for documents.
2.2.4 Access control	*Specify how access will be controlled in case access to data is restricted* n/a
2.3 Making data interoperable	
2.3 Interoperability	*How interoperable will the data be? If appropriate, refer to data/metadata vocabularies/standards or methodologies, or whether you are mapping to more commonly used ontologies* n/a
2.4 Data re-use and quality	
2.4.1 Licensing	*Will the data be released under a license? If so, please specify the license that will be used* Data will be licensed using standard licenses (i.e., Creative Commons licenses) in line with the obligations set out in the Grant Agreement.
2.4.2 Data availability and Embargo	*When will the data be available for re-use? If an embargo will be used, specify the length of the embargo* WP9 data will be available straight after publication.
2.4.3 Re-use Restrictions	*Will there be any restrictions on the re-use of the data?* Permissions are provided through licenses.
2.4.4 Data retention	*How long will the data be retained?* At least 5 years after the project ends.
2.4.5 Data quality	*Describe data quality assurance processes* Multiple authors involved in data creation and internal revision before publishing.
3 Allocation of resources	
3.1 Costs	*Estimate the costs of making your data FAIR and how these costs will be met* All costs for making data FAIR are integrated within the project.

3.2 Data management responsibilities	*Which are the responsibilities within the project for data management?* Data collectors are all project partners collecting data for project research activities. Partner EGI is the partner responsible for data management.
3.3 Costs of preservation	*What are the costs of data preservation?* Long term preservation of data will be ensured by the project and by the partners themselves.
4 Data security	
4.1 Data security	*How will the security of the data be achieved? This should cover measures to retain and transfer the data* In all cases, data will be stored in at least two locations (i.e., the Universidade de Vigo repository, EC portal and LABPLAS webpage) to provide for data backup, recovery, and secure storage/archiving. Research data of limited use will be kept on secure, managed storage for a limited time. Transfer of sensitive data will use secure protocols (i.e., username and password, https://, ssh).
5 Ethical aspects	
5.1 Ethical aspects	*Specify whether there are any ethical aspects to the data management and where these are addressed* Informed consent statements for data sharing and long-term preservation will accompany questionnaires dealing with personal data and have been addressed within Deliverable 10.1 Humans – Protection of Personal Data. Where necessary data will be anonymised.
6 Other aspects	
6.1 Other aspects	*Specify any other national/funder/sectorial/departmental procedures for data management that you are using (if any)* Not applicable