



TREASURE

D9.1: Data Management Plan

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Technical References

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EXECUTIVE SUMMARY

The main aim of the TREASURE project is testing innovative technologies to make the automotive sector more circular. To this aim, TREASURE wants to implement an AI-based scenario assessment tool supporting the development of circular supply chains in the automotive sector. Through a set of success stories coming from the application of circular economy principles in three key automotive-related value chains, TREASURE wants to demonstrate in practice the real benefits coming from the adoption of circular behaviours. In addition, Key Enabling Technologies (KETs) will be integrated within the selected processes to support the efficient design of car electronics and its subsequent disassembly and materials recovery. Deliverable 9.1 “Data Management Plan” is part of the activities of WP9 “Project Management”. The objective of this document is to provide a Data Management Plan (DMP) outlining how the data collected and generated by each partner have been managed during (and will be managed after) the project. In general terms, all data will be maintained locally in partners’ servers. In addition, data collected, shared and managed through a common Microsoft OneDrive folder supporting both pilot plant and use cases’ activities have been embedded in this document.

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1. Introduction

The purpose of the Data Management Plan (DMP) is to provide an analysis of the main elements of the data management policy that will be used by the project partners about all the datasets that will be generated by the TREASURE project. Given the inclusion of open access research data within the H2020 Programme, this document represents a compulsory requirement. The DMP is not a fixed document but evolves during the lifespan of the project. The DMP addresses the points below on a dataset-by-dataset basis and reflects the status of reflection within the consortium about the data that have been produced. D9.1 relates with other deliverables under the following terms:

- It's linked with WP1 in terms of data collected and created during the reference framework definition.
- It's linked with WP2 in terms of data collected, created and managed during the assessment of circularity performances.
- It's linked with WP3 in terms of data collected, created and managed during the digitalization of the automotive value chain.
- It's linked with WP4 in terms of collected data needed to develop the TREASURE AI-based platform.
- It's linked with WP5 and WP6 in terms of data collected, generated and managed during testing, optimization, validation and demonstration of different pilot plants.
- It's linked with WP7 in terms of data collected and created to develop publications about TREASURE results.
- It's linked with WP8 in terms of data collected to define exploitation and IPR strategies.
- It's linked with WP9 in terms of all the data collected and created in order to correctly manage the whole project.

Within the TREASURE project, the DMP of each partner (under the form of a table) will follow a similar template. The following list describe each field constituting it:

- COLLECTED/CREATED: each partner should define if data/metadata/exploitable result have been collected from other sources or created during the project.
- NAME: each data/metadata/exploitable result collected or created during the project must be named accordingly.
- DESCRIPTION: a brief description of data/metadata/exploitable result collected or created during the project.
- CATEGORY: a categorization of data/metadata/exploitable result collected or created during the project, by selecting one of the followings: FW-freeware, SW-software, Algorithm, Raw Data, Dissemination material, etc.
- TYPE: the type of data/metadata/exploitable result collected or created during the project, by selecting one of the followings: Document, Video, Images, Source code, etc;
- FORMAT: the file extension identifying data/metadata/exploitable result collected or created during the project.
- SIZE: the file dimension of data/metadata/exploitable result collected or created during the project, expressed in MB or GB.
- OWNER: the institution owning the specific data/metadata/exploitable result collected or created during the project.
- PRIVACY LEVEL: the level of shareability of the specific data/metadata/exploitable result collected or created during the project, by selecting one of the followings: Public, Consortium, Partner, etc.

- REPOSITORY DURING THE PROJECT (FOR PRIVATE/PUBLIC ACCESS): the physical location of data/metadata/exploitable result collected or created during the project, by selecting among open access repository, partner storage (private cloud/private drop box), etc.
- BACK-UP FREQUENCY: the frequency of updating data/metadata/exploitable result collected or created during the project, by selecting among daily, monthly, yearly or once.
- DESTROYED AT THE END OF THE PROJECT? this element explains if data/metadata/exploitable result collected or created during the project will be (or not) maintained after the end of the project.
- DURATION OF PRESERVATION (IN YEARS): if data/metadata/exploitable result collected or created during the project will be maintained, each partner must define for how many years they will be available.
- REPOSITORY AFTER THE PROJECT: the physical location of data/metadata/exploitable result collected or created during the project after its conclusion, by selecting among open access repository, partner storage (private cloud/private drop box), etc.

Collect ed / Create d	Na me	Descri ption	Cate gory	Type	For mat	Size	Owner	Priv acy leve l	Repositor y during the project (for private/p ublic access)	Back-up freque ncy	Destroy ed at the end of the project ?	Duration of preservat ion (in years)	Reposit ory after the project

2. The TREASURE Data Management Plan

This section reports the DMP of TREASURE. It is structured in two different sections, a common data sharing folder and a set of individual actions. Given the need to connect several inputs/outputs in a unique platform and demonstrate in practice the selected circular business models, a common (online-based) data sharing folder has been opened on Microsoft OneDrive in order to virtually link all the pilot plants and use cases involved in TREASURE. In parallel to the common Microsoft OneDrive folder, each partner involved in TREASURE developed (since the beginning of the project) an individual DMP, by describing into detail any kind of data generated, shared, stored and managed internally. These individual plans are listed in section 2.1.

1.1. Individual Data Management Plans

The following tables report the Data Management Plans of individual partners. They are sorted according to the partner who is responsible for the data. These Data Management Plans have been periodically reviewed and regularly updated.

1.1.1. Data Management Plan – POLIMI

Table1: POLIMI’s DMP

Collected / Created	Name	Description	Category	Type	Format	Size	Owner	Privacy level	Repository during the project (for private/public access)	Back-up frequency	Destroyed at the end of the project?	Duration of preservation (in years)	Repository after the project
Created	Operational energetic data	Energetic data collected during collaborative desoldering operations	Raw data	Raw Dataset	CSV, INFLUXDB	MB	POLIMI	Consortium	Partner Storage (Private)	Once	No	1 Years	POLIMI cloud
Created	Desoldering data	Operational data created during PCB desoldering operations	Raw and pre-elaborated data	Spread sheet	XSLX, CSV	MB	POLIMI	Consortium	Partner storage (private)	Once	No	5 years	Partner Storage (DropBox)
Collected	Classification Scheme	Classification of circular business models	Framework	Document, Spreadsheet	DOC, DOCX, XLS, XLSX	MB	POLIMI	Consortium	Partner Storage (Private)	Once	No	5 Years	Partner Storage (DropBox)

1.1.2. Data Management Plan – TNO

Table2: TNO’s DMP



Collected / Created	Name	Description	Category	Type	Format	Size	Owner	Privacy level	Repository during the project (for private/public access)	Back-up frequency	Destroyed at the end of the project?	Duration of preservation (in years)	Repository after the project
Created	Materials overview & data	Data for materials used in key enabling technology: IMSE	Raw data and datasheets	Pdf & spreadsheets	CSV, XLS, XLSX, PDF	MB	TNO	Consortium, public after LCA publishing (2023)	Partner Storage (Private)	Once	No	5 years	Partner Storage (DropBox)
Created	Device fabrication scheme S2S and R2R using pre-pilot line	Process Flow with processes, temperatures, machinery etc	Raw and pre-elaborated data	Pdf or doc & spreadsheets	CSV, XLS, XLSX, doc/PDF	MB	TNO	Consortium, public after LCA publishing (2023)	Partner Storage (Private)	Once	No	5 years	Partner Storage (DropBox)

1.1.3. Data Management Plan – UNIZAR

Table3: UNIZAR's DMP

Collected / Created	Name	Description	Category	Type	Format	Size	Owner	Privacy level	Repository during the project (for private/public access)	Back-up frequency	Destroyed at the end of the project?	Duration of preservation (in years)	Repository after the project
Collected	Classification of metals by car parts	Assessment of the critical metals involved in the manufacturing of vehicles	Raw data	Spreadsheet	XSLX, CSV	MB	UNIZAR	Consortium	Partner storage (private)	Once	No	5 years	Partner storage (private)



Collected	Newsletter contacts	Contact data provided by newsletter's subscribers	Raw data	Spreadsheet	XSLX, CSV	MB	UNIZAR	Partner	Partner storage (private)	6-Monthly	No	1 year	Partner storage (private)
Collected	Events contacts	Contact data provided by the attendants to events	Raw data	Spreadsheet	XSLX, CSV	MB	UNIZAR	Partner	Partner storage (private)	Once (per event)	No	1 year	Partner storage (private)
Collected	Events images and video	Footage collected during events and meetings	Raw data	Images and video	JPG, PNG, WMV/WM A, MOV, AVI	GB	UNIZAR	Partner	Partner storage (private)	Once (per event)	No	1 year	Partner storage (private)

1.1.4. Data Management Plan – SUPSI

Table4: SUPSI's DMP

Collected / Created	Name	Description	Category	Type	Format	Size	Owner	Privacy level	Repository during the project (for private/public access)	Back-up frequency	Destroyed at the end of the project?	Duration of preservation (in years)	Repository after the project
Created	Shared project reference framework	Online Miro board containing the project reference framework developed in T1.1 and agreed with the consortium.	Raw data	Images and charts	Web page convertible to .png or .pdf	MB	SUPSI	Consortium	Miro board accessible online (private access upon request, link shared only with TREASURE consortium)	6-monthly	Yes	n/a	n/a



Created	Sustainability and circularity assessment and advisory profiles	Product and scenarios sustainable and circular profiles resulting from the eco-design, dismantling, and recycling modules and advisory	Elaborated data	Charts, spreadsheet	XSLX, DOCX, PDF	MB	SUPSI	Consortium	Partner storage (private) + TREASURE Platform	Once	No	5 years	Partner Storage (OneDrive) + TREASURE Platform
Collected	Inventory and input data for sustainability and circularity assessment and advisory	Input to impact assessment and advisory modules (from both processes and vehicle components)	Raw and pre-elaborated data	Raw Dataset, spreadsheet	DOC, DOCX, XLS, XLSX + PLM/CADx data formats	MB	Data providers (Use cases partners)	Consortium	TREASURE Platform + Partner storage (Private)	Once	Yes	n/a	n/a

1.1.5. Data Management Plan – UNIVAQ

Table1: UNIVAQ's DMP

Collected / Created	Name	Description	Category	Type	Format	Size	Owner	Privacy level	Repository during the project (for private/public access)	Back-up frequency	Destroyed at the end of the project?	Duration of preservation (in years)	Repository after the project
Created	Lab-scale research data on hydrometallurgical processes	Experimental data regarding hydrometallurgical processes on different materials	Raw data	Document, Spreadsheets	XLS, DOC, PDF	MB	UNIVAQ	consortium	UNIVAQ cloud	weekly	No	5 years	UNIVAQ cloud



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Created	Pilot plant reconfiguration	Pilot plant reconfiguration based on lab-scale activities	Raw data	AutoCAD, Document	CAD, DWG, PDF, DOC	MB	UNIVAQ	public	UNIVAQ cloud	once	No	5 years	UNIVAQ cloud
Created	Pilot plant research activities	Testing and optimization of recovery	Raw data	Document, Spread sheets	XLS, DOC, PDF	MB	UNIVAQ	public	UNIVAQ cloud	weekly	No	5 years	UNIVAQ cloud



		processes on pilot scale											
Created	Recycling process flowsheets	Flowsheets and simulation files of the recycling processes	Software	Documents, images, simulations reports and schemes	DOC, JPG, SPD	MB	UNIVAQ	consortium	UNIVAQ cloud	once	no	5 years	Partner Storage (Dropbox)

1.1.6. Data Management Plan – MARAS

Table1: MARAS's DMP

Collected / Created	Name	Description	Category	Type	Format	Size	Owner	Privacy level	Repository during the project (for private/public access)	Back-up frequency	Destroyed at the end of the project?	Duration of preservation (in years)	Repository after the project
Created	Recycling/recovery data (KPI's for recycling)	Calculated recycling/recovery rates by development and application of HSC Sim recycling simulation models: KPI's for recycling	Raw calculated data	HSC Sim results transferred to spreadsheet	HSC Sim Xls, xlsx	MB	MARAS	Consortium	Partner storage (private)	Yearly	No	5 years	Partner Storage (DropBox)
Created/collected	Extensive recycling processing flowsheets	Extensive recycling processing flowsheets covering the	SW-software Algorithm	HSC Sim source code (not shared),	HSC Sim, converted to	MB	MARAS	Partner	Partner storage (private)	Yearly	No	5 years	Partner Storage



		entire recycling chain based on industrial experience – modelled in recycling simulation models		Images, Document	docs/pdf/ppts								
Created	Simulation models	Recycling simulation models predicting recycling/recovery rates and indicating best suitable BAT	SW-software Algorithm	HSC Sim source code (not shared), Images, Document	HSC Sim Converted to docs/ppts/pdfs	MB	MARAS	Partner	Partner storage (private)	Yearly	No	5 years	Partner Storage

1.1.7. Data Management Plan – EDGE

Table1: EDGE’s DMP

Collected / Created	Name	Description	Category	Type	Format	Size	Owner	Privacy level	Repository during the project (for private/public access)	Back-up frequency	Destroyed at the end of the project?	Duration of preservation (in years)	Repository after the project
Created	The TREASURE semantic social network	The annotated corpus of the ethnography feeding into D2.3	Raw data	tabular	CSV	~10 MB	authors of the study	public	edgeryders.eu API (no public access)	daily	nope	As long as CERN endures (in pseudonymized form)	zenodo.org



1.1.8. Data Management Plan – EUROLCDS

Table1: EUROLCDS’s DMP

Collected / Created	Name	Description	Category	Type	Format	Size	Owner	Privacy level	Repository during the project (for private/public access)	Back-up frequency	Destroyed at the end of the project?	Duration of preservation (in years)	Repository after the project
Created	Liquid crystal recycling	Report on acquired LC re-usage in display production and testing	Raw data	Document, images, tables, charts	.doc, .pdf	NA	EUROLCD S	Consortium	Private	Once	No	5	EUROLCDS server
Collected/ Created	Project eligible cost reports	Accounting data set on eligible project costs	Collected data	Document	.pdf, .xlsx, .doc	NA	EUROLCD S	Partner	Private	Monthly	No	10	EUROLCDS server, paper form documents

1.1.9. Data Management Plan – WALTER

Table1: WALTER’s DMP

Collected / Created	Name	Description	Category	Type	Format	Size	Owner	Privacy level	Repository during the project (for private/public access)	Back-up frequency	Destroyed at the end of the project?	Duration of preservation (in years)	Repository after the project
Created	Printing process-Parameters of machine	Parameters of printing machine collected during screen	Raw Data	Raw Dataset	XLSX	MB	WALTER PACK	Consortium	Partner Storage (Private)	Once	No	1 year	WALTER cloud



		printing process											
Created	Printing process- Colour measurement	Verify if the colour is within the tolerances	Raw Data	Raw Dataset	XLSX	MB	WALTER PACK	Consortium	Partner Storage (Private)	Once	No	1 year	WALTER cloud
Created	Printing process- Electronic functionality	Verify the functionality of the capacitive foil	Raw Data	Raw Dataset	DOCX	MB	WALTER PACK	Consortium	Partner Storage (Private)	Once	No	1 year	Partner Storage (Drobox)
Created	Thermoforming process- Parameters of machine	Parameters of forming machine collected during thermoforming process	Raw Data	Raw Dataset	XLSX	MB	WALTER PACK	Consortium	Partner Storage (Private)	Once	No	1 year	WALTER cloud
Created	Thermoforming process- Logo deviation measurement	Verify if the logos are within the tolerances	Raw Data	Raw Dataset, Image	XLSX, PDF	MB	WALTER PACK	Consortium	Partner Storage (Private)	Once	No	1 year	WALTER cloud
Created	Cutting Process- Parameters of machine	Parameters of machine collected during screen cutting	Raw Data	Raw Dataset	XLSX	MB	WALTER PACK	Consortium	Partner Storage (Private)	Once	No	1 year	WALTER cloud
Created	Injection Process- Parameters of machine	Parameters of backmolding machine collected during injection	Raw Data	Raw Dataset	XLSX	MB	WALTER PACK	Consortium	Partner Storage (Private)	Once	No	1 year	WALTER cloud



1.1.10. Data Management Plan – POLLINI

Table1: POLLINI’s DMP

Collected / Created	Name	Description	Category	Type	Format	Size	Owner	Privacy level	Repository during the project (for private/public access)	Back-up frequency	Destroyed at the end of the project?	Duration of preservation (in years)	Repository after the project
Created / Collected	Disassembling operations data	Operation data created during the disassembly of vehicles	Framework	Raw Dataset, Document, Spreadsheet	CSV, DOC, DOCX, XLS, XLSX	MB	POLLINI	Consortium	Partner Storage (Private)	Once	No	10 Years	Partner Storage (Private)

1.1.11. Data Management Plan – SEAT

Table1: SEAT’s DMP

Collected / Created	Name	Description	Category	Type	Format	Size	Owner	Privacy level	Repository during the project (for private/public access)	Back-up frequency	Destroyed at the end of the project?	Duration of preservation (in years)	Repository after the project
Created	Mass and Thermodynamic Rarity Assessment of SEAT vehicles	For each SEAT vehicle, mass and thermodynamic rarity of car parts is analyzed	Raw Data	Document	XLS	MB	SEAT	Consortium	Partner storage (private)	Once	No	5 years	Partner storage (private)
Created	Materials and substances contained in	For selected car parts of the analyzed SEAT vehicles,	Raw data	Document	XLS	MB	SEAT	Consortium	Partner storage (private)	Once	No	5 years	Partner storage (private)



	selected car parts	the detailed composition (materials, substances and weight) is displayed											
Collected	Material Data Sheets (MDSs) of car parts from IT system MISS	MDSs contain the composition and weight of the car parts	Raw data	Document	PDF	MB	SEAT	Consortium	Partner storage (private)	Once	No	5 years	Partner storage (private)
Collected	Outputs from SW VERON	Disassembly times and tools for SEAT vehicles	Raw data Pictures	Document	PDF	MB	SEAT	Consortium	Partner storage (private)	Once	No	5 years	Partner storage (private)
Collected	Drawings of car parts	Drawings of selected car parts	Raw data Pictures	Document	PDF	MB	SEAT	Consortium	Partner storage (private)	Once	No	5 years	Partner storage (private)
Collected	Assembly procedures	Assembly procedures of selected car parts	Raw data Pictures	Document	PDF	MB	SEAT	Consortium	Partner storage (private)	Once	No	5 years	Partner storage (private)
Created	Total amount of car parts yearly produced	Total amount of selected car parts yearly produced	Raw data	Document	XLS	KB	SEAT	Consortium	Partner storage (private)	Once	No	5 years	Partner storage (private)
Created	Life Cycle Assessment results	Life Cycle Assessment results of vehicles and selected car parts	Raw data	Document	XLS	MB	SEAT	Consortium	Partner storage (private)	Once	No	5 years	Partner storage (private)



1.1.12. Data Management Plan – TXT

Table1: TXT’s DMP

Collected / Created	Name	Description	Category	Type	Format	Size	Owner	Privacy level	Repository during the project (for private/public access)	Back-up frequency	Destroyed at the end of the project?	Duration of preservation (in years)	Repository after the project
Collected	Username and password	Username and password of the users registered to the TREASURE Platform	Credentials	Raw data	Textual encrypted	Bytes	User	User	TREASURE Platform	Weekly	Yes	0	None
Collected	Execution time	Time of execution of disassembly procedures (anonymized and not linked to the use account)	Timing	Raw data	Integer	KB	TXT	Consortium	TREASURE Platform	Weekly	Yes	0	None
Created	Centralized storage for project results	Centralized and secure data repository concerning project outcomes (i.e. confidential deliverables/documentation ; build of source code) with restricted access to authorized	Data storage	Raw data	Pdf, xls, html, js, css	MB	TXT	User	Microsoft 365 Sharepoint	When needed	Yes	0	None



		users											
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1.1.13. Data Management Plan – ILSSA

Table1: ILSSA’s DMP

Collected / Created	Name	Description	Category	Type	Format	Size	Owner	Privacy level	Repository during the project (for private/public access)	Back-up frequency	Destroyed at the end of the project?	Duration of preservation (in years)	Repository after the project
Collected	Determination of disassembly levels data	Identification of the disassembly levels of each part, based on manufacturer's manuals, international information, description of	Raw data and Pre elaborated data from TASK WP 3.1	Documents Spread Sheet	*.pdf *.xlsx *.docx	MB	ILSSA	Consortium	Partner Storage (private)	Once	No	5 Years	Partner Storage (One Drive)



		manufacturer's parts											
Collected	Disassembly process data	Identification of technical means and disassembly methods,	Raw data and Pre elaborated data from TASK WP 3.1	Documents Spread Sheet	*.pdf *.xlsx *.docx	MB	ILSSA	Consortium	Partner Storage (private)	Once	No	5 Years	Partner Storage (One Drive)
Created	Results of disassembly process and registry	Disassembly level obtained and record of disassembly parameters (labour, machines, methods, materials, environment, time, condition of parts	Raw data	Documents Spread Sheet Images, Videos	*.pdf *.xlsx *.docx *.jpg *.mp4 (e.g.)	MB GB	ILSSA	Consortium	Partner Storage (private)	Once	No	5 Years	Partner Storage (One Drive)
Created	Recommendations	Disassembly analysis and recommendations to improve reuse and recycling	Raw data	Documents Spread Sheet	*.pdf *.xlsx *.docx	MB	ILSSA	Consortium	Partner Storage (private)	Once	No	5 Years	Partner Storage (One Drive)
Created	Shredder data	Information on ELV fragmentation, including vehicle status data, weight, fractions	Raw data	Documents Spread Sheet	*.pdf *.xlsx *.docx	MB	ILSSA	Consortium	Partner Storage (private)	Once	No	5 Years	Partner Storage (One Drive)



		obtained and its destination (recycling, disposal)											
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1.1.14. Data Management Plan – UNI

Table1: UNI's DMP

Collected / Created	Name	Description	Category	Type	Format	Size	Owner	Privacy level	Repository during the project (for private/public access)	Back-up frequency	Destroyed at the end of the project?	Duration of preservation (in years)	Repository after the project
Collected	Standards mapping	List of standardization documents relevant for the project	Mapping	Document	CSV, XLS	MB	UNI	Consortium, while the deliverable D8.4 including the consolidate list of standards will be public	Partner Storage (Private)	Yearly	No	15	UNI cloud
Collected	Standards gaps	Gaps and needs in terms of standards	Gap analysis	Document	CSV, XLS	MB	UNI	Consortium, while the deliverable D8.4 including the consolidate analysis of gaps will be public	Partner Storage (Private)	Once	No	20	UNI cloud

1.1.15. Data Management Plan – MOVEO

Table1: MOVEO's DMP



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101003587

Collected / Created	Name	Description	Category	Type	Format	Size	Owner	Privacy level	Repository during the project (for private/public access)	Back-up frequency	Destroyed at the end of the project?	Duration of preservation (in years)	Repository after the project
Created	Seminar Attendance	Number of participants, and contact	Raw data	Raw Dataset	xls	kB	MOV'EO	Consortium	Partner Storage (Private)	Once	No	1 Years	Partner storage



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101003587

		Info (RGPD) during summer school and seminar											
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3. Conclusions

All data collected by the TREASURE consortium have been reviewed in accordance with the General Data Protection Regulation (GDPR) regulation and other applicable ethical standards. Any publication about the TREASURE project will not lead to a breach of confidentiality and anonymity to the documented data. All ethical aspects have been considered within this DMP in order to avoid any internal and external conflict and the TREASURE project conforms to privacy and confidentiality guidance from the EU guidance notes “Data protection and privacy ethical guidelines”. Research data produced during TREASURE have been saved either in local servers or in the cloud in order to maintain/reuse data also after the project’s end and all partners will transfer only pseudonymised data if necessary, while data stored in the respective platforms will be encrypted to protect them against possible data interception. The main elements of confidentiality of datasets are:

- Protection of IPR regarding new processes/ products or technologies where data breach could jeopardise the competitive advantage of the consortium or its partners,
- Commercial agreements and
- Personal data protected by national and European legislations

4. Abbreviations

DMP	Data Management Plan
ELV	End-of-Life Vehicle
GDPR	General Data Protection Regulation

5. References

European Commission, Guidelines on Data Management in Horizon 2020. Available from: <https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf>. [Version 2.1, 15 February 2016].

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