

Deliverable Report

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Data Management Plan

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Project website	salemaproject.eu
Coordinator	Fundacion Eurecat

¹ PU = Public
PP = Restricted to other programme participants (including the Commission Services)
RE = Restricted to a group specified by the consortium (including the Commission Services)
CO = Confidential, only for members of the consortium (including the Commission Services)



Document history

Version	Date	Author (Affiliation)	Actions& Approvals
V1	29.09.2021	António Louro (EUT)	First Draft with input from partners
V2	06.10.2021	Hannah Arpke (EUT)	Added input and some addition to structure, sent to partners for input and revision
V3	27.10.2021	António Louro and Hannah Arpke (EUT)	Finalisation

Summary

The following document is the Deliverable 10.3_Data Management Plan (DMP) of the Salema project, funded by the European Union's Horizon 2020 research and innovation programme under grant agreement Number 101003785.

The SALEMA project will produce novel aluminium alloys with minimalised critical raw material content (silicon and magnesium), integrating scrap metal recycling. The suitability and performance of these new aluminium alloys will be demonstrated through four pilot actions and five demonstrators. The integration of scrap metal recycling is essential to create a sustainable circular economy and it is going to serve as a reliable source for high-quality alloys in the future.

This Data Management Plan (DMP) consists of gathering of all the information related to the preliminary data to be collected within the Salema project. The DMP includes a description of methodology and standards to be followed and what data sets are exploitable or made accessible for verification and re-use.

Additionally, this document pools the results generated in the project that may lead to intellectual property (IP), thus acting as a mechanism for Project and Exploitation Management. The PDMP will thus contain all forms of knowledge generated by the project. The DMP will be a dynamic tool that is updated regularly when changes are required.



Abbreviations

Abbreviation / Acronyms	Description
CRM	Critical Raw Materials
DMP	Data Management Plan
DPO	Data Protection Officer
EC	European Commission
EU	European Union
GA	Grant Agreement
GDPR	General Data Protection Regulations
IPR	Intellectual Property Rights
PC	Project Consortium
RRI	Responsible Research and Innovation
R&I	Research and Innovation
WP	Work Package



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N/A



1. Introduction

In H2020, applicants will, by default, participate in the Pilot on Open Research Data, which aims to improve and maximise access to and re-use of research data generated by actions. However, participation in the Pilot is flexible in the sense that it does not mean that all research data needs to be open.

The Data Management Plan (DMP) addresses the relevant aspects of making data FAIR – findable, accessible, interoperable and re-usable, including what data the project will generate, whether and how it will be made accessible for verification and re-use, and how it will be cured and preserved. This deliverable presents the first version of the Data Management Plan for the Salema project. It provides a foresight of the data management policy to be applied by the Partners to datasets generated within the Project.

As established by the Grant Agreement, project's DMP will outline: : (i) how research data will be collected, processed or generated within the project; (ii) what methodology and standards will be adopted; (iii) whether and how this data will be shared and/or made open; (iv) and how this data will be curated and preserved during and after the project.

The application of the DMP by all Salema partners will be monitored under task 10.3 Data Management Plan and will strongly interact with all the WPs to ensure that processes for collected and used data are aligned with the Data Management Plan.

This document shall be considered confidential and addressed solely to the Consortium and EC representatives. It will serve as official guidance to Project Partners on data management. It has been developed following the EC guidelines and templates for project participating in the open Research Data Pilot:

- H2020 Annotated Model Grant Agreement - Open access to research data
- Guidelines to rules on Open Access to Scientific Publications & Open Access to Research Data in Horizon 2020
- Guidelines on FAIR Data Management in Horizon 2020
- Template for the Data Management Plan

Regarding Responsible research and Innovation (RRI), the European Commission describes RRI as “an inclusive approach to research and innovation (R&I), to ensure that societal actors work together during the whole research and innovation process. It aims to better align both the process and outcomes of R&I, with the values, needs and expectations of European society”². There are five thematic elements (gender equality, open access, public engagement, ethics, and science education) included in the definition of RRI.

The RRI is a research and innovation process that takes into account the effects and potential impacts on gender equality, open access, public engagement, ethics, and science education, involving societal actors (business, research, citizens, policy makers, and civil society organizations) to achieve the goal of aligning outcomes derived from R&I with the values and expectations of society.

² <https://ec.europa.eu/programmes/horizon2020/en/h2020-section/responsible-research-innovation>



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In Salema, RRI will be implemented in a cross-sectorial, multi-actor way, by enabling easier access to scientific results, the take up of gender and ethics in the research and innovation content and process, and formal and informal science education. All Salema project partners follow measures to ensure responsible research and innovation in all activities.



2. Data Summary

2.1. Salema Data

The purpose of data collection campaigns of Salema project is to collect quantitative, simulation and testing data that will allow Salema to demonstrate that a change in the inputs materials required to produce high-performance Aluminium grades is feasible. And that substituting primary Critical Raw Materials (CRM) by converting scrap and commonly available materials, as the main source of alloying elements, will match the performance currently obtained with primary alloys.

To complement the main purpose, this document will contribute to achieve the specific & technical objectives mentioned in the Grant Agreement (GA) and listed below:

- To substitute Silicon metal (Si) and Magnesium (Mg), both of which CRMs, on aluminium alloys
- To develop 1 high-performance novel alloy for each HPDC, sheet metal stamping and extrusion with increased % of recycled material
- To demonstrate the feasibility and viability of SALEMA alloys in 3 different forming processes
- To prove the performance of SALEMA alloys in industrially relevant operational environment
- To effectively select and sort non-ferrous metallic scrap fragments for their use as recycled raw materials

Due to the complexity of the project, most of these objectives will be targeted by use cases and developed by partners in each of the Work Packages (WP). The generated data will mostly be a result from various experiments, lab work, testing and simulation. These will include processes such as hardness and mechanical resistance simulations, collection of sensor data and application of Artificial Intelligence and Deep Learning strategies for achieving the best possible results, and thus, generating datasets of information.

The collected and generated data will be stored in several formats that can include documents, images, videos, data, numerical codes, maps, AutoCAD drawings and 3D imagery and models.

The data collected and generated by the Salema project is useful for a wide spectrum of stakeholders that are working in the Aluminium production and Automotive industry, which will be further developed in the Impact section of the project.



2.2. Data Table

For this first version of the Data Management Plan, the following information and data have been identified by WP leaders and presented by Work Package. It includes the corresponding Work Package, description related to the project objectives, the expected date of creation, if the data is expected to be created or collected during the project, the creator as well as the contributors of the specific information and their privacy levels. Lastly, it also gives an overview of more technical matter such as the software used to generate the information and its format and size, and the file locations where the data will be stored.

Table 2 Salema Data List.

WP	Data collected or created	Title	Description and relation to the project objectives	Date of creation	Creator	Privacy level	Contributors	File location	File format	Software used to create data	Expected size of data	Origin and method
<i>WP or deliverable involved</i>	<i>Collected/created</i>	<i>Name of the data</i>	<i>Brief explanation</i>	<i>Expected date of creation (MXX)</i>	<i>Partner responsible</i>	<i>e.g. consortium, public, partner, ...</i>	<i>Relevant contributors from the project</i>	<i>Project/partner server (e.g. sharepoint, webpage, ...)</i>	<i>e.g. .xlsx, .html, .txt, .ppt, etc.</i>	<i>e.g. excel, AutoCAD, online forms, website, etc.</i>		<i>How data is collected</i>
WP 1	Created	Results of tests to develop partially recycled alloys	Excel file with 5 datasheets, one for each alloy analysed,	M9	EURECA T	Consortium		Sharepoint	.xlsx	Excel		Research & Partner Contribution





			with information of the casting conditions, composition, mechanical properties, microstructural analysis, corrosion resistance and specific data for subsequent processing									
WP 1	Created	Results of Prefil footprinter tests for partially recycled alloys		M9	IMN	Consortium	EURECAT	Sharepoint				Research & Partner Contribution
WP 1	Created	Results of tests to evaluate the effect of microadditions	Excel file with 5 datasheets, one for each alloy analysed, with information of the	M12	EURECAT	Consortium		Sharepoint	.xlsx	Excel		Research & Partner Contribution





			casting conditions, composition, mechanical properties, microstructural analysis, corrosion resistance and specific data for subsequent processing									
WP 1	Created	Results of Prefil footprinter tests for evaluating the effect of microadditions		M12	IMN	Consortium	EURECAT	Sharepoint				Research & Partner Contribution
WP2	created	Model of technological properties of Aluminium casting alloys	Dataset of viscosity, fluidity, diesoldering attitude as function of alloy composition	M9	UNIPD	Consortium	IMN, UNIPD, RAFFMET, ENDUR, FAGOR, EUT	Salema Sharepoint	.xlsx	Excel		Research, feedback from external parties, partner contributions





WP2	created	Model of technological properties of Aluminium wrought alloys	Dataset of hot workability attitude as function of alloy composition	M9	UNIPD	Consortium	GESTAMP, IMN, UNIPD, ASAS, PROFIL	Salema Sharepoint	.xlsx	Excel		Research, feedback from external parties, partner contributions
WP2	created	Model of thermodynamic behaviour of Aluminium casting alloys	Dataset thermophysical properties of casting alloys as function of their composition	M9	UNIPD	Consortium	UNIPD	Salema Sharepoint	.xlsx	Thermocalc		Research
WP2	created	Set of suggested compositions for low-CRM Aluminium casting and wrought alloys	Dataset of compositions, to be used in planning experimental production of low-CRM Aluminium casting and wrought alloys	M12	UNIPD	Consortium	UNIPD, EUT, RAFFMET, PROFIL, ASAS	Salema Sharepoint	.xlsx	Excel		Research, partner contributions
WP3	Created	Casting process parameters	Report of new alloys industrial production	M10	PROFILG LAS	Profilglass		Local database	.xlsx	Excel	5 MB	Partner Contribution



			casting parameters									
WP 4	Created	HPDC Moke-up Front Pillar CAD	CAD model for front pillar demo design to be used for alloy validation	M18	ENDURANCE	Consortium	CRF	Sharepoint	CAD	CAD	500 MB	Research & Partner Contribution
WP4	Created	HPDC tool	Tool and process set up for processing new low CRM aluminium alloys	M24	ENDURANCE	Consortium	EUT	Sharepoint	PDF	Word	-	Research & Partner Contribution
WP 4	Created	HPDCasting process parameters	Report of new alloys performance under full industrial production	M36	ENDURANCE	Consortium		Sharepoint	PDF	Word	-	Research & Partner Contribution
WP4	Created	HPDC material characterization	Gather data about the characterization of HPDC demonstrator. Mechanical test,	M24	CRF, Ford	Consortium	Ford, Rheinfelden, Fagor	Salema Sharepoint	.xlsx	Excel	100 MB	Research, feedback from external parties



			Fatigue, joining, and corrosion results									
WP4	collected	CAD geometry	CAD of the ShockTower component to be used for alloy validation		FAGOR	FORD/FAGOR		Local database	.CATPart	Catia	200 MB	Partner (FORD) Contribution
WP4	created	Report of the component to be used for alloy validation	Information about the ShockTower component to be used for alloy validation		FAGOR			Salema Sharepoint	PDF	Word	-	Research, feedback from external parties
WP4	created	New tool and process set up for processing new low CRM aluminium alloys	Description of the HPDC cell set up (tool and process) for new alloy validation on a ShockTower		FAGOR			Salema Sharepoint	PDF	Word	-	Research, feedback from external parties
WP4	created	Report of new alloys performance under full industrial production	gather data about the characterization of HPDC demonstrator.		FAGOR			Salema Sharepoint	PDF	Word	-	Research, feedback from external parties





			Mechanical test, Crash performance, joining									
WP5	Created	Stamping material characterization	Gather data about the characterization of Stamped demonstrator. Mechanical test, Fatigue, joining, and corrosion results. Report about stamping trials		CRF			Salema Sharepoint	.xlsx	Excel	-	Research, feedback from external parties
WP5	Created	Tool & process	Tool and process set up for casting and processing new low CRM aluminium alloys	M15	PROFILG LAS	Consortium		Sharepoint	PDF	Word	5 MB	Partner Contribution





WP5	Created	Quality & properties controls	Gather data about quality & properties controls during production steps	M20	PROFILG LAS	Consortium		Sharepoint	PDF	Word	10 MB	Partner Contribution
WP6	Created	Extrusion characterization	gather data about the characterization of Extruded demonstrator in laboratory scale. Structural and Mechanical test, Fatigue and corrosion results. Report about extrusion trials and numerical modelling.	M29	IMN	Consortium	EUT,IMN,ASAS ,COMET	Salema Sharepoint	.docx	Word	10GB	Partner Contribution





WP6	Created	Extrusion characterization	gather data about the characterization of Extruded demonstrator. Mechanical test, Fatigue, joining, and corrosion results. Report about stamping trials		CRF			Salema Sharepoint	.xlsx	Excel	-	Research, feedback from external parties
WP6	Created	Extrusion process computer aided simulation output	Gathering of the data that will be created with help of extrusion process simulation in order to verify producibility of profile sections and process parameters	M32	ASAS	Consortium	EUT, IMN	Salema Sharepoint	PDF	QForm for analyse PPT for visualition	5 MB	Resarch & Partner Contribution





WP6	Created	Report for verification of extruded SALEMA alloys	Gathering of the characterization data from 2 extruded demonstrator or part with newly developed SALEMA alloys	M33	ASAS	Consortium	EUT, IMN	Salema Sharepoint	PDF	PPT	5 MB	Research & Partner Contribution
WP6	Created	Extrusion characterization	gather data about the characterization of Extruded demonstrator in laboratory scale. Structural and Mechanical test, Fatigue and corrosion results. Report about extrusion trials and	M29	IMN	Consortium	EUT,IMN,ASAS ,COMET	Salema Sharepoint	.docx	Word	10GB	Partner Contribution





			numerical modelling.									
WP7	Created	LIBS measurements of AI scraps (labeled by class of interest)	Perform LIBS measurements on AI scraps collected in WP1; associate those with class labels in order to build supervised classification models		ULIEGE	Consortium		Local database (MongoDB)	-	ULiege Pickit prototype software	500 MB	Partner Contribution
WP8	created	Report of policy recommendations	mapping of key policies on CRM in automotive and recycling sector implemented or likely to be implemented and spotting of key enabler	M30	EAA	public	All consortium	Salema Sharepoint	PDF	Word	4 MB	Research, feedback from external parties





			or obstacle to Salema results exploitation									
WP8	created	Policy-brief	policy brief developed from D8.1 facilitating the external communication and advocacy	M36	EAA	public	All Consortium	Salema Sharepoint	PDF	Word	4 MB	Research, feedback from external parties, partner contributions
WP8	created	Product Category Rule for aluminium components of passenger cars in Europe	product category rule addressing the needs of the European market and the electrification of the passenger cars.	M18	EAA	public	GESTAMP, IMN, UNIPD, ASAS, RAFFMET, COMET, ULIEGE, EAA, CRF, PROFIL, ENDUR, FAGOR, FORD + External Task Group	Salema Sharepoint	PDF	Word	2MB	Research, feedback from external parties, partner contributions
WP9	created	Report on the scientific and technological dissemination	Report on the main scientific and technological dissemination	M36	EAA	public	EURECAT, ESCI	Salema Sharepoint	PDF	Word	4 MB	Partner contributions





			ns and comunicatio ns within Salema project.									
WP9	created	Report on the interaction with other EU projects and EC events	Report on the synergies created with other existing European and national initiatives to exchange information and results of the Salema's project and boost the visibility of the project	M36	EAA	public	EURECAT, ESCI	Salema Sharepoint	PDF	Word	4 MB	Descriptio n of different synergies created
WP10	Collected	Data Management Plan Tables	Gathering of the data throughout the project in order to create the deliverable 10.3	M6	EUT	Consortium	All Consortium partners	Salema Sharepoint	.xlsx	Excel	10 MB	Partner Contributi on



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WP10	Collected	Partner contact information	Maintenance of project governance structures and processes Information will be organized in excel files.	Proposal stage	EUT	Consortium	All Consortium partners	Salema Sharepoint	.xlsx	Excel	26kB	Partner Contribution
WP10	Created	Contractual documents, e.g. Consortium Agreement, Grant Agreement, budget information, etc	Effective coordination and monitoring of project activities according to DoA and EC and EUT regulations	GAP	EUT	Consortium	EC, EUT	Salema Sharepoint	.pdf and .xlsx	Mostly PDFs or Excels	13MB	EC, EUT
WP10	Collected	Reporting documents, RP reports, DRs, MS	To monitor project progress and fulfill contractual obligation to EC	M1	EUT	Varies, public or only consortium and EC	Consortium partners	Salema SharePoint and F&T Portal	.pdf	.docx	TBD	Consortium



2.3. Update Strategy

The project first development and future updates mainly rely on the collection of Data Management forms filled out for each project datasets by project partners responsible for producing, collecting or creating data.

The DMP is a living document and every time there may be updates on data within the project, the document will be modified accordingly, thus being continuously developed along the project lifespan. A final version will be delivered to the EU Commission in the end of the project.

An editable Word copy of the latest version will be stored in Salema's Sharepoint in order to facilitate the revision and update of the already identified datasets and policies. The DMP datasets, on excel files, will also be stored in the Salema's Sharepoint repository to allow their easy access and modification by the WP leaders and consultation by the other Partners.



3. FAIR DATA

3.1. Making data findable and interoperable

Data will be shared out with the consortium in relation to publications (deliverables and papers). Considering publication will be the main piece of metadata for the shared data. The bibliographic metadata will be in a standard format and will include all the following:

- the terms “European Union (EU)” and “Horizon 2020”;
- the name of the action, acronym and grant number;
- the publication date, and length of embargo period if applicable, and
- a persistent identifier.

The versioning number of data and documents created by the project will be composed of two digits separated by a period: the digit before the period represents in ascending order the official versions submitted to the European Commission as deliverables; digits after the period represents the periodic internal revisions of such official versions.

Variables and value names will be constructed following general data processing conventions. List of value names and used vocabulary will be provided in a *as per need* basis and continuously updated.

3.2. Making data openly accessible

The full overview of data generated in Salema can be seen in Table 1. The datasets, if not specified otherwise, can be freely accessed by the project partners through Salema’s online cloud-based repository in Sharepoint. Contributing partners were given access to this platform in the beginning of the project.

Final decisions concerning the sharing of (selected) datasets will be taken by the Consortium. The coordinator in collaboration with project partners will take all the appropriate measures to make relevant data openly available and usable for third parties for exploitation, study, teaching and research purposes.

An overview of the project’s deliverables and their Dissemination level can be found on Table 2 in the Annex section. This provides more detailed information about the privacy of the documents generated in the document, as well as their beneficiaries, type of document and deadlines. It can be found in the Deliverables Sharepoint folder.

3.3. Increase data re-use and IPR Management

Ownership of datasets, if not specified otherwise, will belong to project Consortium after the project completion. At this time, no definite period or time limit is planned for access or re-use of the data. Justification for possible case-specific embargo for published data will be decided by project Consortium. Embargo will be sought primarily in connection with any potential patent application + IPR issues based on project results.



If, after project closure, permission to re-use the data is required, all requests for further use of data will be considered carefully, and whenever possible, reviewed and approved by the coordinator or the person mandated with the task. Permission for data use will be granted providing there are no IPR or confidentiality issues involved. Permission will be provided by contacting the project coordinator.

In accordance with the Consortium Agreement, results are owned by the Party that generates them, unless specified otherwise. Any restrictions regarding data sharing, ownership and IPR will be further detailed throughout the project and once results start to be generated.

4. Allocation of resources

Eurecat (EUT) will manage the data repository as part of Task 10.3. During the project, Consortium partners will be responsible for managing the datasets at their possession and make sure to respect FAIR's principles.

Costs related to research data management, to make research data quality-controlled, FAIR-compatible and as open as possible are foreseen in the project budget.

EUT, as project coordinator, has appointed a Data Protection Officer (DPO), which, because of the correlations between IPR and Exploitation matters with data and outcomes of the use cases, will be the Innovation Officer of the project. Contact information:

António Louro

antonio.louro@eurecat.org

5. Data Security

During the project, datasets will be available only to those project partners or project consortium members who have been accredited by and their data usage has been approved by the Coordinator or authorized project consortium member. Project partners will be responsible for curating, preserving, disseminating and deleting in appropriate manner the datasets in their possession. Retention time for curated datasets will be the same as for other project results at the project consortium partners.

Considering the possibility of collecting personal data, sensitive personal data and/or confidential private information for the purpose of the project, all processing will have to be conducted securely as per current General Data Protection Regulations (GDPR) (EU, 2016/679). Transfer of data will be via a Zip process of distribution and Data Owner/Data Provider is responsible for the anonymization process and for ensuring that identifiable variables are not transferred to the repository.

Data collected or acquired within the project will be stored in a secure IT environment behind a firewall. Access will need authentication.

6. Ethical Aspects

As part of task 10.3, it will be ensured that the Responsible Research and Innovation (RRI) principles are followed in the management of data along the execution of Salema project.



While managing data and databases, the Salema Consortium will ensure and take into account the following dimensions:

- **Gender equality** – From the point of view of the development, user's interfaces and dissemination and communication activities, differences can be found in attending women need, and perspective of men and women. Salema will carry out gender-sensitive research and innovation by promoting a balanced gender composition and monitoring potential measures for ensuring equity and integration in every aspect of the research. Some of the technical, scientific and administrative coordination of the project are led by women, who account for 2 of the 10 WP leaders. Different instances of equality measures for ensuring equal opportunities in relation to HR procedures (e.g. recruitment, training, promotion, work-life balance, etc) and to address gender-related biases and under-representation will be promoted among partners.
- **Open access** – identification of the mechanisms for providing, as much as possible, open access to the research data and results of the project and assess its potential impact among the identified stakeholders (Scientific and academic community, Industry, end users and customers, Policy Makers / Influencers and Society at large). This task will cooperate closely with all WPs, ensure that Data Management follows RRI principles.
- **User's engagement** – Networks of stakeholders including scientific, technology and education communities, policy makers, regulatory organizations, influencers and the society at large will be reached through dedicated Communication and Dissemination activities (WP9), in order to raise awareness on the research and bring project activities closer to European citizens.
- **Ethics** – ensuring that legal requirements and social and ethical good practice is utilised in the design, development and use of the Salema results. Technical partners have the responsibility to guarantee they are adopting a RRI attitude when designing and developing their solutions. Salema will promote acceptability of technological developments through careful assessment of standards and social acceptance and echoing compliance and safety gain in public engagement activities.
- **Science education** – materials potentially suitable to be included in training activities, at formal and informal level, will be identified in order to maximize the impact in the EU educational systems (e.g. vocational training, postgraduates in materials characterisation processes, metal sheet forming, simulation modelling, etc.). These training activities will ensure a community of practice around the project. Participants already performing training / skills building activities will include Salema outcomes in their courses. The activity implies preparing specific training contents in local languages and integrating them into the existing educational programs.



7. Conclusion

The Salema consortium has identified all relevant data that will be generated in the duration of the project, and will manage it according to EU standards and regulations in order to ensure that it is FAIR data— findable, accessible, interoperable and re-usable.

Most of the data will be gathered during the use cases and after the laboratory and experimental trials, which will allow for simulations and tests to be developed (and subsequently reported through the Deliverables of the project). So, it can be early to predict and define specifically and thoroughly the type of information that will be collected from the project.

However, the DMP is considered to be a living document in the framework of Salema and will be updated throughout the course of the project taking into account its latest developments and available results. A final version of this document is due to be delivered as an Annex to the final technical report or resubmitted as DR via the F&T Portal in M36.



8. Annex

Table 3. Deliverables Overview and Dissemination Level

Deliverables, Ethics, DMP, Other Reports							
WP No	DR. No	Del No	Title and Description	Lead Beneficiary	Nature	Dissemination Level	Est. Del. Date (annex I)
WP1	D1.1	D1	Alloy specifications for partially recycled alloys	EUT	Report	Public	31 Jul 2021
WP1	D1.2	D2	Report with the analysis of the different scrap groups	COMET	Report	Public	31 Jan 2022
WP1	D1.3	D3	Report with the results of the laboratory trials with partially recycled alloys	EUT	Report	Public	31 Jan 2022
WP1	D1.4	D4	Report with the results of the micro-additions tests performed at laboratory level	EUT	Report	Confidential, only for members of the consortium (including the Commission Services)	30 Apr 2022
WP1	D1.5	D5	Report with the results of the heat treatment optimization test	EUT	Report	Public	31 Jul 2022
WP2	D2.1	D6	Report on specifications required by the low CRM aluminium alloys	CRF	Report	Public	31 Jul 2021
WP2	D2.2	D7	Report containing description of criteria and tools used for exploring alternative alloying systems	UNIPD	Report	Public	31 Jan 2022
WP2	D2.3	D8	Report describing design procedure and identification of new alloys with reduced CRM content	UNIPD	Report	Public	30 Apr 2022
WP2	D2.4	D9	Report collecting results of laboratory trials within the compositional ranges selected for the alloys	IMN	Report	Confidential, only for members of the consortium (including the Commission Services)	31 Jul 2022
WP3	D3.1	D10	Definition of the pre-treatment required by the aluminium scrap	RAFF	Report	Public	31 Jul 2022



WP3	D3.2	D11	Production procedure for HPDC ingots with the new aluminium alloys	RAFF	Demonstrator	Confidential, only for members of the consortium (including the Commission Services)	31 Oct 2022
WP3	D3.3	D12	Production procedure for stamping sheet with the new aluminium alloys	PROFIL	Demonstrator	Confidential, only for members of the consortium (including the Commission Services)	31 Oct 2022
WP3	D3.4	D13	Production procedure for extrusion billets with the new aluminium alloys	ASAS	Demonstrator	Confidential, only for members of the consortium (including the Commission Services)	31 Oct 2022
WP3	D3.5	D14	Report defining the new alloys management system	RAFF	Report	Confidential, only for members of the consortium (including the Commission Services)	30 Apr 2023
WP3	D3.6	D15	Report on the research on procedures to recover CRM and valuable elements from the dross formed	EUT	Report	Public	30 Apr 2023
WP4	D4.1	D16	Report and CAD of the possible front pillar design to be used for alloy validation	ENDUR	Report	Confidential, only for members of the consortium (including the Commission Services)	31 Oct 2022
WP4	D4.2	D17	Report and CAD of the design for manufacturing of the component to be used for alloy validation	FAGOR	Report	Confidential, only for members of the consortium (including the Commission Services)	31 Oct 2022
WP4	D4.3	D18	New alloys produced for HPDC process	RAFF	Demonstrator	Public	31 Aug 2022
WP4	D4.4	D19	Report with the results obtained in the industrial laboratory trials with the different alloys	EUT	Report	Public	30 Apr 2023
WP4	D4.5	D20	Report with the properties characterized for the different alloys used at the Trials	EUT	Report	Public	30 Jun 2023
WP4	D4.6	D21	New tool and process set up for processing new low CRM aluminium alloys A	ENDUR	Demonstrator	Confidential, only for members of the consortium (including the Commission Services)	30 Apr 2023
WP4	D4.7	D22	New tool and process set up for processing new low CRM aluminium alloys B	FAGOR	Demonstrator	Confidential, only for members of the consortium (including the Commission Services)	28 Feb 2023



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WP4	D4.8	D23	Demonstrator components produced with the new aluminium alloys A	ENDUR	Demonstrator	Confidential, only for members of the consortium (including the Commission Services)	31 Dec 2023
WP4	D4.9	D24	Demonstrator components produced with the new aluminium alloys B	FAGOR	Demonstrator	Confidential, only for members of the consortium (including the Commission Services)	29 Feb 2024
WP4	D4.10	D25	Report of new alloys performance under full industrial production A	ENDUR	Report	Confidential, only for members of the consortium (including the Commission Services)	30 Apr 2024
WP4	D4.11	D26	Report of new alloys performance under full industrial production B	FAGOR	Report	Confidential, only for members of the consortium (including the Commission Services)	30 Apr 2024
WP5	D5.1	D27	Service requirements for the developed sheet aluminium grades	GESTAMP	Report	Public	28 Feb 2023
WP5	D5.2	D28	Report of the service characterization of the developed sheet aluminium grades	EUT	Report	Public	31 Aug 2023
WP5	D5.3	D29	Data for the processing of the new aluminium sheet metal grades	EUT	Report	Public	31 Aug 2023
WP5	D5.4	D30	Pilot trial demonstrator: sheet metal cold stamping	CRF	Demonstrator	Confidential, only for members of the consortium (including the Commission Services)	29 Feb 2024
WP5	D5.5	D31	Pilot trial demonstrator: sheet metal hot stamping	GESTAMP	Demonstrator	Confidential, only for members of the consortium (including the Commission Services)	29 Feb 2024
WP6	D6.1	D32	Aluminium billet and extruded profile in laboratory scale	IMN	Demonstrator	Public	31 Oct 2022
WP6	D6.2	D33	Report with the properties characterized for the different alloys used at the trialss	IMN	Report	Public	31 May 2023
WP6	D6.3	D34	Demonstrator extruded profiles with the new aluminium alloys	ASAS	Demonstrator	Confidential, only for members of the consortium (including the Commission Services)	31 Dec 2023



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WP6	D6.4	D35	Report of new alloys performance under industrial extrusion production	ASAS	Report	Confidential, only for members of the consortium (including the Commission Services)	31 Dec 2023
WP6	D6.5	D36	Demonstrator of the frontal frame produced by combination of HPDC and Extrusion	ASAS	Demonstrator	Confidential, only for members of the consortium (including the Commission Services)	30 Apr 2024
WP7	D7.1	D37	Optimized LIBS module for Al alloys compositions acquisitions	ULIEGE	Demonstrator	Confidential, only for members of the consortium (including the Commission Services)	31 Dec 2021
WP7	D7.2	D38	Software for Al alloys scraps classification	ULIEGE	Other	Confidential, only for members of the consortium (including the Commission Services)	28 Feb 2022
WP7	D7.3	D39	Integration of LIBS in AI mode to the multi-sensor and sorting PICKIT prototype	ULIEGE	Demonstrator	Confidential, only for members of the consortium (including the Commission Services)	30 Apr 2022
WP7	D7.4	D40	Production of large Al scraps classes batches for WP 4-5-6	COMET	Demonstrator	Public	31 Jan 2023
WP7	D7.5	D41	Report on SALEMA new alloys sensor-based sorting ability	COMET	Report	Public	29 Feb 2024
WP8	D8.1	D42	Report of policy recommendations	EAA	Report	Public	30 Apr 2023
WP8	D8.2	D43	Policy-brief	EAA	Report	Public	30 Apr 2024
WP8	D8.3	D44	Product Category Rule for aluminium components of passenger cars in Europe	EAA	Report	Public	31 Oct 2022
WP8	D8.4	D45	Report on the standardization landscape and applicable standards	UNE	Report	Public	31 Oct 2021
WP8	D8.5	D46	Report on the contribution to standardization	UNE	Report	Public	30 Apr 2024
WP8	D8.6	D47	SALEMA Market study and business modelling frameworks	EUT	Report	Confidential, only for members of the consortium (including the Commission Services)	30 Apr 2024
WP8	D8.7	D48	LCA result's report of the different alloys and production technologies studied	EUT	Report	Public	30 Apr 2024
WP8	D8.8	D49	LCC result's report of the LCC of the different alloys and production technologies studied	EUT	Report	Public	30 Apr 2024



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WP8	D8.9	D50	Innovation and Technological Development Management report	EUT	Report	Public	30 Apr 2024
WP8	D8.10	D51	First Plan of Use and Dissemination of Results	EUT	Report	Public	30 Nov 2022
WP8	D8.11	D52	Final PUDR and Exploitation Agreement	EUT	Report	Confidential, only for members of the consortium (including the Commission Services)	30 Apr 2024
WP9	D9.1	D53	Communication and Dissemination Master Plan	ESCI	Report	Public	31 Jul 2021
WP9	D9.2	D54	Project website and social media channels	ESCI	Websites, patents filing, etc.	Public	31 Aug 2021
WP9	D9.3	D55	SALEMA brochure	ESCI	Websites, patents filing, etc.	Public	31 Oct 2021
WP9	D9.4	D56	SALEMA introductory video	ESCI	Websites, patents filing, etc.	Public	31 Oct 2021
WP9	D9.5	D57	SALEMA final video	ESCI	Websites, patents filing, etc.	Public	30 Apr 2024
WP9	D9.6	D58	Best Practices for Communication & Dissemination Activities	ESCI	Report	Public	30 Apr 2024
WP9	D9.7	D59	Report on the scientific and technological dissemination	EAA	Report	Public	30 Apr 2024
WP9	D9.8	D60	Report on the interaction with other EU projects and EC events	EAA	Report	Public	30 Apr 2024
WP10	D10.1	D61	Project Handbook	EUT	Report	Public	31 Jul 2021
WP10	D10.2	D62	Responsible Research Management Report	EUT	Report	Public	30 Apr 2024
WP10	D10.3	D63	Data Management Plan	EUT	ORDP: Open Research Data Pilot	Public	31 Oct 2021
WP10	D10.4	D64	Handbook to apply Agile methodology in non-IT research projects	EUT	Report	Public	30 Apr 2024



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