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Air-breathing Electric Thruster
AETHER
D1.6
Data Management Plan

Dissemination level		
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RE	Restricted to a group specified by the of the consortium (including the Commission Services)	
CO	Confidential, only for members of the consortium (including the Commission Services)	

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1 Executive Summary

1.1 Scope of the project

The limiting factor for the duration of space endeavours is often related to the total mass of propellant available on board. If a new propulsion device could use the residual gases available in the upper layers of the atmosphere as propellant, this would enable a vast spectrum of new planetary mission scenarios.

In recent years SITAEL has produced the world's first prototype of such a device, the "RAM-EP" engine. This innovative electric propulsion (EP) thruster has been successfully tested in an environment representative of VLEO, achieving TRL4.

The AETHER project will advance the thruster design towards a flight representative stage, experimentally demonstrating sufficient and reliable net thrust production for the target applications. This will be achieved through the design optimization of the various thruster components, careful selection of materials and proper diagnostics tools, based on system-level design considerations.

Successful completion of the AETHER project will advance the electric propulsion portfolio of Europe with the world-first EP air-breathing engine, potentially shifting the paradigm of VLEO, LEO and planetary missions.

1.2 Purpose of the document

The purpose of this document is to describe the data management process for the AETHER Project. More specifically, this document addresses the strategies that will be implemented by the AETHER Consortium to manage the datasets used/produced during the Project, in order to:

- on one side, make the Project research data findable, accessible, interoperable and reusable at the maximum possible extent, aimed at complying with the need for the Community and all the diverse involved stakeholders for knowledge integration and reuse,
- on the other side, balance openness and protection of scientific information, commercialization and Intellectual Property Rights, privacy, security as well as data preservation issues.

The Data Management Plan regards all the datasets that will be collected, processed and/or generated within the Project and that the Consortium deems worth tracing. With reference to the current progress, this plan includes:

1. Description of the Project data management policy, proposed by the Coordinator team and subject to the approval of the Consortium;
2. Identification of Project datasets (dataset register), performed by each single Partners with the involvement of specific stakeholders;
3. Analysis of the identified datasets.

This document has been drafted in agreement with the Guidelines on FAIR Data Management in Horizon 2020, Is.3.0 and relevant available templates from the Commission. Further versions of this

document will be issued throughout the Project to mitigate possible initial non-compliance against the applicable recommendations and better address relevant best practices.

1.3 Applicability of the document

This plan is applicable to all the Partner Companies and Institutions involved in the AETHER Project.

1.4 Acronyms and Abbreviations

Acronym	Description
AD	Applicable Document
RF	Reference Document
SoW	Statement of Work
GA	Grant Agreement
CA	Consortium Agreement
PCT	Project Coordinator Team
PTB	Project Technical Board
KPI	Key Performance Indicator
I/O	Input/Output
FAIR	Findable, Accessible, Interoperable and Reusable
IPR	Intellectual Property Rights
DMP	Data Management Plan
DS	Dataset
RAM-EP	RAM Electric Propulsion
TRL	Technology Readiness Level
SO	Sub-Objective
N/A	Not Applicable
TBD	To Be Defined

2 Applicable and Reference Documents

2.1 Applicable Documents

Table 1 - Applicable documents

Ref.	Title	Owner	Release	Date
AD01	Grant Agreement GA870436			
AD02	Consortium Agreement		3.0	15/10/2019

2.2 Reference Documents

Table 2 - Reference documents

Ref.		Title	Date
RD01	H2020-hi-oa-data-mgt	H2020 Programme, Guidelines on FAIR Data Management in Horizon 2020, Is.3.0	26/07/2016
RD02	H2020-tpl-0a-data-mgt	H2020 Programme, Data Management Plan Template, v.1.0	13/10/2016
RD03		M. Wilkinson et al. *The FAIR Guiding Principles for scientific data management and stewardship*, Nature, 10.1038/sdata.2016.18	15/03/2016

3 Data Management Policy

3.1 Introduction

The AETHER Data Management Plan (DMP) describes the data management life cycle for the data to be collected, processed and/or generated by the Project. As part of making research data findable, accessible, interoperable and re-usable (FAIR) at the maximum possible extent, the AETHER DMP is intended to include information on:

- what data will be collected, processed and/or generated
- how handling of data during and after the end of the project will be performed,
- which methodology and standards will be possibly applied,
- whether data will be shared/made open access for verification and reuse,
- how data will be exploited and/or shared/made accessible,
- why data cannot be made available, as applicable,
- how data will be curated and preserved (during the Project ad after its end).

The policy described in the AETHER DMP reflects the current state of consortium agreements on data management and is consistent with the Project exploitation and the applicable Intellectual Property Rights (IPR) requirements.

The AETHER DMP, that is subject to the approval of the Consortium, is intended as a living document in which information can be made available on a finer level of granularity through updates as the implementation of the project progresses and when significant changes occur, such as (but not limited to):

- new data
- changes in Consortium policies
- changes in Consortium composition
- external factors.

Even if there are no periodic reviews foreseen by the applicable Grant Agreement, the DMP will be updated in time for the final review at the latest.

3.2 Dataset identification

According to RD01, the DMP addresses, for each data set collected, processed and/or generated in the Project the following elements as a minimum:

1. Data set reference and name
2. Data set description
3. Metadata and standards

4. Data sharing

5. Archiving and preservation

To this end, the consortium has developed the necessary strategies that will be followed in order to address the above elements. The template for the dataset register sheet is provided in Annex 1.

3.2.1 Data set reference and name

In order to be able to distinguish and easily identify datasets, a unique identifier is assigned to each dataset.

Each identifier is composed of the following parts

XXXX-DS-NN-mm, i.r

Where

XXXX	is the Company code (3 to 6 letters), ref. table below
DS	stands for “dataset”
NN	is the dataset sequential number established at Partner level
mm	is the applied standard classification for metadata (00 or void if no standard classification is applied, ref. section 3.2.3)
i.r	version of the dataset (issue and release)

For instance:

SIT-DS-04-00, 2.1

is the fourth dataset listed by SITAEL in the DS register, issue 2 release 1, no standard metadata classification applied.

The Company codes are defined in the following table:

Company Code	Company	Remarks
SIT	Sitael, Italy	
AST	Astos Solutions, Germany	
RHP	RHP Technology, Austria	
VKI	Von Karman Institute, Belgium	
DED	Dedalos, Greece	
TMIT	TransMIT, Germany	
SURREY	University of Surrey, UK	

The Dataset Name is the full name of the dataset. It is recommended to be as explicatory as possible.

3.2.2 Data set description

Each data set collected, processed or generated within the project is accompanied by a brief description. The description provides information regarding:

- The nature/type of the data set
- The source of the data set
- The owner of the dataset and involved partners to whom the dataset is potentially useful.

3.2.3 Metadata and standards

This field specify the metadata that will be used to describe the data as well as suitable standards, as applicable.

Metadata are of major importance in the archiving and distribution of scientific data. Using good metadata models, defined at the appropriate level, is aimed at publishing and sharing data, and allowing the results of research activities, experiments and studies to be browsed, searched and cited. Appropriate metadata can thus encourage the reuse of data within and across scientific disciplines.

The metadata specified for the Project can be descriptive, structural, administrative, reference and statistical and can include:

Descriptive metadata	• Means of production of the data • Purpose of the data • Abstract • Author • Keywords
Structural metadata	• Structure of data (chapters, sections, subsections, annexes) • Versioning • Format
Administrative metadata	• Date of creation • Date of publication • Location (on a Repository, e.g.) • Language
Reference metadata	• Data contents • Data quality • Standards • Configuration codes
Statistical metadata	• File size, if applicable • Process

Table 3 – Types of possible metadata to be used for the project

No common standard classification has been selected at Consortium level for the time being. The possible application of specific standard classification by single Partners of the Project is specified in the dataset register (Annex 2).

3.3 FAIR data

In general terms, research data are recommended to be 'FAIR', that is findable, accessible, interoperable and reusable, both for machines and for people, in order to foster research outcome exploitation at Community level. Nevertheless, it is also generally recognized that there are good reasons to keep some or even all research data generated in a project closed.

In compliance with RD03, the following matrix specifies the requirements applicable to FAIR datasets: compliance with such requirements is addressed in section 0 for the AETHER Project datasets.

Requirements
To be Findable:
F1. (meta)data are assigned a globally unique and persistent identifier
F2. data are described with rich metadata (defined by R1 below)
F3. metadata clearly and explicitly include the identifier of the data it describes
F4. (meta)data are registered or indexed in a searchable resource
To be Accessible:
A1. (meta)data are retrievable by their identifier using a standardized communications protocol
A1.1 the protocol is open, free, and universally implementable
A1.2 the protocol allows for an authentication and authorization procedure, as necessary
A2. metadata are accessible, even when the data are no longer available
To be Interoperable:
I1. (meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.
I2. (meta)data use vocabularies that follow FAIR principles
I3. (meta)data include qualified references to other (meta)data
To be Reusable:
R1. meta(data) are richly described with a plurality of accurate and relevant attributes
R1.1. (meta)data are released with a clear and accessible data usage license
R1.2. (meta)data are associated with detailed provenance
R1.3. (meta)data meet domain-relevant community standards

3.3.1 Data Sharing

Datasets, according to their purpose and re-use, are shared among partners taking into account the expected follow-up activities and responsibilities, as recorded in the DS register in compliance with

Project scope. The Steering Committee, in charge of DS register approval, guarantees that data are actually made available to the Partners in charge of/requiring data internal exploitation, for the effective implementation of the action.

As a function of the dataset format and dimensions, the transfer protocol is agreed between owner and recipient(s), on a case-by-case basis (e.g. email, ftp, Company cloud, etc.), unless preliminarily set in the specific DS sheet, for all the datasets that will be collected and processed in the Project. In case no agreement is reached between the Parties exchanging Project data, the Steering Committee, in compliance with the openness level declared by the dataset owners, defines how data will be shared and more specifically the access procedures, the necessary software and other tools for enabling re-use.

For what concerns sharing of information not necessarily identified as a dataset (e.g. interfaces, performance, maps, envelops, models, etc.), team or bi-lateral co-engineering meetings and relevant minutes, as well as Project deliverables, are considered the most common sharing sources. This approach to data sharing is considered the main one during the whole design phase. Sharing of datasets among Partners is expected to be marginal before the start of Project test campaigns.

In case the datasets/information cannot be shared, in compliance with the Grant Agreement, the reasons for not giving access will be mentioned (e.g. ethical, rules of personal data, intellectual property, commercial, privacy-related, security-related). In that case, specific actions shall be taken by the Steering Committee, to guarantee effective circulation of information and preserve, at the same time, sensitive/critical issues.

3.3.2 Archiving and preservation

The partners will decide and describe the procedures that will be used in order to ensure long-term preservation of the data sets and the duration of data preservation.

No Project repository has been generated and settled, apart from the H2020 portal repository, limitedly to Project deliverables. Considered the confidential nature of most of the data relevant to the Project, the generation of a common database is not planned for the Project.

4 Dataset Register

Ref. Annex 2

5 Dataset Analysis

5.1 Data Summary

The AETHER project aims at developing the first propulsion system able to maintain a spacecraft at very-low altitudes (160÷250 km) for extended times without using on board propellant. With this aim, the main objective of AETHER is to demonstrate, in a relevant environment, the critical functions of an air-breathing electric propulsion system, and its effectiveness in compensating atmospheric drag. The ambition of AETHER is to provide Europe with a TRL 5 RAM-EP system capable of full-drag compensation and integrable in a space platform

In relation with the specific tasks of the project, that are:

SO1. Identify specific application cases for the RAM-EP technology and define system requirements;

SO2. Reproduce on-ground the environmental conditions relevant to the identified mission cases;

SO3. Develop critical technologies for the collection, ionization and acceleration of rarefied atmospheric flows;

SO4. Develop the test set-up and diagnostics and perform the necessary demonstration/verification activities for the performance of the RAM-EP system;

the purposes of the data collection/generation are:

- providing inputs for analyses and simulations
- recording outputs of analyses and simulations
- defining the common environment reference conditions
- sharing information with the Commission about the outcome of project activities (deliverables)
- update the Consortium about the progress of concurrent/related activities
- sharing and discussing test results relevant to subsystem characterization and behavior
- assessing system and subsystem requirement specifications
- sharing and discussing design drivers
- sharing design activities outcome
- developing interfaces between subsystems and between the propulsion system and the
- sharing and approve development plans
- sharing and approve verification and test plans
- sharing general technical information
- sharing administrative information
- discussing diagnostic sapproach and configuration
- technical drawing and interfaces

- discussing the appropriateness of models, of trade-off activities, of figures of merit
- circulating papers and publications
- fostering scintific discussion about the innovative concept addressed by the Project
- circulating Project progress and achievement at conferences and public workshops

Types and formats of data depend on the nature and relevant origin of the dataset: specific detail is addressed by DS sheets in Annex 2.

Re-use of existing data from Company background know-how and previous research and development activities is foreseen by the Project plan.

5.2 FAIR Data

In compliance with RD03, the following matrix specifies the current state of compliance against the FAIR requirements, as resulting from the Consortium declared intention for dataset management.

Requirements	Declared compliance intention	Remarks
To be Findable:		
F1. (meta)data are assigned a globally unique and persistent identifier	C	Each dataset is configured with a standard identification mechanism that associates data and relevant metadata with unique identifiers. Naming convention is described in section 3.2.1. The naming convention does include versioning. Each dataset is associated with specific metadata, whose type is selected from the list in Table 3. Metadata standards have not been adopted at Consortium level. Search keywords have not been provided so far.
F2. data are described with rich metadata (defined by R1 below)	PC	
F3. metadata clearly and explicitly include the identifier of the data it describes	PC	
F4. (meta)data are registered or indexed in a searchable resource	PC	Compliance is limited to public data and Project deliverables
To be Accessible:		
A1. (meta)data are retrievable by their identifier using a standardized communications protocol	PC	Compliance is limited to publications and Project deliverables (*)
A1.1 the protocol is open, free, and universally implementable	PC	Compliance is limited to public data (*)
A1.2 the protocol allows for an authentication and authorization procedure, as necessary	PC	Compliance is limited to public data (*)
A2. metadata are accessible, even when the data are no longer available	NC	

Requirements	Declared compliance intention	Remarks
To be Interoperable:		
I1. (meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.	C	The datasets produced in the project are interoperable, limitedly to allowing data exchange and re-use between Project researchers, institutions and companies aimed at Project KPI achievement No standard metadata system will be used at Project level.
I2. (meta)data use vocabularies that follow FAIR principles	NC	
I3. (meta)data include qualified references to other (meta)data	NC	
To be Reusable:		
R1. meta(data) are richly described with a plurality of accurate and relevant attributes	C	
R1.1. (meta)data are released with a clear and accessible data usage license	NC	Datasets will be released to specific Project partners for re-use to achieve and limitedly to the achievement of Project objectives. Unless specified in the DS Register, no third-party use of the datasets is allowed during and after the Project: in fact, datasets could be part of Companies background and foreground intellectual property.
R1.2. (meta)data are associated with detailed provenance	NC	
R1.3. (meta)data meet domain-relevant community standards	NC	

(*) Only publications and deliverables will be made openly available as the default. Most of technical datasets cannot be shared out of the Consortium for confidentiality reasons: they can be shared within the Consortium with the restrictions set forth as per Consortium Agreement. Most of data and relevant metadata will be deposited in local repositories, apart from Project deliverables, that will be stored in the Project repository.

5.3 Resources and responsibilities

No specific costs for data management or related to open access to research data are foreseen for the AETHER Project.

The Project Coordinator is accountable for data management: the responsibilities for local management of data lies with the owners of datasets.

5.4 Data security

TBD

5.5 Ethical aspects

No ethical or legal issues have been identified so far that can have an impact on data sharing.

END OF DOCUMENT

Annex 1 – DS Register Sheet Template

DATASET REGISTER SHEET	
Partner	
Issue	
Date	
Data identification	
Dataset Code	
Dataset Description	
Data type	
Source	
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	
Partner in charge of the data collection	
Partner in charge of the data analysis	
Related WP(s) and task(s)	
Standards	
Info about metadata (production and storage dates, places) and documentation	
Standards, format, estimated volume of data	
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	
Data sharing, re-use, distribution, publication (How?)	
Embargo periods (if any)	
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	

Annex 2 – Dataset Register

DATASET REGISTER				
CONSORTIUM	AETHER			
ISSUE	1.0			
DATE	30/06/2020			
#	**DS Code**	**Dataset (DS) Name**	**Responsible Partner**	**Related WP(s)**
1	AST_DS_1	Input of Analyses and Simulations	SITAEL	WP2
2	AST_DS_2	Output of analyses and simulations	not applicable	WP2
3	AST_DS_3	Project deliverables and other documents	not applicable	WP2
4	DED_DS_1	Atmospheric components for various altitudes	DEDALOS Ltd	WP2
5	SIT_DS_1	RAM-EP System Design Optimization	SITAEL	WP2
6	SIT_DS_2	PFG (VLEO flow source) modelling	SITAEL	WP5
7	SIT_DS_3	PFG Experimental Characterization Data	SITAEL	WP5
8	SIT_DS_4	RAM-EP Thruster Design (ionization + Closed drift Acceleration Stage)	SITAEL	WP7 - WP8
9	SIT_DS_5	Stand-alone Ionization+Closed Electron Drift Acceleration stages characterization	SITAEL	WP7-WP8
10	SIT_DS_6	End-to-end RAM-EP system characterization	TBD	WP11
11	SIT_DS_7	Advisory Board market assessment	SITAEL	WP1
12	Surrey_DS_1	Alternative Neutraliser Test Data	Surrey	WP10
13	Surrey_DS_2	Design Information on Alterantive Neutraliser	Surrey	WP10
14	Surrey_DS_3	Alternative Neutraliser Validation and Test Procedure	Surrey	WP10
15	TMIT_DS_1	D5.2 Ion engine PFG assessment report	TransMIT	WP5
16	TMIT_DS_2	D9.1 Charge separation acceleration stage specifications	TransMIT	WP9
17	TMIT_DS_3	Charge Separation Acceleration Stage design	TransMIT	WP9
18	TMIT_DS_4	D9.2 Charge separation acceleration stage design description	TransMIT	WP9
19	TMIT_DS_5	D9.4 Charge separation acceleration stage test plan	TransMIT	WP9
20	TMIT_DS_6	D9.5 Charge separation acceleration stage validation test report	TransMIT	WP9
21	TMIT_DS_7	Test Data/Measurements from the D9.3 Charge Separation Acceleration Stage Demonstrator Validation Test	TransMIT	WP9

DATASET REGISTER				
CONSORTIUM	AETHER			
ISSUE	1.0			
DATE	30/06/2020			
#	**DS Code**	**Dataset (DS) Name**	**Responsible Partner**	**Related WP(s)**
22	TMIT_DS_8	Test Data/Measurements from the D9.3 Charge Separation Acceleration Stage test	TBD	WP11
23	TMIT_DS_9	Images of the D9.3 Charge Separation Acceleration Stage and the test set-ups	TransMIT	WP9; WP11
24	TMIT_DS_10	MEMO set	TransMIT	All WPs, all Tasks
25	TMIT_DS_11	MoM set	TransMIT	WP1; WP2; WP5; WP9; WP11
26	TMIT_DS_12	Email exchange	TransMIT	All WPs, all Tasks
27	TMIT_DS_13	Progress and Periodic (Technical and Financial) Reports	TransMIT	All WPs, all Tasks
28	VKI_DS_1	ram-EP integration to S/C	VKI	WP2
29	VKI_DS_2	Plasma modeling	VKI	WP3
30	VKI_DS_3	Non-invasive diagnostic	VKI	WP4
31	VKI_DS_4	Intake design	VKI	WP6
32	VKI_DS_5	Intake manufacturing	VKI	WP6
33	VKI_DS_6	Intake optimization	VKI	WP6
34	VKI_DS_7	Intake testing	TBD	WP11

Partner	Astos Solutions
Issue	1.0
Date	14/05/2020
Data identification	
Dataset Code	AST_DS_1
Dataset Description	Input of Analyses and Simulations
Data type	electronic
Source	SITAEL
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	SITAEL
Partner in charge of the data collection	SITAEL
Partner in charge of the data analysis	SITAEL
Related WP(s) and task(s)	WP2
Standards	
Info about metadata (production and storage dates, places) and documentation?	not available
Standards, format, estimated volume of data	Standard: none Format: CSV Volume: several Kilobyte to Gigabyte
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	for simulations and analyses
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	confidential
Data sharing, re-use, distribution, publication (How?)	not applicable
Embargo periods (if any)	not applicable
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	not applicable
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Where: local repository at site How long: forever

Partner	Astos Solutions
Issue	1.0
Date	14/05/2020
Data identification	
Dataset Code	AST_DS_2
Dataset Description	Output of analyses and simulations
Data type	electronic
Source	ASTOS 9.12
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	not applicable
Partner in charge of the data collection	not applicable
Partner in charge of the data analysis	not applicable
Related WP(s) and task(s)	WP2
Standards	
Info about metadata (production and storage dates, places) and documentation?	not available
Standards, format, estimated volume of data	Standard: none Format: binary STRUCT Volume: up to several Gigabyte
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	post processing
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	confidential
Data sharing, re-use, distribution, publication (How?)	not applicable
Embargo periods (if any)	not applicable
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	not applicable
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Where: local repository at site How long: forever

Partner	Astos Solutions
Issue	1.0
Date	14/05/2020
Data identification	
Dataset Code	AST_DS_3
Dataset Description	Project deliverables and other documents
Data type	electronic
Source	Microsoft Office
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	not applicable
Partner in charge of the data collection	not applicable
Partner in charge of the data analysis	not applicable
Related WP(s) and task(s)	WP2
Standards	
Info about metadata (production and storage dates, places) and documentation?	Descriptive metadata: identifier, title, abstract, descriptive comments and keywords Structural metadata: table of contents Administrative metadata: author(s) and affiliation, reviewer(s) and affiliation, acceptance, type of document, dissemination level, document status, work package, estimated delivery date, actual delivery data and circulation list
Standards, format, estimated volume of data	Standard: AETHER naming convention Format: Microsoft Office (docx, xlsx, etc.), PDF Volume: up to several hundred Megabyte
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	deliverables, documentation
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	confidential
Data sharing, re-use, distribution, publication (How?)	not applicable
Embargo periods (if any)	not applicable
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	not applicable
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Where: local repository at site How long: forever

Partner	DEDALOS
Issue	1.0
Date	18/06/2020
Data identification	
Dataset Code	DED_DS_1
Dataset Description	Four Tables (1-4) and four Figures giving atmospheric components for various altitudes
Data type	Numerical tables and figures
Source	4CDGM model results
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	DEDALOS Ltd
Partner in charge of the data collection	DEDALOS Ltd
Partner in charge of the data analysis	DEDALOS Ltd
Related WP(s) and task(s)	WP2
Standards	
Info about metadata (production and storage dates, places) and documentation?	TBD
Standards, format, estimated volume of data	TBD
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	TBD
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential
Data sharing, re-use, distribution, publication (How?)	None
Embargo periods (if any)	similar to 'Review of atmospheric propellants' report
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	None
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Storage by DEDALOS Ltd, duration similar to 'Review of atmospheric propellants' report

Partner	SITAEL
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	SIT_DS_1
Dataset Description	RAM-EP System Design Optimization
Data type	Output from optimization
Source	Matlab Script
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	SITAEL
Partner in charge of the data collection	SITAEL
Partner in charge of the data analysis	SITAEL
Related WP(s) and task(s)	WP2
Standards	
Info about metadata (production and storage dates, places) and documentation?	Configuration code, author, date of creation, purpose, distribution level, versioning. On-site database server, D2.5 System Design Description
Standards, format, estimated volume of data	No standard
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	RAM-EP System Requirement Derivaiton
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential
Data sharing, re-use, distribution, publication (How?)	Internal, among the partners. Publication of data to be evaluated by the consortium
Embargo periods (if any)	-
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	On-site backup

Partner	SITAEL
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	SIT_DS_2
Dataset Description	PFG (VLEO flow source) modelling
Data type	Output from simulation
Source	Hall discharge 1D model , PICplus3D simulations
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	SITAEL
Partner in charge of the data collection	SIT
Partner in charge of the data analysis	SIT
Related WP(s) and task(s)	WP5
Standards	
Info about metadata (production and storage dates, places) and documentation?	Configuration code, author, date of creation, purpose, distribution level, versioning. On-site database server.
Standards, format, estimated volume of data	TBD
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	Flow properties at the inlet of the ram-EP system during on-gound testing, evaluation of VLEO representativeness
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential
Data sharing, re-use, distribution, publication (How?)	Internal, among the partners. Publication of data to be evaluated by SITAEL
Embargo periods (if any)	-
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	On-site backup

Partner	SITAEL
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	SIT_DS_3
Dataset Description	PFG Experimental Characterization Data
Data type	Output from experiments
Source	Thrust balance, voltage and current probes, Faraday probes
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	SITAEL
Partner in charge of the data collection	SIT
Partner in charge of the data analysis	SIT
Related WP(s) and task(s)	WP5
Standards	
Info about metadata (production and storage dates, places) and documentation?	Configuration code, author, date of creation, purpose, distribution level, versioning. Experimental data, on-site database server. D5.4 PFG Characterization Test Plan, D5.5 PFG Characterization Test Report, D10.5 Hollow Cathode for atmospheric propellant assessment
Standards, format, estimated volume of data	TBD
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	Standalone Air-fed hollow cathode characterization, PFG characterization, use of experimental data for PFG model validation and calibration
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential
Data sharing, re-use, distribution, publication (How?)	Internal, among the partners. Publication of data to be evaluated by SITAEL
Embargo periods (if any)	-
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	On-site backup

Partner	SITAEL
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	SIT_DS_4
Dataset Description	RAM-EP Thruster Design (ionization + Closed drift Acceleration Stage)
Data type	CAD drawings, magnetic analysis, thermal analysis
Source	Pro-Engineering, FEMM, COMSOL
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	SITAEL
Partner in charge of the data collection	SIT
Partner in charge of the data analysis	SIT
Related WP(s) and task(s)	WP7 - WP8
Standards	
Info about metadata (production and storage dates, places) and documentation?	Configuration code, author, date of creation, purpose, distribution level, versioning.. FEMM magnetic simulations, CAD drawing, thermal simulation. On-site database server.
Standards, format, estimated volume of data	TBD
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	RAM-EP thruster design and MAI
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential
Data sharing, re-use, distribution, publication (How?)	None
Embargo periods (if any)	-
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	On-site backup

Partner	SITAEL
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	SIT_DS_5
Dataset Description	Stand-alone Ionization+Closed Electron Drift Acceleration stages characterization
Data type	Output from experiments
Source	Thrust balance, voltage and current probes, Faraday probes
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	SITAEL
Partner in charge of the data collection	SIT
Partner in charge of the data analysis	SIT
Related WP(s) and task(s)	WP7-WP8
Standards	
Info about metadata (production and storage dates, places) and documentation?	Configuration code, author, date of creation, purpose, distribution level, versioning. Experimental data, on-site database server. D7.4 Ionization Stage Test Plan, D7.5 Ionization Stage Test Report, D8.4 Closed Electron Drift Acceleration Stage Test Plan, D8.5 Closed Electron Drift Acceleration Stage Test Report
Standards, format, estimated volume of data	no standard
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	Ionization and acceleration stage design verification and validation
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential
Data sharing, re-use, distribution, publication (How?)	None. Publication of data to be evaluated by SITAEL
Embargo periods (if any)	-
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	On-site backup

Partner	SITAEL
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	SIT_DS_6
Dataset Description	End-to-end RAM-EP system characterization
Data type	Output from experiments
Source	Thrust balance, voltage and current probes, Faraday probes
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TBD
Partner in charge of the data collection	TBD
Partner in charge of the data analysis	TBD
Related WP(s) and task(s)	WP11
Standards	
Info about metadata (production and storage dates, places) and documentation?	Configuration code, author, date of creation, purpose, distribution level, versioning. Experimental data, on-site database server. D11.1 RAM-EP Validation Test Plan & Procedures, D11.2 RAM-EP Validation Test Report, D11.3 RAM-EP Validation Test Report
Standards, format, estimated volume of data	TBD
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	RAM-EP system design verificaton and validation
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential
Data sharing, re-use, distribution, publication (How?)	Internal, among the partners. Publication of data to be evaluated by the consortium
Embargo periods (if any)	-
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	On-site backup

Partner	SITAEL
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	SIT_DS_7
Dataset Description	Advisory Board market assessment
Data type	Data collection
Source	Advisory Board
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	SITAEL
Partner in charge of the data collection	SIT
Partner in charge of the data analysis	SIT
Related WP(s) and task(s)	WP1
Standards	
Info about metadata (production and storage dates, places) and documentation?	Configuration code, author, date of creation, purpose, distribution level, versioning.. Office Excel spreadsheets, on-site database server. D1.1 Market Analysis First Issue D1.10 Market Analysis Second Issue D1.16 Market Analysis Final Issue
Standards, format, estimated volume of data	TBD
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	RAM-EP market analysis
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential
Data sharing, re-use, distribution, publication (How?)	Internal, among the partners
Embargo periods (if any)	-
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	On-site backup

Partner	Surrey
Issue	1.0
Date	13/05/2020
Data identification	
Dataset Code	Surrey_DS_1
Dataset Description	Alternative Neutraliser Test Data
Data type	Measurements from a test campaign
Source	Alternative Neutraliser Experimental Development and Final Testing
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	Surrey
Partner in charge of the data collection	Surrey
Partner in charge of the data analysis	Surrey
Related WP(s) and task(s)	WP10.3.2, WP10.3.5
Standards	
Info about metadata (production and storage dates, places) and documentation?	Info about metadata TBD. Files will be stored in internal servers at the University of Surrey.
Standards, format, estimated volume of data	No standards. Format: Excel spreadsheet. Volume: NA
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	Alternative neutraliser development.
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Data shared with AETHER partners. Possible sharing with the scientifc communtity (tbd).
Data sharing, re-use, distribution, publication (How?)	Project deliverables and publications in Journals/Conference Proceedings (tbd).
Embargo periods (if any)	Tbd
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	They are not personal data.
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Data will be stored in internal servers at the University of Surrey for at least 5 years.

Partner	Surrey
Issue	1.0
Date	13/05/2020
Data identification	
Dataset Code	Surrey_DS_2
Dataset Description	Design Information on Alterantive Neutraliser
Data type	Design report
Source	Alternative Neutraliser Design
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	Surrey
Partner in charge of the data collection	Surrey
Partner in charge of the data analysis	Surrey
Related WP(s) and task(s)	WP10.3.3
Standards	
Info about metadata (production and storage dates, places) and documentation?	Info about metadata TBD. Files will be stored in internal servers at the University of Surrey.
Standards, format, estimated volume of data	No standards. Format: Pdf. Volume: NA.
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	Alternative neutraliser development.
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Design report shared with AETHER partners only. Further dissemination to be determined.
Data sharing, re-use, distribution, publication (How?)	Project deliverables.
Embargo periods (if any)	Tbd
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	They are not personal data.
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Data will be stored in internal servers at the University of Surrey for at least 5 years.

Partner	Surrey
Issue	1.0
Date	13/05/2020
Data identification	
Dataset Code	Surrey_DS_3
Dataset Description	Alternative Neutraliser Validation and Test Procedure
Data type	Test Procedure
Source	Alternative Neutraliser Final Testing
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	Surrey
Partner in charge of the data collection	Surrey
Partner in charge of the data analysis	Surrey
Related WP(s) and task(s)	WP10.3.5
Standards	
Info about metadata (production and storage dates, places) and documentation?	Info about metadata TBD. Files will be stored in internal servers at the University of Surrey.
Standards, format, estimated volume of data	No standards. Format: Pdf. Volume: NA.
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	Alternative neutraliser development and integration in the AETHER system validation test.
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Procedures shared with AETHER partners only.
Data sharing, re-use, distribution, publication (How?)	Project deliverables.
Embargo periods (if any)	Tbd
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	They are not personal data.
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Data will be stored in internal servers at the University of Surrey for at least 5 years.

Partner	TMIT
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	TMIT_DS_1
Dataset Description	D5.2 Ion engine PFG assessment report
Data type	Report/Project deliverable
Source	WP5
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TransMIT
Partner in charge of the data collection	TransMIT
Partner in charge of the data analysis	TransMIT
Related WP(s) and task(s)	WP5; Task 5.2
Standards	
Info about metadata (production and storage dates, places) and documentation?	The document will be stored in EC Participant portal as well as within TransMIT storage system. Metadata will be added manually and includes the title, the partner organization, production and storage dates and keywords that classify the project deliverable.
Standards, format, estimated volume of data	The document will be stored as the cross-platform portable document format (PDF) and are estimated to be maximum 100 MB .
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	The document will discuss the pros and cons of using an ion engine-like particle flow generator instead of a HET-like system.
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential, only for members of the consortium (including the Commission Services)
Data sharing, re-use, distribution, publication (How?)	Data will be shared only with members of the consortium including the Commission Services through the publication in EC Participant portal.
Embargo periods (if any)	None
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Data will be stored in the storage device of TransMIT. A back up will be stored in an external storage device of TransMIT. The data will be stored for the time period of not less than 3 years from the project finalisation.

Partner	TMIT
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	TMIT_DS_2
Dataset Description	D9.1 Charge separation acceleration stage specifications
Data type	Report/Project deliverable
Source	WP9
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TransMIT
Partner in charge of the data collection	TransMIT, Sitael
Partner in charge of the data analysis	TransMIT
Related WP(s) and task(s)	WP9; Task 9.1
Standards	
Info about metadata (production and storage dates, places) and documentation?	The document will be stored in EC Participant portal as well as within TransMIT storage system. Metadata will be added manually and includes the title, the partner organization, production and storage dates and keywords that classify the project deliverable.
Standards, format, estimated volume of data	The document will be stored as the cross-platform portable document format (PDF) and are estimated to be maximum 100 MB .
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	The document will introduce sub-system specifications and requirements for the design phase of the acceleration stage of the charge separation type.
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential, only for members of the consortium (including the Commission Services)
Data sharing, re-use, distribution, publication (How?)	Data will be shared only with members of the consortium including the Commission Services through the publication in EC Participant portal.
Embargo periods (if any)	None
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Data will be stored in the storage device of TransMIT. A back up will be stored in an external storage device of TransMIT. The data will be stored for the time period of not less than 3 years from the project finalisation.

Partner	TMIT
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	TMIT_DS_3
Dataset Description	Charge Separation Acceleration Stage design
Data type	Design documentation
Source	WP9
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TransMIT
Partner in charge of the data collection	TransMIT
Partner in charge of the data analysis	TransMIT
Related WP(s) and task(s)	WP9; Task 9.1, Task 9.2
Standards	
Info about metadata (production and storage dates, places) and documentation?	The data set will be stored within TransMIT storage system. Metadata are generated automatically including the title, the partner organization, production and storage dates and part name for single drawings.
Standards, format, estimated volume of data	The data set consists of CATIA (computer-aided three-dimensional interactive application) CAD documentation including 3D assembly, 3D parts and 2D drawings for both assembly and parts. Estimated total size will be maximum 0,5 GB .
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	The design documentation will be used for the manufacturing and integration of the Charge Separation Acceleration Stage for the AETHER activity.
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Proprietary of TransMIT, for internal use only
Data sharing, re-use, distribution, publication (How?)	Data set is not to be shared
Embargo periods (if any)	None
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Data will be stored in the storage device of TransMIT. A back up will be stored in an external storage device of TransMIT. The data will be stored for the time period of not less than 3 years from the project finalisation.

Partner	TMIT
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	TMIT_DS_4
Dataset Description	D9.2 Charge separation acceleration stage design description
Data type	Report/Project deliverable
Source	WP9
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TransMIT
Partner in charge of the data collection	TransMIT
Partner in charge of the data analysis	TransMIT
Related WP(s) and task(s)	WP9; Task 9.1, Task 9.2
Standards	
Info about metadata (production and storage dates, places) and documentation?	The document will be stored in EC Participant portal as well as within TransMIT storage system. Metadata will be added manually and includes the title, the partner organization, production and storage dates and keywords that classify the project deliverable.
Standards, format, estimated volume of data	The document will be stored as the cross-platform portable document format (PDF) and are estimated to be maximum 100 MB .
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	The document will give insight to the design description of the charge separation type acceleration stage.
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential, only for members of the consortium (including the Commission Services)
Data sharing, re-use, distribution, publication (How?)	Data will be shared only with members of the consortium including the Commission Services through the publication in EC Participant portal.
Embargo periods (if any)	None
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Data will be stored in the storage device of TransMIT. A back up will be stored in an external storage device of TransMIT. The data will be stored for the time period of not less than 3 years from the project finalisation.

Partner	TMIT
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	TMIT_DS_5
Dataset Description	D9.4 Charge separation acceleration stage test plan
Data type	Report/Project Deliverable
Source	WP9
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TransMIT
Partner in charge of the data collection	TransMIT
Partner in charge of the data analysis	TransMIT
Related WP(s) and task(s)	WP9; Task 9.1, Task 9.2, Task 9.3
Standards	
Info about metadata (production and storage dates, places) and documentation?	The document will be stored in EC Participant portal as well as within TransMIT storage system. Metadata will be added manually and includes the title, the partner organization, and keywords that classify the project deliverable.
Standards, format, estimated volume of data	The document will be stored as the cross-platform portable document format (PDF) and are estimated to be maximum 100 MB .
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	The purpose of this report/project deliverable is to detail the test plan and procedures for the validation of D9.3 Charge Separation Acceleration Stage Demonstrator. Any applicable Special equipment performance data, data sheets, calibration information and I/F will be attached in the form of Annexes.
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential, only for members of the consortium (including the Commission Services)
Data sharing, re-use, distribution, publication (How?)	Data will be shared only with members of the consortium including the Commission Services through the publication in EC Participant portal.
Embargo periods (if any)	None
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Data will be stored in the storage device of TransMIT. A back up will be stored in an external storage device of TransMIT. The data will be stored for the time period of not less than 3 years from the project finalisation.

Partner	TMIT
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	TMIT_DS_6
Dataset Description	D9.5 Charge separation acceleration stage validation test report
Data type	Report/Project Deliverable
Source	WP9
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TransMIT
Partner in charge of the data collection	TransMIT
Partner in charge of the data analysis	TransMIT
Related WP(s) and task(s)	WP9; Task, 9.1, Task 9.2, Task 9.3, Task 9.4
Standards	
Info about metadata (production and storage dates, places) and documentation?	The document is stored in EC Participant portal as well as within TransMIT storage system. Metadata is added manually and includes the title, the partner organization, and keywords that classify the project deliverable.
Standards, format, estimated volume of data	The document is stored as the cross-platform portable document format (PDF) and are estimated to be maximum 100 MB.
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	The purpose of this report/project deliverable is to detail the test results of the validation campaign of the D9.3 Charge Separation Acceleration Stage Demonstrator.
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential, only for members of the consortium (including the Commission Services)
Data sharing, re-use, distribution, publication (How?)	Data are shared only with members of the consortium including the Commission Services through the publication in EC Participant portal.
Embargo periods (if any)	None
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Data will be stored in the storage device of TransMIT. A back up will be stored in an external storage device of TransMIT. The data will be stored for the time period of not less than 3 years from the project finalisation.

Partner	TMIT
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	TMIT_DS_7
Dataset Description	Test Data/Measurements from the D9.3 Charge Separation Acceleration Stage Demonstrator Validation Test
Data type	Measurements from a test campaign
Source	WP9
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TransMIT
Partner in charge of the data collection	TransMIT
Partner in charge of the data analysis	TransMIT
Related WP(s) and task(s)	WP9; Task 9.1, Task 9.5
Standards	
Info about metadata (production and storage dates, places) and documentation?	The data set will be stored within TransMIT storage system. Metadata will be added automatically and includes the title, the partner organization, production date and times.
Standards, format, estimated volume of data	The data set will be represented by the ZIP archive file format of the raw data files in the TXT text file format. Estimated total size will be maximum 5 GB .
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	The data set purpose is to be used for validation of the charge separation acceleration stage design developed in WP9 over a range of operating conditions.
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Proprietary of TransMIT, for internal use only
Data sharing, re-use, distribution, publication (How?)	Data will not be shared instead they will be analysed by TransMIT and reported in the frame of D9.5 (TMIT_DS_6)
Embargo periods (if any)	None
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Data will be stored in the storage device of TransMIT. A back up will be stored in an external storage device of TransMIT. The data will be stored for the time period of not less than 3 years from the project finalisation.

Partner	TMIT
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	TMIT_DS_8
Dataset Description	Test Data/Measurements from the D9.3 Charge Separation Acceleration Stage test
Data type	Measurements from a test campaign
Source	WP11
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TBD
Partner in charge of the data collection	TBD
Partner in charge of the data analysis	TBD
Related WP(s) and task(s)	WP11; ST 11.2.3
Standards	
Info about metadata (production and storage dates, places) and documentation?	The data set will be stored within TransMIT storage system. Metadata will be added manually and includes the title, the partner organization, production date and times.
Standards, format, estimated volume of data	The data set will be represented by the ZIP archive file format of the raw data files in the TXT text file format. Estimated total size will be maximum 5 GB .
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	The data set purpose is to be used for validation of the RAM-EP thruster design when using charge separation acceleration stage developed in WP9 over a range of operating conditions, therefore information regarding all the relevant performances (thrust, power consumption etc.) as well as environmental and input parameters will be collected.
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Proprietary of involved Partners, for internal use only
Data sharing, re-use, distribution, publication (How?)	Data will be not shared instead they will be analysed by TransMIT, Sitael and VKI and reported in the frame of D11.2 and D11.3
Embargo periods (if any)	None
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Data will be stored in the storage device of TransMIT. A back up will be stored in an external storage device of TransMIT. The data will be stored for the time period of not less than 3 years from the project finalisation.

Partner	TMIT
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	TMIT_DS_9
Dataset Description	Images of the D9.3 Charge Separation Acceleration Stage and the test set-ups
Data type	Reference images
Source	WP9, WP11
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TransMIT
Partner in charge of the data collection	TransMIT
Partner in charge of the data analysis	TransMIT
Related WP(s) and task(s)	WP9; Task 9.3, Task 9.4; WP11; Task 11.2.2, Task 11.2.3
Standards	
Info about metadata (production and storage dates, places) and documentation?	The data set will be stored within TransMIT storage system. Metadata will be added manually and includes the title, the partner organization for archive or automatically for production date and times for single photos.
Standards, format, estimated volume of data	The data set will be represented by the ZIP archive file format of the raw data files in the JPG format. The size is estimated to be maximum 10 GB.
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	The purpose of this data set is to document particularities of the test campaigns on the D9.3 Charge Separation Acceleration Stage Demonstrator as well as its overall design.
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential, only for members of the consortium (including the Commission Services)
Data sharing, re-use, distribution, publication (How?)	Selected data will be shared within different Project Deliverable documents as well as for use in dissemination purposes.
Embargo periods (if any)	None
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Data will be stored in the storage device of TransMIT. A back up will be stored in an external storage device of TransMIT. The data will be stored for the time period of not less than 3 years from the project finalisation.

Partner	TMIT
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	TMIT_DS_10
Dataset Description	MEMO set
Data type	General technical/administrative information
Source	All WPs
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TransMIT
Partner in charge of the data collection	TransMIT
Partner in charge of the data analysis	TransMIT
Related WP(s) and task(s)	All WPs, all Tasks
Standards	
Info about metadata (production and storage dates, places) and documentation?	The data set will be stored within TransMIT storage system. Metadata will be added manually and includes the title, the partner organization, and keywords, production date and times.
Standards, format, estimated volume of data	The data set will be represented by the ZIP archive file format of the data files in the DOC or PDF format. The size is estimated to be maximum 0,5 GB.
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	The set will be comprised of single formalised inputs of Technical or Administrative information provided by TransMIT to enable execution of the tasks by other partners under AETHER activity
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential, only for members of the consortium (including the Commission Services)
Data sharing, re-use, distribution, publication (How?)	Each MEMO will be shared within the consortium as applicable per its content.
Embargo periods (if any)	None
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Data will be stored in the storage device of TransMIT. A back up will be stored in an external storage device of TransMIT. The data will be stored for the time period of not less than 3 years from the project finalisation.

Partner	TMIT
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	TMIT_DS_11
Dataset Description	MoM set
Data type	Minutes of Meetings
Source	WP1, WP2, WP5, WP9, WP11
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TransMIT
Partner in charge of the data collection	TransMIT
Partner in charge of the data analysis	TransMIT
Related WP(s) and task(s)	WP1; WP2, Task 2.4; WP5, Task 5.2; WP9 Task 9.1, Task 9.2; WP11
Standards	
Info about metadata (production and storage dates, places) and documentation?	The data set will be stored within TransMIT storage system. Metadata will be added manually and includes the title, the partner organization, and keywords, production date and times.
Standards, format, estimated volume of data	The data set will be represented by the ZIP archive file format of the data files in the DOC or PDF format. The size is estimated to be maximum 50 MB.
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	The set will be comprised of single formalised MoMs called by TransMIT to enable execution of the tasks under AETHER activity, formalise the exchange between involved partners, set action lists or formalise review outcomes if applicable.
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential, only for members of the consortium (including the Commission Services)
Data sharing, re-use, distribution, publication (How?)	Data will be shared only with members of the consortium including the Commission Services if applicable through via e-mail.
Embargo periods (if any)	None
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Data will be stored in the storage device of TransMIT. A back up will be stored in an external storage device of TransMIT. The data will be stored for the time period of not less than 3 years from the project finalisation.

Partner	TMIT
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	TMIT_DS_12
Dataset Description	Email exchange
Data type	General technical/administrative information
Source	All WPs
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TransMIT
Partner in charge of the data collection	TransMIT
Partner in charge of the data analysis	TransMIT
Related WP(s) and task(s)	All WPs, all Tasks
Standards	
Info about metadata (production and storage dates, places) and documentation?	The data set will be stored within TransMIT storage system.
Standards, format, estimated volume of data	The data set will be represented by the email archive using Maildir standard. The size is estimated to be maximum 5 GB.
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	The set will be comprised of single e-mails including attachments where applicable between project partners to enable execution of the tasks under AETHER activity, formalise the exchange between involved partners including non-formalised inputs to the activity.
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential, only for members of the consortium
Data sharing, re-use, distribution, publication (How?)	Data set will not be shared
Embargo periods (if any)	None
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	Might include personal data in which case written consent will be collected from data subjects.
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Data will be stored within TransMIT storage system. A back up will be stored in an external storage device of TransMIT. The data will be stored for the time period of not less than 6 years from the project finalisation.

Partner	TMIT
Issue	1.2
Date	15/07/2020
Data identification	
Dataset Code	TMIT_DS_13
Dataset Description	Progress and Periodic (Technical and Financial) Reports
Data type	Overview of the work carried out, and overview of the technical and financial information
Source	All WPs
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TransMIT
Partner in charge of the data collection	TransMIT
Partner in charge of the data analysis	TransMIT
Related WP(s) and task(s)	All WPs, all Tasks
Standards	
Info about metadata (production and storage dates, places) and documentation?	The data set will be stored within TransMIT storage system.
Standards, format, estimated volume of data	The data set will be represented by the ZIP archive file format of the data files in the DOC or PDF format. The size is estimated to be maximum 0,5 GB.
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	The set will be comprised of single progress and periodic (technical and financial) reports including attachments where applicable, they will contain an overview of the work carried out by TransMIT, its technical progress, and financial statements.
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential, only for members of the consortium (including the Commission Services)
Data sharing, re-use, distribution, publication (How?)	Data are shared only with members of the consortium including the Commission Services through the publication in EC Participant portal.
Embargo periods (if any)	None
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	Data will be stored within TransMIT storage system. A back up will be stored in an external storage device of TransMIT. The data will be stored for the time period of not less than 6 years from the project finalisation.

Partner	VKI
Issue	1.1
Date	15/07/2020
Data identification	
Dataset Code	VKI_DS_1
Dataset Description	ram-EP integration to S/C
Data type	Output from Simulation
Source	Python script - DSMC SPARTA
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TBD
Partner in charge of the data collection	VKI
Partner in charge of the data analysis	VKI
Related WP(s) and task(s)	WP2
Standards	
Info about metadata (production and storage dates, places) and documentation?	Numerical simulations, CAD drawing. On-site database server.
Standards, format, estimated volume of data	TBD
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	ram-EP integration to S/C
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential
Data sharing, re-use, distribution, publication (How?)	
Embargo periods (if any)	-
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	On-site backup

Partner	VKI
Issue	1.1
Date	15/07/2020
Data identification	
Dataset Code	VKI_DS_2
Dataset Description	Plasma modeling
Data type	Output from simulation
Source	Lagrangian solver, PIC simulations
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TBD
Partner in charge of the data collection	VKI
Partner in charge of the data analysis	VKI
Related WP(s) and task(s)	WP3
Standards	
Info about metadata (production and storage dates, places) and documentation?	Numerical simulations. On-site database server.
Standards, format, estimated volume of data	TBD
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	Plasma composition at the inlet of the ram-EP
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential
Data sharing, re-use, distribution, publication (How?)	
Embargo periods (if any)	-
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	On-site backup

Partner	VKI
Issue	1.1
Date	15/07/2020
Data identification	
Dataset Code	VKI_DS_3
Dataset Description	Non-invasive diagnostic
Data type	Output from experiments
Source	Spectrometer
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TBD
Partner in charge of the data collection	VKI
Partner in charge of the data analysis	VKI
Related WP(s) and task(s)	WP4
Standards	
Info about metadata (production and storage dates, places) and documentation?	Experimental data, on-site database server. Test plan. Test report.
Standards, format, estimated volume of data	TBD
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	Plasma plume characterization
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential
Data sharing, re-use, distribution, publication (How?)	
Embargo periods (if any)	-
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	On-site backup

Partner	VKI
Issue	1.1
Date	15/07/2020
Data identification	
Dataset Code	VKI_DS_4
Dataset Description	Intake design
Data type	Output from optimization
Source	DSMC SPARTA - Optimization tool - Metamodel
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TBD
Partner in charge of the data collection	VKI
Partner in charge of the data analysis	VKI
Related WP(s) and task(s)	WP6
Standards	
Info about metadata (production and storage dates, places) and documentation?	Numerical simulations, CAD drawing. On-site database server.
Standards, format, estimated volume of data	TBD
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	Intake manufacturing / simulation
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential
Data sharing, re-use, distribution, publication (How?)	
Embargo periods (if any)	
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	On-site backup

Partner	VKI
Issue	1.1
Date	15/07/2020
Data identification	
Dataset Code	VKI_DS_5
Dataset Description	Intake manufacturing
Data type	Prototype
Source	CAD drawing
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TBD
Partner in charge of the data collection	VKI
Partner in charge of the data analysis	VKI
Related WP(s) and task(s)	WP6
Standards	
Info about metadata (production and storage dates, places) and documentation?	
Standards, format, estimated volume of data	-
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	ram-EP testing.
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential
Data sharing, re-use, distribution, publication (How?)	
Embargo periods (if any)	
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	-

Partner	VKI
Issue	1.1
Date	15/07/2020
Data identification	
Dataset Code	VKI_DS_6
Dataset Description	Intake optimization
Data type	Simulation
Source	DSMC SPARTA - Optimization tool - Metamodel
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TBD
Partner in charge of the data collection	VKI
Partner in charge of the data analysis	VKI
Related WP(s) and task(s)	WP6
Standards	
Info about metadata (production and storage dates, places) and documentation?	Numerical simulations, on-site database server.
Standards, format, estimated volume of data	TBD
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	Intake performance analysis
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential
Data sharing, re-use, distribution, publication (How?)	
Embargo periods (if any)	
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	On-site backup

Partner	VKI
Issue	1.1
Date	15/07/2020
Data identification	
Dataset Code	VKI_DS_7
Dataset Description	Intake Testing
Data type	Measurement from test campaign
Source	Non invasive diagnostics, pressure gauge
Partners activities and responsibilities	
Partner owner of the data; copyright holder (if applicable)	TBD
Partner in charge of the data collection	VKI
Partner in charge of the data analysis	VKI
Related WP(s) and task(s)	WP11
Standards	
Info about metadata (production and storage dates, places) and documentation?	Experimental data, on-site database server. Test plan. Test report.
Standards, format, estimated volume of data	TBD
Data exploitation and sharing	
Data exploitation (purpose/use of the data analysis)	Intake qualification
Data access policy / Dissemination level : confidential (only for members of the Consortium and the Commission Services) or Public	Confidential
Data sharing, re-use, distribution, publication (How?)	Internal, among the partners. Publication of data to be evaluated by the consortium
Embargo periods (if any)	-
Personal data protection: are they personal data? If so, have you gained (written) consent from data subjects to collect this information?	-
Archiving and preservation (including storage and backup)	
Data storage (including backup): where? For how long?	On-site backup