



## D1.7 – Data Management Plan v2

### **Project name**

Asset Level Modelling of RISKS In the Face of Climate Induced Extreme Events and ADAPTation (RISKADAPT)

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0.2	22/05/2024	All partners	2 <sup>nd</sup> version of the DMP.
0.3	19/06/2024	FMI, RISA	Deliverable ready for internal review.
0.4	26/06/2024	FMI, RISA	Ready for quality check.
1.0	28/06/2024	ERRA	Quality check - Deliverable ready for submission.

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### List of Abbreviations and Acronyms

Abbreviation	Meaning
CDA	Climate Data Store
DMP	Data Management Plan
EU	European Union
EUCI	EU Classified Information
FAIR	Findable, Accessible, Interoperable, Re-usable
GDPR	General Data Protection Regulation
LCA	Life Cycle Assessment
LCC	Life Cycle Cost
WP	Work Package

## Executive Summary

The purpose of this document is to present the updated version of the Data Management Plan (DMP) that will be followed during RISKADAPT project to make data “Findable, Accessible, Interoperable, Re-usable” (FAIR). It provides guidance to the RISKADAPT project beneficiaries with regards to the collection, protection, storage, transfer, and analysis of digital and physical personal data subject to European and national legislations, as well as General Data Protection Regulation (GDPR) [2]. Specifically, this deliverable describes the datasets that will be collected or generated and how they will be managed during the project and beyond its completion. Moreover, the document presents how the FAIR principles, data security, and ethical aspects are addressed in the project. The DMP is a living document, which will be kept updated during the whole lifetime of the project, since data generation and collection, and therefore data management, will be active in RISKADAPT for a considerable time after the submission of its initial version. The datasets may also be altered due to converging factors, such as project maturity, legislative changes, etc.

## 1. Introduction

This deliverable is the second version of the Data Management Plan of the RISKADAPT project. The document has been prepared considering the guidelines available at the template “Horizon Europe, Data Management Plan Template” [1]. This deliverable is related to task T1.6 “Data Management Plan” of WP1 “Project Management”, presents an updated version of the Data Management Plan that should be followed by the RISKADAPT consortium partners. It specifies details of the datasets that will be collected or generated and how they will be managed during the project and beyond its completion. Moreover, the document presents how the “Findable, Accessible, Interoperable, Re-usable” (FAIR) principles, data security, and ethical aspects are addressed in the project.

This document is structured as follows:

- **Section 1:** Introduction and structure of the document.
- **Section 2:** Summarizes the Project.
- **Section 3:** Overview of the data lifecycle and application to RISKADAPT. A summary of the data expected to be collected or generated per Work Package and tables which provide details on the data lifecycle, the method of data collection, category of data that will be collected, formatting of the data, data size, data reproduction and reuse (where appropriate).
- **Section 4:** FAIR data management and processes to be followed relating to naming, searching and security of the document repository.
- **Section 5:** Allocation of resources issues.
- **Section 6:** Data security issues.
- **Section 7:** Ethical aspects related to RISKADAPT.
- **Section 8:** Data protection issues.
- **Section 9:** Report conclusions.

## 2. Project Summary

RISKADAPT will provide, in close cooperation with the end-users/other stakeholders, a novel, integrated, modular, interoperable, public, and free, customizable user-friendly platform (PRISKADAPT), to support systemic, risk-informed decisions regarding adaptation to climate change induced compound events at the asset level, focusing on the structural system. PRISKADAPT will explicitly model dependencies between infrastructures, which, inter alia, will provide a better understanding of the nexus between climate hazards and social vulnerabilities and resilience. In addition, this project will identify data gaps and propose ways to fill them, and advance the state of the art in asset level modelling through advanced climate science to predict climate change forcing on the structure of interest, structural analyses tailored to the specific structure of interest that consider all major climate change induced loading effects in conjunction with material deterioration, novel probabilistic environmental Life Cycle Assessment (LCA) and Life Cycle Cost (LCC) of structural adaptation measures, and a new climate risk assessment model that combines technical risk assessment with social risk assessment.

PRISKADAPT will provide values to a set of indicators for each asset of interest, quantifying primary parameters and impacts, in the form of a Model Information System (MIS) that will provide all required information for adaptation decisions. PRISKADAPT will be implemented in the case studies in the pilots that involve specific assets, however, it will permit customization with local values of parameters and data, so it can be applicable throughout Europe for climate change adaptation decisions involving assets of similar function, exposed to multiple climate hazards.

To meet its aim, RISKADAPT runs eight Work Packages (WPs) over 3 years. More specifically, WP1, WP7 and WP8 are the umbrella WPs dealing with project management, ethics requirements and the

communication, dissemination, exploitation, and standardisation activities. WP2 sets the specifications and requirements for all subsequent activities, as well as the architecture of the system to be developed. WP3 provides meteorological variables in the present and future climate and return periods of selected variables based on extreme value analysis. WP4 focusses on the material degradation and the resulting vulnerability of the pilots existing structures and their adaption options as well as developing a probabilistic LCA/LCC framework, while in WP5 the platform is designed and developed. WP3, WP4 and WP5 lead to the demonstration of the RISKADAPT developments in WP6 in the four pilots, along with the validation being performed at the end.

### 3. RISKADAPT Data Lifecycle and Summary

During the course of the project, various data will be produced and managed across the eight work packages (WPs) as previously outlined. In this Section, the data management lifecycle process for RIKSADAPT will be presented. Relevant datasets will be identified, and information regarding their origin, format, data sharing, archiving, and preservation will be analysed in Section 3.2.

#### 3.1 Data Lifecycle

In this section, the data lifecycle relevant to the RISKADAPT project is described. RISKADAPT considers the stages of data collection, processing, usage, and management throughout the entire project duration and after its completion. The four steps of the RISKADAPT data lifecycle (collect, process, store & archive, use, share & communicate) [1] - are illustrated in Figure 1 and described below.

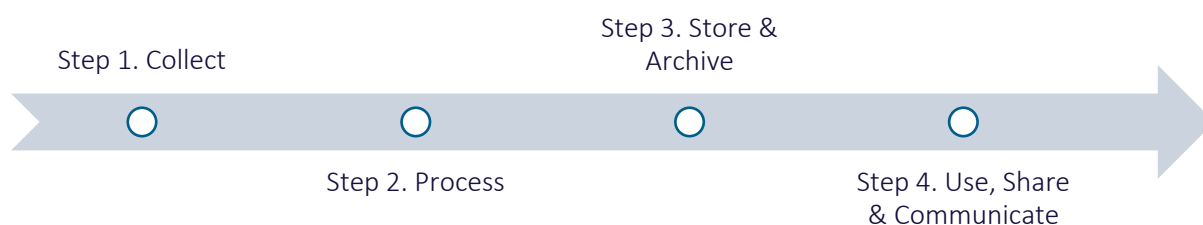


Figure 1: RISKADAPT data lifecycle steps

**Step 1. Collect:** This first step includes the generation or collection of data (project reports and other documents or spreadsheets) by RISKADAPT Partners. Data should be collected/generated in a structured manner in appropriate formats and layouts to enable their processing by the other project components, modules, Partners.

**Step 2. Process:** Data processing is the second phase of the data management lifecycle that takes a primary role in converting the data collected in the first stage of the lifecycle to information. More specifically, this step is related to data processing by the RISKADAPT partners and/or modules/components that have access to the data for carrying out Tasks within the project. In this step, partners must ensure that data processing is carried out in a way that fulfils the project's needs. This step involves data verification, organisation, transformation, integration, and extraction.

**Step 3. Store & Archive:** This step concerns storage and archiving (including searching) of data. Partners should ensure that updates are clearly following the naming protocol where possible so that documents' versioning is clear. Moreover, partners shall follow standards and procedures for storing and backing-up the data, ensuring integrity, access control and security.



**Step 4. Use, Share & Communicate:** Data usage, sharing & communication is the fourth stage of the data management lifecycle. Due to the security aspects of the project, some data will not be made available publicly, however in accordance with best practices, partners will ensure that data can be easily located and shared internally to the beneficiaries that require the data to perform their activities. This step is related to the previous step related to data storage and archiving.

### 3.2 Data Analysis

This Section presents the datasets that are collected or generated during the project, as identified by consortium partners in Sections 3.2.1-3.2.8.

#### 3.2.1 WP1 Datasets Description

Table 1 describes each dataset of “WP1 – Project Coordination” and provides information about their origin, format, data sharing, as well as regarding their archiving and preservation.

*Table 1: WP1 Datasets Description*

WP1 Datasets Description				
Dataset Name	Deliverables (public)	Deliverables (sensitive)	Project related surveys and questionnaires	Project meetings' related material
Which partner will use the data?	Project beneficiaries / External interested parties	Project beneficiaries	Project beneficiaries	Project beneficiaries
Which partner provides the data (if different from partner using)?	Project beneficiaries	Project beneficiaries	Project beneficiaries	Project beneficiaries
Work Package	WP1	WP1	WP1	WP1
Task/Deliverable	D1.2 – D1.8	D1.1	D1.2 – D1.8	All WP1 Tasks and Deliverables
Short Description	Data related to project management, reporting, data, quality and risk management activities.	Data related to project server management.	Data related to project management, reporting, data, quality and risk management activities.	Data related to project management, reporting, quality and risk management activities.
Format/Type	MS Word	MS Word	MS Word, MS PowerPoint, MS Excel	MS Word, MS PowerPoint, MS Excel, MP4 files

<b>WP1 Datasets Description</b>				
<b>Dataset Name</b>	<b>Deliverables (public)</b>	<b>Deliverables (sensitive)</b>	<b>Project related surveys and questionnaires</b>	<b>Project meetings’ related material</b>
<b>Data Size</b>	~5 MB	~5 MB	~5 MB	~10 GB
<b>Public/ Sensitive</b>	PU- PUBLIC	SEN – SENSITIVE	SEN – SENSITIVE	SEN - SENSITIVE
<b>How will this data be used in RISKADAPT (data purpose)?</b>	Support project management, reporting, data, quality and risk management activities.	Specify technical framework and management of the project server.	Collect data to handle the project management, reporting, data, quality and risk management activities.	Inform participants (and those not able to join) about decisions and action points.
<b>Data Processing</b>				
<b>Will the data be processed?</b>	No	No	Yes	No
<b>What kind of processing is involved?</b>	N/A	N/A	Data collected from surveys and questionnaires will be anonymized and further processed, so as extract required information.	N/A
<b>What kind of derivative data is produced?</b>	No derivative data.	No derivative data.	No derivative data.	No derivative data.
<b>Data Storage</b>				
<b>Storage location and duration</b>	SharePoint (RISA) Project’s website (RISA) Partners’ PCs + 2 years	SharePoint (RISA) Partners’ PCs + 2 years	SharePoint (RISA) Partners’ PCs + 2 years	SharePoint (RISA) Partners’ PCs + 2 years

<b>WP1 Datasets Description</b>				
<b>Dataset Name</b>	<b>Deliverables (public)</b>	<b>Deliverables (sensitive)</b>	<b>Project related surveys and questionnaires</b>	<b>Project meetings' related material</b>
<b>Partner responsible to store data</b>	SharePoint (RISA) Project's website (RISA) All Partners	SharePoint (RISA) All Partners	SharePoint (RISA) All Partners	SharePoint (RISA) All Partners
<b>Secure storage procedures</b>	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.
<b>Data Access</b>				
<b>Are the data open?</b>	Yes	No	No	No
<b>Are the data available to all RISKADAPT partners?</b>	Yes	Yes	Yes	Yes
<b>How the data become accessible to stakeholders outside the consortium?</b>	Through website and open platforms.	N/A	N/A	N/A

### 3.2.2 WP2 Datasets Description

The following table describes each dataset of “WP2 - User Requirements, Architecture” and provides information about their origin, format, data sharing, as well as regarding their archiving and preservation.

*Table 2: WP2 Datasets Description*

<b>WP2 Datasets Description</b>			
<b>Dataset Name</b>	<b>Deliverables (public)</b>	<b>Project related surveys and questionnaires</b>	<b>Project meetings' related material</b>
<b>Which partner will use the data?</b>	Project beneficiaries / External interested parties	Project beneficiaries	Project beneficiaries
<b>Which partner provides the data (if different from partner using)?</b>	Project beneficiaries	Project beneficiaries	Project beneficiaries
<b>Work Package</b>	WP2	WP2	WP2
<b>Task/Deliverable</b>	T2.1, T2.2 D2.1, D2.2	T2.1, T2.2 D2.1, D2.2	T2.1, T2.2 D2.1, D2.2
<b>Short Description</b>	Data related to end-users needs and requirements, as well as platform's technical specifications and architecture.	Data related to the identification and definition of end-users needs and requirements, as well as platform's technical specifications and architecture.	Data related to the identification and definition of end-users needs and requirements, as well as platform's technical specifications and architecture.
<b>Format/Type</b>	MS Word	MS Word, MS PowerPoint, MS Excel	MS Word, MS PowerPoint, MS Excel, MP4 files
<b>Data Size</b>	~5 MB	~5 MB	~10 GB
<b>Public/ Sensitive</b>	PU- PUBLIC	SEN – SENSITIVE	SEN - SENSITIVE
<b>How will this data be used in RISKADAPT (data purpose)?</b>	Support identification and definition of end-users needs and Requirements, as well as platform's technical specifications and architecture.	Collect data to support the identification and definition of end-users needs and requirements, as well as platform's technical specifications and architecture.	Inform participants (and those not able to join) about decisions and action points.

<b>WP2 Datasets Description</b>			
<b>Dataset Name</b>	<b>Deliverables (public)</b>	<b>Project related surveys and questionnaires</b>	<b>Project meetings' related material</b>
<b>Data Processing</b>			
<b>Will the data be processed?</b>	No	Yes	No
<b>What kind of processing is involved?</b>	N/A	Data collected from surveys and questionnaires will be anonymised and further processed, so as extract required information.	N/A
<b>What kind of derivative data is produced?</b>	No derivative data.	No derivative data.	No derivative data.
<b>Data Storage</b>			
<b>Storage location and duration</b>	SharePoint (RISA) Project's website (RISA) Partners' PCs + 2 years	SharePoint (RISA) Partners' PCs + 2 years	SharePoint (RISA) Partners' PCs + 2 years
<b>Partner responsible to store data</b>	SharePoint (RISA) Project's website (RISA) All Partners	SharePoint (RISA) All Partners	SharePoint (RISA) All Partners
<b>Secure storage procedures</b>	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.
<b>Data Access</b>			
<b>Are the data open?</b>	Yes	No	No

<b>WP2 Datasets Description</b>			
<b>Dataset Name</b>	<b>Deliverables (public)</b>	<b>Project related surveys and questionnaires</b>	<b>Project meetings' related material</b>
<b>Are the data available to all RISKADAPT partners?</b>	Yes	Yes	Yes
<b>How the data become accessible to stakeholders outside the consortium?</b>	Through website and open platforms.	N/A	N/A

### 3.2.3 WP3 Datasets Description

Table 3 describes the datasets of “WP3 – Climate Data, CC Forcing, Multi-Hazard Modelling” and provides information about their origin, format, data sharing, as well as regarding their archiving and preservation.

Table 3: WP3 Datasets Description

<b>WP3 Datasets Description</b>					
<b>Dataset Name</b>	<b>HCLIM icing results for Pilot 2</b>	<b>Deliverables (public)</b>	<b>Project meetings' related material</b>	<b>Precipitations return levels for Pilot 1</b>	<b>Wind speed climatology for Pilot 3</b>
<b>Which partner will use the data?</b>	ERRA	Project beneficiaries / External interested parties	Project beneficiaries	ULFGG	UNIBO
<b>Which partner provides the data (if different from partner using)?</b>	FMI	Project beneficiaries	Project beneficiaries	FMI	FMI

<b>WP3 Datasets Description</b>					
<b>Dataset Name</b>	<b>HCLIM icing results for Pilot 2</b>	<b>Deliverables (public)</b>	<b>Project meetings' related material</b>	<b>Precipitations return levels for Pilot 1</b>	<b>Wind speed climatology for Pilot 3</b>
<b>Work Package</b>	WP3, WP4	WP3	WP3	WP3	WP3
<b>Task/Deliverable</b>		T3.1 – T3.3 D3.1 – D3.6	All WP3 Tasks and Deliverables		
<b>Short Description</b>	Icing model calculations for transmission tower structural analysis.	Description of the methods and data sets used for climatological analysis for project partners especially for the needs in pilots	Data related to WP3 management.	Precipitation return levels calculated from Euro-CORDEX climate model runs	Wind speed climatology and return levels calculated from Euro-CORDEX climate model runs
<b>Format/Type</b>	netcdf, csv.	MS Word	MS Word, MS PowerPoint, MS Excel, MP4 files	MS Word, Python Jupyter Notebook	MS Word, Python Jupyter Notebook
<b>Data Size</b>	~500 MB	~5 MB	~10 GB	2 MB	2 MB
<b>Public/ Sensitive</b>	PUBLIC	PUBLIC	SENSITIVE	PUBLIC	PUBLIC
<b>How will this data be used in RISKADAPT (data purpose)?</b>	Pilot 2 demonstrations	Support identification and definition of end-users needs and requirements.	Inform participants (and those not able to join) about decisions and action points.	T3.2, pilot 1	T3.3, pilot 3



<b>WP3 Datasets Description</b>					
<b>Dataset Name</b>	<b>HCLIM icing results for Pilot 2</b>	<b>Deliverables (public)</b>	<b>Project meetings' related material</b>	<b>Precipitations return levels for Pilot 1</b>	<b>Wind speed climatology for Pilot 3</b>
<b>Data Processing</b>					
<b>Will the data be processed?</b>	It is input for structural analysis	No	No	Provides information for further hydrological analyses	Provides information for structural analysis of tall buildings
<b>What kind of processing is involved?</b>	Data get processed to produce input for structural analysis.	N/A	N/A	N/A	N/A
<b>What kind of derivative data is produced?</b>	Structural analyses in WP4	No derivative data.	No derivative data.	Hydrological analyses	Structural analysis for pilot 3
<b>Data Storage</b>					
<b>Storage location and duration</b>	SharePoint (RISA) Partners' PCs + 2 years	SharePoint (RISA) Project's website (RISA) Partners' PCs + 2 years	SharePoint (RISA) Partners' PCs + 2 years	SharePoint (RISA) Partners' PCs + 2 years	SharePoint (RISA) Partners' PCs + 2 years
<b>Partner responsible to store data</b>	SharePoint (RISA) All Partners	SharePoint (RISA) Project's website (RISA)	SharePoint (RISA) All Partners	SharePoint (RISA)	SharePoint (RISA) All Partners

<b>WP3 Datasets Description</b>					
<b>Dataset Name</b>	<b>HCLIM icing results for Pilot 2</b>	<b>Deliverables (public)</b>	<b>Project meetings' related material</b>	<b>Precipitations return levels for Pilot 1</b>	<b>Wind speed climatology for Pilot 3</b>
		All Partners		All Partners	
<b>Secure storage procedures</b>	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.
<b>Data Access</b>					
<b>Are the data open?</b>	TBD	Yes	No	TBD	TBD
<b>Are the data available to all RISKADAPT partners?</b>	yes	Yes	Yes	Yes	YES
<b>How the data become accessible to stakeholders outside the consortium?</b>	Through website and open platforms.	Through website and open platforms.	N/A	Through website and open platforms.	Through website and open platforms.

### 3.2.4 WP4 Datasets Description

The following table describes “WP4 – Multi-Hazard Vulnerability and Adaptation, Structural Resistance Integration in Lifecycle Analyses” datasets and provides information about their origin, format, data sharing, as well as regarding their archiving and preservation.

*Table 4: WP4 Datasets Description*

<b>WP4 Dataset Description</b>							
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (public)</b>	<b>Adaption Options</b>	<b>Material degradation and structural vulnerability of adaption options and existing structures</b>	<b>Probabilistic LCA/LCC framework</b>	<b>LCA/LCC models results</b>	<b>Database</b>
<b>Which partner will use the data?</b>	Project beneficiaries	Project beneficiaries / External interested parties	Project beneficiaries / External interested parties	Project beneficiaries	Project beneficiaries	Project beneficiaries	Project beneficiaries
<b>Which partner provides the data (if different from partner using)?</b>	Project beneficiaries	Project beneficiaries	BIBM	Tecnic, FMI, ERRA, HKU, UOB	USTUTT	USTUTT	ERRA
<b>Work Package</b>	WP4	WP4	WP4	WP4	WP4	WP4	WP4
<b>Task/Deliverable</b>	All WP4 Tasks and Deliverables	T4.1 – T4.6 D4.1 – D4.3	T4.1	T4.2-T4.4	T4.5	T4.5	T4.6
<b>Short Description</b>	Data related to WP4 management.	Data related to all Tasks activities.	Data related to the structural adaption options	Data related to the material degradation and vulnerability of the structures	Data related to the description of the methodological framework of the LCA	Data related to the LCA/LCC results of the assessed pilots	Database to store information about the used materials and transactions

<b>WP4 Dataset Description</b>							
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (public)</b>	<b>Adaption Options</b>	<b>Material degradation and structural vulnerability of adaption options and existing structures</b>	<b>Probabilistic LCA/LCC framework</b>	<b>LCA/LCC models results</b>	<b>Database</b>
<b>Format/Type</b>	MS Word, MS PowerPoint, MS Excel, MP4 files	MS Word	MS Excel, MS Word, Adobe PDF	Several data types.	MatLab, MS Excel, MS PowerPoint.	MS Excel.	.CSV, .TXT, DBASE FILES
<b>Data Size</b>	~10 GB	~5 MB	~10 MB	~10 MB	~10 MB	~10 MB	~10 MB
<b>Public/ Sensitive</b>	SEN - SENSITIVE	PU- PUBLIC	SEN – SENSITIVE/PU-PUBLIC	SEN - SENSITIVE/PU-PUBLIC	SEN - SENSITIVE/PU-PUBLIC	SEN - SENSITIVE/PU-PUBLIC	SEN - SENSITIVE/PU-PUBLIC
<b>How will this data be used in RISKADAPT (data purpose)?</b>	Inform participants (and those not able to join) about decisions and action points.	Report on all WP4 respective actions.	Basis for material degradation and vulnerability assessment of structures, the LCA/LCC models as well as the WP5	Basis for the LCA/LCC models and WP5	Exemplary case study for Pilot 2	Will be used in WP5	Provides the data for WP in a structured format?
<b>Will the data be processed?</b>	No	No	At later stage	At later stage	At later stage	At later stage	No

<b>WP4 Dataset Description</b>							
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (public)</b>	<b>Adaption Options</b>	<b>Material degradation and structural vulnerability of adaption options and existing structures</b>	<b>Probabilistic LCA/LCC framework</b>	<b>LCA/LCC models results</b>	<b>Database</b>
<b>What kind of processing is involved?</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>What kind of derivative data is produced?</b>	No derivative data.	No derivative data.	No derivative data	At later stage	At later stage	At later stage	No derivative data.
<b>Storage location and duration</b>	SharePoint (RISA) Partners' PCs + 2 years	SharePoint (RISA) Project's website (RISA) Partners' PCs + 2 years	SharePoint (RISA) Partners' PCs + 2 years	SharePoint (RISA) Partners' PCs + 2 years	SharePoint (RISA) Partners' PCs + 2 years	SharePoint (RISA) Partners' PCs + 2 years	SharePoint (RISA) Partners' PCs + 2 years
<b>Partner responsible to store data</b>	SharePoint (RISA) All Partners	SharePoint (RISA) Project's website (RISA) All Partners	SharePoint (RISA) All Partners	SharePoint (RISA) All Partners	SharePoint (RISA) All Partners	SharePoint (RISA) All Partners	SharePoint (RISA) All Partners

<b>WP4 Dataset Description</b>							
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (public)</b>	<b>Adaption Options</b>	<b>Material degradation and structural vulnerability of adaption options and existing structures</b>	<b>Probabilistic LCA/LCC framework</b>	<b>LCA/LCC models results</b>	<b>Database</b>
<b>Secure storage procedures</b>	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.
<b>Are the data open?</b>	No	Yes	Partly	No	No	No	No
<b>Are the data available to all RISKADAPT partners?</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>How the data become accessible to stakeholders outside the consortium?</b>	N/A	Through website and open platforms.	Through website	N/A	N/A	N/A	N/A

### 3.2.5 WP5 Datasets Description

The following table describes “WP5 – PRISKADAPT, MIS and Data Gaps” datasets and explains their origin, format, data sharing, as well as archiving and preservation issues.

*Table 5: WP5 Datasets Description*

<b>WP5 Datasets Description</b>									
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (public)</b>	<b>Climate and meteorological data</b>	<b>Adaptation Options</b>	<b>Output from hydraulic and hydrological models.</b>	<b>Data on pilots' structures and risk assessments.</b>	<b>LCA/LCC models results</b>	<b>Social risks and impacts / total risk assessment / MIS relevant data per pilot</b>	<b>Data gaps</b>
<b>Which partner will use the data?</b>	Project beneficiaries	Project beneficiaries / External interested parties	Project beneficiaries	Project beneficiaries	Project beneficiaries	Project beneficiaries	Project beneficiaries	Project beneficiaries	Project beneficiaries
<b>Which partner provides the data (if different from partner using)?</b>	Project beneficiaries	Project beneficiaries	FMI, pilot leaders	BIBM	ULFGG	WP4 partners	USTUTT	RUG, RINA-C, RISA	UOB
<b>Work Package</b>	WP5	WP5	WP5	WP5	WP5	WP5	WP5	WP5	WP5
<b>Task/Deliverable</b>	All WP5 Tasks and Deliverables	T5.1 – T5.8 D5.1 – D5.9	T5.5, T5.6 D5.1, D5.4, D5.8	T5.5, T5.6 D5.1, D5.4, D5.8	T5.5, T5.6 D5.1, D5.4, D5.8	T5.1, T5.5, T5.6 D5.1, D5.2, D5.8	T5.1, T5.5, T5.6 D5.1, D5.2, D5.8	T5.2 – T5.7 D5.3 – D.5.5	T5.8 D5.7, D5.9
<b>Short Description</b>	Data related to WP5 management.	Data related to all Tasks activities.	Related to climate and meteorological data	Data related to the definition of the	Data related to the analysis of the hydrological and hydraulic	Data related to pilots' structures and risk assessments.	Data related to the output of the LCA/LCC models.	Data related to the social risks and impacts / total risk assessment /	Data related to the data gaps identification

WP5 Datasets Description									
Dataset Name	Project meetings' related material	Deliverables (public)	Climate and meteorological data	Adaptation Options	Output from hydraulic and hydrological models.	Data on pilots' structures and risk assessments.	LCA/LCC models results	Social risks and impacts / total risk assessment / MIS relevant data per pilot	Data gaps
				adaptation options.	models' output.			MIS relevant data per pilot.	and definition.
<b>Format/Type</b>	MS Word, MS PowerPoint, MS Excel, MP4 files	MS Word	netcdf, csv, Python notebook, MS word	.XLS, CSV	.xlsx or .csv, .txt, GeoTIFFs,.HDF5	.IFC, .DOC, .XLS, .CSV	.DOC, .XLS, .CSV	.DOC, .XLS, .CSV	.DOC, .XLS, .CSV
<b>Data Size</b>	~10 GB	~5 MB	~1 GB	~10 MB	~2 GB	~10 GB	~10 MB	~10 MB	~10 MB
<b>Public/ Sensitive</b>	SEN - SENSITIVE	PU- PUBLIC	PU- PUBLIC	PU- PUBLIC	Results of the hydrological and hydraulic models are PUBLIC, while some input data are SENSITIVE (e.g., bridge geometry, bathymetry)	SEN – SENSITIVE / PU-PUBLIC	PU- PUBLIC	PU- PUBLIC	PU- PUBLIC
<b>How will these data be used in</b>	Inform participants	Report on all WP5	Data will be stored to the	Data will be stored to the	Data will be stored to the	Data will be stored to the	Data will be stored to the	Data will be stored to the	File will identify and



<b>WPS Datasets Description</b>									
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (public)</b>	<b>Climate and meteorological data</b>	<b>Adaptation Options</b>	<b>Output from hydraulic and hydrological models.</b>	<b>Data on pilots' structures and risk assessments.</b>	<b>LCA/LCC models results</b>	<b>Social risks and impacts / total risk assessment / MIS relevant data per pilot</b>	<b>Data gaps</b>
<b>RISKADAPT (data purpose)?</b>	(and those not able to join) about decisions and action points.	respective actions.	Data Management System and visualized to the front-end.	Data Management System and visualized to the front-end.	Data Management System and visualized to the front-end.	Data Management System, used by PRISKADAPT and visualized to the front-end.	Data Management System, used by PRISKADAPT and visualized to the front-end.	Data Management System, used by PRISKADAPT and visualized to the front-end.	present the data gaps.
<b>Data Processing</b>									
<b>Will the data be processed?</b>	No	No	Yes	Yes	Yes	Yes	Yes	Yes	No
<b>What kind of processing is involved?</b>	N/A	N/A	Processed in order to be properly stored to the DMS and visualized to the front-end.	Processed in order to be properly stored to the DMS and visualized to the front-end.	Processed in order to be properly stored to the DMS and visualized to the front-end.	Processed in order to be properly stored to the DMS and visualized to the front-end.	Processed in order to be properly stored to the DMS and visualized to the front-end.	Processed in order to be properly stored to the DMS and visualized to the front-end.	N/A

<b>WPS Datasets Description</b>									
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (public)</b>	<b>Climate and meteorological data</b>	<b>Adaptation Options</b>	<b>Output from hydraulic and hydrological models.</b>	<b>Data on pilots' structures and risk assessments.</b>	<b>LCA/LCC models results</b>	<b>Social risks and impacts / total risk assessment / MIS relevant data per pilot</b>	<b>Data gaps</b>
<b>What kind of derivative data is produced?</b>	No derivative data.	No derivative data.	No derivative data.	No derivative data.	No derivative data.	No derivative data.	No derivative data.	No derivative data.	No derivative data.
<b>Data Storage</b>									
<b>Storage location and duration</b>	SharePoint (RISA) Partners' PCs + 2 years	SharePoint (RISA) Project's website (RISA) Partners' PCs + 2 years	SharePoint (RISA) DMS (RISA) Partners' PCs + 2 years	SharePoint (RISA) DMS (RISA) Partners' PCs + 2 years	SharePoint (RISA) DMS (RISA) Partners' PCs + 2 years	SharePoint (RISA) DMS (RISA) Partners' PCs + 2 years	SharePoint (RISA) DMS (RISA) Partners' PCs + 2 years	SharePoint (RISA) DMS (RISA) Partners' PCs + 2 years	SharePoint (RISA) Project's website (RISA) Partners' PCs + 2 years
<b>Partner responsible to store data</b>	SharePoint (RISA) All Partners	SharePoint (RISA) Project's website (RISA) All Partners	SharePoint (RISA) DMS (RISA) All Partners	SharePoint (RISA) DMS (RISA) All Partners	SharePoint (RISA) DMS (RISA) All Partners	SharePoint (RISA) DMS (RISA) All Partners	SharePoint (RISA) DMS (RISA) All Partners	SharePoint (RISA) DMS (RISA) All Partners	SharePoint (RISA) Project's website (RISA) All Partners

<b>WP5 Datasets Description</b>									
<b>Dataset Name</b>	<b>Project meetings’ related material</b>	<b>Deliverables (public)</b>	<b>Climate and meteorological data</b>	<b>Adaptation Options</b>	<b>Output from hydraulic and hydrological models.</b>	<b>Data on pilots’ structures and risk assessments.</b>	<b>LCA/LCC models results</b>	<b>Social risks and impacts / total risk assessment / MIS relevant data per pilot</b>	<b>Data gaps</b>
<b>Secure storage procedures</b>	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.
<b>Data Access</b>									
<b>Are the data open?</b>	No	Yes	No	No	No	No	No	No	Yes
<b>Are the data available to all RISKADAPT partners?</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>How the data become accessible to stakeholders outside the consortium?</b>	N/A	Through website and open platforms.	N/A	N/A	N/A	N/A	N/A	N/A	Through website and open platforms.

### 3.2.6 WP6 Datasets Description

Table 6 describes the datasets of “WP6 – Demonstration and Validation Activities in Pilot Cases; Third Party Use of TPRISKADAPT/MIS” and provides information about their origin, format, data sharing, as well as regarding their archiving and preservation.

Table 6: WP6 Datasets Description

<b>WP6 Datasets Description</b>					
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (public)</b>	<b>Deliverables (sensitive)</b>	<b>Project related surveys and questionnaires</b>	<b>Feedback from users and testers</b>
<b>Which partner will use the data?</b>	Project beneficiaries	Project beneficiaries / External interested parties	Project beneficiaries	Project beneficiaries	RISA, UOB, ERRA, FMI, UNIBO, TECNIC
<b>Which partner provides the data (if different from partner using)?</b>	Project beneficiaries	Project beneficiaries	Project beneficiaries	Project beneficiaries	RWM (pilot 1), FMI (pilot 2), MTr (pilot 3)
<b>Work Package</b>	WP6	WP6	WP6	WP6	WP6
<b>Task/Deliverable</b>	All WP6 Tasks and Deliverables	T6.1 – T6.2 D6.1, D6.3 - D6.6	D6.2	All WP6 Tasks and Deliverables	D6.3, D6.4, D6.5
<b>Short Description</b>	Data related to WP6 management.	Data related to WP6 activities.	Data related to the exploitation plan.	Data related to WP6 activities.	Feedback from users and testers
<b>Format/Type</b>	MS Word, MS PowerPoint, MS Excel, MP4 files	MS Word	MS Word	MS Word, MS PowerPoint, MS Excel	Docx, recordings etc
<b>Data Size</b>	~10 GB	~5 MB	~5 MB	~5 MB	Max few GBs
<b>Public/ Sensitive</b>	SEN - SENSITIVE	PU- PUBLIC	SEN – SENSITIVE	SEN – SENSITIVE	SEN – SENSITIVE

<b>WP6 Datasets Description</b>					
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (public)</b>	<b>Deliverables (sensitive)</b>	<b>Project related surveys and questionnaires</b>	<b>Feedback from users and testers</b>
<b>How will this data be used in RISKADAPT (data purpose)?</b>	Inform participants (and those not able to join) about decisions and action points.	Support identification and definition of WP6 activities	Support identification and definition of the exploitation plan.	Collect data to support the WP6 activities.	Data will be used to improve the first version of the RISKADAPT system
<b>Data Processing</b>					
<b>Will the data be processed?</b>	No	No	No	Yes	Yes, the feedback needs to be processed to understand what kind of changes / modifications need to be made in the RISKADAPT system to meet the needs of the stakeholders and improve its overall quality
<b>What kind of processing is involved?</b>	N/A	N/A	N/A	Data collected from surveys and questionnaires will be anonymised and further processed, so as extract required information.	Quality metrics will be identified and feedback received needs to be processed to provide the necessary input
<b>What kind of derivative data is produced?</b>	No derivative data.	No derivative data.	No derivative data.	No derivative data.	No derivative data.
<b>Data Storage</b>					

<b>WP6 Datasets Description</b>					
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (public)</b>	<b>Deliverables (sensitive)</b>	<b>Project related surveys and questionnaires</b>	<b>Feedback from users and testers</b>
<b>Storage location and duration</b>	SharePoint (RISA) Partners' PCs + 2 years	SharePoint (RISA) Project's website (RISA) Partners' PCs + 2 years	SharePoint (RISA) Partners' PCs + 2 years	SharePoint (RISA) Partners' PCs + 2 years	SharePoint (RISA) Partners' PCs + 2 years
<b>Partner responsible to store data</b>	SharePoint (RISA) All Partners	SharePoint (RISA) Project's website (RISA) All Partners	SharePoint (RISA) All Partners	SharePoint (RISA) All Partners	RISA, UOB, ERRA, FMI, UNIBO, TECNIC
<b>Secure storage procedures</b>	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	Organisations own protocols. No personal data will be stored.
<b>Data Access</b>					
<b>Are the data open?</b>	No	Yes	No	No	No
<b>Are the data available to all RISKADAPT partners?</b>	Yes	Yes	Yes	Yes	Yes (upon requested for the unprocessed data)
<b>How the data become accessible to stakeholders outside the consortium?</b>	N/A	Through website and open platforms.	N/A	N/A	Indirectly via the improvement of the RISKADAPT system

### 3.2.7 WP7 Datasets Description

The following table presents “WP7 – Dissemination, Communication, Exploitation, Standardization, Contribution to Policy” datasets and describes their origin, format, data sharing, as well as archiving and preservation issues.

Table 7: WP7 Datasets Description

WP7 Datasets Description								
Dataset Name	Project meetings' related material	Deliverables (public)	Deliverables (sensitive)	Project related surveys and questionnaires	Files related to dissemination and communication activities	Files related to project exploitation and business plan.	Files related to standardization activities.	Files related to the report to regulatory authorities.
<b>Which partner will use the data?</b>	Project beneficiaries	Project beneficiaries / External interested parties	Project beneficiaries	Project beneficiaries	Project beneficiaries	Project beneficiaries	Project beneficiaries	Project beneficiaries
<b>Which partner provides the data (if different from partner using)?</b>	Project beneficiaries	Project beneficiaries	Project beneficiaries	Project beneficiaries	Project beneficiaries	Project beneficiaries	Project beneficiaries	Project beneficiaries/experts
<b>Work Package</b>	WP7	WP7	WP7	WP7	WP7	WP7	WP7	WP7

<b>WP7 Datasets Description</b>								
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (public)</b>	<b>Deliverables (sensitive)</b>	<b>Project related surveys and questionnaires</b>	<b>Files related to dissemination and communication activities</b>	<b>Files related to project exploitation and business plan.</b>	<b>Files related to standardization activities.</b>	<b>Files related to the report to regulatory authorities.</b>
<b>Task/Deliverable</b>	All WP7 Tasks and Deliverables	T7.1 – T7.4 D7.1 – D7.3, D7.5., D7.7. – D7.10.	T7.2. D7.4, D7.6.	All WP7 Tasks and Deliverables	T7.1 / D7.3, D6.1	T7.2 / D7.4, D6.2, D7.6., D7.8.	T7.3 / D7.7.	T7.4 / D7.8, D7.10
<b>Short Description</b>	Data related to WP7 management activities.	Data related to dissemination, communication and standardization activities.	Data related to exploitation activities.	Data related to dissemination, communication, standardization and exploitation activities	Data related to the definition of the planned/conducted dissemination/communication activities.	Data related to the definition of the exploitation plan/activities, and the business plan.	Data related to project compliance with the latest standards/regulations.	Fact-based suggestions related to the project's contribution to current European Policies.
<b>Format/Type</b>	MS Word, MS PowerPoint, MS Excel, MP4 files	MS Word	MS Word	MS Word, MS PowerPoint, MS Excel	MS Word/Power Point/Excel MS PowerPoint, MS Excel	MS Word, MS PowerPoint, MS Excel	MS Word, MS PowerPoint, MS Excel	MS Word,



<b>WP7 Datasets Description</b>								
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (public)</b>	<b>Deliverables (sensitive)</b>	<b>Project related surveys and questionnaires</b>	<b>Files related to dissemination and communication activities</b>	<b>Files related to project exploitation and business plan.</b>	<b>Files related to standardization activities.</b>	<b>Files related to the report to regulatory authorities.</b>
<b>Data Size</b>	~10 GB	~5 MB	~5 MB	~5 MB	~5 MB	~5 MB	~5 MB	~5 MB
<b>Public/Sensitive</b>	SEN - SENSITIVE	PU- PUBLIC	SEN – SENSITIVE	SEN – SENSITIVE	SEN – SENSITIVE	PU- PUBLIC and SEN – SENSITIVE	PU- PUBLIC	PU- PUBLIC
<b>How will this data be used in RISKADAPT (data purpose)?</b>	Inform participants (and those not able to join) about decisions and action points.	Support identification and definition of dissemination, communication and standardization plan and activities.	Support identification and definition of exploitation activities.	Collect data to handle the dissemination, communication, standardization and exploitation plan and activities	Data will be used for managing project dissemination and communication activities.	Data will be used for managing exploitation plan and activities, and the development of the business plan.	Data will be used for ensuring compliance of the project with the standards/regulations/initiatives.	Project outputs will be used for providing a report to regulatory authorities, on the contribution of the project to EU policies.
<b>Data Processing</b>								
<b>Will the data be processed?</b>	No	No	No	Yes	No	No	No	No

<b>WP7 Datasets Description</b>								
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (public)</b>	<b>Deliverables (sensitive)</b>	<b>Project related surveys and questionnaires</b>	<b>Files related to dissemination and communication activities</b>	<b>Files related to project exploitation and business plan.</b>	<b>Files related to standardization activities.</b>	<b>Files related to the report to regulatory authorities.</b>
<b>What kind of processing is involved?</b>	N/A	N/A	N/A	Data collected from surveys and questionnaires will be anonymised and further processed, so as extract required information.	N/A	N/A	N/A	Fact-based suggestions and results from project activities will be translated into a report with the aim of contributing to the European Policy framework.
<b>What kind of derivative data is produced?</b>	No derivative data.	No derivative data.	No derivative data.	No derivative data.	No derivative data.	No derivative data.	No derivative data.	No derivative data.
<b>Data Storage</b>								
<b>Storage location and duration</b>	SharePoint (RISA) Partners' PCs	SharePoint (RISA)	SharePoint (RISA) Partners' PCs	SharePoint (RISA) Partners' PCs	SharePoint (RISA) Partners' PCs + 2 years	SharePoint (RISA) Partners' PCs	SharePoint (RISA) Project's website (RISA) Partners' PCs	SharePoint (RISA) Project's website (RISA)

<b>WP7 Datasets Description</b>								
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (public)</b>	<b>Deliverables (sensitive)</b>	<b>Project related surveys and questionnaires</b>	<b>Files related to dissemination and communication activities</b>	<b>Files related to project exploitation and business plan.</b>	<b>Files related to standardization activities.</b>	<b>Files related to the report to regulatory authorities.</b>
	+ 2 years	Project's website (RISA) Partners' PCs + 2 years	+ 2 years	+ 2 years		+ 2 years	+ 2 years	Partners' PCs + 2 years
<b>Partner responsible to store data</b>	SharePoint (RISA) All Partners	SharePoint (RISA) Project's website (RISA) All Partners	SharePoint (RISA) All Partners	SharePoint (RISA) All Partners	SharePoint (RISA) All Partners	SharePoint (RISA) All Partners	SharePoint (RISA) All Partners	SharePoint (RISA) All Partners
<b>Secure storage procedures</b>	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.
<b>Data access</b>								
<b>Are the data open?</b>	No	Yes	No	No	No	<b>No</b>	No	No

<b>WP7 Datasets Description</b>								
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (public)</b>	<b>Deliverables (sensitive)</b>	<b>Project related surveys and questionnaires</b>	<b>Files related to dissemination and communication activities</b>	<b>Files related to project exploitation and business plan.</b>	<b>Files related to standardization activities.</b>	<b>Files related to the report to regulatory authorities.</b>
<b>Are the data available to all RISKADAPT partners?</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>How the data become accessible to stakeholders outside the consortium?</b>	N/A	Through website and open platforms.	N/A	N/A	N/A	N/A	Through website and open platforms.	Through website and open platforms.

### 3.2.8 WP8 Datasets Description

4 describes “WP8 – Ethics requirements” datasets and provides information about their origin, format, data sharing, as well as regarding their archiving and preservation.

*Table 8: WP8 Datasets Description*

<b>WP8 Datasets Description</b>			
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (sensitive)</b>	<b>Project related surveys and questionnaires</b>
<b>Which partner will use the data?</b>	Project beneficiaries	Project beneficiaries	Project beneficiaries
<b>Which partner provides the data (if different from partner using)?</b>	Project beneficiaries	Project beneficiaries	Project beneficiaries
<b>Work Package</b>	WP8	WP8	WP8
<b>Task/Deliverable</b>	All WP8 Deliverables	All WP8 Deliverables	All WP8 Deliverables
<b>Short Description</b>	Data related to ethics issues management.	Data related to ethics issues management.	Data related to ethics issues management.
<b>Format/Type</b>	MS Word, MS PowerPoint, MS Excel, MP4 files	MS Word	MS Word, MS PowerPoint, MS Excel
<b>Data Size</b>	~10 GB	~5 MB	~5 MB
<b>Public/ Sensitive</b>	SEN - SENSITIVE	SEN – SENSITIVE	SEN – SENSITIVE
<b>How will these data be used in RISKADAPT (data purpose)?</b>	Inform participants (and those not able to join) about decisions and action points.	Support the preparation and submission of relevant deliverables.	Support the preparation and submission of relevant deliverables.
<b>Data Processing</b>			
<b>Will the data be processed?</b>	No	No	Yes

<b>WP8 Datasets Description</b>			
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (sensitive)</b>	<b>Project related surveys and questionnaires</b>
<b>What kind of processing is involved?</b>	N/A	N/A	Data collected from surveys and questionnaires will be anonymised and further processed, so as extract required information.
<b>What kind of derivative data is produced?</b>	No derivative data.	No derivative data.	No derivative data.
<b>Data Storage</b>			
<b>Storage location and duration</b>	SharePoint (RISA) Partners' PCs + 2 years	SharePoint (RISA) Partners' PCs + 2 years	SharePoint (RISA) Partners' PCs + 2 years
<b>Partner responsible to store data</b>	SharePoint (RISA) All Partners	SharePoint (RISA) All Partners	SharePoint (RISA) All Partners
<b>Secure storage procedures</b>	TBC, Subject to storage medium.	TBC, Subject to storage medium.	TBC, Subject to storage medium.
<b>Data Access</b>			
<b>Are the data open?</b>	No	No	No
<b>Are the data available to all RISKADAPT partners?</b>	Yes	Yes	Yes

<b>WP8 Datasets Description</b>			
<b>Dataset Name</b>	<b>Project meetings' related material</b>	<b>Deliverables (sensitive)</b>	<b>Project related surveys and questionnaires</b>
<b>How the data become accessible to stakeholders outside the consortium?</b>	N/A	N/A	N/A

In addition to the aforementioned, the data exchanges between China and the EU are described in Deliverable 8.3 (D8.3). This document outlines the data that will be exchanged between the EU and China, as well as the processes that will be followed.. Based on this deliverable, an ethics check was conducted that we passed successfully. This ensures that our data exchanges strictly adhere to the ethical guidelines and principles outlined in our Grant Agreement.

## 4. Implementing FAIR Principles in RISKADAPT Data Management

The FAIR guiding principles for scientific data management and stewardship [5] focuses on enhancing the findability, accessibility, interoperability, and reuse of digital assets. These principles emphasize machine-actionability to cater to the growing reliance on computational systems due to the increasing volume and complexity of data. This ensures that computational systems can efficiently find, access, interoperate, and reuse data with minimal human intervention.

The RISKADAPT project adheres to the FAIR principles for data management. This requirement is flexible, allowing various implementation choices without mandating specific technologies or standards. The FAIR principles enhance data management practices and are applicable across different scientific disciplines and project sizes.

Endorsed by Horizon 2020 (H2020) and integrated into their guidelines, the FAIR principles provide a comprehensive approach to lifecycle data management. This ensures that all aspects of the data lifecycle are addressed, focusing on the FAIR concept rather than enforcing strict technical compliance.

The RISKADAPT consortium supports open science, recognizing its potential benefits for European innovation and the economy through large-scale data reuse. Therefore, most project data are openly accessible. The following sections outline key aspects of the H2020 Guidelines on FAIR Data Management.

### Ensuring Data Findability

In line with RISKADAPT's Grant Agreement 101093939 Section 1.3, open science practices are employed. All scientific papers are published as open access, following the "Gold" or "Green" model. Public-facing publications and deliverables are stored on the project website and made searchable. Preprints of accepted scientific articles are also available when necessary. A Zenodo.org community is established for openly sharing project data, including research outputs and datasets.

### Ensuring Data Accessibility

FAIR principles dictate that data should be as open as possible while protecting privacy and confidentiality. Publications and public deliverables are made openly accessible through various dissemination channels, including:

- RISKADAPT website
- Social media and professional networks
- Promotional materials
- Videos
- Press releases and announcements
- Events (physical and virtual)
- Traditional media
- Other channels

Authorized partners I access project deliverables via a common online collaborative tool. Public deliverables, once approved by the European Commission, are accessible on the [CORDIS website](#) and the RISKADAPT website.

### Ensuring Data Interoperability

To facilitate data exchange and reuse, project data are made interoperable using open-standard file formats like JSON. Datasets are deposited in a compliant data repository with appropriate



interoperability guidelines and metadata descriptions. Datasets available on Zenodo use Zenodo's metadata format, ensuring interoperability through a defined JSON schema.

## 5. Allocation of resources

To ensure that RISKADAPT data comply with FAIR principles, specific resources have been allocated, without incurring any additional costs beyond the planned budget. The consortium has covered equipment and maintenance costs throughout the project's duration. Personnel costs for making data FAIR have not required extra effort. The hours dedicated to these tasks have been included within the Person Month allocations for the relevant tasks.

To prevent partners from overspending on efforts related to making RISKADAPT data FAIR, continuous monitoring by the Data Manager and the Project Coordinator is essential. This will be done through periodic management reports, physical and online meetings, data management plan updates etc..

The consortium benefits from the eligibility of costs associated with open access to research data for reimbursement under any Horizon 2020 grant. Resources can be reallocated between partners to cover these costs if necessary.

Further details on resources for internal data and data shared with external entities are provided below:

- **Resources for Internal Data:** The internal data shared among RISKADAPT partners include deliverables, internal reports, meeting and teleconference minutes, agendas, templates, presentations, and various administrative documents and files. RISKADAPT uses a secure and efficient data management system to facilitate this exchange. This system ensures all data shared within the consortium is easily accessible, well-organized, and securely stored. It supports version control and compliance with FAIR principles, enhancing overall coordination and collaboration among partners.
- **Resources for Data to be Shared with External Entities:** The RISKADAPT project aims to ensure that the research data generated is findable, accessible, interoperable, reusable, and secure. This involves implementing robust data management practices and tools that comply with FAIR principles, ensuring that external stakeholders can easily access and utilize the research outcomes. In doing this, public reports and deliverables are uploaded to the RISKADAPT website, as well as to OPENAIRE.

## 6. Data Security and Protection

Data security and protection are critical aspects of the RISKADAPT project, managed in accordance with the security procedures identified by the European Commission and relevant authorities at both European and national levels. The RISKADAPT project will not utilize any 'EU classified information' (EUCI) as background input to produce its results.

Each partner is responsible for the proper handling of data, including its collection, processing, storage, sharing, and transfer. This responsibility extends to ensuring that informed consent has been obtained when human participants are involved, and that data transfers are subject to appropriate safeguards. Furthermore, the protection of personal data will be guaranteed through the implementation of appropriate pseudonymisation and anonymisation techniques when necessary.

Data collection activities will comply with ethical guidelines and legal requirements, including obtaining informed consent from human participants and ensuring secure and reliable data collection methods. Data processing will adhere strictly to data protection regulations, ensuring lawful, fair, and

transparent processing, with appropriate security controls in place to protect data integrity and confidentiality.

Data sharing will be managed to ensure that only authorized individuals and entities have access to the data, and it will be shared in a manner that respects the privacy and confidentiality of data subjects. Appropriate safeguards will be implemented to regulate the sharing of data. Data storage and preservation will be handled with high standards of security. Electronic data will be protected with short and long-term preservation strategies including regular backups and secure archival processes to ensure data integrity and availability over time.

## 7. Ethical Aspects

In the RISKADAPT project, four key deliverables—D8.1 OEI - Requirement No. 1, D8.2 OEI - Requirement No. 2, D8.3 OEI - Requirement No. 3, and D1.6 Gender and Ethics Plan—are critical in addressing ethical and gender-related aspects. These deliverables ensure the project adheres to the highest ethical standards and outline the necessary actions for effective data and participant management. The key points of these deliverables include:

- **Appointment of Committees and External Ethics Advisor:** These deliverables detail the formation of a Data, Gender and Ethics Committee and the appointment of an external Ethics Advisor. These entities oversee the project's compliance with ethical standards and gender considerations, ensuring all project activities are conducted with integrity and fairness.
- **Data Management Procedures:** Given the international scope of the project, with data exchanged between the EU and China, the deliverables provide clear procedures and criteria for managing this data, including:
  - **Data Collection:** Ensuring data are collected in a structured, ethical manner.
  - **Data Storage and Protection:** Implementing robust measures to prevent unauthorized access or breaches.
  - **Data Retention and Destruction:** Defining clear protocols for data retention duration and secure destruction methods once data is no longer needed.
- **Informed Consent Procedures:** These documents emphasize the importance of obtaining informed consent from human participants. They include detailed descriptions of the consent process and templates for consent/assent forms and information sheets, ensuring participants are fully aware of the study, their involvement, and their data rights.
- **Compliance with Legislation:** The deliverables confirm that all procedures comply with relevant legislation, such as the Data Protection Directive (EC Directive 95/46), national laws, and the EU General Data Protection Regulation (GDPR). This compliance ensures personal data is handled according to strict legal standards, safeguarding participants' privacy and rights.
- **International Data Exchange:** The project's complexity is heightened by the international data exchange between the EU and China. The deliverables outline specific protocols to manage this exchange securely and ethically, addressing potential challenges related to differing legal and regulatory environments.

By comprehensively covering these areas, RISKADAPT ensures the project meets ethical and legal standards while respecting the rights and privacy of all participants. This rigorous approach helps build trust among stakeholders and participants, supporting the project's overall success and integrity.

## 8. Conclusions

This deliverable is the second version of RISKADAPT’s Data Management Plan (DMP) and describes the datasets that will be collected or generated, as well as how they will be managed during the project and beyond its completion. Compared to the first version of the DMP, deliverable 1.3, we now present detailed information on the datasets that have already been created, or are to be created, separately for each project work package. The document also describes how the FAIR principles are applied to the project and outlines how data security requirements and ethical principles are met, including compliance with the GDPR. The Data Management Plan is a living document and will be updated throughout the project's duration.

## References

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