MOVING
MOuntain VAlorisation through INterconnectedness and GREEN growth

D8.12 Data Management Plan Final

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Acronyms

AEIDL: the European Association for Innovation on Local Development

AKIS: Agricultural Knowledge and Innovation System

API: Application Programming Interface

CC: Climate Change

CKAN: Comprehensive Knowledge Archive Network

CoP: Community of Practice

D: deliverable

DMP: Data Management Plan

DMS: Data Management System

DoA: Description of Action

DOI: Digital Object Identifier

EC: European Commission

EEA: European Environment Agency

EU: European Union

FAIR: Findable, Accessible, Interoperable and Re-usable.

GA: General Assembly

GDPR: General Data Protection Regulation

JRC: Joint Research Centre

KPI: Key Performance Indicators

LUCAS: Land Use-Land Cover Area Frame Survey

M: month

MAP: Multi-Actor Platform

MOVING: MOuntain Valorisation through INterconnectedness and Green growth

NGO: Non-profit organisation

PURL: Persistent Uniform Resource Locator

RIA: Research and Innovation Action

RP: Reporting Period

RR: Reference Region

SC: Steering Committee

SME: Small and medium-sized enterprises

TLS: Transport Level Security

VC: value chain

VRE: Virtual Research Environment

WP: Work Package

1. Introduction

The Open Research Data Pilot of the European Commission enables open access and reuse of research data generated by Horizon 2020/Europe projects. There are two main pillars to the Pilot: developing a Data Management Plan (DMP) and providing open access to research data.

In order to adhere to the Pilot, research consortia under H2020 have to:

- Develop (and keep up-to-date) a Data Management Plan (DMP).
- Deposit data in a research data repository.
- Ensure third parties can freely access, mine, exploit, reproduce and disseminate your data.
- Provide related information and identify (or provide) the tools needed to use the raw data to validate the research.

The Pilot applies to:

- The data (and metadata) needed to validate results in scientific publications.
- Other curated and/or raw data (and metadata)

The DMP functions as a guiding document to ensure good data management throughout the lifecycle of the project in order to make the information collected and produced **Findable, Accessible, Interoperable and Re-usable** (FAIR).

2. Scope

This DMP describes how research data is managed both throughout the lifecycle of MOVING and after the end of the project. It identifies procedures and minimum requirements to collect, store, analyse, and publish data in a consistent way according to the FAIR principles.

This document is the final update of the MOVING DMP, which is strongly based on two previous versions (D8.3 – DMP Initial Version, D8.7 DMP Midterm version). All project partners have been informed of the changes made to these documents. In addition, the documents were stored in the Virtual Research Environment (VRE), the internal repository of documents of the project, ensuring this way that all partners have access.

3. Data Summary

3.1. Purpose of the data collection/generation and its relation to MOVING objectives

MOVING built capacities and co-develop relevant policy frameworks across Europe for the establishment of new or upgraded/upscaled Value Chains. MOVING's contribution to Mountain Value Chains aims at enhancing mountain resilience and sustainability, grounded on a multi-actor approach and a multi-disciplinary community connecting Academia, Research

Organizations, SMEs, Private for Profit, NGOs, Development Agencies, Public Authorities, Citizen groups/local Communities and Media from 16 different EU & non-EU countries.

MOVING overarching goal is fulfilled through 7 objectives. Each objective has specific requirements of data collection/generation, as reported in the following table:

Table 1. Overall data requirements per project specific objective

1: To develop a global strategy to engage the main actors and stakeholders into a European-wide Community of Practice (CoP) on Mountain VCs, including actors from the Agricultural Knowledge and Innovation System (AKIS), value chain and policy-making stakeholders and society (WP1).	Objective 1 will elaborate and publish text and visual data produced through interaction with main actors and stakeholders. Data will be generated through face-to-face and online activities. These include: presentations, recordings of EU MAP events, highlights reports and conclusions of activities, joint analysis of survey results, etc. Moreover, data collected for other objectives will be made available through dedicated software (VRE).
2: To develop a conceptual and analytical framework able to describe and interpret the diversity of mountain VCs and assess their contribution to the sustainability and resilience of mountain areas and population (WP2).	Objective 2 will require the collection and elaboration of data, often from reports, literature, and scientific publications to identify the relevant concepts to describe the diversity of mountain VCs, and to derive the research questions to assess their contribution to the sustainability and resilience of mountain areas and population.
3: To provide easy-to-read visual tools - especially maps and indicators that raise the awareness of AKIS, VC actors, civil society and policymakers on the diversity of land use and production systems of mountain areas, the threats they face, the bio-physical assets they can mobilize, their sustainability, and their resilience to CC (WP3).	Objective 3 will require the use and collection of different types of data. In the first two tasks, existing spatially explicit and open access datasets will be used. In the third task, data will be collected through participatory approaches, in which selected experts and citizens will participate. The fourth has the ambition of producing new datasets based on the data collected in the previous tasks. All data will be integrated into the VRE, where it can be explored by stakeholders using visual tools designed for this purpose.
4: To study the configurations, the strategies, the dynamics, the value distribution of the VCs (mapping 400 VCs in all EU regions and assessing in-depth 23 reference regions located in the main European mountainous areas (EU members states and associated countries) in order to assess their contribution to sustainability and resilience (WP4).	Objective 4 will synthesise data from reports, literature, policy documents or social media; as well as collecting text and visual data produced through interaction with VC actors (both online and face to face). Existing secondary datasets, collected by government statisticians, may also be used. These synthetic data will be used to understand how VCs contribute to sustainability and resilience and published in the WP deliverables.
5: To develop in-depth, participatory, critical benchmarking of (cross-regional) clusters of mountain VCs to identify enablers and blocking	Objective 5 will elaborate and publish text and visual data produced through interaction at level of MAPs (both face to face and online). It can also use data elaborated by

factors affecting the sustainability and resilience (WP5).	WP4. These data will be used to develop critical benchmarking of cross-regional groups of VCs and to perform comparative analysis of vulnerability, resilience, and sustainability of VCs for each cluster.
6:To carry out a set of evidence-based foresight exercises (at community, cross-regional and European levels) to capture and anticipate the long-term trends affecting mountain areas, co-constructing shared visions and strategies for a balanced mix of public and private goods, together with the main actors of the mountain VCs (WP6).	Objective 6 will require the collection of qualitative data from stakeholders during workshops and quantitative data from surveys in order to elaborate foresight scenarios and provide data that will be used in the EU foresight model. Text will be published and visual data will be produced through interaction at level of MAPs.
7: To develop a policy roadmap and a 'Quick Start' policy design based on evidence-based and performance focussed recommendations to secure a long-term provision for the 'next generation' of policy interventions that enhance the connectivity, sustainability and resilience of mountain regions via the establishment of new or upgraded/upscaled VCs that deliver, both private and public goods (WP7).	Objective 7 will elaborate and publish text and visual data on existing policies of relevance to mountain value chains. This data will be collected through secondary sources and interaction (where appropriate) with various policy-related actors at the level of MAPs.

3.2. Types and formats of data generated/collected

MOVING is a complex project, based on a participatory approach. Its core activities are based on the work of its Community of Practice (CoP), consisting **of 23 Reference Regions** (also referred to as 'MAPs'- Multi-Actor Platforms) and an EU-level MAP. Therefore, most of the collected data have been originated by the interaction with regional stakeholders.

These **data** include

- Scientific literature;
- Official statistical data;
- Numeric data based on interviews and discussion groups;
- Qualitative data based on workshops, focus groups and interviews with stakeholders;
- Text and image data available on the web;
- Data collected through a survey
- Spatial data.

Annex 1 includes the description of data generated and collected foreseen in the MOVING including information about:

- Work package
- Related deliverable or task
- Title of document/database
- Description of the data generated
- Type
- Origin of data

- Format
- Availability
- Purpose to produce the data
- Target user/utility
- Licence

Table 2 shows a synthetic description of some the data that have been used during the project. See annex 1 for the full vision of data.

Table 2. Synthesis of data collected by work package

Dataset	Type	Origin	Format	Availability	Description of the data generated	Purpose to produce the data	Target user/utility
ALL deliverables and WPs - working documents, reports	Report file	Own elaboration	.pdf	Open & Restricted	The project has 46 deliverables distributed over 9 work packages. A dissemination level (public or confidential) is defined for each of them in the DoA.	The data presented in the deliverables constitute the results of the development of the different research and participatory tasks as well as the joint analysis at the level of all reference regions. They constitute a legacy of the project.	Researchers, AKIs, General Public, MAP members
ALL WPs – Key Presentations to meetings, workshops, conferences, leaflets, infographics, newsletter	Text file	Own elaboration	.pdf	Open	Main presentations at meetings, workshops, conferences, brochures, newsletters represent different communication and dissemination materials of the project.	These communication materials aim to promote the progress and results of the project, helping to connect with stakeholders, improve their engagement and increase the project's impact.	Researchers, AKIs, General Public, MAP members
ALL WPs - Practice Abstracts	Text file	Own elaboration	.pdf	Open	The project generated 120 Practice abstracts across WP1 and WP4 that summarise main findings to agricultural stakeholders.	These are short documents to capture the main points of interest to land managers across EU mountains. These documents followed the official template and were deliverable to the EIP-Agri.	Researchers, AKIs, General Public, MAP members
ALL WPs - Policy Briefs	Text file	Own elaboration	.pdf	Open	Two sets of policy briefs present the key elements and recommendations	Make use of the results of the work of other WPs. The PBs are not intended	Researchers, AKIs, Policy

					extracted from reference regions.	to be exhaustive or to provide actionable policy recommendations, but to highlight the relevant aspects that policy makers need to take into account for the formulation of innovative policy instruments for the sustainable development of European mountain areas. They include key policy messages.	makers, MAP members
ALL WPs - Scientific articles	Published papers	Own elaboration	.pdf	Open	The project aims to produce 14 scientific articles to share the MOVING original research work with other scientists and to critically contribute to the evolution of the science.	These scientific articles aim to contribute to scientific literature and disseminate the progress and results of the project.	Researchers, AKIs.
ALL WPs - Events registrations	Text file	Own elaboration	.pdf	Restricted	Event registrations are the processes by which a person provides their details in exchange for identification, admission or access to attend the event.	Obtain the contact details of the actor who will participate in the event and his or her consent to the use of his/her data for the purposes described in the Privacy Statement.	Members of the Consortium
WP1 Webinars recordings, videos, podcast	Multimedia	Own elaboration	Mp4, mov	Open after anonymisation	Webinars recordings, videos and podcasts represent different communication and	These communication products aim to promote the progress and results of the project, helping to connect with stakeholders,	Researchers, AKIs, General Public, MAP members

					dissemination products of the project.	improve their engagement and increase the project's impact.	
WP1 MOVING MOUNTAINS APP	Software	Own elaboration	code	Open	The APP does not produce data on its own and is rather a facilitator for the input and consumption of data provided by other components. In particular a selection of the public content produced is reflected onto the app; Community posts are forwarded directly to the D4Science Social Service and the user base is inherited from D4Science Identity and Authorisation service.	Refer to MOVING Project site, D4Science VRE and Social Service.	Researchers, AKIs, General Public, MAP members
WP3 Spatial datasets	Numeric database	Own elaboration	Spatial data formats (JSON)	Open	A geospatial dataset of point locations was created from the geographical coordinates of the places mentioned in the story maps by the experts.	Represent places on a map within a Story Map	Researchers, AKIs, General Public, MAP members
WP4 Digital Stories for each Reference Region	Multimedia files	Own production	Mp4, mov	Open	Interactive online documents or oral presentations combining visuals and text to summarise the findings from the value chain analysis	Provide accessible presentation of the main findings for members of the public and decision makers involved in mountain areas.	Researchers, AKIs, General Public, MAP members

WP4 Excel database	Excel file	Own elaboration	xlsx	Restricted	Database of all the data provided by 23 partners on structure, practices, actors, outcomes, assemblage and spatial relationships associated with their focal VC.	This provides an internal resource for the consortium.	Researchers
WP5 Voice records	Multimedia	Own elaboration	Mp4, mov	Restricted	Voice records were produced through the interviews and workshops for further content analysis.	D5.1 aims to report the results of a participatory and comparative assessment and benchmarking of the clusters of VCs as well as the relevance of the different variables in the vulnerability, resilience, and sustainability of the clusters.	Researchers
WP5 Questionnaire	Text file	Own elaboration	xlsx	Restricted	Up to 5 experts from each mountain region were invited to compare the contribution to mountain reslience and sustainability of the 7 MOVING objectives using Best/Worse Scale methods	To discriminate the objetives contributing more to mountain reslience and sustainability according to the expert views and to cluster objectives to indentiy latents classes	Researchers, AKIs, Policymakers
WP6 Regional, Cross Regional and European H2050 agriculture	Numeric database	Own production	xlsx	Open	The foresight exercise provides a set of scenarios (4), including a set of economic, social, and ecological indicators that shows the distance	To get accurate data on quantitative evaluation of scenarios and policy options (based on a consolidated set of a few common indicators).	Researchers, AKIs, General Public, MAP members

scenarios data output					from the baseline scenario. Then, a questionnaire turns the assessment of the 2 preferred scenarios and their related preferred policy options into an evaluation of impacts, through Likert-scale.		
WP7 Online stakeholder consultation	Excel file	Own production	xlxs	Restricted	An excel-spreadsheet was generated containing the results of an EU-wide online stakeholder consultation. This survey will be undertaken using proprietary GDPR-compliant online software.	Data were used to validate and ground-truth the outcomes of the policy audit, plus the policy 'recommendations' proposed for integration into the Policy Roadmap (D7.1)	All MOVING target groups
WP9 H - Requirement No. 1	Ethics	Own production	Pdf, doc, form	Restricted	H - Requirement No. 1 for consortium's members.	Deliverable 9.1 aims to provide MOVING Partners with specific guidelines on how to manage ethical issues in the activities foreseen by the Project. This document precedes any involvement of research participants external to the consortium, so that partners have clear instruction on how to be compliant.	Members of the consortium (including the Commission Services)

WP9 POPD - Requirement No. 2	Ethics	Own production	Pdf, doc, form	Restricted	POPD - Requirement No. 2 for consortium's members.	It provides a project level statement of compliance of the partners in the MOVING with all relevant national laws and regulations on the collection and handling of personal data and relevant responsibilities at each partner organisation.	Members of the consortium (including the Commission Services)

3.3. The re-use of any existing data and how

MOVING capitalised on already existing data and integrated them with new data. Table below shows the main data on which MOVING capitalised:

Table 3. Capitalisation of existing data

WP 1	• Existing materials on the topic were used (images, footage, video, document, infographics, text, figures, maps). Both materials from partners or free-of-rights materials have been used to this scope.
WP2	• Literature review at International, European and national level
WP3	• Existing spatially explicit datasets at European and global levels (e.g., data from COPERNICUS, EEA, JRC, scientific papers)
WP4	• Academic and 'grey' literature (International, EU, Member State and regional examples of VCs) • EUROSTAT and national statistical data; spatial datasets and maps • Published business strategies and accounts • Policy documents and guidance • Social and news media
WP5	• Academic and 'grey' literature (International, EU, Member State and regional examples of VCs) • EUROSTAT and national statistical data; spatial datasets and maps • Published business strategies and accounts • Policy documents and guidance • Social and news media • Existing data / evidence collected in WP4
WP6	• Literature review at European and national level • Existing foresight scenarios and narratives • Images and map of studied regions
WP7	• Existing data / evidence collected in the preceding WPs 4, 5 and 6 • Existing data on policies and policy processes that are available at European, national and (in some cases) regional level

For all available data, appropriate references to authors and institutions have been acknowledged.

3.4. Details of data origins

The details of existing datasets used in the research, or production of new data, are reported in the relevant Deliverable or publications, and described and referenced in a specific Annex or sub-section. These identify the source(s) of the data used, refer to any relevant limitations

on its use with respect to the purpose in MOVING, clearance of any ethical considerations associated with the data, and ensure that it is cited as guided by the data provider or at least to appropriate standards:

APA style standard for dataset citation:

> *Basic form:*
>
> Author/Rightsholder. (Year). Title of data set (Version number) [Description of form]. Repository: Name of producer.
>
> or
> Author/Rightsholder. (Year). Title of data set (Version number) [Description of form]. Retrieved from http://
>
> *Example:*
> Pew Hispanic Center. (2008). *2007 Hispanic Healthcare Survey* [Data file and code book]. Retrieved from http://pewhispanic.org/datasets/

APA style standard for unpublished raw data citation:

> *Basic form:*
>
> Author, F. N. (Year). [Description of study topic]. Unpublished raw data.
>
> *Example:*
> Smith, J.A. (2006). [Personnel survey]. Unpublished raw data.

Ensuring the inclusion of referencing to data sourced from a third party is the responsibility of the relevant research team, Task and Work Package Leaders. The checking and verification of any specific wording required is covered by the quality control procedures specified in the Project management handbook (D8.2).

4. FAIR data

4.1. Making data findable, including provisions for metadata

Are the data produced and/or used in the project discoverable with metadata, identifiable and locatable by means of a standard identification mechanism (e.g. persistent and unique identifiers such as Digital Object Identifiers)?

MOVING stores data in the D4Science environment. The storage space, also known as Workspace, is made up of a combination of applications and software libraries provided by the D4Science infrastructure. It exploits a typical File-Based System that acts as the main driver for clients by interfacing the storage devices managed by the infrastructure or accessible through it and a Database system that provides a mechanism for easier data management. The file-based system supports digital functions for accessing and archiving standards-based files of arbitrary size. The Database System supports the collection of data in a central data archive managed by a DBMS, allowing the sharing of data between multiple users and applications belonging to a single VRE.

The file-based system is composed of a service that abstracts on physical storage devices and is able to exploit various technologies for its implementation. This service, called StorageHub, presents a unified interface to clients and allows them to download, upload, remove, add, and list unstructured files or streams (binary objects). All objects must have owners, and owners can define file access rights, allowing private, public, or shared (group-based) access.

All operations of this service are provided through a standards-based POSIX API that supports the organisation and operations normally associated with local file systems while offering scalable and fault-tolerant remote storage.

The files stored in the Workspace can be accessed in writing or reading both through the graphical interface offered by the Gateway, both by using the APIs of the StorageHub, and by using the PID (persistent identifier) associated with the file and resolved by the D4Science URI Resolver.

The project's coordination is considering the possibility of activating a dedicated catalogue in the environment through D4Science. This Catalogue is based on CKAN technology, enriched with plenty of additional features. The MOVING Catalogue can be configured to support publications per VRE and global, several metadata types, custom resource types, custom groups, etc.

For each type, the metadata format reported in the DMP was defined. Then, from the workspace authorised people were able to publish a file (or all files included in a folder) by selecting the type and by filling in the required metadata.

A DOI is assigned to final versions of key's project results and main deliverables while Persistent URL (PURL) will be assigned for any version generated and saved in the D4Science environment.

What naming conventions do you follow?

The general convention used is the following:

[WPx] [title] [year] [month] [verx] [.] ext

Example: WP1 DECO Strategy 2021 February ver2.pdf

Will search keywords be provided that optimise possibilities for re-use?

Yes.

The main keywords are: Mountain; value chain; land-use system, policy; socio-ecological system; resilience; sustainability; vulnerability; rural development; participatory approach; climate change. Other relevant keywords can be better understood in the glossary included in D2.3 Conceptual and analytical framework (final version).

Do you provide clear version numbers?

MOVING uses a Virtual Research Environment with a workspace that automatically assigns a version number to the files of the workspace when a new file with the same name is

uploaded. All versions are conserved in the VRE and accessible through a unique and persistent URL. Moreover, any object and any of its versions stored in the workspace can be published in the MOVING Catalogue.

Data Items: specification of metadata

The following data items are foreseen to be created at this stage:

- Reports: metadata are included at the beginning of the same file.
- Database and spatial datasets: metadata are included in a separate sheet of the same excel file of the database.
- Presentations: Metadata are included at the end of the same file.
- Multimedia data: Metadata are included at the end of the same file.
- Practice abstracts, Policy briefs: Metadata are included at the end of the same file.

Reports

All MOVING reports display the following information on their third page:

Table 4. Information in reports

Project Name	Mountain Valorisation Through Interconnectedness And Green Growth
Project ID	862739
H2020 Type of funding scheme	Research and Innovation Action (RIA)
H2020 Call ID & Topic	H2020-RUR-2019-2 / RUR-01-2018-2019
Website	www.moving-h2020.eu
Document Type	(Deliverable, Working Document)
File Name	
Status	Draft / Final
Version Number	
Dissemination level	
Date of creation	
Authors	
Internal reviewers	
Keywords	
Work Package Leader	
Project Coordinator	University of Cordoba

Moreover, the file includes this paragraph for acknowledgement and disclaimer:

This document was produced under the terms and conditions of Grant Agreement No. 862739 for the European Commission. It does not necessarily reflect the view of the European Union

and in no way anticipates the Commission's future policy in this area. Responsibility for the information and views expressed therein lies entirely with the author(s).

Database

In the first sheet (metadata), the following metadata are available (based on Dublin Core Format):

General information

Table 6. General information

H2020 Call ID & Topic	H2020-RUR-2019-2 / RUR-01-2018-2019
Work Programme	H2020-EU.3.2.1.3. - Empowerment of rural areas, support to policies and rural innovation
Project ID	862739
Project Website	www.moving-h2020.eu
Database type	Numeric, textual…
Title	
Creator	
Contributors	
Publisher	
Date	
Format	
Status of the document	Draft / Final
Draft version no	
Identifier	

Each database provides with information about structure and content, as follows. In some cases, information on the quality of the data were provided.

Information about database structure and content

Table 7. Information about database structure and content

Field Label	Description	Type (numeric, text, time, y/n)	Format

Presentations

Table 8. Information about presentations

H2020 Call ID & Topic	H2020-RUR-2019-2 / RUR-01-2018-2019
Work Programme	H2020-EU.3.2.1.3. - Empowerment of rural areas, support to policies and rural innovation
Project ID	862739
Project Website	www.moving-h2020.eu
Document type	Presentation
Title	
Authors	
Status of the document	Draft / Final
Draft version no	
Location (where presented)	
Keywords	

Multimedia

Table 9. Information about multimedia

H2020 Call ID & Topic	H2020-RUR-2019-2 / RUR-01-2018-2019
Work Programme	H2020-EU.3.2.1.3. - Empowerment of rural areas, support to policies and rural innovation
Project ID	862739
Project Website	www.moving-h2020.eu
Document type	Video, digital story, etc.
Title	
Authors	
Status of the document	Draft / Final
Draft version no	
Keywords	
Link	
Credits	

4.2. Making data openly accessible

Which data produced and/or used in the project will be made openly available as the default?

Most produced data are openly available as the default, with the exception of the database of the user generated content of the VREs, as this is internal communication with little relevance

for outsiders. However, these data may be made available upon motivated request after anonymisation.

How will the data be made accessible (e.g. by deposition in a repository)?

All relevant processed MOVING data are stored on the Zenodo repository after publication and/or delivery to the REA. Before that moment, the data have been stored in the MOVING VRE and accessible to all consortium members. Zenodo assigns a DOI to all documents uploaded, and allows the storage of metadata.

MOVING's Zenodo account: https://zenodo.org/communities/moving-h2020-project/

What methods or software tools are needed to access the data?

Most files are accessible with general use of standard publicly available software tools (such us MS Office, Open Office, Adobe Reader, Image Viewer, etc.) making sure they are compatible with open-source office tools.

The Story Map Building and Visualising Tool (SMBVT) developed within the WP3 is integrated with the D4Science high-standard accounting, multi-tenancy, and security services and made available within a Virtual Research Environmental (VRE) created for the MOVING Story Maps scientific community. The VRE offers user-access moderation to the project administrators. Moreover, it offers data sharing and social networking facilities on the VRE home page to practically foster *active* collaboration. The SMBVT creation and visualization interfaces and the back-end services are available to all VRE users and are part of the resources offered by D4Science to the MOVING community. The SMBVT back-end re-uses the D4Science users and roles to control access and manage story authorship through secured credential exchange with the D4Science systems.

D4Science also hosts the MOVING VRE that offers space to store data also to the applications and not only to the humans. This is possible by using the Application token that is available for all environments and by exploiting the APIs that we provide. The application however does not allow making the data accessible to the VREs members. Rather, it allows the authorised applications to access and share data that they have produced. The act of making accessible the data either to the VREs members or in open-access remains a human decision and it required an action triggered by a human.

Is documentation about the software needed to access the data included? Is it possible to include the relevant software (e.g. in open source code)?

See above

Where will the data and associated metadata, documentation and code be deposited?

All MOVING data are stored on the Zenodo repository after publication and/or delivery to the REA.

Have you explored appropriate arrangements with the identified repository?

Yes

If there are restrictions on use, how will access be provided?

Restriction is foreseen only for data generated by the internal social tool used by researchers within the VRE. They were released upon approval of the data producers.

Is there a need for a data access committee?

No.

Are there well-described conditions for access (i.e. a machine-readable license)? How will the identity of the person accessing the data be ascertained?

Conditions for access are specified in Annex I.

4.3. Making data interoperable

Are the data produced in the project interoperable, that is allowing data exchange and re-use between researchers, institutions, organisations, countries, etc. (i.e. adhering to standards for formats, as much as possible compliant with available (open) software applications, and in particular facilitating re-combinations with different datasets from different origins)?

All metadata refers to the Dublin Core format. Moreover, our metadata are available following the OAI-PMH standard. OAI-PMH is free if the project decides to exploit the MOVING Catalogue service provided by D4Science. The Catalogue service provided by D4Science (i) supports several standard metadata formats, including Dublin Core; (ii) manages different access rights allowing to disseminate data to the authorized members only if required (iii) is integrated with Zenodo making possible to publish on it all the items published in the Catalogue. Furthermore, the DOI generated by Zenodo is automatically added to the metadata into the Catalogue and the PURL (persistent URL) pointing to the item in the Catalogue is added to the metadata in Zenodo making the Zenodo repository and the MOVING Catalogue interoperable; (iv) is possible to enable the moderation of the publication into the Catalogue. This feature allows to specify a group of reviewers that managed the requests for publication expressed by the consortium members. Until the publication is moderated by the reviewer, it remains not visible and not accessible to the other people.

In case it is unavoidable that you use uncommon or generate project specific ontologies or vocabularies, will you provide mappings to more commonly used ontologies?

MOVING did not introduce new project specific ontologies or vocabularies.

4.4. Increase data re-use (through clarifying licences)

How will the data be licensed to permit the widest re-use possible?

For data and results, no specific license was used. Acknowledgement to EU funding was applied across all data and results in compliance with the Grant Agreement.

When will the data be made available for re-use?

In general, data produced in the project were made openly available as soon as scientific papers are published. Specific arrangements are specified in Annex I.

Are the data produced and/or used in the project useable by third parties, in particular after the end of the project?

The availability of data for use by third parties (i.e. external to the project) is set out in the Grant Agreement Article 29.3 on open access to research data. Access by third parties is subject to obligations on the protection of findings (Article 27), confidentiality (Article 36), security (Article 37) or the protection of personal data (Article 39), all of which have to be satisfied for data to be made available.

How long is it intended that the data remains re-usable?

MOVING makes relevant data available by the end of the project unless constrained by one of the issues identified below. Such data may be embargoed to protect Intellectual Property Rights of project partners.

Access to data and its re-use is subject to the processes set out above. A high proportion of the data expected collected in the MOVING project are from workshops with Multi-Actor Platforms, interviews and post-event surveys. These means of collecting data are all subject to relevant legal requirements and appropriate best practices to protect personal data (i.e. comply with data protection obligations; MOVING D9.2. Protection of Personal Data), and ethical considerations (e.g. rights of participants to know the purposes for which information will be used, and by whom) as set out in Article 34 (Ethics and Research Integrity), and MOVING Deliverable 9.1).

Once data is made available for re-use, no embargo is in place. At this stage, partners have discharged their responsibilities to produce the scientific publications and deliverables from MOVING, and academic papers which draw directly on the data gathered. The process of making data available is on behalf of each partner and each Work Package, contributing to the planning and uploads of materials for which they have responsibility or an identifiable stake, and informing WP8 leader when this is the case.

Are data quality assurance processes described?

The processes for data quality assurance follows agreed good practice for data capture and analysis relevant to each activity or disciplinary area of expertise. Project partners are all experienced in the collection and publishing of peer-reviewed outputs which are based on the data collected. The overall quality control procedures are defined in the Project Management Handbook (D 8.2).

The validity of the re-use of data is guided by the relevant partners and Work Package Leaders. The metadata include date stamps covering its collection and its final cleaning for use in analysis. This indicates the duration for which data will remain reusable. Any limitations to their use relating to timescales will be recorded. Such limitations are anticipated to be as noted below:

- Expiry of licence for use;
- Expiry of permission to use (e.g. video recording);
- Date of next update to data or known resurvey (e.g. agricultural census, EEA or Eurostat data published, FAOSTAT data, Land use and land cover survey -LUCAS)

Other time period related issues which are specific to a particular dataset have been documented by the relevant project partner, Task or Work Package Leaders.

5. Allocation of resources

What are the costs for making data FAIR in your project?

Zenodo is the main open access repository selected to make data FAIR and have no cost. In relation with scientific publications, they have been be published under the 'golden' option or if not possible under the 'green' option.

How will these be covered? Note that costs related to open access to research data are eligible as part of the Horizon 2020 grant (if compliant with the Grant Agreement conditions).

5 000 EUR have been allocated to open access for a research data repository and 20 000 EUR for join publications in open access journals.

Who will be responsible for data management in your project?

Each partner has to respect the policies set out in this DMP. Datasets have to be created, managed and stored appropriately and in line with applicable legislation.

The Project Coordinator has a particular responsibility to ensure that data shared through the website are easily available, but also that backups are performed and that proprietary data are secured.

WP leaders ensure dataset integrity and compatibility for its use during the project lifetime by different partners.

Validation and registration of datasets and metadata is the responsibility of the partner that generates the data in the WP.

Backing up data for sharing through open access repositories is the responsibility of the partner possessing the data.

Quality control of these data is the responsibility of the relevant WP leader, supported by the Project Coordinator.

Are the resources for long term preservation discussed (costs and potential value, who decides and how what data will be kept and for how long)?

No specific financial value is expected to be associated with the long-term preservation of the data. However, benefits of long-term storage and preservation of the scientific datasets and databases planned to be produced by the project enabled comparisons and assessments of change in evidence on a given topic through time.

Some datasets might be specific to a time period or event (e.g., disrupting events: economic bank collapse; social conflict; environmental extreme weather events) and not possible to replicate thus compromising the veracity of subsequent analysis. Therefore, the potential value of long-term preservation of data is likely to become evident towards the end of the project as part of its legacy.

6. Data security

What provisions are in place for data security (including data recovery as well as secure storage and transfer of sensitive data)?

Data are collected and stored in the MOVING workspace (VRE). This repository is secured with Transport Level Security (TLS) that provides communications security over the computer network. It ensures privacy and data integrity between two communicating computer applications. In particular, any connections between a client (e.g., a web browser) and the MOVING workspace have the following properties:

- The connection is private (or secure) thanks to the adoption of the symmetric cryptography to encrypt the data transmitted. The keys for this symmetric encryption are generated uniquely for each connection and are based on a shared secret negotiated at the start of the session. The server and client negotiate the details of which encryption algorithm and cryptographic keys to use before the first byte of data is transmitted. The negotiation of a shared secret is both secure (the negotiated secret is unavailable to eavesdroppers and cannot be obtained, even by an attacker who places themselves in the middle of the connection) and reliable (no attacker can modify the communications during the negotiation without being detected);
- The identity of the communicating parties can be authenticated using public-key cryptography. This authentication can be made optional at client side, but is ensured at the server side;
- The connection ensures integrity because each message transmitted includes a message integrity check using a message authentication code to prevent undetected loss or alteration of the data during transmission;
- The connection ensures forward secrecy, ensuring that any future disclosure of encryption keys cannot be used to decrypt any TLS communications recorded in the past.

A backup and recovery strategy has been put in place to protect about data loss incidents that can take a variety of forms, but when it comes to a workspace technology, they generally fall into two categories: catastrophic failure and human error. Even if catastrophic failure includes natural disasters and any other scenario that permanently destroy all the server nodes most of the issues are generated by human error. Humans introduce application bugs or accidentally delete data. A bad code release that corrupts some or all of the production data is an unfortunate but common example.

The MOVING workspace provides continuous, online backup for data as a fully managed service. The service streams encrypted and compressed oplog data to a dedicated server so that a continuous backup is activated. By default, the MOVING workspace takes snapshots every 6 hours and oplog data is retained for 24 hours.

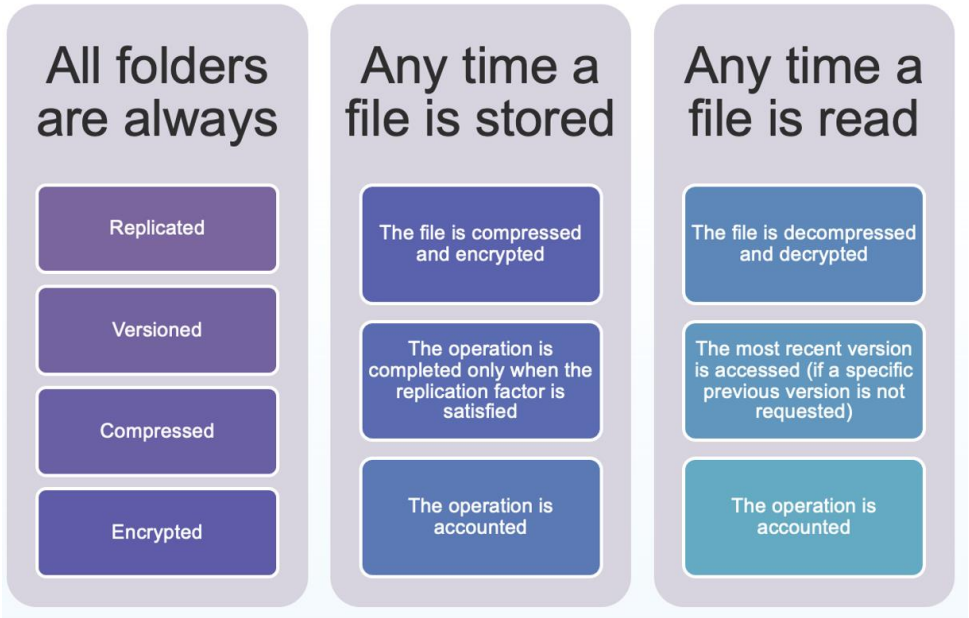
Is the data safely stored in certified repositories for long term preservation and curation?

Yes. The Storage area of the D4Science infrastructure is in high-reliability. It automatically replicates each file in several copies and stores them on different storage devices after having compressed and encrypted them. At the time of the request for access to the file, the access rights are first checked by the D4Science enabling technology and then in case of granting the authorization, the request is sent to the storage device that provides access to one of the copies of the file after having performed both decompression that decryption.

All files are also subject to automatic versioning and each operation is stored together with the information of the user who also performed the operation (accounting and lineage are therefore guaranteed by the system in automatic mode).

The following figure shows the main features related to the availability and reliability of the date are ensured.

Figure 1. Availability and reliability of the date



Source: CNR, 2022

Data storage

Data are stored on secure servers in the partner institutions and in the MOVING Virtual Research Environment (D4Science platform).

Data breaches

Within MOVING, no data have been collected of a nature that would result in physical, material or non- material damage to natural persons such as loss of control over their personal data or limitation of their rights, discrimination, identity theft or fraud, financial loss, unauthorised reversal of pseudonymisation, damage to reputation, loss of confidentiality of personal data protected by professional secrecy or any other significant economic or social disadvantage to the natural person concerned in the case of a personal data breach.

Data destruction

Data hare kept in a form, which permits identification of data subjects for no longer than is necessary for the purposes for which the personal data are processed; personal data may be stored for longer periods insofar as the personal data were processed solely for scientific research purposes or statistical purposes subject to implementation of the appropriate technical and organisational measures required by the GDPR in order to safeguard the rights and freedoms of individuals ('storage limitation').

Research participants were provided with clear information about data collection, processing, storage, breach and destruction in the information sheet and Consortium partners gained the informed consent.

Transfer of Data

The information, including Personal Data, may be transferred from the original place of acquisition to — and maintained on — computers located outside of that state, province, country, or other governmental jurisdiction where the data protection laws may differ than those from the jurisdiction where the data was acquired.

The UK and the EU had signed under the EU-UK Withdrawal Agreement the provisions for continued participation of the 2014-2020 EU programmes, including Horizon 2020, until their closure (i.e. for the lifetime of grants). There is no change in status despite UK withdrawal. This treaty has been transposed to the UK by the European Union (Withdrawal Agreement) Act 2020.

The UK has also legislated the retention of the vast bulk of EU law by a series of legislation starting with the European Union (Withdrawal) Act 2018. This General Data Protection Regulation has been kept in UK law as the "UK GDPR".

The UK GDPR is the retained EU law version of the General Data Protection Regulation ((EU) 2016/679) (EU GDPR) as it forms part of the law of England and Wales, Scotland and Northern Ireland by virtue of section 3 of the European Union (Withdrawal) Act 2018 and as amended by Schedule 1 to the Data Protection, Privacy and Electronic Communications (Amendments etc) (EU Exit) Regulations 2019 (SI 2019/419).

It is defined in section 3(10) of the Data Protection Act 2018 (DPA 2018), supplemented by

section 205(4). It includes the provisions of what was previously the applied GDPR, unless the context otherwise requires.

On 28 June 2021, the EU approved adequacy decisions for the EU GDPR and the Law Enforcement Directive (LED). This means data can continue to flow as it did before, in the majority of circumstances. Both decisions are expected to last until 27 June 2025.

Data protocols for surveys, interviews, and workshops

- Survey Data

The survey data were anonymised so that personal identification is not possible; then data were analysed and the results were integrated in the project reports. As most of the deliverables are public and accessible via the project official website. Survey participants' answers are treated confidentially so that personal identification is not possible.

It should be noted that the surveys created for the relevant WPs do not require personal data.

- Interview Data

Interviews can be audio recorded and transcribed on a case-by-case basis. The partners who follow this audio recording and/or transcription employ the line of action described below for MOVING specific interviews. In most cases, an analysis of content was performed.

When an interview recordings/transcripts was realised, this was not archived or shared within the consortium as the consortium cannot guarantee anonymity to the interviewees if full transcripts are published. Some interviews were carried out in national languages, making it rather easy to identify the national background of the persons interviewed and, possibly, to identify the person herself. This risk is plausible, since the persons interviewed are experts from a certain field, so it is likely that interviews could at least be traced back to certain institutions. Due to such conditions, publishing recordings/transcripts could discourage interviewees from openly talking to the consortium, which certainly would affect the research. All partners store any transcripts and voice recordings to ensure we adhere to the conditions on the consent form and GDPR.

- Workshop Data

Workshops were organised to engage the VC stakeholders, to understand the stakeholders' needs and expectations. Workshop group reflections could be recorded as a matter of convenience for analysis. Audio records were be made open access, as described above.

7. Ethical aspects

As reported in the Grant Agreement, the main ethical issues for MOVING concerns Research involving Human beings and the Protection of Personal Data. All the internal procedures needed to assure the compliance with the requirements have been so far developed in Deliverable 9.1 "H - requirement No. 1" and in Deliverable 9.2 "POPD - Requirement No. 2".

These two Deliverables further detail the procedures of information of research participants already included in the Grant Agreement, to guarantee that prior to the collection of any data, participants were informed on the collection, processing and use of data provided and that contact persons of the Consortium ensured that they give the consent (D.9.1).

Deliverable 9.2 “POPD – Requirement N.2”, due at month 6 of the Project, reports the confirmation of the appointment of a Data Protection Officer by the beneficiaries, as well as the organisational measures.

The responsibility for ensuring that the conduct of the research is in line with these principles rests with the relevant lead investigator in each case. Work Package 9 is responsible for the development of the processes and procedures for ethical clearance (including the development of an informed consent form) and Work Package 8 is responsible for the implementation and central project management of ethical clearance documentation.

Processing and handling of personal data is covered by Article 39 of the Grant Agreement, 39.1 for handling by the European Commission and 39.2 for handling by beneficiaries. No circumstances are foreseen that personal data were transferred from project beneficiaries to the European Commission. If any such circumstance does arise then a Service Specific Privacy Statement (SSPS) were downloaded from the European Commission website and the relevant requirements followed.

8. Other issues

Do you make use of other national/funder/sectorial/departmental procedures for data management? If yes, which ones?

No

9. Further support in developing your DMP

The Research Data Alliance provides a **Metadata Standards Directory** that can be searched for discipline-specific standards and associated tools. The EUDAT B2SHARE tool includes a built-in license wizard that facilitates the selection of an adequate license for research data.

Useful listings of repositories include:

- Registry of Research Data Repositories
- Some repositories like Zenodo (an OpenAIRE and CERN collaboration), allow researchers to deposit both publications and data, while providing tools to link them.
- Other useful tools include DMP online and platforms for making individual scientific observations available such as ScienceMatters.

ANNEX 1 – List of data items occurred in the MOVING project

*Licence:

- CC B: lets others distribute, remix, tweak, and build upon MOVING work, even commercially, as long as they credit the project for the original creation
- CC BYSA: lets others remix, tweak, and build upon your work, even for commercial purposes, as long as they credit you and license their new creations under identical terms
- CC0: Public domain: CC0 enables authors and copyright owners to dedicate their works to the worldwide public domain (“no rights reserve)

Work package	Related deliverable or task	Title of document /database	Description of the data generated	Type	Origin of data	Format	Availability	Purpose to produce the data	Target user/ utility	Licence*
WP1	Task 1.1, 1.2, 1.3 and 1.5 (and linked to all WPs)	Videos	Different videos were produced explaining the methodological approach to different tasks of the project as well as its progress and results. In addition, in several cases, to the generation of the video, a written script associated was generated.	Multimedia	Own production	Mp4, mov	Open after anonymisation	The videos are intended to communicate progress and results in an innovative and engaging way, amplifying the impact of the project.	All MOVING target groups	CC0
WP1	Task 1.3 and 1.5 (and linked to all WPs)	Webinars	For each of the EU MAP webinars, data were generated on the registration of the participants, the presentations of the different speakers, the recordings of the presentations, the chat of the recording of the event and a post-event highlights report.	Multimedia	Own production	Mp4, mov	Open after anonymisation	Enhance the exchange, learn and interact at the EU level on the application to mountain value chains. These data will also facilitate knowledge transfer and exploitation through co-creation activities	All MOVING target groups	CC0

WP1	Task 1.2 and 1.3 (and linked to all WPs)	Podcasts	Different podcasts to disseminate the work of WPs 1, 2, 3, 4, 5 and 6 of the project. Also to broaden the thematic knowledge on mountain value chains with interviews with project partners and external experts.	Multimedia	Own production	Mp4, mov	Open after anonymisation	The podcasts are intended to communicate progress and results in an innovative and engaging way, amplifying the impact of the project.	All MOVING target groups	CC0
WP1	D1.1 DECO Strategy (initial version) D1.6 DECO Strategy (final version) (linked to D1.4 and D1.7)	DECO strategy	A living document compiled and updated with key MOVING communication outputs and activities. It collectw data on the key exploitable results and monitor and evaluate the Key Performance Indicators.	Report file	Own production	Pdf	Open	These deliverables are key to achieving a number of project objectives and, as such, are integrated into and support all other project activities. into and supports all other project activities.	MOVING Consortium	CC0

WP1	Task 1.2	Communication guidelines	This document collates guidance, examples and tips linked to the language and style used, social media, blogs, articles and press releases. It includes the explanation of the MOVING monitoring tool for communication activities. The document is conceived as a living document, which will be enhanced throughout the project, incorporating the learning and experience gained in the implementation of the activities.	Report File	Own production	Pdf	Restricted	To help consortium partners in the communication activities.	MOVING Consortium	
WP1	D1.4 DECO Activity Report (Year 1 and 2) D1.7 DECO Activity Report (Year 3 and 4)	DECO activity Report	These deliverables include data related to: (i) statistical data on MOVING communication channels, products and activities, (ii) analysis of external channels for outreach; (iii) detail of key exploitable results (iV) survey results of partners' perception of their usefulness, challenges and opportunities and (v) progress of Key Performance Indicators.	Report File	Own production	Pdf	Open	These deliverables are conceived as self-assessment exercise that has the ultimate purpose of identifying improvements in the dissemination, exploitation, communication and outreach activities and tasks to make them the most appropriate to the needs of the project, based on the experiences in the implemented activities	MOVING Consortium	CC0

WP1	Task 1.2 (and linked to all WPs)	Leaflet		Text file	Own production	Pdf	Open	Leaflets aim to raise the awareness of the project in different languages and promote the progress and results of the project.	All MOVING target groups	CC0
WP1	Task 1.1 (and linked to all WPs)	Newsletter	The project's newsletter includes a featured article, news and updates from the project and its results, news from stakeholders and other relevant projects. The newsletters are shared through the mailing list, created at the beginning of the project and managed by AEIDL using the Mailchimp platform. This mailing list and subscription form complies with the GDPR rules.	Text file	Own production	Pdf	Open	Newsletter information and data aim to promote the progress and results of the project, helping to connect with stakeholders, improve their engagement and increase the project's impact.	All MOVING target groups	CC0
WP1	Task 1.2 (and linked to all WPs)	Infographics	The data included in infographics are extracted from project deliverables, from analyses carried out at CoP level or from information analysed from documents of other organisations.	Text file	Own production	Pdf	Open	Infographics aim to raise the awareness of the project and the relevance of mountains in Europe. Also to promote the objectives, progress and results of the project.	All MOVING target groups	CC0

WP1	D1.3 MOVING CoP design and implementation report	MOVING CoP design and implementation report	This deliverable includes data related to: (i) performance and engagement of the regional MAPs using the data included in the Monitoring and Evaluation (M&E) tool for regional MAP (in M17 and M22) by all MAP coordinators. Through this tool, the quantitative and qualitative data have been collected relating to: (a) Setting up and MAP composition; (b) Activities (WP3, 4 and 6) and (c) Consultations and interviews (WP3 and 4). (ii) analysis of the performance and engagement of the EU MAP. (iii) analysis of the Virtual Research Environment (VRE) Labs for regional MAPs and for the EU MAP to know the use and level of interaction.	Report File	Own production	Pdf	Open	The compilation of data and reporting of the MOVING CoP activities is conducted with the aim to assess the implementation and development of the CoP. The specific objectives are: • analyse the performance and engagement of the project Multi-Actor Platforms (MAPs) (regional and EU MAPs) towards achieving the MOVING and CoP objectives; • identify issues in the implementation of the workplan; • learn from results achieved; • draw recommendations, identify areas of improvements, and design actions and follow-up steps.	All MOVING target groups	CC0

			(iv) analysis of the survey results on EU MAP - Ideas and expectations. A total of 20 responses were received during August 2021 by project partners. (v) analysis of the survey results on MOVING Community of Practice (CoP) - Ideas and expectations. A total of 20 responses (75% from project partners and 25% form non-partners) have been received during May and June 2022.							
WP1	T1.5 and D1.5 Youth Engagement Report	Youth Engagement Report	Written summaries of the youth engagement workshop held in each of the 23 MRLs in 2022. Further written updates on any other youth or school engagement during 2022-2023.	Report files	Own production	Pdf	Open	It requires anonymisation. The reports can be used as inputs for other WP1 DECO activities; and will be analysed to generate D 1.5. The deliverable will capture the preferences and ideas of young people in the MRL about future mountain development and the role of value chains.	All MOVING target groups	CC BY

WP1	D1.2 and task 1.6	MOVING MOUNTAINS APP	The APP does not produce data on its own and is rather a facilitator for the input and consumption of data provided by other components. In particular a selection of the public content produced is reflected onto the app; Community posts are forwarded directly to the D4Science Social Service and the user base is inherited from D4Science Identity and Authorisation service.	Software	Own production	code	Open	APP to foster engagement of people to resilience of the mountain regions through identification and sharing information. Refer to MOVING Project site, D4Science VRE and Social Service.	All MOVING Target groups	CC BY

WP1	D1.8 31 Practice Abstracts	31 Practice Abstracts (M24)	This deliverable includes PAs on several topics. It is based on the data that had previously produced by MOVING Partners in respective tasks in WP1, WP2, WP3, and WP4.	Text file	Own production	Pdf	Open	This deliverable provides key results and outcomes of the several tasks that have been carried out during the first two years of the project in order to enable the practitioners make use of them.	All MOVING target groups	CC0

WP1	D1.9 58 Practice Abstracts	58 Practice Abstracts (M48)	This deliverable will be based on 8 topics: 1- Data imaging and DSS tools for mountain areas 2- Foresight analysis 3- Comparative assessment of VCs 4- Repertoire of strategic options 5- Conceptual framework for mountain areas 6- Mountain policy roadmap 7- MOVING in my mountain region 8- COP on mountain areas All these PAs will be based on the data that have previously produced by MOVING Partners in respective tasks in WP1, WP2, WP3, WP4, WP5, WP6, and WP7.	Text file	Own production	Pdf	Open	This deliverable provides key results and outcomes of the several tasks that have been carried out during the four years of the project in order to enable the practitioners make use of them.	All MOVING target groups	CC0
WP2	D2.1 MOVING Conceptual Framework - Draft	Conceptual and Analytical framework	The CAF is based on concepts described in scientific literature. No data have been generated in the design of the conceptual and analytical framework (CAF).	Report file	Own production	Pdf	Open	It represents the conceptual approach which will guide the activities within the project.	MOVING Consortium	CC0

WP2	D2.2 Initial set of Policy Briefs	Policy Briefs	The deliverable includes data related to: - Description of the Mountain Reference Region (MMR) and related case study value chain. -The contribution of the value chain to the resilience and sustainability of the MRR. - The elements of potential interest for the policy debate. These data have been generated for 23 case study value chains and respective MRR based on the knowledge and experience of MOVING partners	Text file	Own production	Pdf	Open	In line with the project objectives, these data were needed for a preliminary understanding of the main routes towards which to direct the analysis of : - The vulnerability of MRRs (WP3) - VCs contribution to the resilience and sustainability of mountain areas (WP4, WP5 and WP6) - Recommendations for new policies for mountain areas (WP7)	All MOVING target groups	CC0

WP3	D1.3	Land use systems and land cover map in 23 the reference regions	Consistent land use maps (combining existing high quality data sources) across the 23 MRR with detailed high-resolution classification.	Report file	Own production	Pdf	Restricted	Identify and systematise information about the farming and forestry systems existing in the selected reference regions. The characterisation of the main archetypes in the context of the studied mountain areas will allow the establishment of linkages between the region specific land use systems and expected changes driven by new large-scale environmental conditions, but also improve the transferability of place-based research to understanding processes of change in similar areas.	Members of the consortium (including the Commission Services)	

WP3	D3.2	Land use systems vulnerability matrixes and vulnerability maps for the 23 reference regions	Spatial expression of the participatory vulnerability analysis regarding climate change and socio-economic drivers, in each MRL.	Report file	Own production	Pdf	Open	Identify the vulnerability indicators of each relevant farming and forestry system in face of the known changes; and will associate vulnerability levels with productivity thresholds. Model productivity of the dominant crops and other productions related with each land use system using the data previously collected to provide forecasts in relation to the expected changes assessed.	All MOVING target groups	CC0

WP3	D3.3 Tools for science-society-policy interfaces (Final version)	Tools for science-society-policy interfaces	The Story Map Building and Visualising Tool (SBVMT) is an open-source and free-to-use tool to build and publish story maps, which overcomes common drawbacks of other software by operating within the open-science e-Infrastructure (D4Science) used in the MOVING Project. SBVMT includes new features such as an ontology to represent story maps, Semantic Web technologies for data representation, automatic connection to Wikidata, secure multi-user collaboration in story building, and visualisation of the narrative either as a story map or a timeline.	Report file	Own production	Pdf	Open	The SMBVT makes it possible to draw up and represent the territory in a concise and complete way. In general, it has contributed to filling the gap between the map and the territory.	Members of the consortium (including the Commission Services)	CC0
WP3		Spatial datasets	The Story Map Building and Visualising Tool (SMBVT) re-uses OpenStreetMap as a background map. A geospatial dataset of point locations was created from the geographical coordinates of the places mentioned in the story maps by the experts.	Numeric database	Own production	Spatial data formats (WMS, JSON)	Open	Representing places on a map within a Story Map	All MOVING target groups	CC0

WP3		Summary of the indicators for the 23 RR	Data for the comparative analysis across the 23 MRR.	Numeric database	Own production	xlsx	Open	Identify and provide a set of indicators for the 23 RR.	All MOVING target groups	CC0

WP4	D4.1 Inventory of Mountain Value Chains	Inventory of Mountain value chains	The deliverable includes data related to: (i) Description of the value chains; (ii) Key local assets for the value chains activities, (iii) Description of the challenges the value chains are, or will face, in light of climate changes and other socio-economic treats and (iv) Description of the level and type of innovations in the value chain. This information was collected for 454 value chains (VCs) located in European and associated countries. The data collected are based on project partners knowledge and information retrieved in grey literature. Additionally, also socio-economic and demographics information on the respective MRR and Mountain Reference Landscape (MRL) were collected for all 454 VCs. These data were collected from national and EU statistical databases (e.g., Eurostat).	Report file	Own production	Pdf	Open	The data collected from various sources (e.g., websites, reports, news, personal knowledges, etc..) were needed to provide an overview (although not exhaustive) of the typologies of mountain-based value chains, the assets on which they are based, the challenges they face and the presence of innovations. The complementary socio-economic and demographic data served the need of providing an understanding of the operational environment of each value chains.	All MOVING target groups	CC BY

WP4	D4.1	Mountain value chains inventory database	The data collected for D4.1 were stored in a unique database counting 454 records (identified by a unique ID) and 61 variables. The data reported in the database are the same as described for D4.1.	Numeric and textual database	Own production	xlsx	Restricted	The database has been created to accommodate the need to have a unique common source of data for further statistical, and content analysis and interpretation of the data.	Members of the consortium (including the Commission Services)	
WP4	D4.2	List of selected value chains and relationship building	The data collected for D4.2 was based on the information provided by each partner written into a word template and saved on the VRE. These 23 templates were synthesised into one document; and a qualitative analysis of the main themes generated the overview at the beginning. This analysis was done manually without the use of a database.	Report file	Own production	Pdf	Open	The report was created to confirm the focus for T1.3 onwards and highlight the relevant actors who would need to engage in the participatory methodology.	All MOVING target groups	CC BY

WP4	D4.3 covers T4.3 and T4.4	Report on participatory value chain analysis	The 23 partners have submitted data in a word template and 4 powerpoint diagrams related to: The context of the MRL and rural development; the VC and its development; the practices, actors, flows and stages of the VC; the valorisation outcomes; how the VC assembles with one or two other mountain VCs and how these practices, actors and outcomes are distributed across different nested socio-ecological systems. These data compromise a synthesis of information held in grey and published literature; secondary data sets; and primary data collected through interviews, participant observation and MAP workshops (online and in person). These data have been coded in qualitative software database (NVIVO12) and codified into an excel spread sheet. There are 23 unique rows across five sections; each section has variable column associated with the data collection templates.	Report files	Own production	Pdf	Restricted	The deliverable is a description of the main patterns and outcomes found from the data collected in the document and diagram templates. It is restricted as some of the data, or partner evaluation of performance, could be sensitive, particularly in cases where there are very few firms.	Members of the consortium (including the Commission Services)	

WP4	D4.4	Digital Stories for each Reference Region	Data to generate a script for an interactive story map or an oral presentation combining text and visuals. There will be one script and one product per VC (n = 23).	Multimedia files	Own production	Mp4, mov	Open	Data collected for T4.3 and T4.4 will be used to generate a script for an interactive story map or an oral presentation combining text and visuals. These will be accessible films or interactive documents online to highlight the main findings in D4.3 in a format that is accessible to a wider audience.	All MOVING target groups	CC BY
WP4	D4.5	Report on Vulnerability and Resilience Performance of 23 Reference Region Value Chains	The 23 partners will submit a report using a word template on the participatory workshop. The workshop will cover: the main sources of vulnerability for the VCs and MRLs (reusing data from T3.3); the main rural development challenges for the MRL (including inputs from T1.5) and the main areas of resilience building on existing territorial capital. The data will be qualitative and primary.	Report files	Own production	Pdf	Open	The outcome will detail the main sources of vulnerability and the main rural development issues; as well as the areas of resilience and strength to be protected and to use to improve MRL outcomes. The report will be used to illustrate commonalities or specific issues across the 23 cases. This should be used with WP7 to contribute towards the policy road map.	All MOVING target groups	CC BY

WP4	D4.6	Global Upgrading Strategy	Based on the D4.3 and D4.5 existing literature illustrating good practice in relocalising benefits or protecting endogenous development will be summarised. The only new data generated will be if the potential strategies are shared with the regional MAPs; in which case their feedback will be summarised in a word template and analysed using NVIVO 12. A report for each VC will be generated as well as a summary across all 23.	Report files	Own production	Pdf	Open	The reports will be used to raise awareness of actions that could be undertaken by VC actors to maximise the contribution of their VC to mountain development. The synthesis report will be used to aid the policy road map.	All MOVING target groups	CC BY
WP4	D4.7	31 Practice Abstracts (M32)	Each partner will draw on D4.3 and D4.5 to provide a practice abstract to summarise the main contribution their VC makes to mountain development. There is no new data generated.	Text file	Own production	Pdf	Open	These are short and accessible outputs to raise awareness within the MAPs and associated actors of the main outcomes of the WP4.	All MOVING target groups	CC BY

WP5	D5.1	Comparative cross-case report on Mountain Value Chains	This deliverable will produce data through the application of questionnaires, interviews, and workshops.	Report File	Own production	Pdf	Open	This deliverable aims to report the results of a participatory and comparative assessment and benchmarking of the clusters of VCs as well as the relevance of the different variables in the vulnerability, resilience, and sustainability of the clusters.	All MOVING Target groups	CC0
WP5	D5.2	Policy Briefs	Data for these policy briefs will be generated for 5 clusters based on the knowledge and experience of MOVING partners.	Report File	Own production	Pdf	Open	Each cluster of VCs will draft a policy brief, gathering its main outcomes and aiming to raise awareness about the goods provided by mountainous areas and to guide evidence-based decisions.	All MOVING Target groups	CC0
WP6	D6.1	Guidelines for the foresight exercise	Guidelines explain how to conduct the foresight exercises. The foresight exercise will be a mix approach combining qualitative and quantitative parts.	Report File	Own production	Pdf	Restricted	To help consortium partners in the foresight exercises.	Members of the consortium (including the Commission Services)	

WP6	D6.2	Foresight report per reference region. Each partner working in the reference region	Reports. The guidelines (D6.1) will circulate among the partners involved in their implementation, to get feedback to the draft. After delivery of the final guidelines and based on enriched literature review and the conceptual framework from WP2, researchers will carry on a contextualisation and an adaptation of the guideline for each case study.	Report File	Own production	Pdf	Restricted	To adapt to each specific regional context and consider the observations and remarks of each partner. This will allow each partner to identify the socio-ecological drivers and game-changers (social dynamics, technology pathways, development strategies, policy environments) that will shape the future of mountain VCs by 2050.	Members of the consortium (including the Commission Services)	
WP6	D6.3	Synthesis report, including a Repertoire of Strategic Options	Using the results of the regional, cross-regional and European exercises, a synthesis report will be carried out to provide a comparative overview of all scenarios and a Repertoire of Strategic Options (possible responses of the stakeholders to tackle the challenges).	Report File	Own production	Pdf	Open	To provide visions of future trends and dynamics that permit identifying policy gaps and policy modernisation needs to face the challenges identified in the scenarios.	All MOVING target groups	CC0

WP6	D6.3 (and linked with WP3 and WP4)	Regional, Cross Regional and European H2050 agriculture scenarios description	The foresight exercise will provide a set of scenarios (4), including a narrative on how the VCs taken into consideration will affect the resilience and the sustainability of the area.	Text file	Own production	Pdf	Open	To produce (4) H2050 scenario narratives based on potential future scenario frames to assess the strategic options for the evolution of mountain VCs at European and regional levels.	All MOVING target groups	CC BYSA
WP6	D6.3 (and linked with WP3 and WP4)	Regional, Cross Regional and European H2050 agriculture scenarios data output	The foresight exercise will provide a set of scenarios (4), including a set of economic, social, and ecological indicators that will show the distance from the baseline scenario. Then, a questionnaire will turn the assessment of the 2 preferred scenarios and their related preferred policy options into an evaluation of impacts, through Likert-scale.	Numeric database	Own production	xlsx	Open	To get accurate data on quantitative evaluation of scenarios and policy options (based on a consolidated set of a few common indicators).	All MOVING target groups	CC BYSA

WP7	D7.1 (Policy Roadmap, including results of the Policy Audit)	Policy Roadmap including the results of the Policy Audit and recommend ations for a new generation of public policies and strategies for Europe's Mountain areas	A word-based template will be used to guide the partners in the collection of information on existing policies for mountain areas. Where appropriate, the views / observations of key informants will also be collected.	Report files	Own production	Pdf	Open	Data will be both collected and re-used to assess the current status of policy development and implementation regarding mountain areas	All MOVING target groups	CC0
WP7	D7.2 (Policy Design Toolkit)	Policy Design Toolkit	A "Quick Start" Policy Design Toolkit will be developed with guidelines for future policy formulation. It will include the different techniques, schemes or devices, which can be used to collect, condense, and make sense of different kinds of policy relevant knowledge to perform some or all of the various inter-linked tasks of policy formulation.	Report files	Own production	Pdf	Open	The produced data will provide relevant knowledge on the different tools that can be used in the phases of policy formulation: 1) problem characterization, 2) problem evaluation, 3) specification of objectives, 4) options assessment, and 5) policy design.	All MOVING target groups	CC0

WP7	Task 7.3	Online consultation	An excel-spreadsheet will be generated containing the results of an EU-wide online stakeholder consultation. This survey will be undertaken using proprietary GDPR-compliant online software.	Report file	Own production	xlxs	Restricted	Data will be used to validate and ground-truth the outcomes of the policy audit, plus the policy 'recommendations' proposed for integration into the Policy Roadmap (D7.1)	All MOVING target groups	
WP8	D8.3 DMP (Initial version) D8.7 DMP (Midterm version) D8.12 DMP (Final version)	Data Management Plan	The three deliverables related to DMP describe the data management life cycle for the data to be collected, processed and/or generated by MOVING Horizon 2020 project.	Report File	Own production	Pdf	Open	The DMP functions as a guiding document to ensure good data management throughout the lifecycle of the project in order to make the information collected and produced Findable, Accessible, Interoperable and Re-usable (FAIR).	MOVING Consortium	CC0
WP8	Task 8.3	Report of the Kick-Off Meeting	Report of the Kick-off meeting	Report File	Own production	Pdf	Restricted	Produce minutes and agenda of the topics discussed	Members of the consortium (including the Commission Services)	

WP8	Task 8.1	Handbook on management	Handbook of management for quality assurance	Report File	Own production	Pdf, doc, excell	Restricted	Provide guidelines for financial reporting, presentation standards for deliverables and reports, payment procedures plan and calendar	Members of the consortium (including the Commission Services)	
WP8	Task 8.3	Report of the Consortium Meeting (M7)	Report of the Consortium meeting (M7)	Report File	Own production	Pdf	Restricted	Produce minutes and agenda of the topics discussed	Members of the consortium (including the Commission Services)	
WP8	Task 8.3	Report of the Consortium Meeting (M13)	Report of the Consortium meeting (M13)	Report File	Own production	Pdf	Restricted	Produce minutes and agenda of the topics discussed	Members of the consortium (including the Commission Services)	
WP8	Task 8.3	Report of the Consortium Meeting (M19)	Report of the Consortium meeting (M19)	Report File	Own production	Pdf	Restricted	Produce minutes and agenda of the topics discussed	Members of the consortium (including the Commission Services)	

WP8	Task 8.3	Report of the Consortium Meeting (M25)	Report of the Consortium meeting (M25)	Report File	Own production	Pdf	Restricted	Produce minutes and agenda of the topics discussed	Members of the consortium (including the Commission Services)	
WP8	Task 8.3	Report of the Consortium Meeting (M31)	Report of the Consortium meeting (M31)	Report File	Own production	Pdf	Restricted	Produce minutes and agenda of the topics discussed	Members of the consortium (including the Commission Services)	
WP8	Task 8.3	Report of the Consortium Meeting (M37)	Report of the Consortium meeting (M37)	Report File	Own production	Pdf	Restricted	Produce minutes and agenda of the topics discussed	Members of the consortium (including the Commission Services)	
WP8	Task 8.3	Report of the Consortium Meeting (M42)	Report of the Consortium meeting (M42)	Report File	Own production	Pdf	Restricted	Produce minutes and agenda of the topics discussed	Members of the consortium (including the Commission Services)	

WP8	Task 8.5-D8.13	Clustering and synergies with other EU projects	Clustering actions and advance knowledge on how connections can be made across cross-consortia networks	Report File	Own production	Pdf	Open	Report on identifying enabling factors	All MOVING Target groups	CC0
WP8	Task 8.3	Report of the final Consortium Meeting	Report of the Consortium meeting Final	Report File	Own production	Pdf	Restricted	Minutes and agenda of the topics discussed	Members of the consortium (including the Commission Services)	
WP9	D9.1	H - Requirement No. 1	Criteria to be used to identify research contributions- Templates of the informed consent	Ethics	Own production	Pdf, doc, form	Restricted	Requirements for research involving human participants. Ethics requirements concerning MOVING and details of the research activity to be carried out in each Work Package and the associated procedures and documents needed to satisfy the ethics requirements in accordance with EC procedures.	Members of the consortium (including the Commission Services)	
WP9	D9.2	POPD - Requirement No. 2	Contact details of the Data Protection Officers	Ethics	Own production	Pdf, doc, form	Restricted	The contact details of each project partner DPO will be made available to all data subjects involved in the research.	Members of the consortium (including the Commission Services)	