



Horizon 2020 MSCA-ITN-2017

(Marie Skłodowska-Curie Innovative Training Networks)

VISION™

Project Number: 764461

Acronym: VisIoN

Project title: Visible light based Interoperability and Networking

**Work Package 6: Exploitation, Dissemination
and Outreach**

Deliverable D6.2: Data Management Plan

Ecole Centrale Marseille (ECM), Marseille, France

December 2018

1. CONTEXT AND IMPORTANCE

This data management plan (DMP) is a formal document that outlines how data will be treated and managed, both during and after the project. The goal of the DMP is to consider the different aspects of data management, metadata generation, data preservation, and analysis, to ensure that data are managed correctly, and they will be prepared for preservation in the future. Dissemination opportunities, targeted audiences and key messages will be identified and updated regularly.

The origin of data in VisIoN project is diverse (related to research data, training activities, dissemination activities, etc.). They will be typically made available by the research groups, collected and distributed with Ethics approval.

The following items can be considered as a possible dataset in the context of the project:

- Any dataset produced by aggregating data from data providers for analysis purposes;
- Any dataset produced by aggregating data from data providers for building an integrated dataset out of the aggregated data (e.g. this is the case of Knowledge Bases);
- The material of a training course;
- A dataset documenting and providing evidence for either a report or a publication produced in the context of project activities.

The data generated by ESRs strongly depends on the individual doctoral projects, tools and research methods used within these projects. VisIoN will assume the principle of using commonly used data formats for the reason of compatibility, efficiency, and access. Open data formats will be preferred in an easy re-usable format.

The accessible data will be the comprehensive result data sets of characterized samples that are used to create figures and plots in **scientific publications**, such that other researchers can compare their results easier and that further results including historic data can be produced in a more convenient way.

The data sets will be shared among the consortium members as the working baseline to produce scientific publications, to verify and validate the results through repeated experiments at different institutions, and as a baseline for comprehensive documentation.

Currently, a clarification is in progress within the consortium to identify the best way to manage research data.

2. FAIR DATA

2.1. Making data findable, including provisions for metadata:

When a collection of data is ready to be published publicly, the final version of these data currently stored on host organizations is uploaded on the most pertinent open access public platform. Depending on the type of data, it could be the VisIoN website (www.vision-itn.eu), or any open access platform of the partner institutions. The data collected from the simulations/measurements will be stored in a suitable format (e.g. Excel files, ODS or CSV files). The data will be stored on the institutional servers of the organisations that have generated them. The data will be stored for two years after the end of the project. After that, the data will be destroyed.

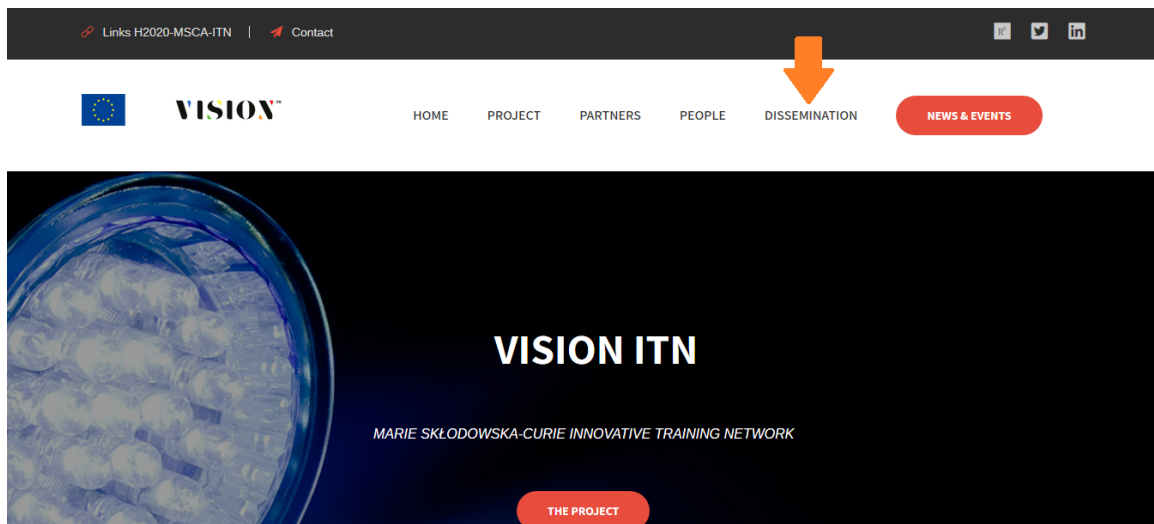
The recorded data from focus groups, workshops, project events, and interviews will be stored as recordings in a suitable format (MP3, OGG or WMA) on the internal servers of the task leading organisations. If focus groups, workshops and interviews are not recorded, the written summaries

will be saved in a suitable format (Word documents, text files, etc.) and will be stored on the internal servers of the responsible institution. The written summaries will be anonymised and will be made available on the online website for third parties' use. The VisIoN data are stored on the host institution's IT infrastructure, thus ensuring data security and protection.

Sharing data within the consortium researchers before publication will be done via secure organisation servers.

2.2 Making data openly accessible:

The data contributions of VisIoN to science will be disseminated via VisIoN website **with no embargo and no password**.



The website www.vision-itn.eu was launched on January 2018 and is updated regularly (with https security protocol).

On the **dissemination** page, there will be available:

- **Publications** in high impact international peer-reviewed journals and magazines
- **Publications** at workshops and international conferences targeting industry, researchers, stakeholders, policy makers and government departments
- General Information
- **Technical/Scientific reports**
- **Technical/Scientific posters & videos**
- **Theses** of 15 ESRs.

VisIoN ITN publications will be available at CORDIS website and OpenAIRE database.

VisIoN ITN research outputs will be made universally accessible on the internet through free research repositories at HAL French website, with no license restrictions. Another French website that will be used is the National portals for data publishing, <http://theses.fr/> for depositing doctoral thesis manuscript. Other partners' repositories will be used for publications, PhD theses, scientific reports, and dissemination documents (e.g. RIA in University of Aveiro, Portugal, <https://ria.ua.pt/> or DeGois research repositories, <http://www.degois.pt/globalindex.jsp>).

2.3 Making data interoperable:

To facilitate interoperability, VisIoN researchers will use data format interoperable (see the table below) and will use semantic Web technologies on VisIoN website.

Data	Used data formats
Text	.txt, .rtf, .odt
Table	.csv, .tvs
Image	.png, .tiff, .jpg, .eps
Audio/ video	.mp3,.mp4
Documentation	.pdf, .epub

2.4 Increase data re-use:

The data contributions of VisIoN to the scientific community will be disseminated via VisIoN website **with no embargo and no password** until 2 years after the end of the project (Sept 2023). Other options will be carefully considered throughout the project based on the best research data management practices coming from the OpenAIRE (<https://www.openaire.eu>).

OpenAIRE2020 assists in monitoring H2020 research outputs and is a key infrastructure for reporting H2020's scientific publications, as it is loosely coupled to the EC's IT backend systems. The EC's Research Data Pilot (<https://www.openaire.eu/opendatapilot>) is supported through European-wide outreach for best research data management.

3. ALLOCATION OF RESOURCES

Data back up and administrative documents will be stored at the coordinator's (ECM/University of Aix Marseille: AMU) repository, AMUBox, and will be kept for 2 years after the end of the project. Where requested, data will be kept for 2 more years. AMUBox is managed and supported by a team of experts and is free of charge for the project.

4. DATA SECURITY

Since 19th October 2015, AMU staffs have a new file storage and sharing service (capacity of 30Go). Complementary to existing services, AMUbox makes it possible to keep documents in a safe place on the University's servers, synchronize them and share them easily. AMUbox is a "cloud" type software based on the "Owncloud" technical solution. A competing and alternative solution to Dropbox, Google Drive or OneDrive services with one major difference: data storage is done within the AMU infrastructure and access is subject to our privacy and computer security policy.

5. ETHICAL ASPECTS

VisIoN partners have to comply with the ethical principles as set out in Article 34 of the Grant Agreement, which states that all activities must be carried out in compliance with:

- a. Ethical principles (including the highest standards of research integrity) as set out, for instance, in the European Code of Conduct for Research Integrity (European Science Foundation, 2011) including, in particular, avoiding fabrication, falsification, plagiarism or other research misconduct.
- b. Applicable international, EU and national law.

6. RESPONSIBILITY

As well as to European Commission policies on open data management, project partners must also adhere to their own institutional policies and procedures for data management. All partners have equal responsibility for open data in general and especially for confidentiality. All involved partners are responsible for the compliance with the DMP and the procedures for data collection, handling and preservation.

The DMP will be updated whenever important changes to the project occur due to inclusion of new datasets, changes in consortium policies or external factors.

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