LIGHTME – Changing the way data is shared among stakeholders – Creating a multidisciplinary platform, an Open Innovation Environment.

Large amounts of research data are generated in every Horizon 2020 project and they come in different forms, such as statistics, experimental results, measurements and observations, mainly stored in digital form. In order for the value of the research data to be exploited, knowledge should be safely stored, preserved and exchanged between researchers, even after the end of each project.

In that regard, **Horizon 2020 projects** are following the **Open Research Data Pilot** (ORD – pilot)2, which promotes research data accessibility and reusability. The **ORD** – pilot requires the creation of a well-rounded **Data Management Plan** (DMP), which contains all the actions that will be undertaken, in order to achieve safe and structured data storage and preservation, while allows for the maximum potential data openness and reusability.

It's worth noting that the **European Commission** has introduced the **DMP** as a separate task for every project. The **DMP** mainly focuses on the data required for the validation of scientific results, but publishing any extra data generated throughout the project and making them openly accessible is highly encouraged. Although, it's understandable that some partners want to keep a portion or the entirety of their research data closed for good reasons e.g. Commercialization, Intellectual Property etc.
Therefore, partners of **Horizon 2020 projects** are given the possibility to opt-out of the **ORD** – pilot by explaining their reasons for doing so in their **DMP**. The **DMP** is more of a strategy than a scripted process. Every project is different and the **DMP** created for it must be customized accordingly to serve its needs. Nevertheless, the creation of a good **DMP** is crucial for ensuring the long-term preservation and the maximum possible reusability of the research data.

The **LIGHTME project** aims at changing the way data are shared among stakeholders, by creating a multidisciplinary platform, an **Open Innovation Environment**.

The suggested platform will collect, **integrate** and **harmonize** the created data that will be generated into the Project.

For more information:
www.lightme-ecosystem.eu

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At the same time, proper **data management** and well-organized **processing flow**, will achieve the following vital goals:

- **Exhaust the possibilities of efficient data sharing and data usage by industry, end users, regulators as well as academics.**
- **Ensure the quality of the heterogeneous data, including hierarchical raw data of modelling tools and experimental protocols.**
- **Ensure privacy and security as well as data integrity.**

The knowledge acquired by the partners of a research project usually appears in digital form. It is essential that research data are stored in a safe, structured and understandable manner, so that researchers are able to easily access them and use them in their future work.

The tool for gathering all the information regarding the metadata of each individual partner is an excel sheet – questionnaire following a standardized template.
The template is designed to reflect a set of specifc questions indicated by the EC (European Commission), which are essential to every data management plan.

The information included in a data management plan can be categorized as follows:

- **data summary, which includes the types and formats of files used for the oyster project per partner**
- **fair data, which refers to the future availability of the data created**
- **allocation of resources, which refers to the costs related to the process of making data FAIR** (findable, accessible, interoperable, reusable).

The questionnaire was sent to the partners and input was collected.

The questionnaire included a set of questions that covered the types of data that were collected and processed, as well as the reason for their development, the procedures utilized to acquire and manage them all covered. Once enough input was provided, the DMP could then be used for the documentation and monitoring of data throughout the duration of the project.

The replies received were enlightening regarding the different data that occur within the project, as well as valuable information attached to it, such as origin, format and access restrictions.
In addition, the DMP is compliant with the **FAIR data principles**, which implies that the data generated by the project should be easily **Findable, Accessible, Interoperable** and **Reusable** and aim to maximize the management of research data and its future reuse.

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