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(Acronym: LAPERITIVO)



LAPERITIVO – Deliverable

D7.2 – Data Management Plan

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About LAPERITIVO

In recent years, organometal halide perovskite-based photovoltaics (PV) have attracted great interest for their high-power conversion efficiency at low manufacturing cost. Presently, East Asia especially China and North America are rapidly ramping up towards mass production of perovskite PV. More efforts are urgently needed for perovskite PV upscaling in Europe. LAPERITIVO focuses on the development of large-area stable perovskite solar modules, using processes with high manufacturability. Efficiency targets are 22% and 20% for 900 cm² opaque and semi-transparent (with >95% bifaciality) modules, respectively. Key research activities include the deposition of high-quality perovskite films as well as contacting layers over a large substrate area using industrially viable techniques. Indoor and outdoor field tests, in line with the International Electrotechnical Commission (IEC) standards, will be performed to monitor module reliability. Safety, circularity, and sustainability will be assessed to demonstrate products with minimized environmental impact. The developed semi-transparent modules will be applied to perovskite/silicon four-terminal tandem modules and also to Agrivoltaics. Design of perovskite PV pilot line of 200 MW and production capacity of 5 GW in Europe will also be explored. The well-balanced consortium consists of 20 complementary partners including 8 European leading research institutes/universities (IMEC, UNITOV, EMPA, Fraunhofer ISE, IPVF, CNRS, CSEM, Hellenic Mediterranean University), 1 African research institute (Green Energy Park, Morocco), 5 small and medium-sized enterprises (Becquerel Institute, Becquerel Institute France, Becquerel Institute Spain, Dyenamo, TSE Troller, SmartGreenScans, BeDimensional), and 6 big companies (Pilkington Technology Management Limited (PTML), Singulus Technologies, Voltec Solar, Engie, TotalEnergies, EDF). In this way, the project aims to establish the pathway to open the era of manufacturing perovskite-based next-generation PV products in Europe.

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Table of Contents

1	Executive Summary	9
2	Administrative data.....	10
2.1	Data summary.....	10
2.2	Making data findable, including provisions for metadata	10
2.3	Making data accessible	11
2.4	Making data interoperable	11
2.5	Increase data re-use.....	11
3	Technical data	12
3.1	Data summary.....	12
3.1.1	Data description.....	12
3.1.2	Type of format	13
3.1.3	Expected Size	13
3.1.4	Purpose.....	13
3.1.5	What is the origin/provenance of the data, either generated or re-used?	14
3.1.6	Shared with partners?.....	14
3.1.7	To whom might the data be useful ('data utility'), outside LAPERITIVO project? ...	14
3.2	Making data findable, including provisions for metadata	15
3.2.1	Will data be identified by a persistent identifier?	15
3.2.2	Will rich metadata be provided to allow discovery? What metadata will be created? What disciplinary or general standards will be followed?.....	15
3.2.3	Will search keywords be provided in the metadata to optimize the possibility for discovery and then potential re-use?	15
3.2.4	Will metadata be offered in such a way that it can be harvested and indexed?	15
3.3	Making data accessible	15
3.3.1	Repository.....	15
3.3.2	Data.....	16
3.3.3	Metadata.....	17
3.4	Making data interoperable	18
3.5	Increase data re-use.....	19
4	Conclusions	19

Glossary

List of terms and abbreviations	Definitions
Data Management Plan (DMP)	A document describing the data management life cycle for data collected, processed, or generated in a project ¹
Research Output	The results generated by a given action to which access can be given in the form of scientific publications, data or other engineered results and processes such as software, algorithms, protocols and electronic notebooks. ²
Research Data	Refers to information, in particular facts or numbers, collected to be examined and considered as a basis for reasoning, discussion, or calculation. In a research context, examples of data include statistics, results of experiments, measurements, observations resulting from fieldwork, survey results, interview recordings and images. The focus is on research data that is available in digital form. ³
Dataset	Data set (or dataset) refers to any organised collection of data . ⁴
Open access	Online access to research outputs provided free of charge to the end-user. ⁵
Persistent identifier (PID)	A long-lasting reference to a document, file, web page, or other object.
Digital Object Identifier (DOI)	Digital Object Identifier; a code used to permanently and stably identify (usually digital) objects. DOIs provide a standard mechanism for retrieval of metadata about the object, and generally a means to access the data object itself. ⁶
Exploit(ation)	The use of results in further research and innovation activities other than those covered by the action concerned, including among other things, commercial exploitation such as developing, creating, manufacturing and marketing a product or process, creating and providing a service, or in standardisation activities. ⁷
V_{oc}	Open circuit voltage
J_{sc}	Short-circuit current density
FF	Fill Factor
PCE	Power Conversion Efficiency
SAM	Self-Assembled Monolayer
eLCA	Environmental Life Cycle Analysis
GFF	Geometric Fill Factor
JV	Current-Voltage

¹ [Data management- H2020 Online Manual](#)

² COM(2025) 189 final [a3aa9b90-15c0-4ea7-b25e-9f4e29cfa740_en](#)

³ [Open access- H2020 Online Manual](#)

⁴ [Glossary:Data set- Statistics Explained- Eurostat](#)

⁵ [aga_en.pdf](#)

⁶ [Comment: The FAIR Guiding Principles for scientific data management and stewardship](#)

⁷ [aga_en.pdf](#)

EQE	External Quantum Efficiency
UV-Vis	Ultraviolet-Visible
PL	Photoluminescence
XRD	X-ray Diffraction
AFM	Atomic Force Microscopy
SEM	Scanning Electron Microscopy
CC0	Creative Commons Zero
IEC	International Electrotechnical Commission
ISOS	International Summit on Organic and Hybrid Photovoltaics Stability
PACT	Photovoltaic Accelerator for Commercializing Technologies
FAIR	Findable, Accessible, Interoperable, and Reusable

1 Executive Summary

This document outlines the Data Management Plan for the LAPERITIVO project. It describes the types of data generated, how they will be used, and how they will be managed both during and after the project. Since all partners generate and store data in different ways, we have collected and summarized information from each partner.

We distinguish clearly between administrative data and technical data:

Administrative data primarily relates to WP7 (Communication, Dissemination, and Exploitation) and WP8 (Project Management). However, it also includes administrative data from all work packages, such as deliverables, milestone reports, work package progress reports, meeting minutes, agendas, and more.

Technical data refers to data generated through technical work. When such data cannot (e.g., due to large file sizes or incompatibility with Microsoft tools) or may not (e.g., due to confidentiality) be stored on the project's shared drive, it will be stored using systems specific to each partner and data type.

We have collected and summarized partner-provided information on data descriptions, formats, sizes, purposes, provenance, and sharing intentions.