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Large-Area Perovskite Solar Module Manufacturing with High Efficiency, Long-Term Stability and Low Environmental Impact (Acronym: LAPERITIVO)

LAPERITIVO – Dissemination, Communication, Exploitation (DCE) Plans

D7.1 – Set up and monitor Dissemination, Communication, Exploitation (DCE) Plans

Grant Agreement n°101147311

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Legal notice

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Disclaimer

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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 as well as 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 cm^2 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 large substrate area using industrially viable techniques. Indoor and outdoor field tests, in line with 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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LAPERITIVO Consortium Members

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18	AP	CSEM	CSEM CENTRE SUISSE D'ELECTRONIQUE ET DE MICROTECHNIQUE SA - RECHERCHE ET DEVELOPPEMENT	CH	999958839
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24/02/2025	V2	Elina Bosch, Delinke Demeter	All the partners	2nd revised version
28/02/2025	V3	Elina Bosch, Delinke Demeter	Yinghuan Kuang	Final version

Dissemination level

PU	**Public**	
SEN	**Sensitive**	X

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Abbreviations and acronyms list

Abbreviation	Meaning	Abbreviation	Meaning
AB	Advisory Board	LCA	Life Cycle Assessment
Ag	Silver	LCC	Life Cycle Cost (assessment)
ALD	Atomic Layer Deposition	MCDA	Multi-Criteria Decision Analysis
BSW	Bundesverband SolarwirtschaftBundesverband	Pb	Lead
CA	Consortium Agreement	PKS	Perovskites
D&C	Dissemination & Communication	PKS/Si	Perovskites tandem cell with silicon
DECP	Dissemination, Exploitation and Communication Plan	PPA	Power Purchase Agreement
DMF	Dimethylformamide	PCE	Photo Conversion Efficiency
DSO	Distribution System Operator	PVD	Physical Vapor Deposition
EB	Executive Board	RTO	Research and Technology Organisations
EERA	European Energy Research Alliance	SB	Steering Board
EoL	End of Life	SER (FR)	Syndicat des Energies Renouvelables
EPC	Engineering Procurement and Construction	Si	Silicon
EPKI	European Perovskite Initiative	SME	Small and Medium Size Entreprise
ER	Exploitable Result	SPE	Solar Power Europe
EREF	European Renewables Energies Federation	TBD	To be defined
ESMC	European Solar Manufacturing Council	TSO	Transmission System Operator
ETIP PV	European Technology and Innovation Platform	TÜV	Technischer/ Überwachungsverein
EUREC	Association of European Renewable Energy Research Centers	UNEF	Spanish Solar Photovoltaic Association
EY	Energy Yield	WP	Work Package
ExB	Exploitation Board	IAB	International Advisory Board

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FhG ISE	Fraunhofer Institute for Solar Energy Systems ISE	IEC	International Electrotechnical Commission
GA	Grant Agreement	In	Indium
HJT	Heterojunction Technology	KPI	Key Performance Indicator

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1. Executive Summary

This document outlines the dissemination, exploitation, and communication strategy for the LAPERITIVO project, detailing the tools, channels, and methods that will be employed both during and beyond the project's lifespan. It serves as the primary strategic and operational guide for these activities. The document begins by defining key concepts related to communication, dissemination, and exploitation in the context of Horizon Europe. It then introduces the objectives and approach of the communication strategy, which is based on a step-by-step flow analysis, followed by detailed plans for executing the LAPERITIVO project.

LAPERITIVO will adopt a comprehensive and multifaceted dissemination, exploitation, and communication policy, leveraging diverse resources to ensure a multi-channel outreach. This approach is designed to engage a broad spectrum of stakeholders, including researchers in academia, RTOs, and industry, as well as students who may develop an interest in photovoltaic (PV) technologies, decision-makers, policymakers, investors, and others.

The communication strategy also targets the general public, ensuring the dissemination of information and materials through media channels to amplify the project's impact.

The report includes an overview of the design and functionalities of the project website, **www.laperitivo-project.eu**, which is central to effective communication with both key stakeholders and the general public. It explains how the website will support outreach and engagement efforts.

This strategy document is submitted in month M6, with planned updates scheduled for M24 and M40 to incorporate post-project actions.

1.1.1. Description of the deliverable content and purpose

The first version of the Dissemination, Communication, and Exploitation (DCE) Plan, i.e. deliverable D7.1, has been developed in alignment with the overarching dissemination, communication, and exploitation strategy. It draws on the framework outlined in Chapter 2, "Measures to Maximize Impact," of the Grant Agreement (GA), the specific tasks described under Work Package 7 (Annex 1 of the GA, Part A), and the regulations established in the Consortium Agreement (CA) signed by project partners.

This document details the strategies for communication, dissemination, and exploitation to be implemented throughout the project's duration. It identifies the target audiences, the communication tools to be utilized, and highlights the key planned actions and events. As the primary strategic and operational guide, it ensures that relevant information reaches the appropriate stakeholders effectively and on time through the most suitable media.

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This report (D7.1) represents the first version of the DCE Plan and is submitted in M6 (February 2025) as part of Task T7.1 under WP7. Updates to the plan are scheduled for M24 (Aug 2026) and M40 (Dec 2027), as outlined in Table 1.

Table 1.1 - Updates of DCE Plan

#	Name	WP	Lead	Type	Dissem. level	Due
D7.1	Set up and monitor Dissemination, Communication, Exploitation (DCE) Plans	7	BI	Document, Report	Sensitive	M6
D7.3	Set up and monitor Dissemination, Communication, Exploitation (DCE) Plans - Update	7	BI	Document, Report	Sensitive	M24
D7.4	Set up and monitor Dissemination, Communication, Exploitation (DCE) Plans - Final	7	BI	Document, Report	Sensitive	M40

1.1.2. Relation with other activities in the project

The Dissemination, Communication and Exploitation plan is naturally linked to all the activities in LAPERITIVO. The interactions with the International Advisory Board (IAB) and data management will be coordinated by IMEC in WP8 and therefore an alignment with the corresponding activities will also be foreseen. All consortium and associated partners are engaged in communication, dissemination, and exploitation activities.

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