



D7.1 – Dissemination and Communication strategy, roadmap and KPIs

Project Information

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Deliverable Information

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PU	Public	✓
PP	Restricted to other programme participants (incl. Commission Services)	
RE	Restricted to a group specified by the consortium (incl. Commission Services)	
CO	Confidential, only for the members of the consortium (incl. Commission Services)	



Document Log

Version	Date	Description of Change
V1.0	20/04/2023	First draft shared with project partners for review and inputs
V1.1	10/05/2023	First full draft for review by the coordinator
V1.2	30/05/2023	Full deliverable finalised

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1 Deliverable description

Description of the dissemination, exploitation and communication (DEC) plan initially defined within the project to maximize the broadcast of the project objectives and results to reach potential stakeholders including a list of events and the communication package, a communication roadmap and communication KPIs.

2 Executive Summary

The European project Platform-ZERO, starting in January 2023, aims to improve the overall production quality of photovoltaic devices, and at the same time to lower fabrication costs, through zero defect manufacturing. This will be achieved by applying in-line process monitoring, control and artificial intelligence strategies, and implemented in four different pilot plants in four different countries.

The purpose of this report is to present the Platform-ZERO Dissemination and Communication strategy and roadmap which identifies, organises and defines the management and promotion of the Platform-ZERO project objectives and results.

The key underpinning concept of the Platform-ZERO dissemination & communication (D&C) strategy is to target key external stakeholders based upon a three-stage process going from awareness to understanding and ultimately to a point where stakeholders are applying and exploiting the Platform-ZERO project key outcomes. In the first 12 months of the project the main focus of the dissemination actions is on stage 1 of the dissemination strategy (i.e., dissemination for awareness). During the next 24 months of the project, it is anticipated that project partners continue with stage 1, but as concrete results emerge and milestones achieved, the dissemination strategy moves to stage 2 (i.e., dissemination for understanding). In the final 12 months of the project the focus will mainly be on those stakeholders who have the ability to implement the Platform-ZERO innovations within the EU PV manufacturing industry, and the dissemination strategy moves thus to stage 3 (i.e., dissemination for action) which will make use of the practical material for exploitation/implementation.

This first report also gives an overview of some of the foreseen D&C activities to be conducted over the first period of the project, i.e. from M1 to M12. KPIs and associated targets are presented to monitor D&C activities: in the next updates of this report, progress and performance of D&C activities will be checked against these indicators.

3 Introduction

3.1 Aims and objectives

This report provides an overview and description of the Platform-ZERO Dissemination and Communication (D&C) plan which will be implemented to widely promote and raise awareness on the Platform-ZERO project objectives, and then to disseminate the project results.

3.2 Relations to other activities in the project

The D&C strategic planning and execution is conducted under Task 7.1 and will be informed by the work conducted in all other work packages and tasks of the project. The D&C timeline is articulated around the main key deliverables and milestones of the project, which materialise important outcomes which are worth to disseminate and communicate.

3.3 Report structure

Section 4 of the report presents the key objectives and underpinning concept of the Platform-ZERO D&C strategy. **Section 5** provides the dissemination timeline, which is mapped along specific release dates of key deliverables. **Section 6** presents key stakeholders target audiences and their main interests and expectations related to Platform-ZERO. **Section 7** presents the D&C channels which will be used to disseminate Platform-ZERO results, as well as the related KPIs and associated objectives. **Section 8** presents D&C multipliers which will be used to maximize the impact of D&C activities. **Section 9** describes the validation process which will have to be followed by all project partners before a D&C item goes external. **Section 10** presents how the detailed planning and recording of D&C activities will be achieved (i.e., monitoring of D&C activities and of the achievement of the KPIs). **Section 11** presents the D&C toolkit developed to support project partners in the implementation of their D&C activities. **Section 12** presents the first tangible D&C activities foreseen by project partners at the time of writing this report (M5) for the first 12 months of the project.

3.4 Contribution of partners

R2M is the main author of this report and of the overall D&C plan. All Platform-ZERO project partners have reviewed the report and will contribute to the implementation of D&C activities according to this D&C plan.

4 Objectives

The key underpinning concept of the Platform-ZERO D&C strategy is presented in Table 1 below. The idea is to target key external stakeholders based on a three-stage process starting from raising awareness, followed by increasing understanding and, ultimately, reaching a point where stakeholders are applying and exploiting the Platform-ZERO project key outcomes.

Table 1. Platform-ZERO three-stage D&C process from awareness to action

Stage 1. M1-M12 D&C for awareness	Stage 2. M13-M36 D&C for awareness and understanding	Stage 3. M37-M48 D&C for awareness, understanding, and action
In the first instance, the purpose of the Platform-ZERO D&C plan is to raise awareness and communicate broadly about Platform-ZERO aims and objectives targeting the general public and relevant external organizations and stakeholders of the Platform-ZERO project outputs.	A subset of the “Stage 1” target audience for whom D&C for awareness activities is targeted, will potentially be able to directly benefit from the project in significant ways. For this group, an important function of the D&C plan is to provide a deeper understanding of Platform-ZERO project’s work and innovations.	Yet another “Stage 2” subset of the Platform-ZERO stakeholders will be potentially interested to adopt and implement the project’s outputs such as the Platform-ZERO developed in-line process monitoring platform. This group will be equipped with the required skills, knowledge and understanding of the Platform-ZERO project in order to achieve a real change and to foster a greater uptake of zero-defect PV manufacturing.

5 Dissemination timeline

In the first 12 months of the project the main focus of the dissemination actions is on stage 1 of the dissemination strategy (i.e., dissemination for awareness). During the next 24 months of the project, it is anticipated that project partners continue with stage 1, but as concrete results emerge and milestones achieved, the dissemination strategy moves to stage 2 (i.e., dissemination for understanding). In the final 12 months of



the project the focus will mainly be on those stakeholders who have the ability to implement the Platform-ZERO innovations, and the dissemination strategy moves thus to stage 3 (i.e., dissemination for action). The proposed dissemination timeline runs throughout the entire project. As such it will be aligned with the delivery dates of the project's deliverables (see Table 2) and key dissemination events will be aligned as much as possible with the most important outcomes.

As it can be seen in the work plan, during **Stage 1**, we will be able to disseminate and communicate mainly about:

- The process monitoring flow and industrial requirements;
- The design of advanced sensor stations, their configuration and integration;
- A preliminary identification of the project's expected exploitable results.

During **Stage 2**, we will be able to disseminate and communicate mainly about:

- The big data infrastructure and database setup;
- The design and testing of semi-automatized modular sensors prototypes;
- The design of integrated advanced sensor stations;
- The list of components for modular sensor integration;
- The sample fabrication;
- The AI-system architecture;
- The data management, ingestion and extraction algorithms;
- The data communication and control interfaces;
- A description of the project's demonstrators;
- An update on the characterisation of the project's expected exploitable results;
- A description on the project's contribution to standardisation and regulation.

Eventually, during **Stage 3**, we will be able to disseminate and communicate mainly about:

- The final algorithms for control, self-calibration and data conditioning;
- The operation and working procedure of the demonstrators according to each manufacturing process;
- The AI-system implementation and performance;
- The AI-based control unit;
- The performance and impact of process monitoring platform demonstrators at the different manufacturing line;
- An outlook on the scientific and commercial perspective beyond the end of the project.

Table 2. Platform-ZERO deliverables timeline

N°	Deliverable title	Due date	Dissemination focus
D8.1	Project management handbook	M03	Stage 1 Communicating and promoting awareness to wider public
D8.2	Gender Equality plan	M03	
D7.1	Dissemination and Communication strategy, roadmap and KPIs	M05	
D1.1	Report on process monitoring flow and industrial requirements	M06	
D1.2	Design of advanced sensor stations configuration and integration	M06	
D7.5	Knowledge Management and IPR Strategy	M06	

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D8.3	Data and knowledge management plan	M06	
D1.3	Update of risk mitigation strategies	M09	
D8.4	1st phase internal report	M09	
D7.6	Preliminary Innovation Report and ER characterization	M12	
D4.1	Description of the big data infrastructure	M18	Stage 2 Promoting greater understanding and knowledge
D7.2	Mid-term report on Dissemination and Communication activities and performance	M18	
D8.5	Mid-2nd phase internal report	M18	
D3.1	Database setup	M20	
D2.1	Report on the design and testing under simulated industrial conditions of semi-automatized modular sensors prototypes	M22	
D2.3	Report on the design of integrated advanced sensor stations	M24	
D7.8	Contextualization and Market Analysis and preliminary business models	M24	
D2.4	List of components for modular sensor integration	M28	
D1.4	Report on sample fabrication	M30	
D3.2	Report on AI-system architecture	M30	
D4.2	Description of data management, ingestion and extraction algorithms	M30	
D4.3	Description of the data communication and control interfaces	M30	
D8.6	2nd phase internal report	M30	
D5.1	Full description of the Platform-ZERO demonstrators	M34	
D7.7	Final Innovation Report and KERs characterization	M36	
D7.10	Standardization and Regulation recommendations and contributions	M36	
D2.2	Report on final algorithms for control, self-calibration and data conditioning	M39	Stage 3 Promoting uptake of results by relevant stakeholders
D5.2	Report describing the operation and working procedure of the demonstrators according to each manufacturing process	M39	
D8.7	3rd phase internal report	M40	
D3.3	Report on AI-system implementation and performance	M42	
D4.4	Description of the AI-based control unit	M42	
D6.1	Report on performance and impact of process monitoring platform demonstrators at the different manufacturing line	M48	
D7.3	Final report on Dissemination and Communication activities and performance	M48	
D7.4	Final multi-stakeholder event	M48	
D7.9	Final business models and commercialization Plan	M48	

In Platform-ZERO, a large amount of the deliverables has a sensitive dissemination level; however, when it is deemed possible and useful for external dissemination and communication, the lead beneficiaries in charge

of these deliverables may prepare a non-confidential executive summary: this executive summary will be then published on the Platform-ZERO website as a blog post and through social media.

6 Stakeholder groups and target objectives

D&C activities are aimed to encourage all identified stakeholder groups to exploit Platform-ZERO results in their daily work in the photovoltaic (PV) production industry. Exploitation aims to ensure uptake of project results among key target groups now and in the future.

There are already four Key Exploitable Results (KERs) identified at the time of writing this D&C strategy, as highlighted in Table 3. The list of KERs will be further characterised and consolidated during the project: the corresponding work will be reported in deliverables D7.6 and D7.7 (see above Table 3).

Table 3. Platform-ZERO Key Exploitable Results (KERs) and related Expected Results (ERs)





	<p>KER 1 “Defect-free photovoltaic manufacturing methodologies”: Innovative AI-driven methodologies based solely on non-destructive inspection that will reduce manufacturing defects in the PV industry, especially in the production of high complexity third generation PV devices. This will allow to boost PV production yield and product quality, lower production costs and decrease waste of high-value materials and energy increasing the sustainability of PV devices.</p> <p>→Related ERs: process monitoring flow for StS, RtR and LF PV production; database under operational conditions for AI calibration and improvement; methodologies for estimating manufacturing defect reduction in PV; protocols to evaluate the impact of defect reduction on PV production; process optimization strategies for CIGS, Perovskite and smart coating production. (D6.1)</p>
	<p>KER 2 “Advanced sensor stations”: Customizable sensor stations that using a common architecture will integrate different sensor arrays for combined morphological, physicochemical and/or optoelectronic in-line area inspection. The Adv-SS will be compatible with the generation of massive amounts of data and be adaptable for process monitoring and advanced characterization of different complex solid state technologies besides PV like batteries, displays, electronics, etc.</p> <p>→Related ERs: integrated probe head designs combining different signal acquisition techniques; signal multiplexing strategies; XY and XYZ scanning protocols for fast large area mapping, mechanical integration strategies for easy adaptation of sensing stations to manufacturing lines; sensor calibration standards; safety protocols for safe sensor operation. (D2.1, D2.2, D2.3)</p>
	<p>KER 3 “Artificial Intelligence decision-making”: Decision-making protocols based on AI for early prediction of defect formation at the earliest possible production stages that will suggest possible corrective actions for process re-optimization. Besides their application to PV, this will be applicable to other of complex solid-state technologies like batteries, displays, electronics, etc.</p> <p>→Related ERs: protocols for AI training; spectroscopic, imaging and optoelectronic data conditioning; protocols for big data feed into AI algorithms; self-learning AI algorithms tailored for target variable prediction based on spectroscopic, imaging and optoelectronic data; AI algorithms for sensor self-calibration; database structure for AI; data management algorithms; software for interaction with AI; protocols for AI performance validation. (D3.1, D3.2)</p>
	<p>KER 4 “Holistic manufacturing control platform”: Holistic manufacturing control platform that will be highly flexible and customizable thanks to a modular design based on advanced sensor stations interconnected and controlled through a AI-driven control unit for in-line process monitoring. Besides PV, the platform will be application to in-line monitoring and control of complex solid state devices manufacturing processes like those employed in other technologies such as batteries, displays, electronics, etc.</p> <p>→Related ERs: list of critical industrial requirements for process monitoring implementation; big data infrastructure for process monitoring; control unit architecture for process monitoring platform; DB architecture for data storage and extraction; GUI software for platform control; big data visualization protocols; communication network for platform elements interconnection. (D5.1, D5.2)</p>

Table 4 presents the main messages to be conveyed to main stakeholder groups in relation with each KER.

Table 4. DEC main messages in relation with each KER and per stakeholder group

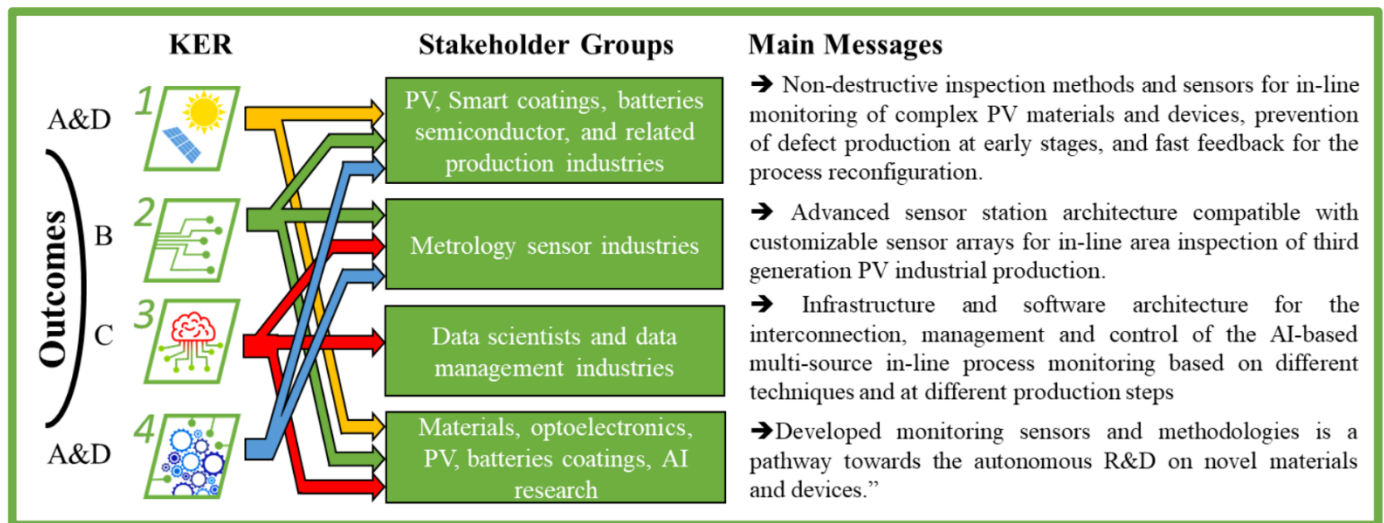


Table 5 below complements the above picture and presents from a wider project perspective the main expectations of each stakeholder group that will be targeted and impacted by Platform-ZERO.

Table 5. Platform-ZERO stakeholders' groups

Target groups	Strategic D&C objectives and expectations
PV manufacturing industry	<ul style="list-style-type: none"> Integrate their vision and challenges in the context of WP1, WP5 and WP6 to make sure that Platform-ZERO solutions will fit their business Provide them evidence that by adopting Platform-ZERO innovations, their market share and profitability will increase (WP7), while simultaneously reducing the costs of their products
Metrology sensor industries	<ul style="list-style-type: none"> Integrate their vision and challenges in the context of WP2 to make sure Platform-ZERO solutions will fit their business
Data scientists and data management industries	<ul style="list-style-type: none"> Integrate their vision and challenges in the context of WP3 and WP4 to make sure Platform-ZERO solutions will fit their business
Materials, optoelectronics, batteries, coatings, and AI industries	<ul style="list-style-type: none"> Integrate their vision and challenges in the context of WP5 and WP6 to make sure Platform-ZERO solutions will fit their business
General public (e.g. citizens) and end-users	<ul style="list-style-type: none"> Raise awareness about the project overall goal (all WPs) and explain how it will contribute to tackle key societal challenges
Investors	<ul style="list-style-type: none"> Provide them evidence that it would be possible to earn returns on their investment (WP7) by supporting Platform-ZERO solutions
Scientific community, research institutions and researchers	<ul style="list-style-type: none"> Benchmark our Platform-ZERO approach with potential prior related-research, to make sure we are aligned with the state of the art in the field. Provide them evidence that Platform-ZERO innovations can improve the productivity of PV products
Relevant other research and innovation (R&I) projects (In particular those funded under the EFFRA partnership)	<ul style="list-style-type: none"> Incorporate their results and lessons learnt in the context of relevant Platform-ZERO technical WPs Align findings and join forces to address common R&I challenges (All technical WPs) Organise joint dissemination and communication activities (WP7) when relevant to reach a wider impact
Standardisation organisations and working groups	<ul style="list-style-type: none"> Gather details on ongoing standardisation activities that can influence Platform-ZERO R&I activities Present key outcomes from Platform-ZERO that are relevant to influence existing standards and/or create new standards.
European commission, policy makers	<ul style="list-style-type: none"> Get support for widespread dissemination of Platform-ZERO (e.g. through European Commission official channels for the most important project achievements)

	<ul style="list-style-type: none"> Present key outcomes from Platform-ZERO that are relevant to influence EU and national policies
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7 D&C channels and KPIs

Various D&C channels will be activated depending on the content to be promoted and targets to be addressed. Key channels are summarised in Table 6 below, in connection with Key Performance Indicators (KPIs). Targets associated to KPIs will be monitored to evaluate the performance of D&C activities: the internal D&C tracker is used for this purpose (see chapter 10), and our progress will be reported accordingly in deliverables D7.2 and D7.3.

Table 6. D&C Channels and KPIs

KPI	Stage 1. target M1-M12	Stage 2. target M13-M36	Stage 3. target M37-M48	Cumulative target
Public website				
N° of views	500	5000	4500	10000
Social media posts (posted both on Twitter and LinkedIn)				
N° of posts	5	25	20	50
Peer-reviewed papers (T7.1)				
N° of papers	-	2	10	12
Clustering workshops with sister R&I project (T7.3)				
N° of workshops	-	1	1	2
National and international press releases (T7.1)				
N° of press releases	1	2	2	5
Presentations of scientific research at conferences (T7.1)				
N° of presentations	1	8	6	15
Industrial fairs (T7.1)				
N° of attendance	-	5	5	10
Training for industry and SMEs (T7.2)				
N° of trainings	-	4	3	7

8 D&C multipliers

When implementing D&C activities, Platform-ZERO partners will exploit as much as possible D&C multipliers presented in Table 7 (platforms, clusters, associations to which they are members) in order to achieve a widespread dissemination of project results. For instance:






- we will tag the relevant multipliers in our social media posts;
- we will ask relevant multipliers to include information about our achievements in their own newsletter circulated to their members;

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- we will ask relevant multipliers to endorse and/or further promote some of our D&C activities to attract a larger audience, etc.

The list below has been compiled collaboratively by the Platform-ZERO project partners: it is a mix of entities that are active both at global, European, national and local scale. Additional multipliers might be considered during the implementation of the project.

Table 7. D&C multipliers

Network, group, stakeholder	Geographical target	Connection to the consortium	Relevance for Platform-ZERO
	European Materials Characterisation Council (EMCC)	International, Europe	IREC has been in touch through earlier R&I activities
	European Materials Modelling Council (EMMC)	International, Europe	AIT is a member
	European Technology Platform for Advanced Engineering Materials and Technologies (EuMaT)	International, Europe	IREC has been in touch through earlier R&I activities
	NAMEC / EU PV Cluster	International, Europe	IREC has been in touch through earlier R&I activities
	Energy Materials Industrial Research Initiative (EMIRI)	International, Europe	IREC and HZB are members

	European Energy Research Alliance Joint Programme Photovoltaic (EERA JP PV)	International, Europe	IREC, ZSW and AIT are members.	The EERA PV JP is of relevance to support dissemination of Platform-ZERO outcomes since it aims to catalyse European energy research in Photovoltaics to support a climate-neutral society by 2050.
	The European Perovskite Initiative (EPKI)	International, Europe	AIT, HZB, ZSW and Saule Technologies are members.	EPKI aims to raise the awareness on perovskite-based photovoltaics by conveying a common vision through the editing of a common European perovskite whitepaper; to support and initiate next generation PV industrial initiatives; and to facilitate joint-research programs and synergies among universities, institutes and companies. This initiative can help us to involve the perovskite manufacturing stakeholders' value chain to validation our approach and solutions.
	Thin-film PV technology coalition (PVthin)	International, Global	Saule Technologies is a member.	PVthin aims to strengthen global energy security and help create sustainable energy infrastructures by promoting the social, economic and environmental benefits of thin-film solar photovoltaic technologies. This platform can help us to involve the thin-film manufacturing industry to validate our approach and solutions.
	European Industrial Research Management Association (EIRMA)	International, Europe	Saule Technologies is a member.	EIRMA ultimate goal is to make European R&D the leader in generating solutions to the economical, societal and business sustainability challenges of the future. The association can help to raise awareness about Platform-ZERO objectives.
	Silesian Space Valley: Space Technologies Cluster	Local, Poland, Silesia	Saule Technologies is a member.	This local alliance aims to increase and combine the technological, scientific and educational potential of entrepreneurs from the space technology industry. Platform-ZERO breakthrough innovations can be relevant for dissemination to alliance members.
	UN Global Network Poland (UNGCP)	International, Poland	Saule Technologies is a member.	UN Global Compact is the world's largest sustainable business initiative. This network can help to promote Platform-ZERO outcomes at national-scale in Poland.
	The Association of European Renewable Energy Research Centers (EUREC)	International, Europe, Belgium	AIT and ZSW are members.	EUREC is the voice of renewable energy research in Europe, representing European Research Centres active in renewable energy.
	Solar Power Europe	International, Europe	AIT and ZSW are members.	SolarPower Europe mission is to ensure solar becomes Europe's leading energy source by 2030. SolarPower Europe can help making link between policymakers and Platform-ZERO outcomes.



	Secartys industrial cluster	Spain	IREC is part of the Steering Committee (Solartys).	A relevant cluster to disseminate Platform-ZERO outcomes to Spanish stakeholders. The cluster has a specific working group on solar energy.
	SusChem	Spain	Lurederra is a member.	SusChem is the European Technology Platform for Sustainable Chemistry. Its " Advanced Materials for Energy production and storage " working group has a particular relevance for Platform-ZERO.
	NanoSpain	Spain	Lurederra is a member.	NanoSpain, Spanish Nanotechnology Network, promotes the exchange of knowledge between Spanish groups working in different fields related to Nanotechnology and Nanoscience increasing collaboration among universities, research institutions and industry.
	Materplat	Spain	Lurederra is a member	Materplat is the Advanced Materials and Nanomaterials Spanish Technological Platform. Its " Energy Innovation group " is of particular relevance to disseminate Platform-ZERO R&I activities.
	NanoFutures	International, Europe	Lurederra is a member	NANO futures environment is an ETIP European Technology Integrating and Innovation Platform, multi-sectorial, cross-ETP, integrating platform with the objective of connecting and establishing cooperation and representation of Technology Platforms that require nanotechnologies in their industrial sector and products.
	Cluster Energy Efficiency Catalonia (CEEC)	Spain	IREC is part of the Steering Committee.	CEEC is an excellent network to promote Platform-ZERO to Catalunya stakeholders interested by innovations related to energy-efficiency.
	Plataforma Tecnológica Española de CO2 (PTEC02)	Spain	IREC is a member	Spanish CO2 technology platform which can be relevant to connect with Spanish R&D organisations and industry interested in CO2 reduction innovations.
	InnoEnergy	Europe, Spain	IREC is a member.	EIT InnoEnergy brings people and resources together, catalysing and accelerating the energy transition. New ideas, products and solutions that make a real difference, and new businesses and people to deliver them to market. The platform can help disseminate Platform-ZERO outcomes, and it is also useful to potentially hire researchers to work on our project.
	FVEE : ForschungsVerbund Erneuerbare Energien	Germany	ZSW is a member.	The German Renewable Energy Research Association forms a nationwide cooperation structure of institutes researching and developing technologies for renewables, energy



				efficiency, energy storage and optimized technical and socio-economic interaction of all system components.
	Capenergies	France	R2M Solution France is a member	Capenergies is a cluster of industrial stakeholders located in the southeast of France. It has several members actively involved in the PV industry, which might be early adopters of Platform-ZERO solutions.
	CleanTech Cluster	Austria (Upper Austria)	RISC may use it as a platform for disseminating results	The Cleantech Cluster is the platform for environmental technology and energy technology companies in Upper Austria.
	World Green Building Council (World GBC)	Global, Europe, Italy, Spain and France	R2M is member of the Italian and Spanish GBCs. R2M France partners with the EU network of GBCs in another Horizon Europe project.	The GBCs gather stakeholders from various spheres including manufacturers of sustainable building materials and components. Many of its members are active in the BIPV sector, which is one of the targets of Platform-ZERO.
	Spreentech Ventures	Italy	R2M is a shareholder	Spreentech Ventures recruits and supports innovative startups offering products and/or services in four areas of interest: Construction 4.0; Green Building, Tech & Mobility; Smart City & Smart Building; Circular Economy & ESG Impact. This network can help to connect Platform-ZERO innovations with investors.
	European Factories of the Future Research Association (EFFRA)	International, Europe, Belgium	Platform-ZERO is a project funded under the “Made in Europe” partnership run by EFFRA. AIT is a member.	Platform-ZERO will necessarily be very closely connected to EFFRA through the various joint D&C activities conducted in the context of the “Made in Europe” partnership.
	European Construction Technology Platform (ECTP)	International, Europe, Belgium	R2M Solution and AIT are members.	ECTP is focused on R&I for the built environment. It is a relevant EU platform to address the R&I stakeholders active in the field of BIPV.
	IEEE Women in Engineering	International, Europe	AIT member is chair of the Austrian section	IEEE Women in Engineering (WIE) is one of the largest international professional organizations dedicated to promoting women engineers and scientists and inspiring girls around the world to follow their academic interests to a career in engineering.
	EU Robotics Association	International, Europe	An AIT employee is an Austrian representative	euRobotics aisbl is a Brussels based international non-profit association for all stakeholders in European robotics. It was founded in September 2012 with the aim to strengthen Europe’s competitiveness and to ensure industrial leadership of manufacturers, providers and end-users of robotics technology-based systems and services. Particular relevance to disseminate KER2 of Platform-ZERO

	European Machine Vision Association (EMVA)	International, Europe	AIT is a member.	EMVA is a non-for-profit and non-commercial association representing the Machine Vision industry in Europe. It is relevant network to disseminate KER2 of Platform-ZERO.
	PLATAFORMA TECNOLÓGICA ESPAÑOLA (FOTOPLAT)	National (SPAIN)	Nanostructured Solar Cells Group (UPO) is member	The Spanish Photovoltaic Technology Platform (FOTOPLAT) is an initiative born in March 2011 by the Ministry of Economy and Competitiveness (MINECO) of Spain through the INNFLUYE program. FOTOPLAT aims to bring together in the same structure all the companies and institutions involved with the challenge of keeping Spain and Spanish companies at the forefront of research and industrialization of photovoltaic energy systems, seeking synergies between the different institutions and implementing coordinated strategies.
	4ZDM cluster	International, Europe	Platform-ZERO has been invited to be part of the cluster	The 4ZDM cluster is composed of completed and running European projects (FP7, H2020, Horizon Europe) that have come together to identify technical cross-cutting issues regarding zero-defect manufacturing such as: intelligent, autonomous, and self-adaptive systems for process monitoring, control and quality management; system approaches for monitoring and data processing of dimensional fluctuations; efficient simulation tools and methods to predict machining system behaviour.
	Cluster Renewable Energies Tirol	Regional Austria / (Italy)	Sunplugged is member	The renewable energy cluster of the region of Tyrol (comprising North Tyrol/Austria, South Tyrol/Italy) is composed of more than 85 innovative organisations (industry, SMEs, research) working in the field of photovoltaics, heat pumps, electric mobility and energy efficiency.
	Technologie Plattform Photovoltaik Austria	National (Austria)	Sunplugged is member	The Austrian Photovoltaics Platform is a joint initiative for Austrian manufacturing operations in the photovoltaics sector and all the relevant Austrian research institutes. The aim is to optimise innovation and research activities to benefit the Austrian photovoltaics sector.

9 Validation process for D&C activities

The following validation process needs to be followed by all project partners before a Platform-ZERO scientific publication goes external.

- Prior notice of any planned publication shall be given to the other Parties at least **30 calendar days** before the publication.

Any objection to the planned publication shall be made in accordance with the Grant Agreement by written notice to the coordinator and to the Party or Parties proposing the dissemination **within 20 calendar days after receipt of the notice**¹. If no objection is made within the time limit stated above, the publication is permitted.

- Regarding other dissemination and communication activities such as: poster presentations, slides and abstracts for oral presentations at workshops, conferences and summer schools the prior notice period shall be reduced to **15 calendar days**.

In this case, any objection to the planned dissemination shall be made in writing to the Project Coordinator, the dissemination manager and to the partner or partners proposing the dissemination **within 10 calendar days after receipt of the notice**. If no objection is made within the time limit stated above, the dissemination is permitted.

Any dissemination of results (in any form, including electronic) must:

- ✓ Display the European Union emblem available on the [EC website](#). The Consortium will preferably use the emblem with the Co-funded flag (see Figure 1 below), Platform-ZERO being a project funded at 60% for its for-profit partners.
- ✓ Include the following disclaimer:

‘Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or HADEA. Neither the European Union nor the granting authority can be held responsible for them.’



Figure 1. EU emblem

10 Detailed planning and recording of D&C activities

An online spreadsheet (see Figure 2) will be used for a detailed monitoring of both achieved and upcoming D&C activities:

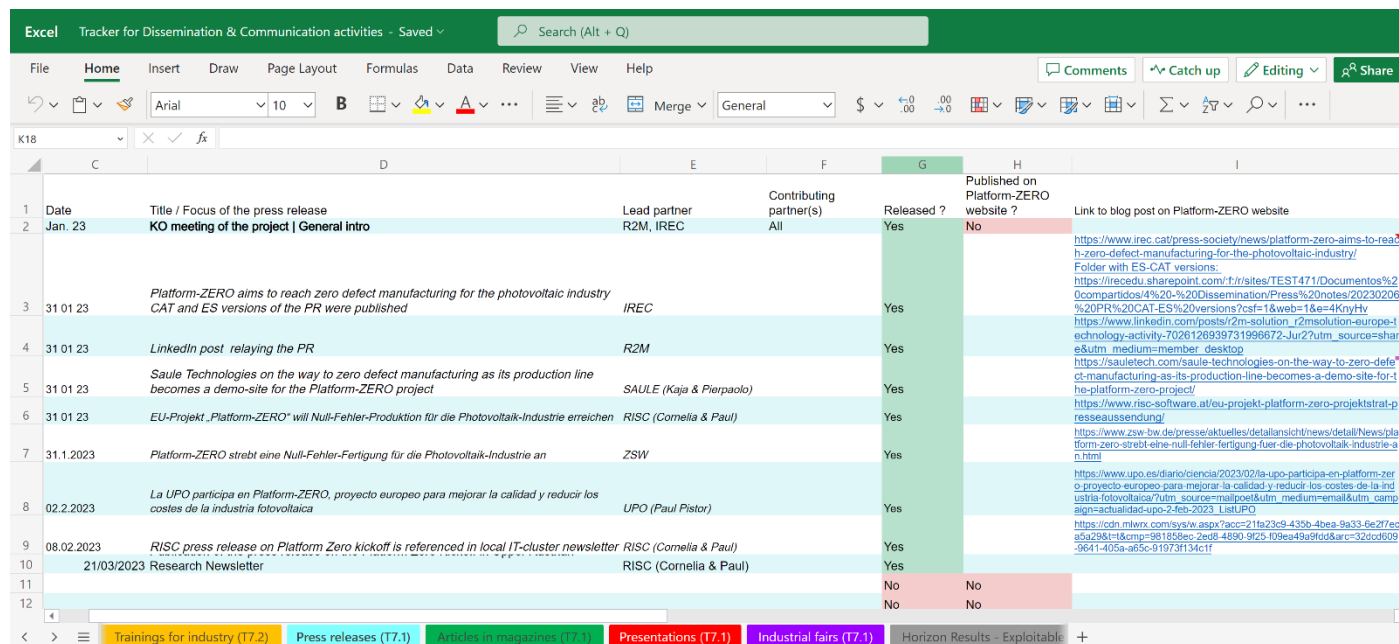
- **Past D&C activities:** the idea is to record “who did what” and capture the key feedback & impact of every action for our project. A blog post and social media posts will be published for each key achieved activity.
- **Upcoming activities:** a separate list of upcoming events was regularly updated so that future D&C actions can be anticipated.

¹ This value was wrongly defined as 30 days in D8.1 Project management handbook.

D7.1 - Dissemination and Communication strategy, roadmap and KPIs

The tracker for D&C activities is accessible through [this URL](#).

Various tabs (at the bottom of the Microsoft Excel Sheet) are used to structure the content and to monitor activities and the progress on dissemination of specific contents (e.g. upcoming conferences, peer-reviewed papers, clustering workshops, press release, etc.) according to the D&C channels highlighted in Chapter 7. Access to this spreadsheet is reserved to the Platform-ZERO project partners and updates are processed in a collaborative way.



Date	Title / Focus of the press release	Lead partner	Contributing partner(s)	Released ?	Published on Platform-ZERO website ?	Link to blog post on Platform-ZERO website
Jan. 23	KO meeting of the project General intro	R2M, IREC	All	Yes	No	https://www.irec.cat/press-society/news/platform-zero-aims-to-reach-zero-defect-manufacturing-for-the-photovoltaic-industry/
31 01 23	Platform-ZERO aims to reach zero defect manufacturing for the photovoltaic industry CAT and ES versions of the PR were published	IREC		Yes		https://www.irec.cat/press-society/news/platform-zero-aims-to-reach-zero-defect-manufacturing-for-the-photovoltaic-industry/
31 01 23	LinkedIn post relaying the PR	R2M		Yes		https://www.linkedin.com/posts/r2m-solution_r2msolution-europe-t-technology-activity-7026126939731996672-Jur27utm_source=shareutm_medium=member_desktop
31 01 23	Saulle Technologies on the way to zero defect manufacturing as its production line becomes a demo-site for the Platform-ZERO project	SAULE (Kaja & Pierpaolo)		Yes		https://sauletech.com/saule-technologies-on-the-way-to-zero-defect-manufacturing-as-its-production-line-becomes-a-demo-site-for-the-platform-zero-project/
31 01 23	EU-Projekt „Platform-ZERO“ will Null-Fehler-Produktion für die Photovoltaik-Industrie erreichen	RISC (Cornelia & Paul)		Yes		https://www.risc-software.at/eu-projekt-platform-zero-projekt-at-pr-resaueausendung/
31.1.2023	Platform-ZERO strebt eine Null-Fehler-Fertigung für die Photovoltaik-Industrie an	ZSW		Yes		https://www.zsw-bw.de/presse/aktuelles/detailansicht/news/detail/news/platform-zero-strebt-eine-null-fehler-fertigung-fuer-die-photovoltaik-industrie-an.html
02.2.2023	La UPO participa en Platform-ZERO, proyecto europeo para mejorar la calidad y reducir los costes de la industria fotovoltaica	UPO (Paul Pistor)		Yes		https://www.upo.es/diario/ciencia/2023/02/la-upo-participa-en-platform-zero-proyecto-europeo-para-mejorar-la-calidad-y-reducir-los-costes-de-la-industria-fotovoltaica/7utm_source=mailpoet&utm_medium=email&utm_campaign=actualidad-upo-2-feb-2023_LaUPO
08.02.2023	RISC press release on Platform Zero kickoff is referenced in local IT-cluster newsletter	RISC (Cornelia & Paul)		Yes		https://cdn.mtwn.com/sy/n.aspx?acc=21ba23c9-435b-4bea-9a33-6e27eca5a29&trk=cmpr=981858ec-2ed8-4890-9f25-f09ea49a9f0d&arc=320d009-9641-405a-a65c-91973f134c1f
21/03/2023	Research Newsletter	RISC (Cornelia & Paul)		Yes		
				No	No	
				No	No	


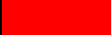



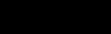
Figure 2. Screenshot of Platform-ZERO D&C activities monitoring shared online spreadsheet

11 D&C toolkit

During the first five months of the project, R2M has developed the D&C toolkit which will support the implementation of D&C activities implemented by all Platform-ZERO project partners. The toolkit includes:

- **The Platform-ZERO colour palette:** In order to give a recognizable visual identity to the project, a Platform-ZERO colour palette was defined (see Table 8). Each colour is associated to a different feature of the project associated, in turn, to a different objective of the project. This colour palette is employed in the visual dissemination elements of the D&C toolkit.

Table 8. Platform-ZERO colour palette.

Colour	Hex code	Project feature (objective)
	#92D050	Development of advanced sensor stations (S&T Objective 1)
	#FF0000	AI system for autonomous monitoring and control (S&T Objective 2)
	#F07E22	Implementation of a big data management infrastructure and a control system (S&T Objective 3)
	#E7E6E6	Implementation and installation of functional process monitoring platforms (S&T Objective 4)
	#00B0F0	PV manufacturing optimization (S&T Objective 5)
	#000000	Transversal colour of the project



- **The Platform-ZERO pictograms:** Together with a specific colour, each feature/objective of the project pictograms has an associated pictogram that depicts the main idea behind them (see Table 9). These pictograms help understanding the project in a direct and visual way and are employed in the visual dissemination elements of the D&C toolkit, including the project logo. Coloured and white vector format versions were developed by R2M for a proper visualisation on large format items such as posters.

Table 9. Platform-ZERO pictograms.

Pictogram (white and coloured)		Project feature (objective)
		Development of advanced sensor stations (S&T Objective 1)
		AI system for autonomous monitoring and control (S&T Objective 2)
		Implementation of a big data management infrastructure and a control system (S&T Objective 3)
		Implementation and installation of functional process monitoring platforms (S&T Objective 4)
		PV manufacturing optimization (S&T Objective 5)

- **The Platform-ZERO logo:** the logo from the initial project proposal was kept. Vector format versions were developed by R2M for a proper visualisation on large format items such as posters, in various variants (colours, black, edge, and white versions, see Figure 3).

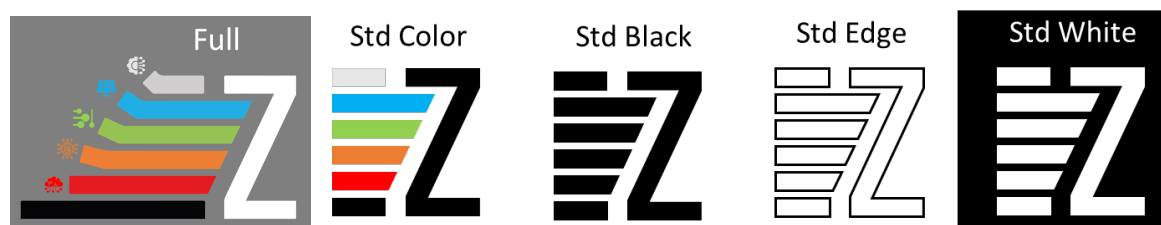


Figure 3. Platform-ZERO logo in various vector format versions

- **The Platform-ZERO social media accounts:** the official social media accounts have been created on both [LinkedIn](#) and [Twitter](#) (see Figure 4). They follow the official channels of all Platform-ZERO project partners. R2M will ensure the moderation of both accounts. Platform-ZERO partners can contact R2M when they want to post news through the project channels. Furthermore, they are encouraged to share news posted on the project's channels through their own institutional accounts, in order to reach a wider impact.

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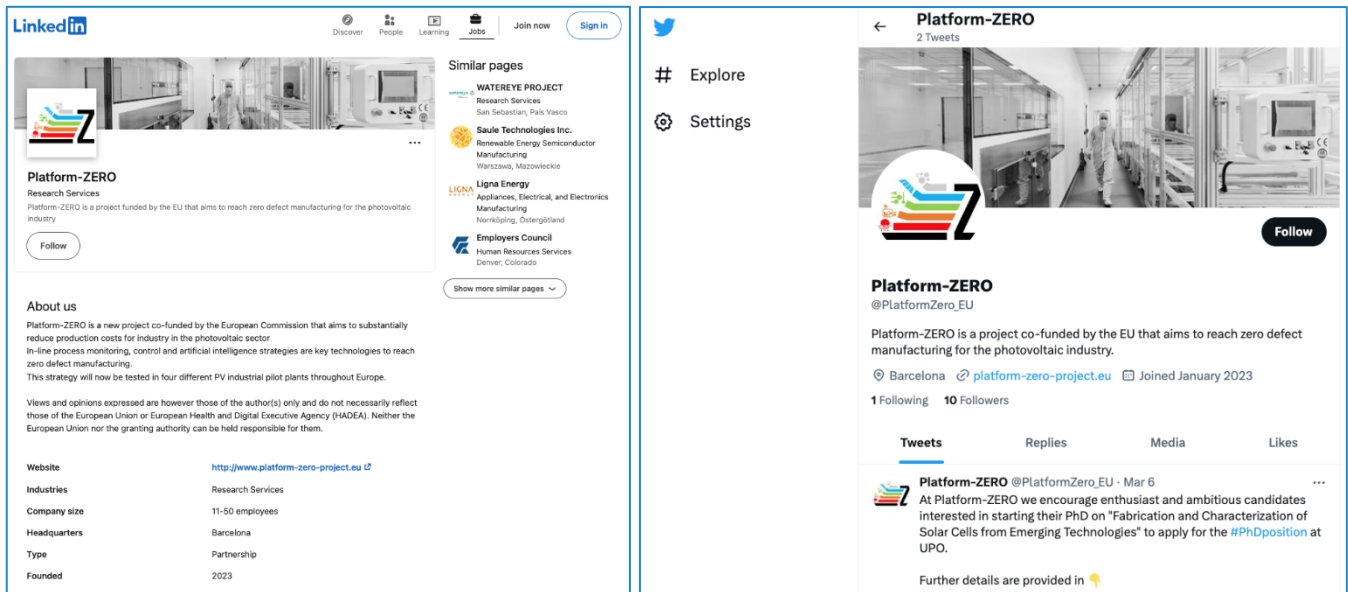


Figure 4. Platform-ZERO LinkedIn and Twitter social media channels

- **The Platform-ZERO roll-up poster & leaflet:** a project roll-up poster and leaflet (see Figure 5) have been developed to raise awareness about the project, for instance in events and industrial fairs. Additional versions and potential translations of these materials will be further developed during the project according to the needs.



Figure 5. Platform-ZERO Roll-up poster and project leaflet

- **The Platform-ZERO project standard presentation:** this presentation (see Figure 6) consists in a standard slide deck which presents the project partners, the overall context, an overview of the project objectives, its timeline, expected outcomes, KPIs and funding acknowledgment. Platform-ZERO project partners are invited to tailor this presentation (i.e., to add, amend or potentially remove slides) depending on the audience to be addressed in D&C activities.

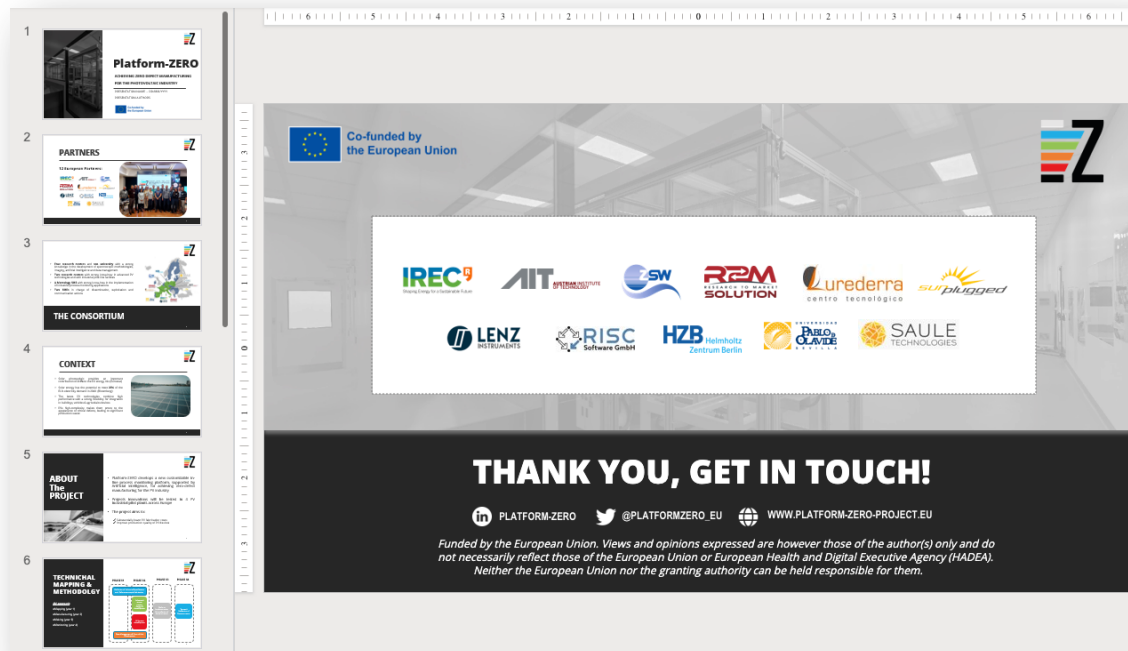


Figure 6. Platform-ZERO standard project presentation

- **Platform-ZERO social media standard banners:** a set of social media banners (see Figure 7) have been developed. The aim is to use these banners as much as possible to create the visuals of social media posts, in order to maintain a coherent and homogeneous visual identity.

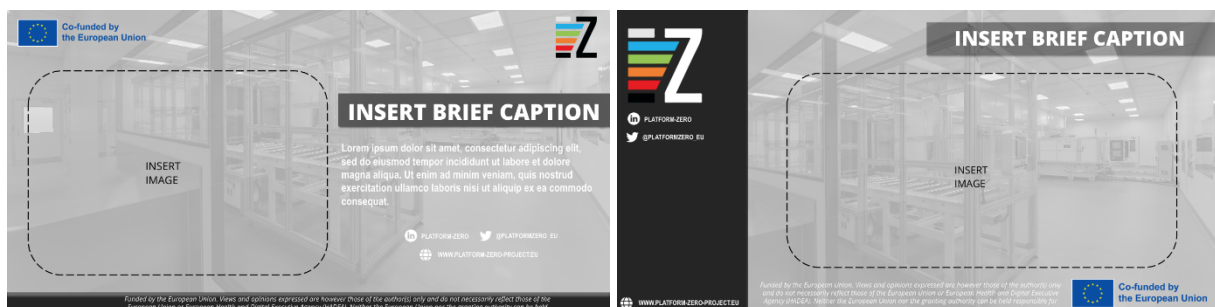


Figure 7. Platform-ZERO standard project presentation

- **Platform-ZERO project website:** the project website (see Figure 8) is available at <http://www.platform-zero-project.eu/> and has been developed with WordPress, tailored with an Astra template, and hosted on a server managed by R2M. At the time of submitting this report, a first version of the website is available online and includes:
 - a *Landing page* which provides an overview of the project;
 - An *About page* which provides details about the project objectives and innovations;
 - a *News page* which will be fed regularly with blog posts to reflect the progress of R&I activities (each news will be replicated on the project social media accounts);

D7.1 - Dissemination and Communication strategy, roadmap and KPIs

- a *Demonstrators page* to present the four PV manufacturing lines where Platform-ZERO innovations will be tested;
- a *Partners page* to present the project beneficiaries and their role;
- a *Resources page* where public deliverables and other key public outcomes will be incrementally uploaded;
- A *Contact us* page with direct access to the contact details of the coordination team and to the dissemination manager.

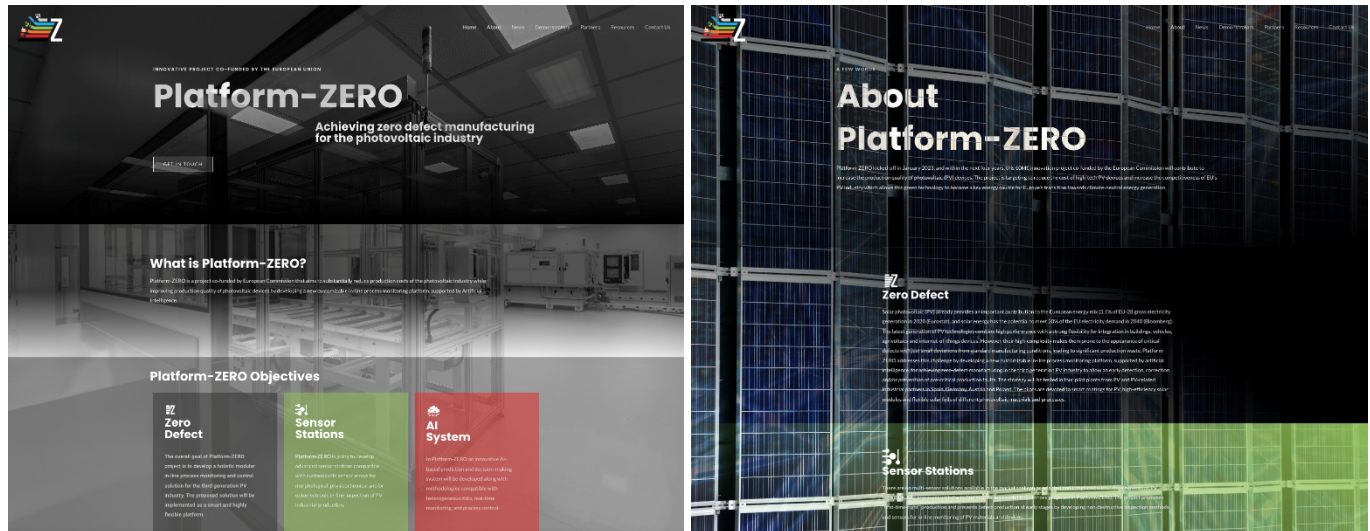


Figure 8. Platform-ZERO project website: 'Home' and 'About' pages







12 Upcoming D&C activities for the first 12 months

Table 10 below presents some of the foreseen activities already planned (or achieved) by project partners for the first year of the project (M1 to M12) at the time of writing this report (M5).

Table 10. D&C activities foreseen by project partners for the first year of the project

 <p>Shaping Energy for a Sustainable Future</p>	<ul style="list-style-type: none"> • 26 Sept. 23: Manufacturing Partnership Day, Brussels, organised by EFFRA: Platform-ZERO will have an exhibition booth and deliver a 10-15' presentation. • Submission of a peer-reviewed paper in the Journal of Open Source Software entitled “<i>pudu: A generalized and agnostic Python library for explainability of Machine Learning classification and regression problems.</i>”
 <p>AUTRIAN INSTITUTE OF TECHNOLOGY</p>	<ul style="list-style-type: none"> • 13-14 June 23: Intersolar Europe Conference, Munich: AIT will have a company booth at the event and will distribute Platform-ZERO project leaflets to raise awareness about the project.
	<ul style="list-style-type: none"> • 13-14 June 23: Intersolar Europe Conference, Munich: ZSW will have a company booth at the event and will distribute Platform-ZERO project leaflets to raise awareness about the project.
 <p>RESEARCH TO MARKET SOLUTION</p>	<ul style="list-style-type: none"> • 14-16 June 23: Sustainable Places 2023, Madrid, organised by R2M: Platform-ZERO project roll-up poster will be displayed and projects leaflets will be distributed at the event. It will also be presented in a paper session entitled “Industry 4.0”.
 <p>centro tecnológico</p>	<ul style="list-style-type: none"> • 7 June 23. SUNRISE stakeholders’ workshop, Copenhagen. Energy stakeholders will attend.



	<ul style="list-style-type: none"> • Sunplugged will promote the Platform Zero results within one of the quarterly member meetings of the Cluster Renewable Energies Tirol (see chapter 8) • Sunplugged will promote the Platform Zero results within one of the thematic meetings as well in the next annual member meeting of the Technologie Plattform Photovoltaik Austria (see chapter 8)
	<ul style="list-style-type: none"> • Lenz will publish a news release on its project website to detail its involvement in the Platform-Zero project, and presenting the overall objectives of the Project.
	<ul style="list-style-type: none"> • Online article for local newspaper in autumn 2023 • 20-21 June 2023. Distribution of Flyers: VNL Österreichischer Logistiktag • 23 May 2023. Presentation at “Data preprocessing and quality”– Workshop at the University of Applied Sciences Hagenberg.
	<ul style="list-style-type: none"> • 17 June 23, Poster presentation and distribution of leaflets at HZB exhibition of “Berlin Long Night of Science”.
	<ul style="list-style-type: none"> • 2 February 23, Newsletter in the Journal of UPO (DUPO) about the Platform Zero project: https://www.upo.es/diario/ciencia/2023/02/la-upo-participa-en-platform-zero-proyecto-europeo-para-mejorar-la-calidad-y-reducir-los-costes-de-la-industria-fotovoltaica/ • 10-12 May 23, participation of the Nanostructured Solar Cells Group in the Science Fair of Seville (https://feriadelaciencia.org), Seville.
	<ul style="list-style-type: none"> • 19.04.2023. Podcast recording about the Platform ZERO activities and Saule contribution at the National Contact Point of the National Centre for Research and Development (Poland) - airing date tbd

13 Conclusions

This report presented the overall Dissemination & Communication strategy of the Platform-ZERO project. This strategy will be implemented during the whole project lifetime. This version of the report also details foreseen D&C activities over the first year of the project. This report will be further updated twice during the project (D7.2 at M18, and D7.3 at M48) to report on the progress toward achieving the KPIs final targets presented in Section 7 of the report.