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This project has received findings from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 792245. The sole responsibility for the content of this material lies with the authors. It does not necessarily reflect the opinion of the European Union. Neither INEA nor the European Commission are responsible for any use that may be made of the information contained therein.

Cost reduction and enhanced performance of PV systems





Development of superior quality PV systems, based on a **hybrid** combination of technological innovations and business operation solutions, aiming to accelerate large scale deployment in Europe and help EU photovoltaic business to regain leadership on world market.



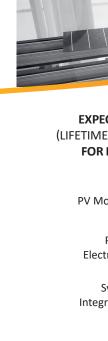
Integration of innovations (multifunctional nanocoating, in-laminate bypass diode, advanced encapsulation for flexible PV modules and bifacial panels improvement) into state of the art PV module technologies.



Enhancing PV power electronics durability and efficiency by deploying technological advancements in module level power electronics and fault-tolerant converter topologies.



Innovative digital platform for Photovoltaic Information Management (PIM) based on Building Information Management (BIM) tools, ensuring integrated information flow through the PV value chain.

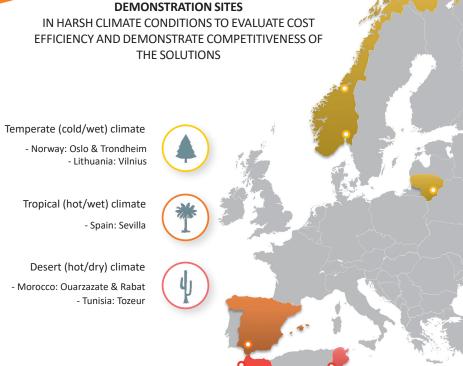


Data Management

Manufacturing

EXPECTED REDUCTION OF LCOE (LIFETIME COSTS/ENERGY PRODUCTION) FOR PROPOSED INNOVATIONS PV Modules Electronics System Integration, 0&M 12 - 18 9 Internet of Things (IoT)

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DISSEMINATION OF RESULTS, **TRAINING** AND **BUSINESS CASES** DEVELOPMENT

- Dissemination of scientific and commercial innovations developed and their associated benefits, facilitating market uptake.
 - Practice oriented education, training and knowledge exchange carried out in the demonstration facilities.
- Viability study of realistic use scenarios for proposed PV systems to support the business development.