



@testareproject

Twinning for excellence in TEsting new generation PV: Long-term STAbility and field REliability



Newsletter #1, August 2024

Dear Readers,

It is our pleasure to welcome you to the 1st edition of the TESTARE Newsletter! TESTARE is an ambitious project implemented by a network of 4 partner laboratories spanning across 4 countries, namely Cyprus, Belgium, Germany, and Israel. In this 1st edition we would like to introduce our project to the community and to highlight overall project achievements and activities that took place in the first year of our project.

If you would like to keep up to date with all the latest developments and our next steps in TESTARE you can also follow us on the project [website](#) and on social media ([FB](#), [LinkedIn](#), [X](#)).



Kind Regards,
Dr. Maria Hadjipanayi (Project Coordinator),
on behalf of the TESTARE Consortium



Ben-Gurion University
of the Negev



Funded by
the European Union



Coordinated by:

University
of Cyprus



About TESTARE

TESTARE is a Horizon Europe project that aims to primarily stimulate excellence at the University of Cyprus (UCY) in the topic of new-generation PV technologies, from the perspective of long-term stability and field reliability testing. In particular, the project aims to improve the research and innovation (R&I) capabilities of the DegradationLab, a new research strategic unit of the UCY which focuses on the study of degradation and failures of new and emerging solar PV devices. To this end, UCY will link effectively with internationally leading research institutions, namely Interuniversity Microelectronics Centre (imec) in Belgium, Fraunhofer Institute for Solar Energy Systems (Fraunhofer) in Germany, and Ben-Gurion University of the Negev (BGU) in Israel. Essentially the project targets to improve the R&I output of the DegradationLab in the defined domain, boost its success rate in research funding bids, enhance its reputation and visibility, develop long-term ties with the advanced partners, strengthen links with industry and with (Middle East and North Africa) MENA countries, as well as contribute to enhancing research management and administration capabilities at UCY towards making more sustainable its overall research ecosystem. To achieve these targets joint activities between the twinning partners are foreseen including researcher exchanges, trainings, infrastructure sharing, a joint exploratory research project, PhD schools, webinars, networking, etc. TESTARE started on 01/01/2023 and is running for three years.

Duration: 3 years

Budget: €1.499.996

4 Partner Labs

Objectives

- To enhance the quality of and increase the R&I output of the DegradationLab by strengthening its capabilities in human resources and advanced PV metrology.
- To strengthen the reputation and networking capabilities of DegradationLab by introducing it to key players allowing for the participation in scientific consortia for high-quality R&I proposals and projects.
- To boost success rate in funding in the field submitted by the DegradationLab.
- To have long-term ties and infrastructure-sharing between partners.
- To contribute to bridging the academia-industry gap through building local and global links with businesses / industry.
- To strengthen links to MENA countries.
- To strengthen research management and administrative skills of UCY.

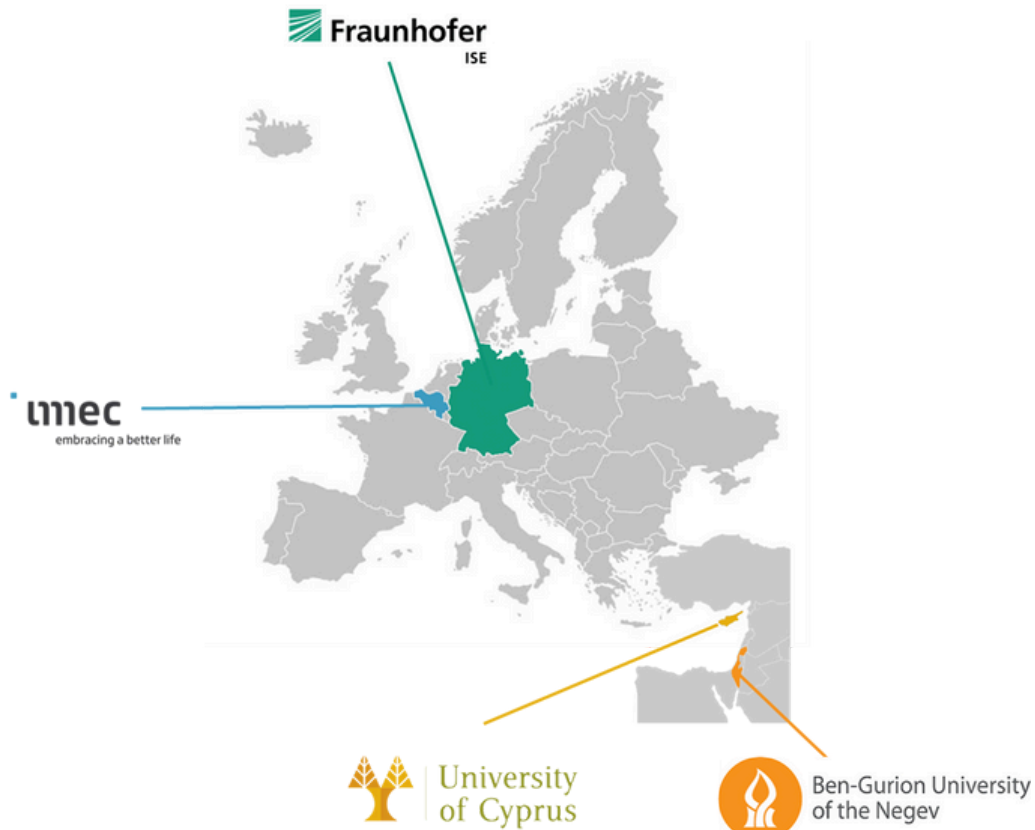
Overall, the aim will be to achieve all the above through gaining new scientific knowledge in perovskite PV particularly on testing and aging novel perovskite/silicon PV modules, developing appropriate indoor and outdoor measurement protocols, and addressing critical issues regarding their long-term stability and field diagnostics.



TESTARE

Project Consortium

The project consortium comprises of four partners, working towards the goals of TESTARE project. The University of Cyprus (coordinator) is joined by three advanced partners from Europe and Israel (imec, Fraunhofer ISE and BGU), with the objective to enhance the capabilities of the DegradationLab team of UCY. An additional objective of TESTARE is to build an inclusive research environment, where gender and overall diversity is prevalent.



Project collaborations

Through the TESTARE networking initiatives, we are part of a strong network of EU funded projects that focus on Perovskite technology. Learn more about them below and subscribe to their newsletter.





TESTARE

Past activities - Where you may have seen us

More information on our project website and social media pages.

01 January 2023: Project TESTARE launched.



02 February 2023: Twin2Expand working group for research management skills



27 - 31 March 2023: TESTARE Introductory Visits at imec, Fraunhofer ISE and BGU



27 - 28 April 2023: The "Researchers at School" Programme in the context of the research project CONNECT



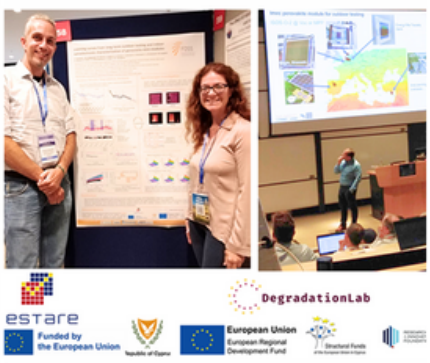
27 June 2023: The 1st Cypriot PV Workshop, a Joint Event of the "DegradationLab" and "TESTARE" Projects!



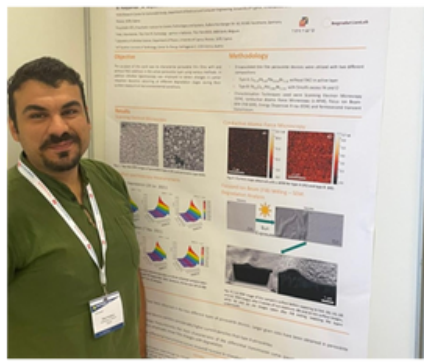
28 June 2023: Training on "Strategies for highly efficient and stable perovskite photovoltaics" by IMEC at UCY



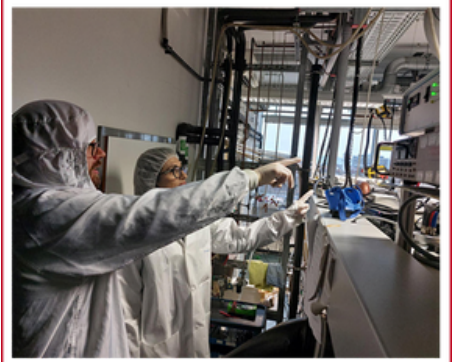
18 - 20 September 2023: The 6th International Conference on Perovskite Solar Cells and Optoelectronics (PSCO-2023)



18 - 22 September 2023: Elias Peraticos Presented the DegradationLab team's work on Perovskite Photovoltaics at the 40th EU PVSEC 2023



28 - 29 November 2023: Towards accurate and reliable IV and spatially-resolved EL/PL measurements of perovskite mini-modules



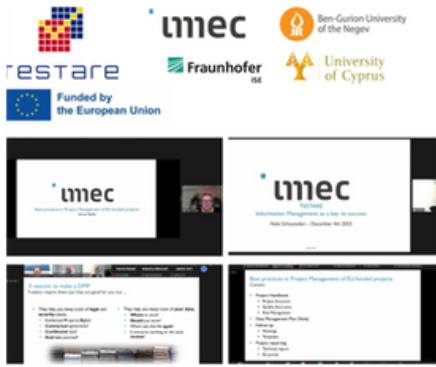


TESTARE

Past activities - Where you may have seen us

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4 December 2023: The second TESTARE research-management webinar delivered by imec



November - December 2023: Training on the fabrication of perovskite solar cells and mini-modules at the Thin Film PV Lab at EnergyVille, IMEC



13 December 2023: The first TESTARE Scientific Webinar delved into the immense potential of perovskite tandem structures



23 January 2024: TWIN4MERIT Twinning Project R&I Stakeholders Meeting at UCY!



01 December 2023: New Project by the DegradationLab team: TRANSMIT- Semi-transparent micro-stripped thin-film photovoltaics for energy-harvesting windows.



04 - 08 March 2024: TESTARE project at MATSUS24: Symposium #COMPER24



15 - 17 April 2024: DIAMOND – TESTARE PhD School on Perovskite PV



27 - 28 June 2024: Participation in the workshop 'Emerging solar energy materials and applications' organized by CRTEN (Tunisia), as part of the Tunisian-German research project EXPECT.





TESTARE

Upcoming activities

The TESTARE team is constantly looking for opportunities to disseminate their research and strengthen their network. Find us at the following events:

- September 2024, 41st European Photovoltaic Solar Energy Conference and Exhibition ([EU PVSEC 2024](#)), Vienna, Austria - Perovskite Network Event: Current experiences in characterisation and indoor/outdoor testing of varied perovskite cells and mini-modules.
- October 2024, The 3rd International Conference on Energy Transition in the Mediterranean Area ([SyNERGY MED 2024](#)), Limassol, Cyprus.
- November 2024, TESTARE research management workshop, Nicosia, Cyprus (hybrid event) - Sharing good practices for EU project management.
- March 2025, Materials for Sustainable Development Conference ([MATSUS25](#)), Sevilla, Spain - Organization of symposium RECIPE: Reliability and Circularity of Perovskite-Based Photovoltaics.

Stay connected

If you are interested in learning more about the project or for potential collaborations,

visit our website:



testare.eu

follow us on social media:



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or get in touch via email.



hadjipanayi.maria@ucy.ac.cy



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