PILATUS **Project introduction**

Digitalised pilot lines for silicon PILATUS heterojunction tunnel interdigitated back contact solar cells and modules



European Commissions' Proposal Evaluation: 14/15 Starting date: 1st of November Project Duration: 36 months Coordination Team: Uniresearch (Official Coordinator) MB-Germany (Technical coordinator)

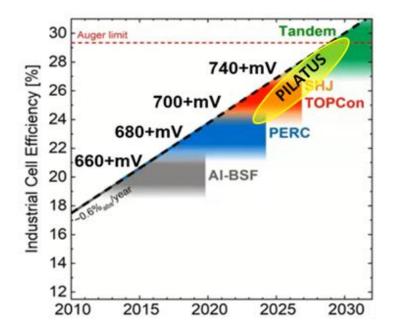
CSEM (Scientific coordinator)

Budget:

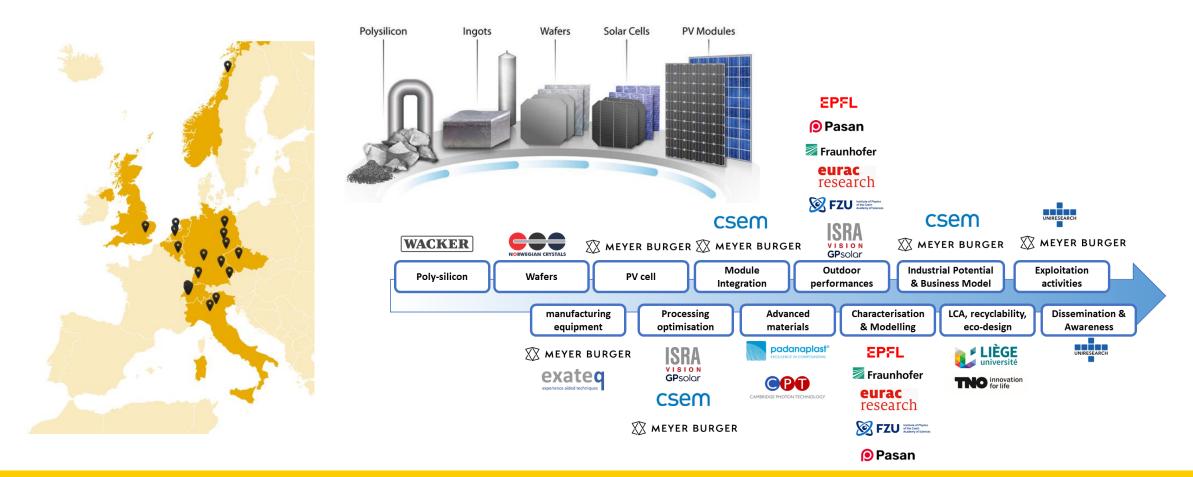
Total Funding :	17 999 435	
Funding from EU :	10 418 076	(58 %)
Funding from CH :	7 581 358	(42 %)

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The PILATUS project proposes to prove the scalability of unique technology (EU created and owned) for sustainable, cost-competitive, high-performance solar wafers, cells, and modules. PILATUS will provide energy security and the EU PV supply chain ("made in Europe" platform); not only for manufacturing but also for novel PV technologies through a program designed to maintain technical leadership and establish an innovation base.

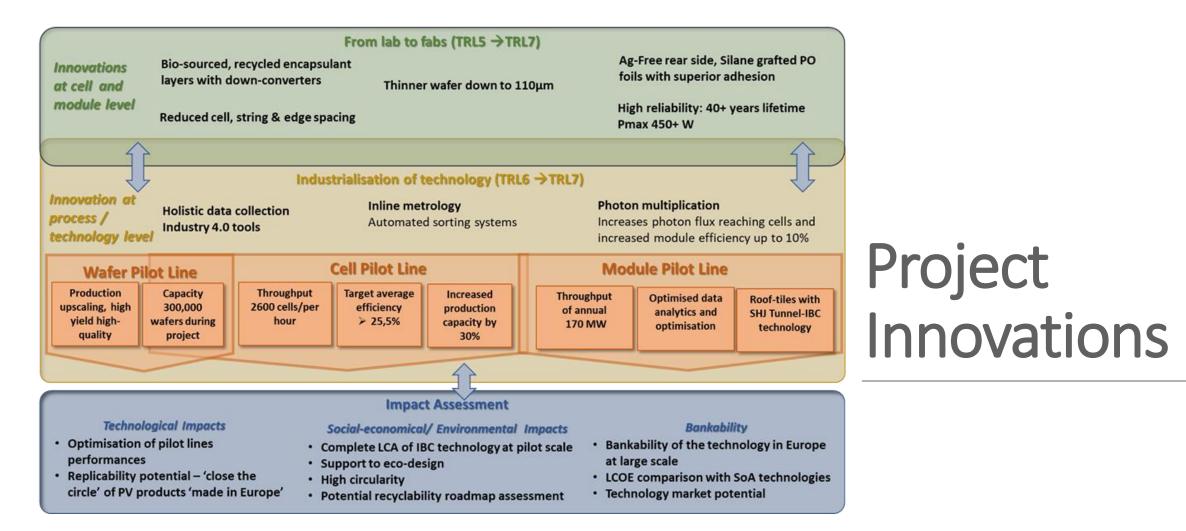


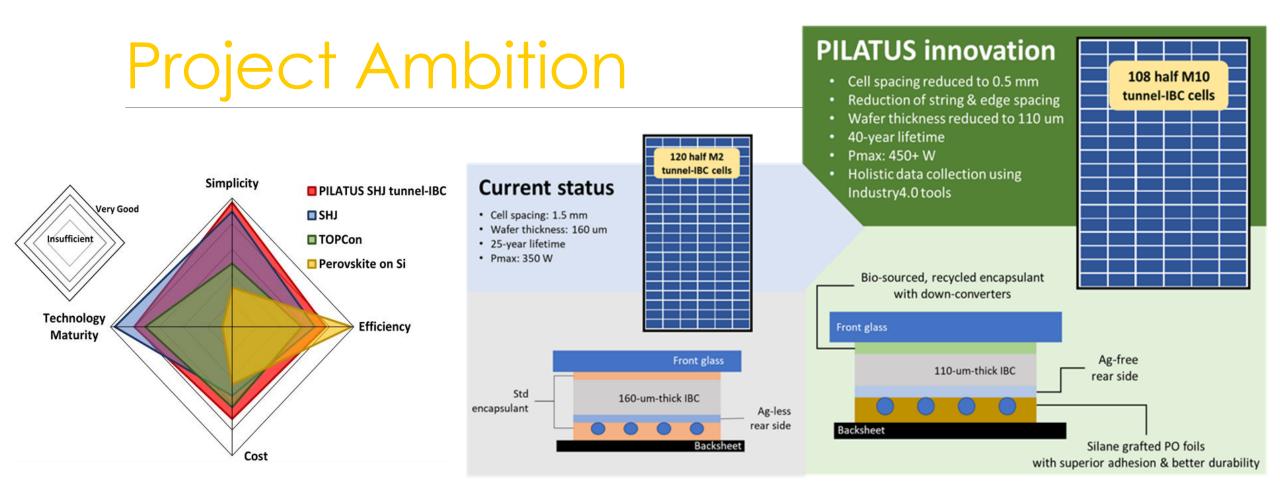
PILATUS Consortium covering the complete PV Value Chain



Project Objectives

- 1. Develop and demonstrate the high-volume production of highefficiency SHJ tunnel-IBC solar cells and modules in pilot-lines equipped with high-level automation.
- 2. Develop the industrial tools, processes and materials for the SHJ tunnel-IBC pilot lines thereby strengthening the European PV knowledge base and supply chain.
- 3. Demonstrate good traceability from wafer level to PV module's field installation combined with the automation and feedback loops to pilot lines.
- 4. Validate the performance of the PV cells and modules from the SHJ tunnel-IBC pilot lines
- Eco-design of tunnel-IBC PV modules and manufacturing lines toward zero-waste via life-cycle assessments and developing optimisation roadmaps
- 6. Document and pre-certify the PV cell and module performance to ensure replicability and further scalability of the production capacity.
- 7. Demonstrate favourable cost/Wp of the SHJ-IBC modules compared to state-of-the-art commercially available PV modules and proof the potential of business cases towards special product applications.



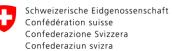


Disclaimer



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