



TASK 13 Workshop/Webinar **Characterisation of Photovoltaic Systems**

Marc Köntges, ISFH, Ulrike Jahn, FhG CSP

At Institute for Solar Energy Research Hamelin, Germany, 23rd Oct. 2025

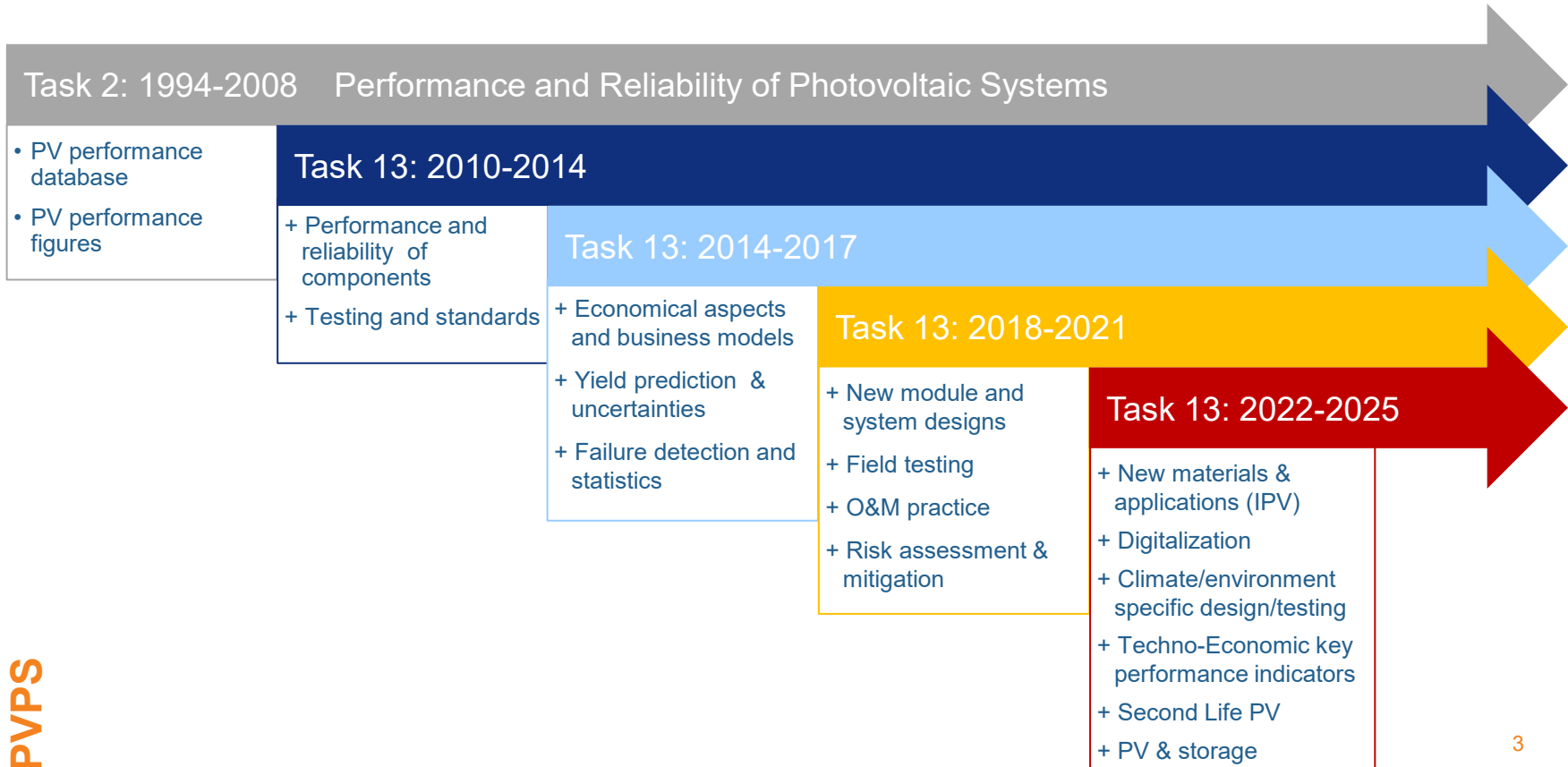
IEA PVPS in a nutshell



- One of 39 currently active Technology Collaboration Programmes within the IEA
- 32 years old – established in 1993
- 27 countries plus the European Commission and 2 Sponsors
- 9 active Tasks and 1 Action Group
- 34 reports published and 17 events organized in the past year
- ~400 participants across ExCo and all Tasks



Task 13 Collaboration - History and Presence



Why to we do this Workshop/Webinar?



- The TASK13 analyses Performance, Operation and Reliability of Photovoltaic Systems
- Recent report T13-30-2025 → showed that we have many degradation and failure modes which are not easy to characterise in the field
- In new action ST2.2 Failure Localization and Assessment in Photovoltaic Systems we aim to close this gap





Workshop on the Characterisation of Photovoltaic Systems

08:15	00:10	Welcome Task 13 Workshop on methods for PV system inspection	Marc Köntges and Ulrike Jahn
08:25	00:20	Failure in current PV systems and their relevance to find them	Marc Köntges, ISFH
08:45	00:20	Advances needed in PV park inspection	Ioannis Tsanakas, CEA INES (online)
09:05	00:20	Fault diagnosis in PV plants with monitoring data	Giosué Maugeri, RSE
09:25	00:10	Q&A	Ulrike Jahn, Fraunhofer CSP

9:35 00:20 *Coffee Break*

Second Workshop Session

09:55	00:20	Progress in autonomous drone electroluminescence inspection	Jan Schlipf, AEPVI
10:15	00:20	Find open circuited bypass diodes without changing electrical circuit	Michael Siebert, ISFH
10:35	00:20	Frame conditions for thermography inspections of photovoltaic plants	Sergiu Spataru, DTU
10:55	00:15	Q&A and closing of the Workshop	Marc Köntges, ISFH

11:10 00:20 *Coffee Break for discussion*

**We thank all Speakers
and you for your participation**





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