

- Research Institute for Solar Energy and New Energies -

Renewables R&D for a sustainable future

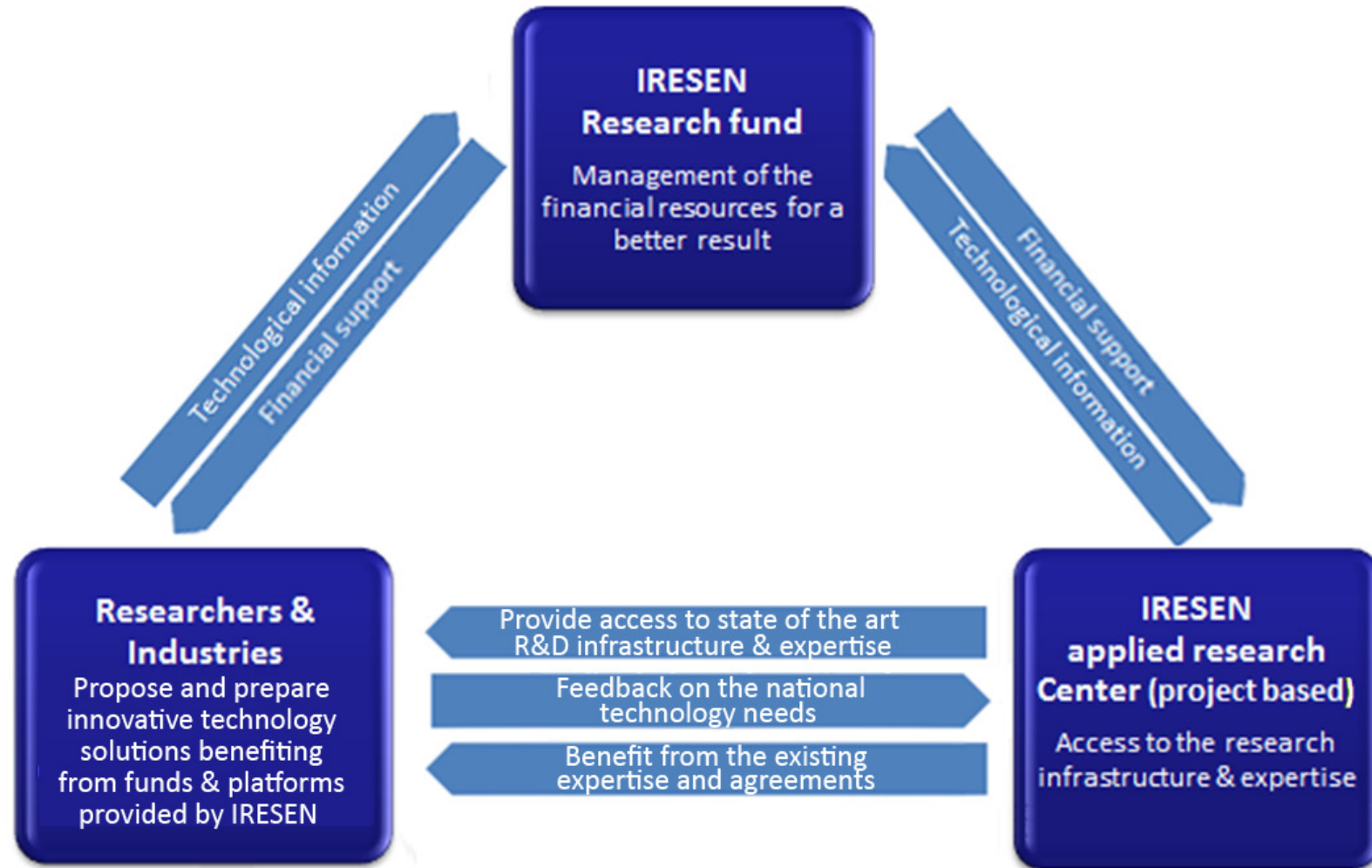
15. May 2012





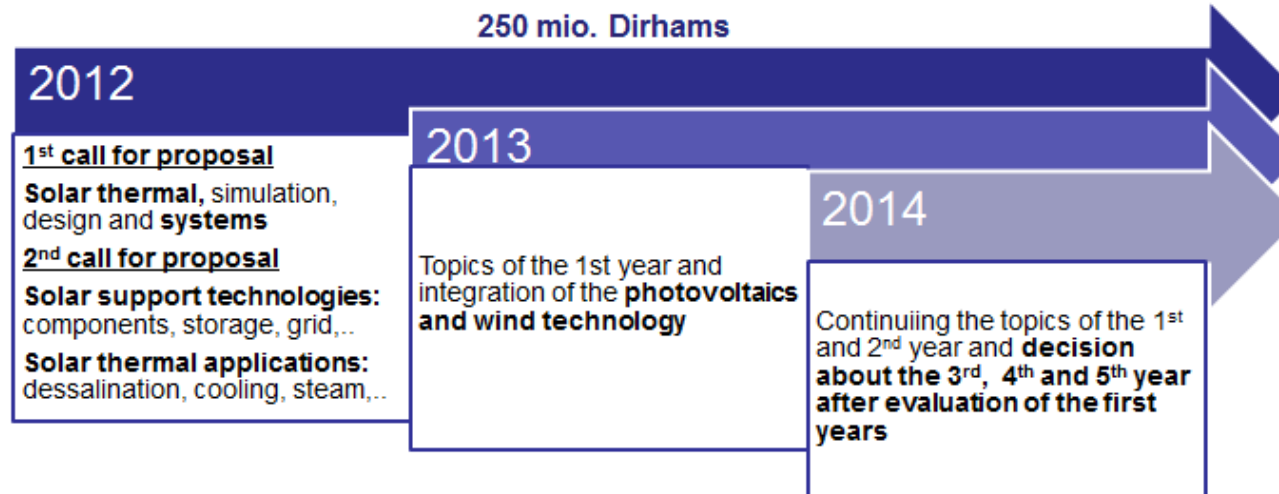
Conduct applied research in the field of solar energy and new energies for a faster technology transfer and a quick translation of the research results into innovative products.

- **Support the National energy strategy,**
- **Establish a conducive environment for innovation,**
- **Bridge the gap between universities' sphere and companies,**
- **Develop the know-how and expertise within IRESEN and its partners: Universities & companies.**



2012: Launch of two calls for proposals to promote renewables R&D InnoTherm I & II

Foreign research institutions and companies from the MENA Region are eligible under the framework of a consortium with Moroccan institutions (Univ. & Company)

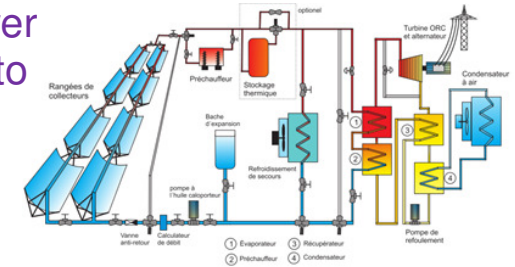


Implementation of a web portal dedicated to renewable technology dissemination and networking: www.energy-science.org



2012: 1 MWe Solar-Organic Rankine Cycle Demonstration Plant in Ben Guerir

- Develop, optimize and install a distributed, small scale and faster to deploy power generation kit (less than 10 MW) which harnesses the solar heat and feeds it into a robust, self contained and unmanned Organic Rankine Cycle with zero water requirement.
- The pilot plant will represent a platform offering the opportunity to work on a multitude of related research topics and will permit as well the development of local expertise in thermal solar systems engineering.



2012-2013: Lab for thin film cells

- Set-up a cluster tool facility for thin film cells.
- Develop expertise of the thin film technology in Morocco and especially in the field of silicon multiple junction cells.



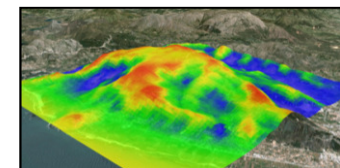
2012: PV technology platform

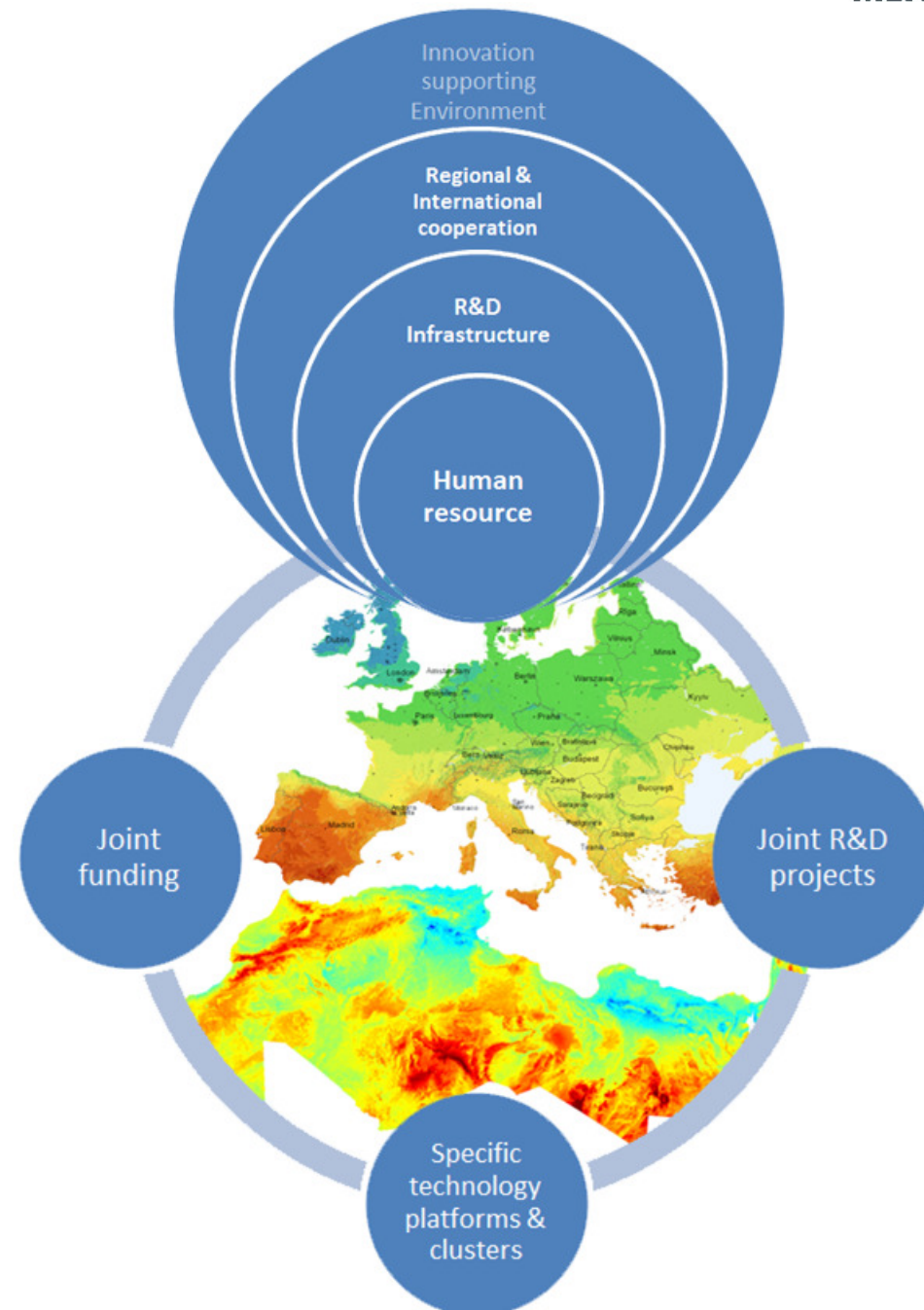
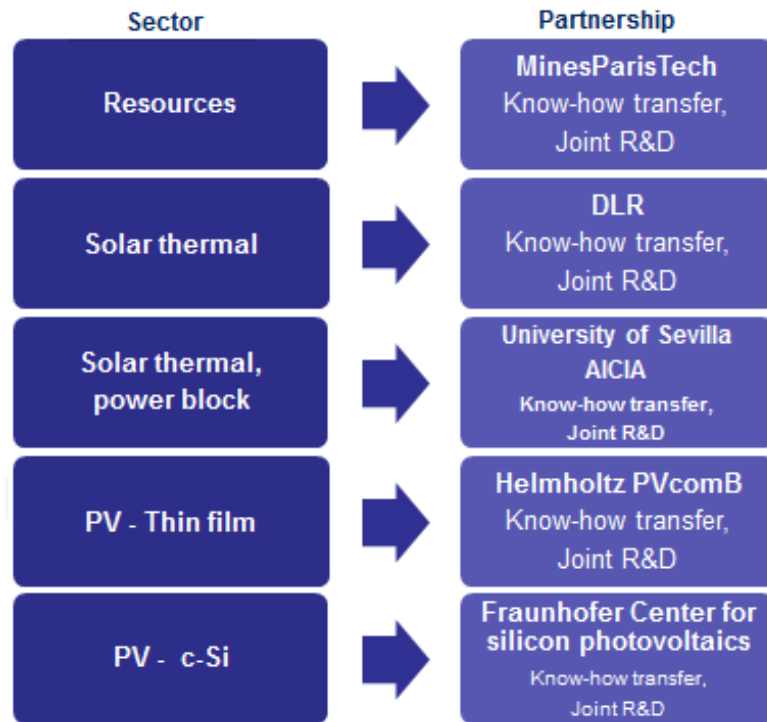
- Set-up a platform for PV technology outdoor testing with our partner Fraunhofer CSP.
- Install a multi-technology PV pilot plant (c-Si, a-Si/ μ -Si, CIGS, CdTe) that will serve to characterize the performance of the different existing PV technologies under Morocco specific climate conditions (high irradiation, extreme ambient temp, dust...)



2012: Development of a high resolution wind atlas method

- Develop a high resolution wind atlas method specifically designed for the Moroccan territory.
- Install a computation specific cluster-tool.





Thank you for your kind attention!

www.iresen.org

