



















Presentation Content



- 1. Motivation
- 2. Objectives
- 3. Vision and Training
- 4. Project Network



Key Features of:

- 1. Marie Skłodowska-**Curie Actions**
- 2. Innovative Training **Networks**

























Motivation











































AND PRODUCTION













16 PEACE, JUSTICE AND STRONG



PARTNERSHIPS FOR THE GOALS







Technical University



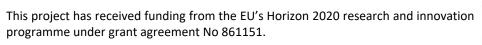








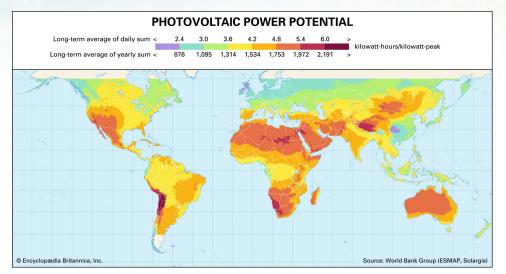








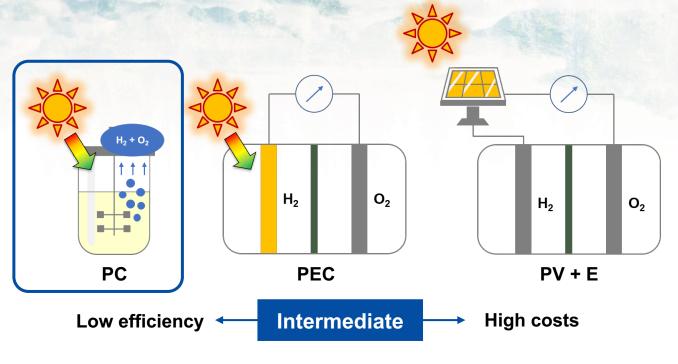
Motivation



Ashok, S.. "Solar energy". Encyclopedia Britannica, 2020

Depends on:

- (1) Solar energy capture/conversion
- (2) Solar energy storage



S. Chu, et al. Nano Futures, 2017, 1, 022001

Photocatalysis (PC)

- → RedOx catalysis
- → Organic transformations / degradation
- → Hydrogen production















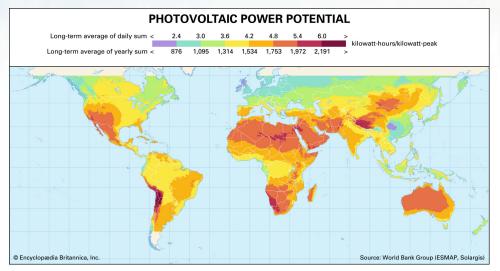








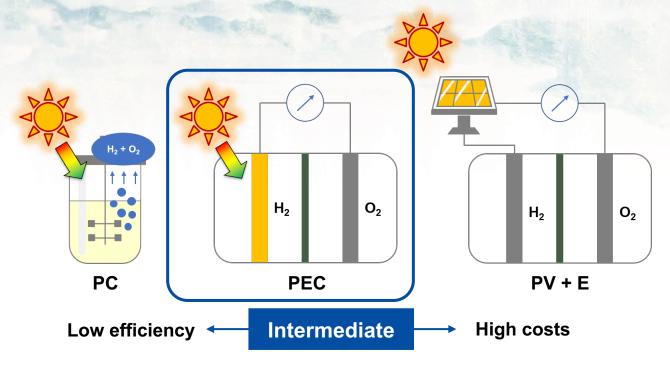
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Depends on:

- (1) Solar energy capture/conversion
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Photoelectrocatalysis (PEC)

- → Artificial photosynthesis, water splitting
- → Solar chemicals (methanol, ammonia, etc.)
- → Hydrogen production





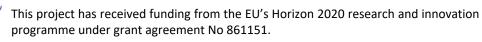
























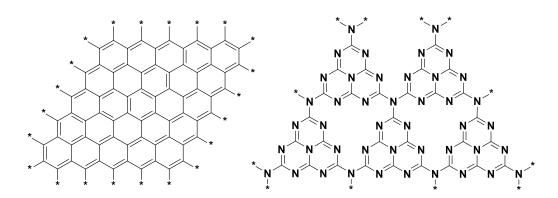
Objectives

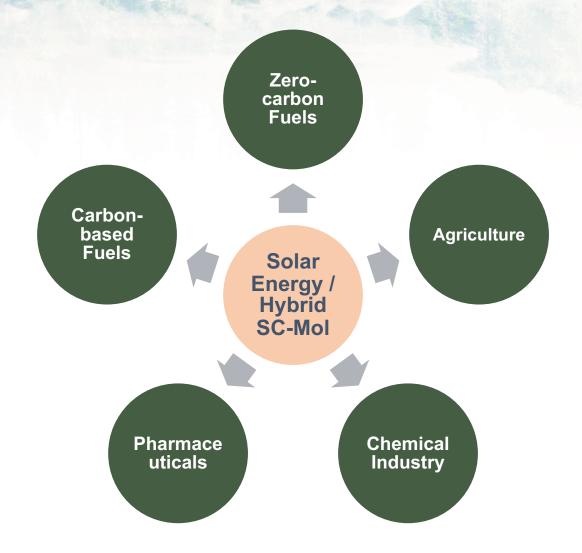
Objectives:

- Training 15 Early-stage Researchers (ESRs)
- Advancing knowledge on solar chemicals production
- Promoting solar chemicals within stakeholders

Semiconductors:

For example; Graphene-type materials as support



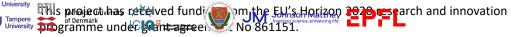


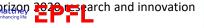






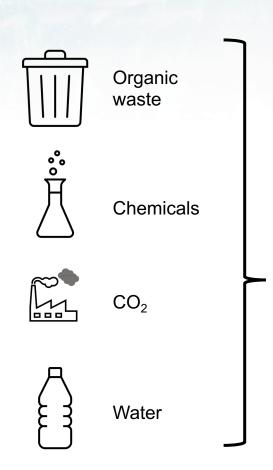


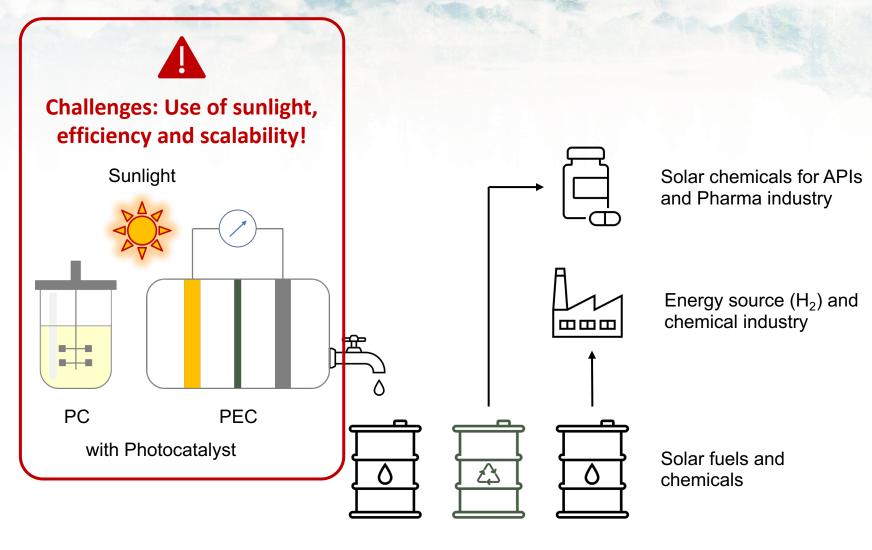






Objectives







Technical University







JM Johnson Matthey



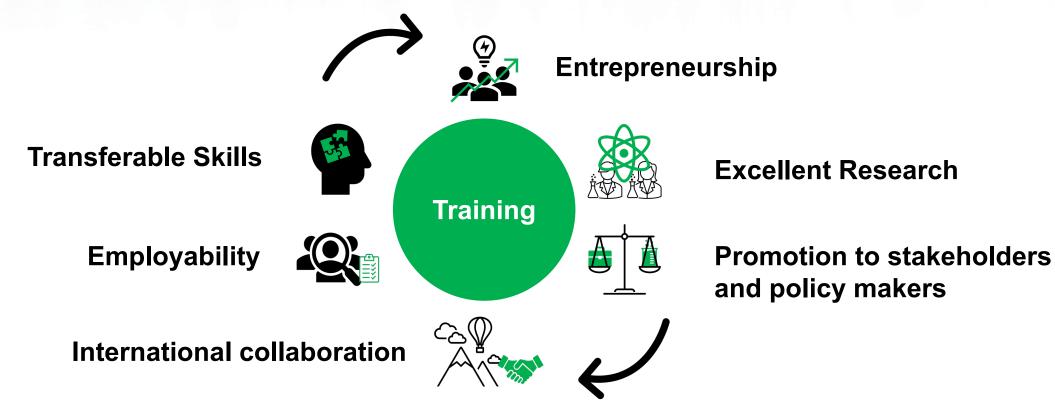






Vision and Training

Programme Vision: to deliver technical, interdisciplinary and transferrable skills training to 15 ESRs throughout all areas of the production of solar chemicals Supply Value Chain







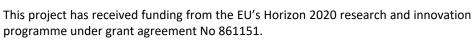








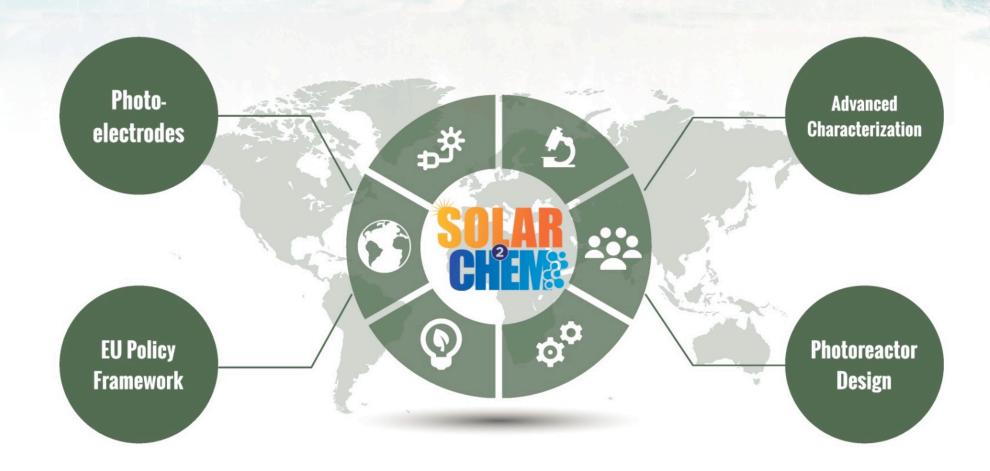








Project Network



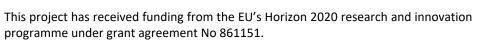
















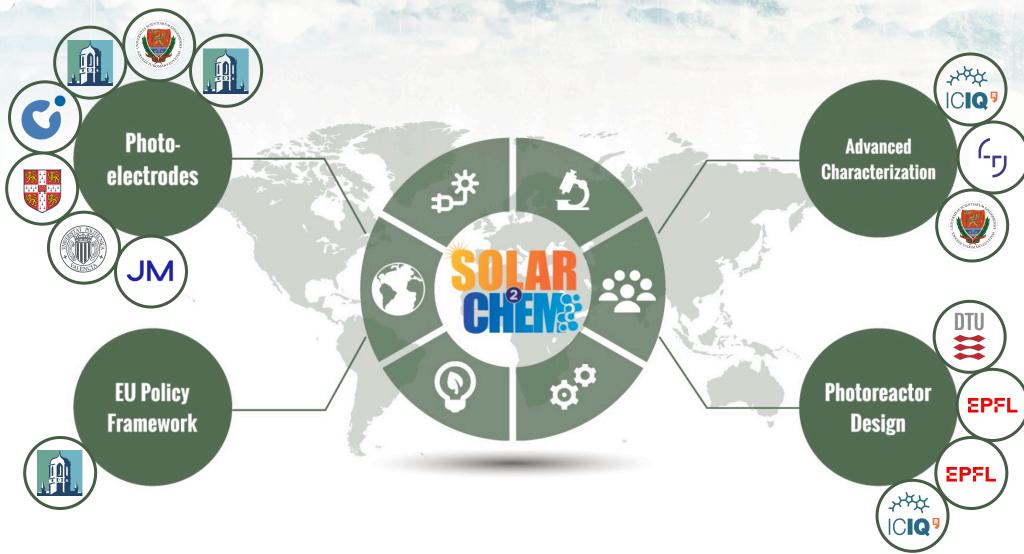








Project Network



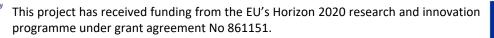
















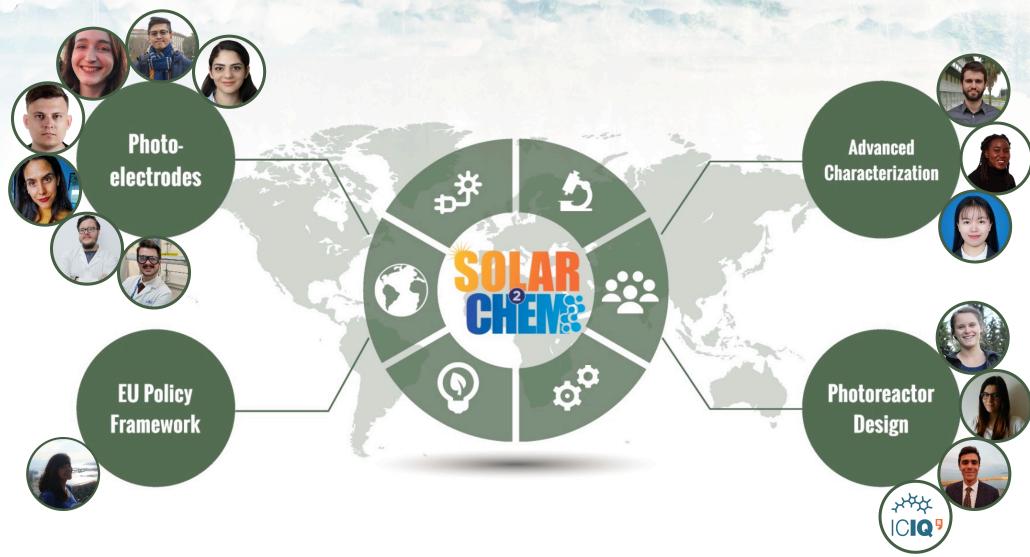








Project Network



















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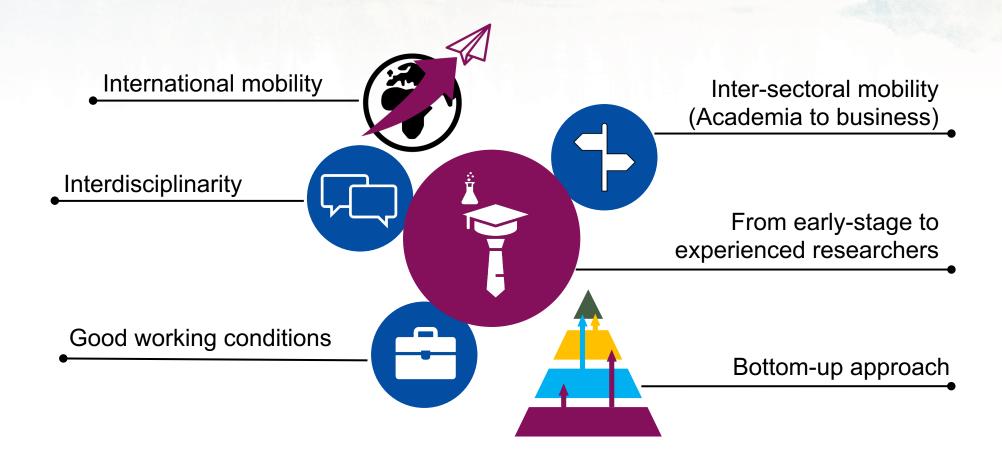






Marie Skłodowska-Curie Actions Features























Marie Skłodowska-Curie Actions

ITN

Innovative Training Networks



High-quality research training (doctoral level) delivered through international and interdisciplinary networks, industrial doctorates or joint doctorates.



RISE

Research and Innovation Staff Exchange

The exchange of staff members involved in research and innovation to develop sustainable collaborative projects.





Opportunities to work on personal research projects (post-doctoral) by moving between countries and possible sectors to acquire new skills.



COFUND

Co-Funding of Regional, National and **International Programmes**

Regional, national or international programmes to foster excellence in researchers' training, mobility and career development.







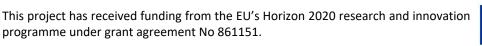
























Innovative Training Networks - ITN

Innovative Training Networks



High-quality research training (doctoral level) delivered through international and interdisciplinary networks, industrial doctorates or joint doctorates.

Who applies?

International networks of research organisations from academic and non-academic sectors.

Who is funded?

Early stage researchers (less than four years of full-time research experience and no doctoral degree).



Photocatalysis as a tool for synthetic organic chemistry



For the development of an artificial leaf





















Acknowledgments

ESR 1 – NUIG	Megan Smeaton	ESR 8 – EPFL	Francesca Lorenzutti
ESR 2 – NUIG	Maryam Toufani	ESR 9 – EPFL	Roberto Valenza
ESR 3 – UCAM	Carolina Pulignani	ESR 10 – TAU	Jokotadeola Odutola
ESR 4 – DTU	Kathrin Naumann	ESR 11 – SZTE	Xiangtian Chen
ESR 5 – MPICI	Alexey Galushchinskiy	ESR 12 – SZTE	John Mark Christian Dela Cruz
ESR 6 – UPV	Horatiu Szalad	ESR 13 – JM	Sebastiano Gadolini
ESR 7 – ICIQ	Pavle Nikacevic	ESR 14 - NUIG	Julia Terra Miranda



Dr. Pau Farràs **NUIG** ICIQ Prof. Núria López Dr. Brendan Flynn Prof. Erwin Reisner **Prof. Sophia Haussener UCAM EPFL Prof. Ib Chorkendorff** DTU TAU Prof. Nikolai Tkachenko **Dr. Peter Vesborg Prof. Markus Antonietti MPICI** SZTE Prof. Csaba Janáky **Dr. Aleksandr Savateev** Dr. Peter Ellis **UPV** JM **Prof. Hermenegildo Garcia Dr. Crina Corbos**









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Solar2Chem Project



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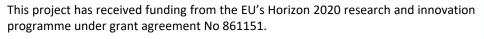




























Technical University of Denmark



CIQ 5 Institute of Chamical Research of Catalonia









