



MMAMA

Microwave Microscopy for Advanced and Efficient Materials Analysis and Production

General description

The MMAMA project aims to enable advanced material analysis and boost its quality and production efficiency thanks to the GHz measurement and modelling platform in a wide community.

MMAMA Objectives

Technological	 Improvement of SMM technology Nanoscale characterization platform for EU manufacturers of coatings, photovoltaic cells, and semi-conductor circuits
Economical	 Acceleration of the development of high efficiency cells Performances prediction at early stages
Sustainability	 Open innovation environment Standard Operating Procedures Electromagnetic 3D models

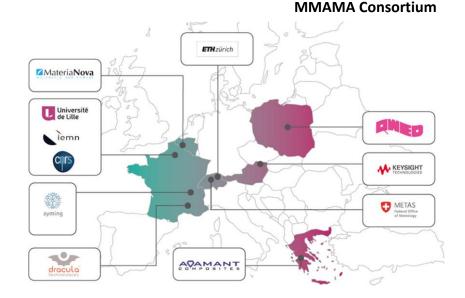
MMAMA Ambition

Beyond R&D and demonstration of SMM interest at production scale, MMAMA will notably allow standardization of practices and:

- allow off-line & lab characterization to generate data and application Database
- monitor and compare in-line pilot with application Database to optimize material

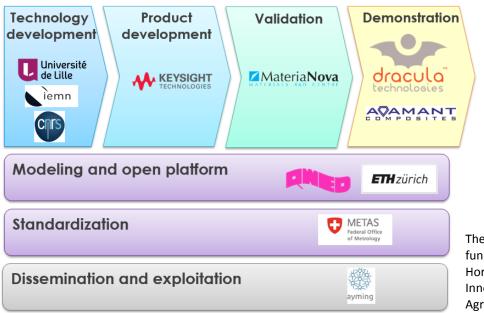
Main Outputs

MMAMA project results will first be exploited through dissemination to a selected community in the field to improve the application database. It will be the basis of new business opportunities for European industries in photovoltaic and composites sector.



Countries involved: Austria, Belgium, France, Greece, Poland , Switzerland. Duration : 01/11/2017 to 30/10/2020 Budget/EU Grant: 3 992 176.25€

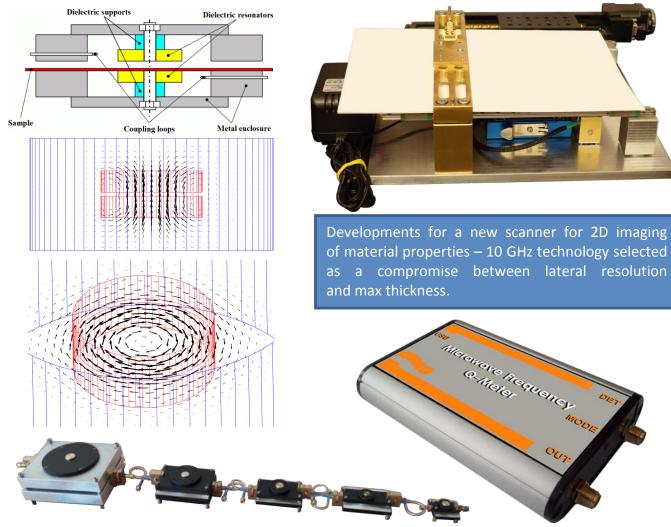
MMAMA Value Chain





The MMAMA project has received funding from the European Union's Horizon 2020 Research and Innovation program under Grant Agreement N°761036.

Current QWED activities



Adaptation of the dielectric resonator technology from laboratory environment to S2S inline industrial application.

New small portable 10 GHz Microwave Q-Meter with enhanced EMC characteristics.