



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

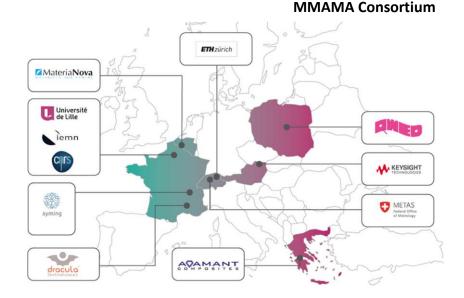
## **MMAMA** Ambition

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

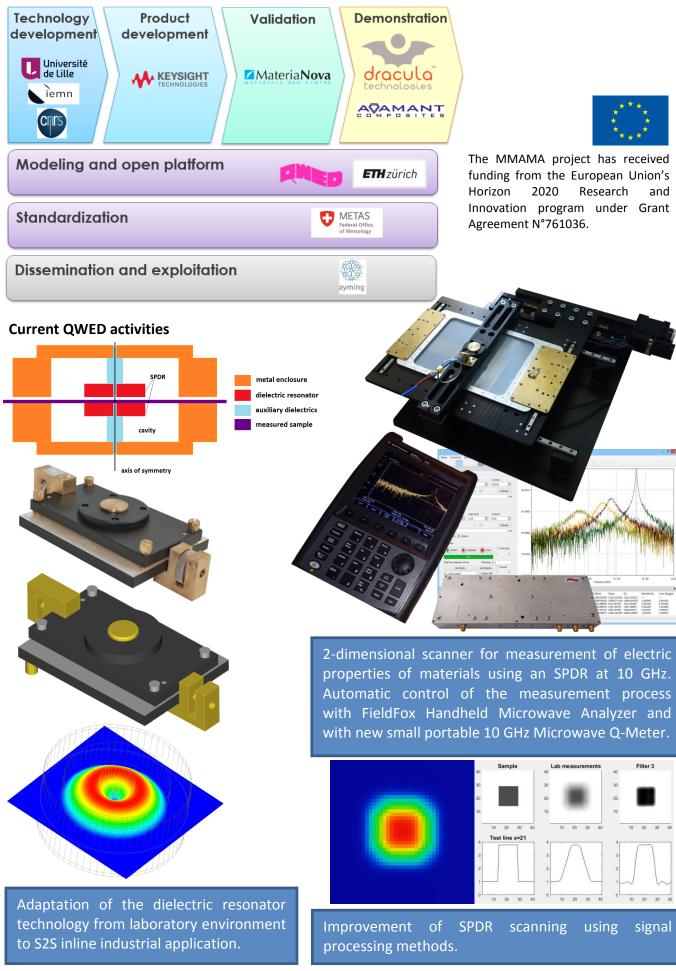
## Main Outputs

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**



QWED Sp. z o.o. ul. Krzywickiego 12 lok. 1 02-078 Warsaw Poland tel. +48 22 625 73 19 fax: +48 22 621 62 99 info@qwed.eu