

**MASS MANUFACTURE OF MEAs USING HIGH-SPEED DEPOSITION PROCESSES****Grant agreement no.: 779591****Start date:** 01.01.2018 – **Duration:** 36 months**Project Coordinator:** Technische Universität Chemnitz**DELIVERABLE REPORT****D7.1 – PROJECT WEBSITE**

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**DISSEMINATION LEVEL**

<b>PU</b>	Public	<b>X</b>
<b>PP</b>	Restricted to other programme participants (including the Commission Services)	
<b>RE</b>	Restricted to a group specified by the consortium (including the Commission Services)	
<b>CO</b>	Confidential, only for members of the consortium (including the Commission Services)	

**NATURE OF THE DELIVERABLE**

<b>R</b>	Report	
<b>P</b>	Prototype	
<b>D</b>	Demonstrator	
<b>O</b>	Other	<b>X</b>

**D7.1 – SUMMARY**

<b>Keywords</b>	Project website; dissemination
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<b>Full Abstract (Confidential)</b>	This deliverable presents the documentation of the MAMA-MEA project website.
<b>Publishable Abstract (If different from above) <i>For publication on website</i></b>	

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## D7.1 – PROJECT WEBSITE

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## 1. INTRODUCTION

The purpose of the WP7 – Dissemination and exploitation is:

- To act as contact point for interested third parties;
- To provide a brief project summary and project information
- To provide company profiles of each of the project partners and a link to their websites;
- To inform the public with the ongoing and completed research activities;
- To introduce the publications of the project for the general public

To support the project visibility and facilitate the communication both between partners and outside of the consortium, a web page has been set up under <https://www.mama-mea.eu>.

## 2. MAMA-MEA WEBSITE

The project website is a tool to communicate information about the MAMA-MEA project and will be used to reach the interested audience to inform them about project-related developments and activities. The MAMA-MEA website has been designed to act as a contact point for third parties who are interested in the progress and outcomes of the project. It has a modern menu structure that is easy to navigate and provides all basic information as well as a brief summary of the project. The partners involved in MAMA-MEA are presented on the website, with their logo, a short description of the organisation and a link to their website.

The objective of the website is to raise awareness for the project and will show that the EU is funding and supporting this project, as a part of the FCH JU initiative (a Part of Horizon 2020) to strengthen the competitiveness of European companies. Therefore, another objective of the website is to inform the general public about the MAMA-MEA in particular and also raise the interest for related EU-projects in general. The website will inform the public about ongoing activities through newsletters and public technical project publications. All the information displayed on the project website is updated and maintained on a regular basis.

The website complies with the German law (TMG, DS-GVO), as the origin of the hosting institution.

### 3. WEBSITE DESIGN AND FRONT PAGE

The MAMA-MEA website is WordPress-based and has an attractive format supported by a sufficient amount of hyperlinks. The visitor can navigate through the website using the top bar. Above the top bar, the MAMA-MEA logo and the written out name of the short form is displayed.

On the front page is a short description of the project concept and a graphic showing the partner logos and location as well as the acknowledgement to the FCH JU and EU, as the two largest logos appearing on the main page.



Figure 1: Front page of the MAMA-MEA website

### 4. MAMA-MEA PROJECT INFORMATION

The section Project shows a more detailed description of the scope and objectives of MAMA-MEA as well as a picture of a stack from Nedstack for a technical reference.

## Scope

The market for PEM fuel cells will increase to 10's GWs per annum from 2015. For the catalyst coated membrane (CCM), a critical stack component, continuous manufacturing processes are currently being implemented by manufacturers worldwide.

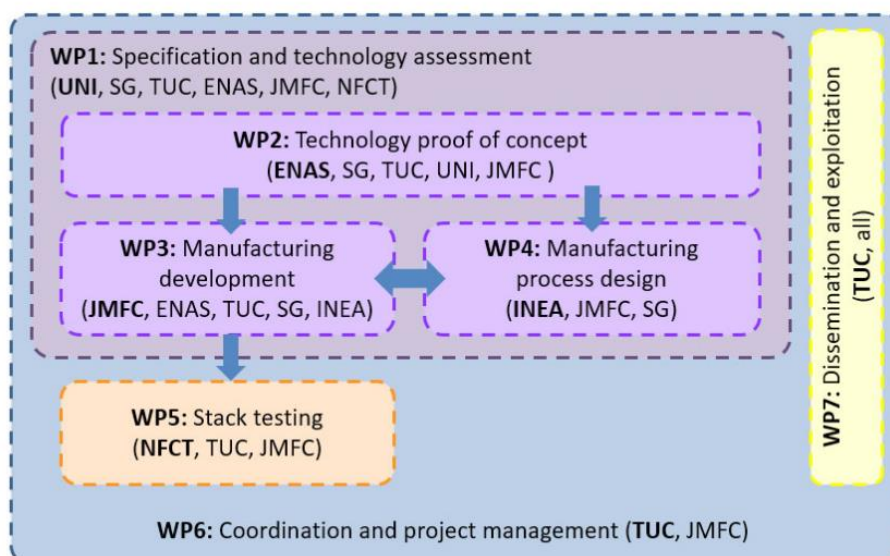
While these will meet CCM demand for the next ten years, the growing requirement for increased numbers of CCMs after that necessitates a manufacturing step-change, both concerning cost and capacity.



© Nedstack

Figure 2: Information about the MAMA-MEA project

Below the scope of the project is a graphic depicting all the work packages and their responsible partners as well as a description of the project objectives.



## Objectives

The aim of MAMA-MEA is to develop an innovative additive layer deposition process that integrates all the main CCM components (membrane, catalyst layers, sealing) in a single continuous roll-to-roll manufacturing process for the PEM fuel cell industry, thus enabling an increase in the volume manufacturing rate of over 10 times compared to state-of-the-art processes, whilst also increasing key material utilisation and reducing materials and manufacturing costs.

Figure 3: MAMA-MEA project objectives

## 5. MAMA-MEA CONSORTIUM



In the section Partner a short company profile is presented as well as the logo of each partner. When clicking on the logo or the button Website, visitors are redirected to the partner's official website.

Fraunhofer Institute for Electronic Nano Systems 

The particular strength of the Fraunhofer Institute for Electronic Nano Systems ENAS lies in the development of smart integrated systems for different applications. Fraunhofer ENAS develops single components, technologies for their manufacturing as well as system concepts and system integration technologies and transfers them into production. The institute offers research and development services from the idea, via design and technology development or realization based on established technologies to tested prototypes.

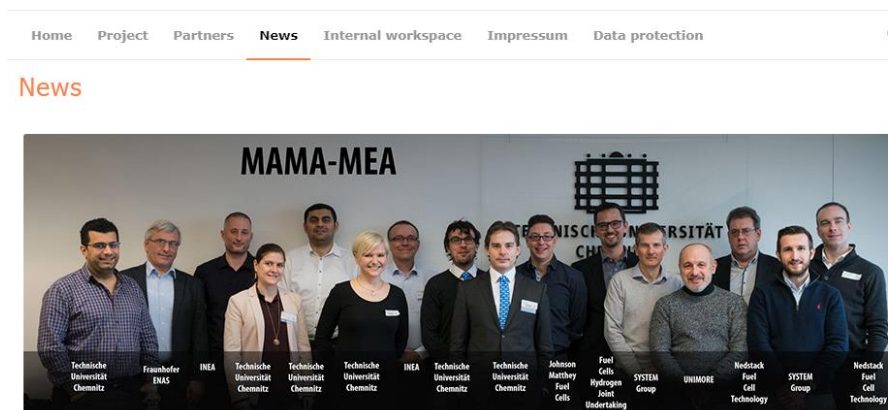
The Department Printed Functionalities of Fraunhofer ENAS will conduct research and development on how to deposit patterned layers by traditional and digital printing technologies in the MAMA-MEA project. The integration of nano materials as well as printed functionalities causes new challenges and requires new approaches in terms of design, testability and reliability.



Figure 4: Information about the consortium.

## 6. MAMA-MEA NEWS

The News section provides information about up-coming conferences, workshops, meetings and other project-related activities.



We started our MAMA-MEA journey together at the Chemnitz University of Technology in February

Figure 5: News in MAMA-MEA project showing the kick off meetings

## 7. MAMA-MEA IMPRESSUM AND DATA PROTECTION

The section Impressum discloses information about the publisher, including their name, address, telephone number and e-mail address as it is required from/by the German law.

## 8. CURRENT STATE AND FUTURE WORK

The homepage is running, also including the link to internal workspace, to quickly and safely access the Project internal Workspace described in D6.1. The homepage has an active security certificate from Let's encrypt (an international certificate authority) to show the user that the way to show the website wasn't compromised. This certificate will be regularly renewed to enhance security and comply with the https (HyperText Transfer Protocol Secure with SSL secured transfer) version of the Website. The homepage will not actively track the visitors or use tracking cookies. The website domain was registered and is owned by the TU Chemnitz.



## 9. REFERENCES

<https://dsgvo-gesetz.de/bdsg/>

[https://www.gesetze-im-internet.de/tmg/\\_5.html](https://www.gesetze-im-internet.de/tmg/_5.html)

<https://webmasters.stackexchange.com/questions/68435/moving-from-http-to-https-in-google-search-console>