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PRESS RELEASE

# The new EU-funded CHARISMA project is set to harmonise and standardise Raman Spectroscopy for characterisation across the life cycle of a material, from product design and manufacture to lifetime performance and end-of-life stage.

Online, 10 - 11 of December 2020

CHARISMA aims to harmonise and standardise characterisation by Raman spectroscopy, including hardware, measurement protocols, and in silico methods, enabling end users to share digital spectral data across domains and across the entire life cycle of diverse products.

The project will demonstrate the feasibility of its concept in three industry cases. In the long term, it aims to make Raman spectroscopy a widespread technology used within the Industry Commons concept.

The first General Assembly of the project took place on December 10th to 11th in a virtual platform to gather consortium partners across the globe in a collaborative discussion how the project goals would be achieved and what actions will be taken over the next 6 months.

The project objectives feature:

- Normalise the harmonisation of Raman spectroscopy in the Nanotechnologies, Advanced Materials, Biotechnology, and Advanced Manufacturing and Processing community
- Model to harmonise Raman spectroscopy
- Harmonise Raman spectra
- Harmonise Raman characterisation data
- Generate a FAIR Raman data repository
- Demonstrate the performance of harmonised Raman characterisation across domains in real industrial cases
- Standardise Raman protocols

Prof. Dr. Miguel A. Bañares, Research Professor and Group Leader of Insituto de Catalisis - Spectroscopy and Industrial Catalysis group and project coordinator, explains the expected impact of CHARISMA:

*"Charisma is expected to make significant impact on a number of different technological and scientific areas, ultimately leading to improved trust of the consumers and industry in digitally controlled Raman-active nanomaterials- based products and inline/onsite Raman characterisation during the product life cycle and in improved trust in quality and performance of products involving NMs in general."*

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 952921.

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The project receives funding from the European Union's HORIZON 2020 research and innovation programme under grant agreement n°952921.

Expect soon more information about the project on www.h2020charisma.eu

**Project Facts:**

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| Project Reference | 952921 |
| Duration | 48 months, starting in November 2020 |
| Total Budget | approx 5M € |

**Project Partners:**

CSIC, Spain
Haldor Topsoe, TOPSOE, Denmark
Encapsulae S.L., Spain
Fabrica nacional de Moneda y Timbre - Real casa de la Moneda, Spain
National Technical University of Athens, Greece
Universita Degli Studi di Milano, Italy
Sorbonne Universités, France
Vrije Universiteit Brussel, Belgium
Frauenhofer Institute for Structural Durability and System Reliability LBF, Germany
ELoDiz Ltd., UK
Ideaconsult Ltd., Bulgaria
Asociación Española e Normalización, Spain
Yordas GmbH, Germany
European Research Services GmbH, Germany

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