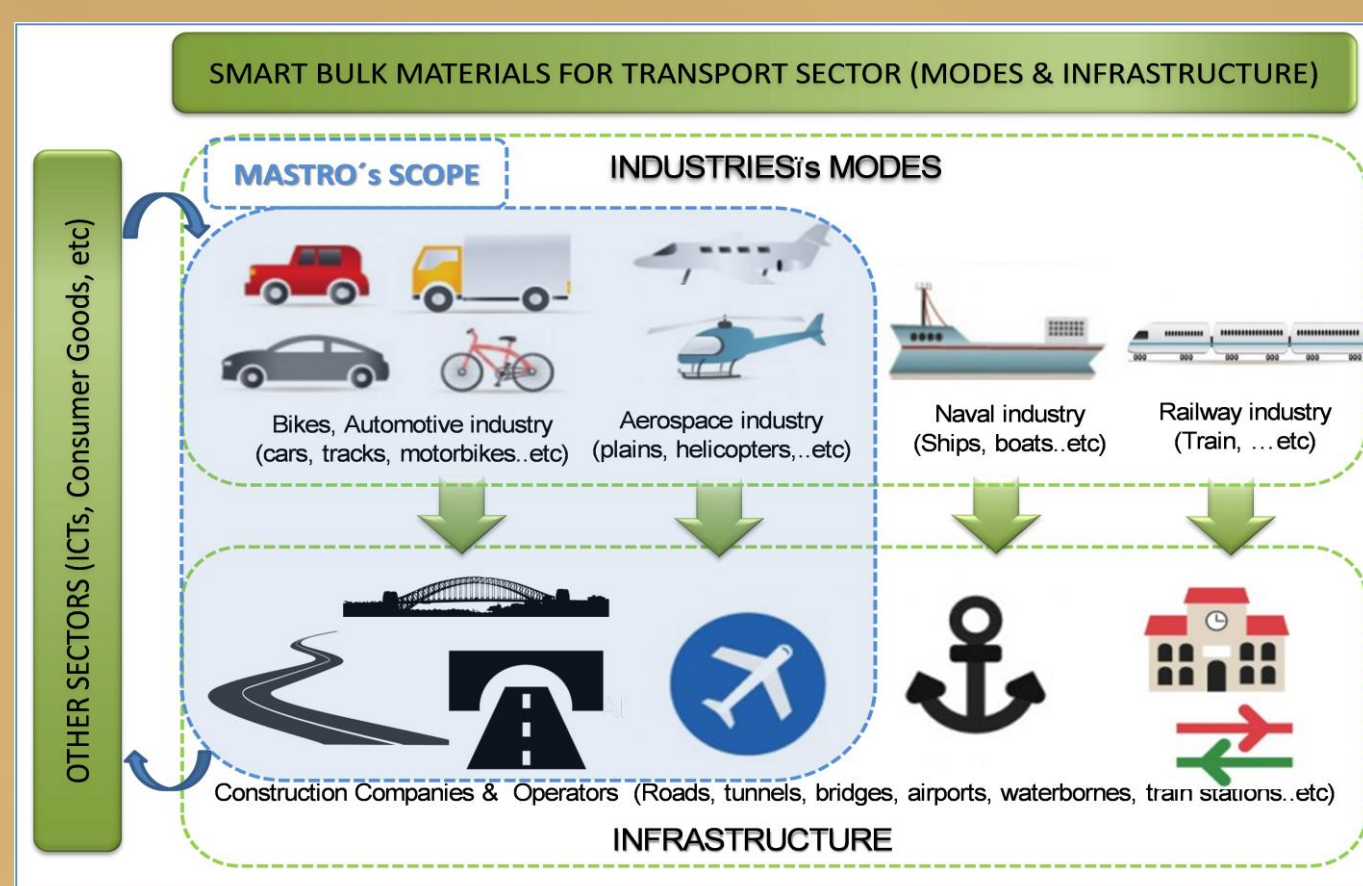


MASTRO

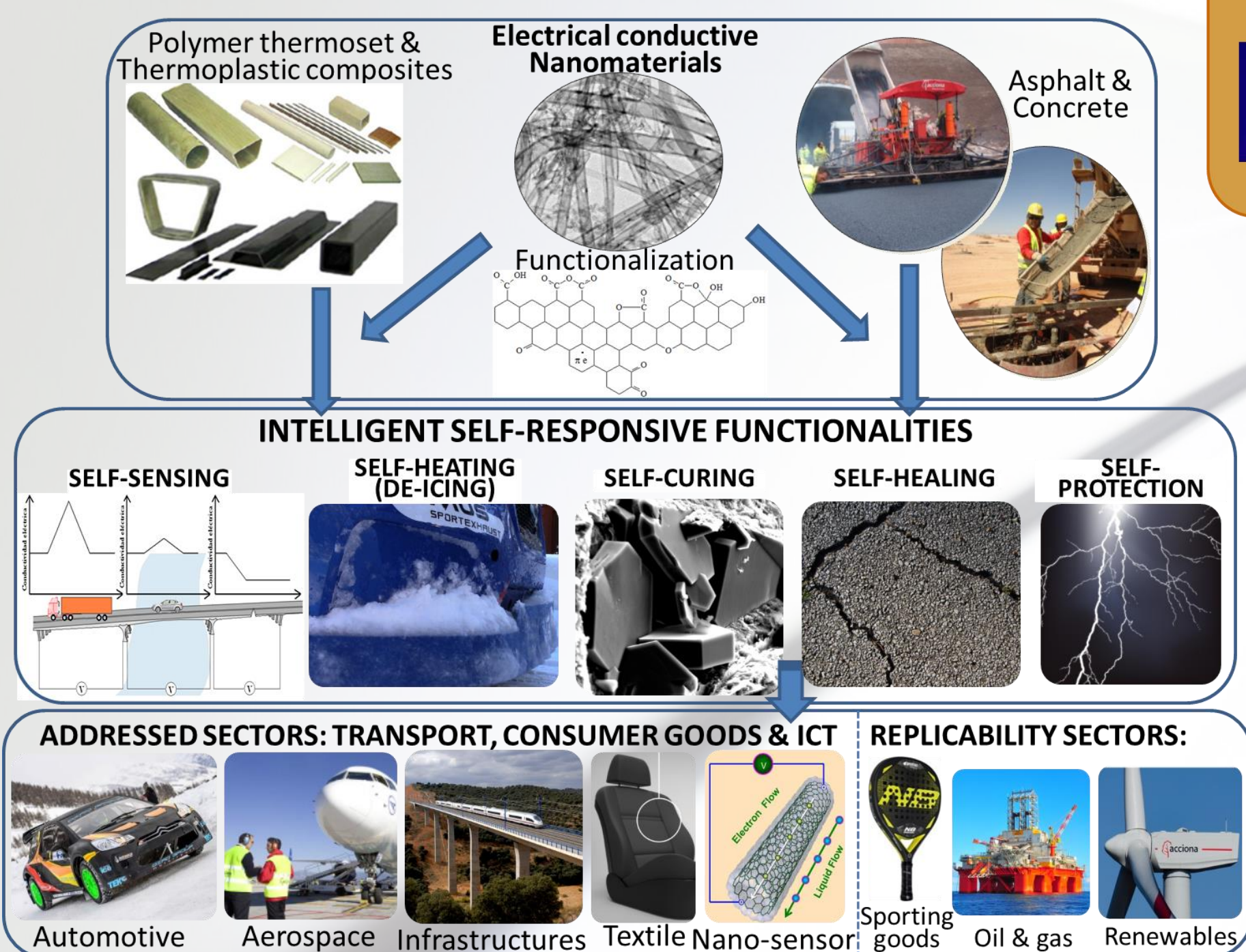
Intelligent Bulk Materials for a Smart Transport Sector

Introduction

The EU 2020 Strategy states that Europe needs to turn into a smart, sustainable and inclusive economy, developing an economy based on knowledge and innovation. Fully aligned, The EC White Paper on Transport takes into account major policy initiatives that may impact on transport and establishes as a priority the need for integration of transport in sustainable development. Road and air are the most common means of passenger and freight transport in Europe. The automotive industry is therefore crucial for Europe's prosperity considering that the sector provides jobs for 12 million people and accounts for 4% of the EU's GDP.



The overall scope of MASTRO



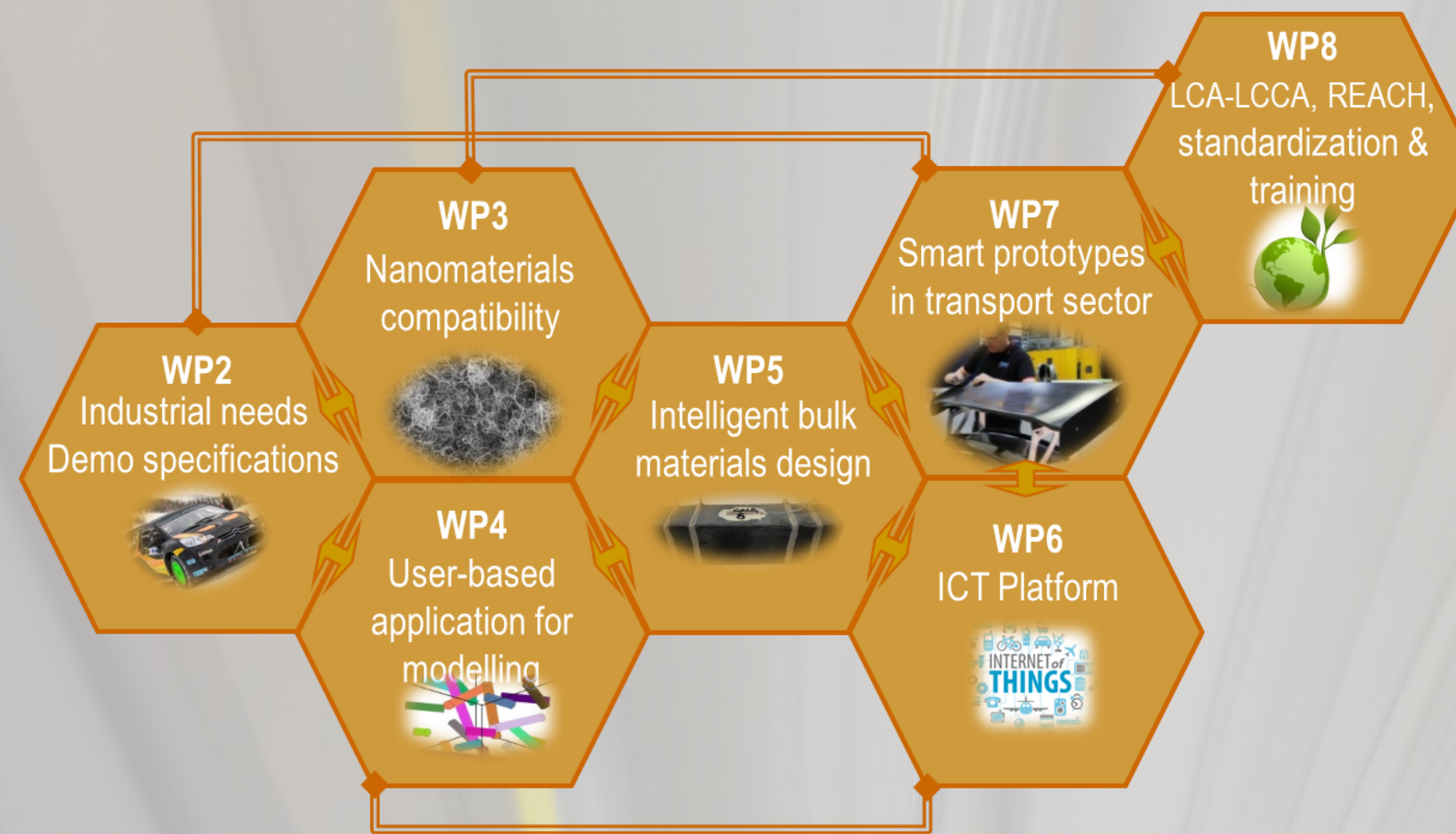
Conceptual workflow

Objectives

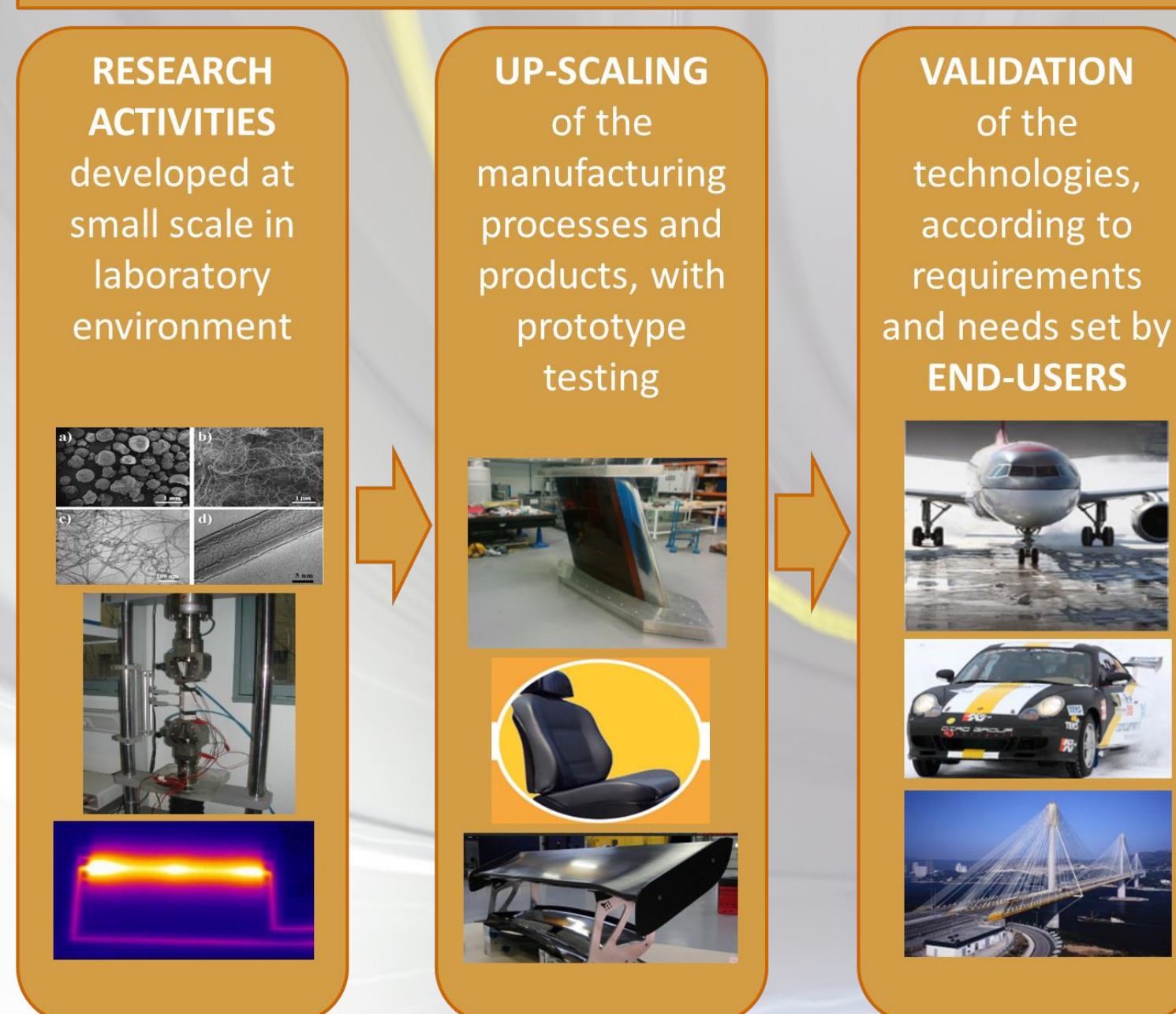
1. To produce various types of tailored carbon-based nanomaterials with electrical conductive functionalities
2. Develop a multi-scale model for predicting the self-responsive functionalities of composite materials
3. Design and develop intelligent bulk materials with self-responsiveness properties
4. Develop an ICT platform for intelligent monitoring and control
5. To demonstrate, prove, and validate the developed functionalities
6. Conduct LCA, LCC, and REACH analysis, standardization, and training activities
7. To boost the communication, dissemination, and exploitation of the technologies

WP1. PROJECT MANAGEMENT

WP9. Innovation, exploitation, training & dissemination



Activities focused on boosting future MARKET UPTAKE



Impact



Consortium



ACCIONA Construction – IND (ES)



ALKE SRL – SME (IT)



Applynano Solutions S.L. – SME (ES)



ARKEMA FRANCE – IND (FR)



AXIA Innovation UG – SME (DE)



BSRIA LIMITED – SME (UK)



CETMA – RTD (IT)



CITEVE – RTD (PT)



DIAD GROUP SRL – IND (IT)



IPC – RTD (FR)



Embraer Portugal, S.A. – IND (PT)



SUPERIOR GRAPHITE Deutschland GMBH – IND (DE)



PINOUT – SME (ES)



UNIVERSITA' DEGLI STUDI DI SALERNO – UNI (IT)



UNIVERSIDAD DE ALICANTE – UNI (ES)



THE UNIVERSITY OF SHEFFIELD – UNI (UK)

PROJECT DETAILS

Project Title: MASTRO
Intelligent bulk MATERIALS for Smart TRANSPORT industries
NMBP-04-2017 - Architected /Advanced material concepts for intelligent bulk material structures
Type of action: Research and Innovation Action (RIA)
This research project has received funding from the European Community's H2020 Programme, under grant agreement Nr. 760940
EC Contribution: 6,002,887.50 €
Duration: 01.12.2017 - 30.05.2021.
Project Co-ordinator: Dr. Silvia Hernández Rueda



Project Website:
www.mastro-h2020.eu