

About ELCA Internationalization

ELCA – European Lightweight Cluster Alliance – is a 2-year project funded under the “COSME Cluster Go International” programme. The aim of the project is to prepare and promote an international marketing strategy “Lightweight made in Europe” by a consortium created by 5 European industry clusters, establish cooperation between member companies of all clusters, prepare a joint offer and establish contacts with concerns in targeted sectors and to promote European solutions in the field of light structures in transport, which aims at the reduction of CO2 emission and increase recycling, and thus fits into the concept of the circular economy.

Objectives:

1. Development of a joint strategy for cluster internationalisation
2. Identification of lightweight opportunities in markets outside EU
3. Strive for synergies with local policy with the aim of adapting solutions to their respective environmental regulation framework
4. Promotion of the “Lightweight made in Europe brand and joint marketing strategy in regions outside Europe”

Transport mobility is responsible for 24% of direct CO2 emissions from fuel combustion. By reducing the weight of parts and components (lightweighting), the mobility sector is able to tackle this challenge. During the last years, Europe has been progressing positively the lightweight research and industry, although with scattered effects and not at its full potential at global scale. The action seeks to foster the use of European lightweight products, technologies and services in 4 mobility sectors:



Automotive



Aerospace & Aeronautics



Rail



Maritime

Partnership



AMZ was founded in 1999 in the automotive industry in Saxony which is one of the most important economic activity in Germany. The region employs about 95,000 people, involve 780 suppliers and 5 OEMs and produce about 720,000 cars every year. This has driven the development of innovative projects by top R&D institutions in the fields of electric mobility, lightweight construction, battery technology and automatization. Its network is integrated by more than 140 members, including R&D, suppliers, mechanical engineering & production equipment, and industrial services.

www.amz-sachsen.de

Bydgoszcz Industrial Cluster was established in 2006 with the aim of creating optimal development conditions, stimulating cooperation and integrating plastics processors and tool manufacturers of the plastics sector. BIC is formed by 148 members, including 108 enterprises (80% are SMEs). The members offer high-quality moulds and other processing tools and also deal with the manufacturing of plastic products for various industries, i.a. automotive, household appliances, furniture production, medical disposables production, pharmaceutical, cosmetic and food packaging industries.

www.klaster.bydgoszcz.pl



Clúster de Materials Avançats de Catalunya was established in 2015 with the aim to promote and contribute to the competitiveness of companies and entities in the value chain of the advanced materials business in Catalonia and its associated technologies. MAV is formed by more than 60 members, that altogether represent more than 76,000 employees and a revenue of close to €35M. The MAV is organised into four work groups (Nanotechnology and Nanomaterials, Advanced Manufacturing, Lightweight Materials and Circular Economy) that bring its activities to life and support the development of projects by its members.

www.clustermav.com

Emilia-Romagna Mechatronic and Motoristic Cluster represents the mechanical sector in the Emilia-Romagna region which is the most important in terms of revenues and exports. It is an association of 112 public and private bodies that operates with the aim to share skills, ideas and resources to support the competitiveness of the sector. MECH focuses its activities in 8 technical working groups: together with the regional Technopoles and the High Technology Network laboratories, regional clusters are key players in the regional innovation ecosystem.

www.mech.clust-er.it



POLYMERIS is the only competitive cluster dedicated to Rubbers, Plastics and Composites in France. The main missions of POLYMERIS are to foster more innovation and to encourage the emergence of new R&D projects, to promote innovation in these sectors and to open up business development to other industrial sectors and to the international cooperation. It becomes a reference in matters of Rubbers, Plastics&Composites Innovation on the territory, with the aim to allow companies to achieve excellence in the technologies and application areas of tomorrow.

www.plastipolis.fr



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