

HORIZON
2020

Advanced Light MAterials and processes for the eco-design of electric vehicles

Fact Sheet

Project Information

ALMA

Grant agreement ID: 101006675

[Project website](#)

DOI

[10.3030/101006675](https://doi.org/10.3030/101006675)

Project closed

EC signature date

19 November 2020

Start date

1 February 2021

End date

31 January 2024

Funded under

SOCIETAL CHALLENGES - Smart, Green And Integrated Transport

Total cost

€ 5 197 595,00

EU contribution

€ 4 266 391,63

Coordinated by

FUNDACION PARA LA
PROMOCION DE LA
INNOVACION INVESTIGACION Y
DESARROLLO TECNOLOGICO
EN LA INDUSTRIA DE
AUTOMOCION DE GALICIA



Spain

Project description

Making electric vehicles lighter

The future of electric vehicles hinges on their weight. Since it takes less energy to accelerate a lighter object, advanced lightweight materials can help improve efficiency. The EU-funded ALMA project will develop a novel battery electric vehicle (BEV) structure for a passenger car with 45 % weight reduction potential. The project will adopt circular economy principles through the application of eco-design strategies to create a novel recyclable and affordable BEV platform. Specifically, the project will design a multi-material modular platform made by combining advanced

high-strength steels, advanced sheet moulding compound and steel hybrid materials, characterised with multiscale model-based tools. The platform will be recyclable since it will be possible to separate components at the end-of-life for repair and reuse.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [environmental engineering](#) > [waste management](#) > [waste treatment processes](#) > [recycling](#)



Keywords

[lightweight](#)

[electric vehicle](#)

[BEV](#)

[advanced materials](#)

[eco-design](#)

[steel](#)

[composites](#)

[debonding](#)

[multiscale simulation](#)

[structural health monitoring](#)

[circular economy](#)

[reuse](#)

[recycling](#)

Programme(s)

[H2020-EU.3.4. - SOCIETAL CHALLENGES - Smart, Green And Integrated Transport](#)

MAIN PROGRAMME

Topic(s)

[LC-GV-06-2020 - Advanced light materials and their production processes for automotive applications](#)

Call for proposal

[H2020-LC-GV-2018-2019-2020](#) 

[See other projects for this call](#)

Sub call

H2020-LC-GV-2020

Funding Scheme

[IA - Innovation action](#)

Coordinator



FUNDACION PARA LA PROMOCION DE LA INNOVACION INVESTIGACION Y DESARROLLO TECNOLOGICO EN LA INDUSTRIA DE AUTOMOCION DE GALICIA

Net EU contribution

€ 755 675,00

Total cost

€ 755 675,00

Address

POLIGONO INDUSTRIAL A GRANXA CALLE A PARCELAS 249-250
36400 Porrino Pontevedra

 Spain 

Region

Noroeste > Galicia > Pontevedra

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Participants (10)



FORD-WERKE GMBH

 Germany

Net EU contribution

€ 780 995,25

Address

HENRY FORD STRASSE 1
50735 Koln 

Region

Nordrhein-Westfalen > Köln > Köln, Kreisfreie Stadt

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 1 115 707,50



ARCELOMITTAL MAIZIERES RESEARCH

 France

Net EU contribution

€ 298 582,38

Address

**IMMEUBLE LE CEZANNE 6 RUE ANDRE CAMPRA
93200 SAINT DENIS** 

Region

Ile-de-France > Ile-de-France > Seine-Saint-Denis

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 729 428,75

 **THIRD-PARTY** 

ARCELOMITTAL FRANCE

 France

Net EU contribution

€ 212 017,00

Address

6 RUE ANDRE CAMPRA IMMEUBLE LE CEZANNE
93200 Saint-Denis 

Region

Ile-de-France > Ile-de-France > Seine-Saint-Denis

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- [Contact the organisation](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

No data



BATZ SOCIEDAD COOPERATIVA

 Spain

Net EU contribution

€ 286 325,56

Address

CALLE TORREA 32
48140 Igorre 

Region

Noreste > País Vasco > Bizkaia

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- [Contact the organisation](#)  [Website](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

€ 513 140,00

 THIRD-PARTY 

BATZ ZAMUDIO S.COOP.

 Spain

Net EU contribution

€ 72 872,44

Address

PG UGALDEGUREN-II POLIGONOA P-10 II
48170 Zamudio 

Region

Noreste > País Vasco > Bizkaia

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



RESCOLL

 France

Net EU contribution

€ 208 587,75

Address

ALLEE GEOFFROY SAINT HILAIRE 8 CS 30021
33600 Pessac 

SME 

Yes

Region

Nouvelle-Aquitaine > Aquitaine > Gironde

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

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[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 297 982,50



**FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN
FORSCHUNG EV**

Germany

Net EU contribution

€ 461 500,00

Address

**HANSASTRASSE 27C
80686 Munchen**

Region

Bayern > Oberbayern > München, Kreisfreie Stadt

Activity type

Research Organisations

Links

[Contact the organisation](#) [Website](#)
[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Total cost

€ 461 500,00



INNERSPEC TECHNOLOGIES EUROPE SL

Spain

Net EU contribution

€ 313 425,00

Address

**CALLE SANGLAS, 13
28890 Loeches Madrid**

SME

Yes

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

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[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

€ 447 750,00



NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO

 Netherlands

Net EU contribution

€ 600 341,25

Address

ANNA VAN BUERENPLEIN 1

2595 DA Den Haag 

Activity type

Research Organisations

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

€ 600 341,25



INTERNATIONAL SOLID WASTE ASSOCIATION

 Netherlands

Net EU contribution

€ 276 070,00

Address

STATIONSPLEIN 45, A4.004

3013 AK Rotterdam 

Activity type

Other

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost
€ 276 070,00

Last update: 26 December 2024

Permalink: <https://cordis.europa.eu/project/id/101006675>

European Union, 2025

