



# Driving sustainable eMobility: Improving Aluminium Recycling and use of Critical Raw Materials

Final event of the EU-funded project SALEMA

21 March 2024

09:00-18:00 CET

AutoWorld car museum, Brussels

## The challenges:

The automotive industry is facing multiple challenges to meet the European Green Deal goals. The need to produce new, high-performance but lightweight materials is now compelling. So is the need to decrease our dependency on imported critical raw materials (CRMs), while creating a sustainable economy. With the focus on lightweight materials and a shift to electrification in mobility, the content of aluminium alloys in vehicles is continuously rising. Today, aluminium alloys reach about 15% of the mass in large-scale production cars and around 30% in the case of electric vehicles. Clearly, the European automotive sector needs reliable aluminium sources that are less dependent on critical raw material imports.

## The SALEMA approach:

The EU-funded SALEMA project has developed new aluminium alloys with reduced dependency on CRMs such as silicon and magnesium and aimed to maximise the sourcing of CRMs from scrap metal recycling. The project has evaluated the suitability and performance of these new alloys for three different manufacturing processes (high pressure die casting, extrusion and stamping) used to produce demonstrators representing different e-vehicles parts. The integration of scrap metal recycling is essential to create a sustainable circular economy and reliable source for high-quality alloys.

To address the challenges, the SALEMA project consortium represents all types of players in the aluminium value chain, as well as scientific research.

### CONTACTS:

European Aluminium and ESCI, the European Science Communication Institute, organised this event. For general queries, contact [cavezza@european-aluminium.eu](mailto:cavezza@european-aluminium.eu); for media enquiries contact [ld@esci.eu](mailto:ld@esci.eu).

For more information about the project, visit the SALEMA website: <https://salemaproject.eu/>

## Come and join us!

SALEMA partners invite you to register for the project's final event. Together, we'll review aluminium's pivotal role in the drive towards sustainable mobility through improved electric vehicles. We'll explore how an intricate web of policies, technology trends and market shifts converge to redefine sustainable mobility. We'll bring together diverse perspectives, showcase key SALEMA results and connect the dots between these accomplishments and the big-picture implications for policy, technology and markets.

## Who can participate?

Anyone who's interested in finding out more about aluminium's role in sustainable mobility is welcome to attend. In particular we invite policy makers, industry representatives, technical and scientific specialists as well as members of the press to join us.

## How to register:

The workshop is free of charge. Only registered participants will have access to the workshop. Registration is open until 15 March 2024 at 23:59 CET.

Registration and all event details are available via the QR code or through the event platform: [bit.ly/SALEMA2024](https://bit.ly/SALEMA2024).



# SALEMA Final Event

## Agenda 21 March 2024

**08:30 On-site registration**

### Opening

**09:00 Welcome remarks:** Manel da Silva & Hannah Arpke, Eurecat; Paul Voss & Christian Leroy, European Aluminium

**09:15 - Driving Sustainability: a policy dialogue on challenges and opportunities in expanding recycled aluminium in electric vehicles**

**Introduction by moderator:** Giulia Forgnone, Director of Public Affairs and Communications, European Aluminium

- **Panel Discussion**

Gaël de Rotalier, DG Environment, Head of Unit

Martin Tauber, European Representative, International Magnesium Association & President Critical Raw Material Alliance (CRM-A)

Chris Heron, Communication & Public Affairs Director, Eurometaux

Francesca Cavezza, Innovation Project Manager, European Aluminium

**10:15 Networking coffee break & Exhibition**

**10:45 - The SALEMA Project Journey: main outcomes, challenges and possibilities**

Manel da Silva, Technical Coordinator SALEMA, Unit of Metallic and Ceramic Materials, Eurecat

Tutku Özen, R&D Projects & Incentives Executive, ASAŞ

Andrea Bongiovanni, PhD Researcher, Centro Ricerche Fiat

**12:15 Networking lunch & Exhibition**

**14:00 - Empowering Europe's Green Transition: the crucial role of Critical Raw Materials**

**Introduction by moderator:** Franco Bonollo, professor of Metallurgy, Università di Padova

- **Metals for Clean Energy: pathways to solving Europe's raw materials challenge** - Chris Heron, Communication & Public Affairs Director, Eurometaux
- **Sustainable Magnesium Production in Europe** - Mark Pohlmann, Managing Director, Magnesium for Europe

**14:45 - Design for Circularity in the Automotive Sector: Strategies for Improved Sustainability**

**Introduction by moderator:** Benedetta Nucci, Senior Manager Mobility & Life Cycle Assessment, European Aluminium

- **Volvo Cars, Sustainability, Circularity & Aluminium: a great combination?** - Simon Buckingham, Technical Leader for Sustainable Materials, Volvo Cars
- **Catena X: enabling circular economy and sustainability through digital product passports** - Carolin Tröster, Expert Business Consultant, T-Systems; Cagdas Tekin, Project Engineer, BMW

**15:30 Networking coffee break & Exhibition**

**16:00 - Aluminium Recycling: enhancing quality for a sustainable future**

**Introduction by moderator:** Prof. Geoff Scamans, Brunel University and Innoval Technology Limited

- **Multipick: ultimate robotic sorting for greener metals** - Gregory Lewis, Research & Development Engineer, Groupe Comet; Robert Baudinet, Research Engineer, Université de Liège
- **State-of-art technologies in purifying aluminium melt from scrap** - Prof. Karl Bernhard Friedrich, RWTH Aachen

**16:45 - Leveraging EU Innovation: from Horizon project to market impact**

**Introduction by moderator:** George Karkampasis, Director – Circular Economy & Raw Materials, European Aluminium

- **Panel Discussion**

Garbiñe Guiu Etxeberria, DG Research and Innovation

Ángels Orduña, Executive Director, A.SPIRE

Christian Leroy, Director Innovation, European Aluminium

Claudio Mus, Technical - R&D Director, Endurance Overseas

**17:45 Final remarks & closing**

**18:00 End of the event**



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