



Welcome

Dr Gerd Götz, Director General

RemovAL Stakeholders' Workshop – 6 Nov 2019





Introduction to the workshop

Christian Leroy, Innovation Hub Manager

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1 / « Innovation Hub » : What is it?

- Based on a long history of European Aluminium's involvement in education and technology
- Based on some past collaborative projects, e.g. VIR* projects, SuperLightCar project, E2Vent, etc.
- Officially initiated in 2015 following a strong recommendations of top executives
- Coordinated industrial platform established in 2016 where European aluminium companies are committed
 - To collaborate together on key RTD topics and innovations
 - To collaborate with other key stakeholders in Europe, e.g. Research and Technology Organisations (RTO), other industrial sectors, policy makers, etc.

2

/ 15 companies and 2 MG engaged in 2019



Hydro

Novelis
Not just aluminum. Novelis Aluminum.™

 GRÄNGES

AMAG
AUSTRIA METALL

RioTinto

 vimetco
alro

 RAFFMETAL



AssanAlüminyum



EUROPEAN ALUMINIUM
Building Group



MYTILINEOS

 SLIM
ALUMINIUM



ARCONIC


Alcoa
 Aleris

 ELVAL
HELLENIC ALUMINIUM INDUSTRY S.A.

 Constellium

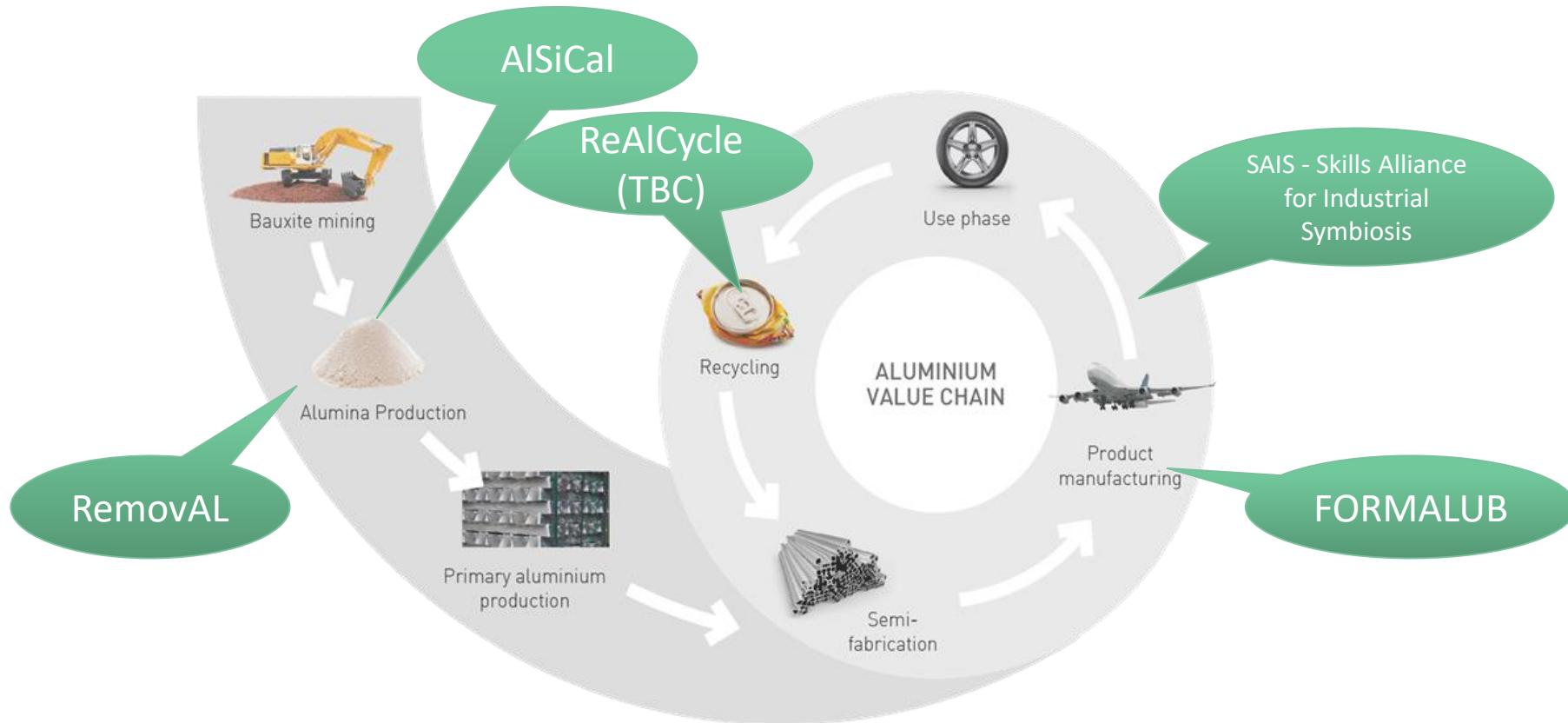


EUROPEAN ALUMINIUM
Automotive & Transport Group

2 / Main Objectives

- **Establish a proper framework and network**
 - Mapping technology and R&D needs along the aluminium value chain
 - Joining Private Public Partnerships (PPPs), including Sustainable Process Industry through Resource and Energy Efficiency (SPIRE), Factory of the Future (FoF) and Energy Efficient Buildings (EeB).
 - Developing the Innovation Hub Community by stimulating networking and cooperation between the Aluminium industry and the R&D community,
- **Communicate about key innovations along the aluminium value chain,**
 - e.g. newsletter, contributing to conferences, Innovation stories, etc.
- **Initiate and facilitate collaborative projects,**
 - e.g. RemovAL, AISiCal, FORMALUB , SAIS

3 / The Key Innovation Hub projects & proposal



3

RemovAL* - Flag-ship project

Started in May 2018

- Objectives:
 - Deliver and validate a feasibility study for valorising Bauxite Residue along with other industrial by-products, e.g. Spent Pot Linings (SPL),
 - Develop 6 innovative pilot plants across Europe
- 4 years project (2018-2022) with **11,5 M€ EU funding**
- Coordinator: **Mytilineos S.A.**, Metallurgy business Unit
- 26 partners including **European Aluminium, Rio Tinto, RUSAL, Alum and International Aluminium Institute**.
- European Aluminium role:
dissemination/communication, clustering and EU regulatory framework

*REMOVAL received funding from the Horizon 2020 Programme under grant agreement n° 776469.



4 / Objectives and scope of the workshop

Focus : today and future EU regulatory framework applicable not only to bauxite residue but also to other slags and residues issued from other metal sectors.

The **main objectives** of the workshop are:

- To get the perspective of the policy makers at European level
- To present case studies and experiences from various metal sectors
- To get the perspective of users
- To exchange views and good practices
- To identify regulatory barriers and opportunities
- To potentially derive first recommendations for a more efficient EU regulatory framework, especially for bauxite residues

/ 11:15-13:00 – Session I

Getting an overview on the regulatory & research framework

Facilitator: Kamila Slupek, Eurometaux

- “*Update on the ongoing review of the Waste Shipment Regulation*”, Yorg Aerts, European Commission- DG ENV
- “*Valorisation of residue generated by metal value chains, an opportunity to circular economy*”, Vincent Basuyau, European Commission - DG GROW
- “*HARMONI Project: findings and recommendations*”, Ignacio Martin, CIRCE

/ 14:00 – 16:00 - Session II

Overview on the non-ferrous value chain, focus on the RemovAL case, views from user perspective

Facilitator: Aurelio Braconi, EUROFER

- “*Overview from non-ferrous metal sector*”, Kamila Slupek, Eurometaux
- “*Industrial Waste along the aluminium value chain: challenges and opportunities*”, Eva Tormo, European Aluminium
- “*The RemovAL case study: How boosting further the use of bauxite residue*”, Thymis Balomenos, RemovAL project coordinator, Mytilineos
- “*Views from user perspective: Cement industry*”, Vagner Maringolo, CEMBUREAU

16:30-18:00 - Session III

Case studies and views from other metal sectors & conclusions

Facilitator: Sandro Starita, European Aluminium

- “A framework for boosting resource efficiency – the case of iron silicate from copper production”, Wendy Wellens & Katia Lacasse, European Copper institute
- “Circular Economy in the ferro-alloys & silicon sector, field cases and views”, Nadia Vinck, Euroalliages
- “Legal Framework and Secondary Raw Materials: steel views and examples, joint presentation”, Aurelio Braconi, EUROFER & Thomas Reiche, EUROSAG

Summary of discussions and Recommendations, Ugo Miretti, ITRB Group

Closing words by European Aluminium and Mytilineos