

Z-ONA4LIFE

Developing A Process to Valorise Aluminium Salt Slag

The EU-funded project Z-ONA4LIFE embarked on a groundbreaking journey from 1 September 2023 and kicked off its activities in Madrid (Spain) with the presence of all the Consortium members on 13 September 2023. The event laid the cornerstone for project activities, fostering knowledge sharing and detailed discussions on the tasks ahead and priorities to efficiently support the project in its 48-month journey to drive Z-ONA4LIFE's mission of revolutionising waste management practices.

Transforming the Aluminium Industry with Circular Solutions

The concept of the circular economy, aimed at minimising waste, optimising resources, and fostering continuous reuse and recycling, has taken centre stage in today's global sustainability efforts. In line with this vision, the EU-funded project Z-ONA4LIFE is set to embark on a groundbreaking journey from September 1, 2023, to August 31, 2027, ushering in a new era of circularity in the aluminium industry. By fulfilling its goals, the project contributes to strategic initiatives, including the Circular Economy Action Plan, the EU Industrial Strategy, the Waste Framework Directive, the European Green Deal, and the Sustainable Development Goals.



Wastes
selection

Z-ONA4LIFE Domains



Products, process
and scaling-up



Circularity and
near zero-waste



Sustainability
and results
exploitation



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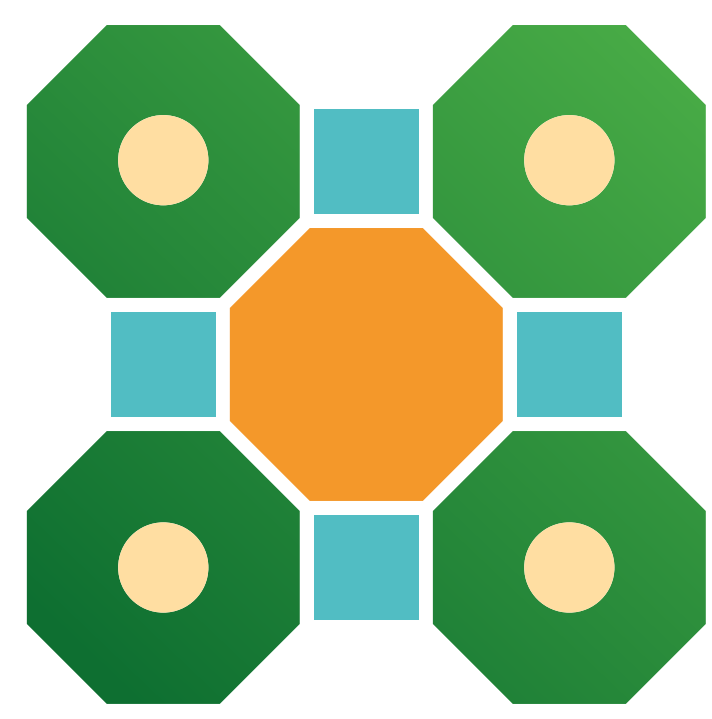
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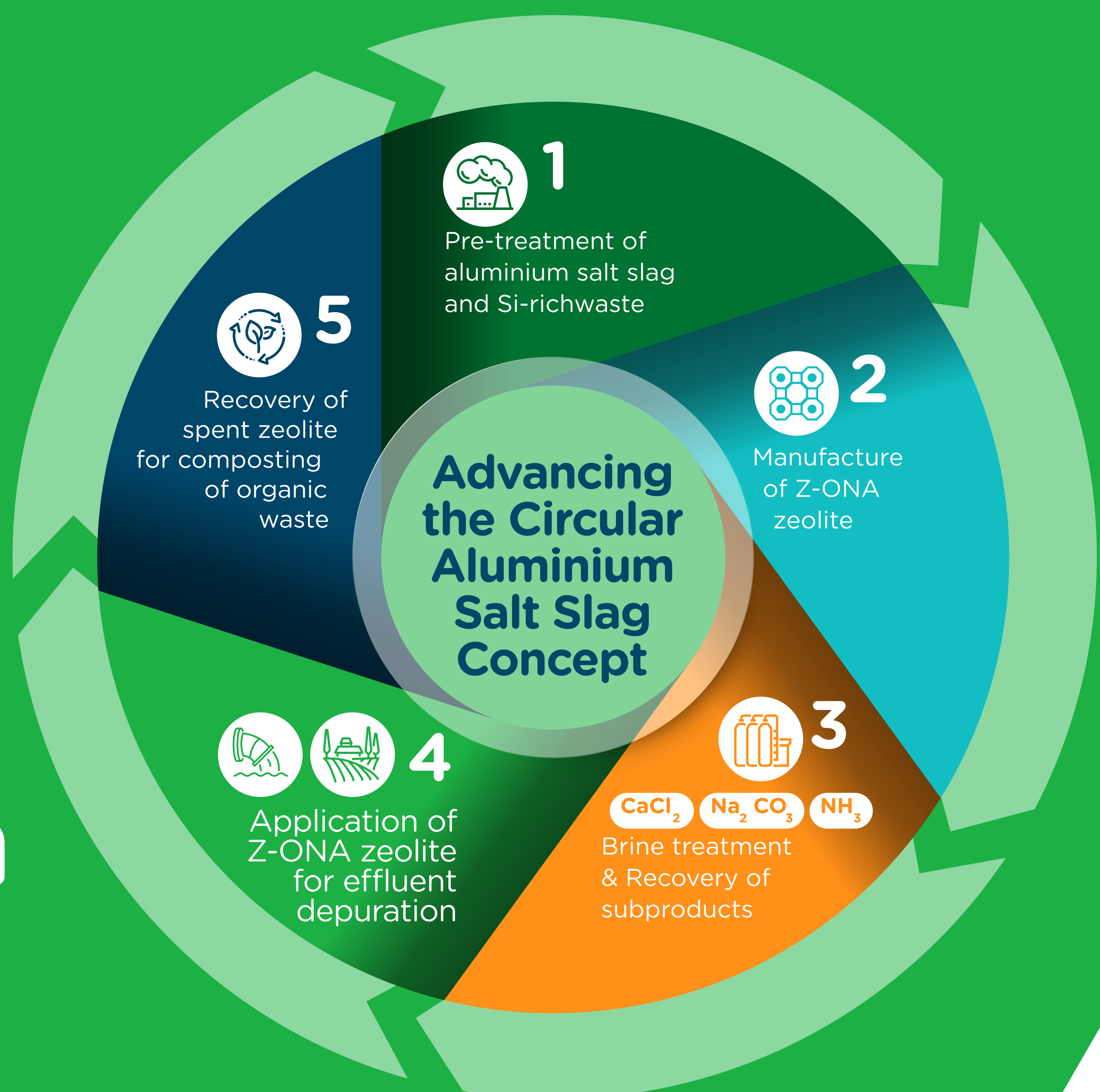
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Embracing a Holistic Approach to Environmental Recovery

The Z-ONA4LIFE project is based on a circular model, in which waste generated by an industrial sector is transformed into value-added materials, which are in turn used to solve environmental problems in the same or other industrial sectors.

Furthermore, the project leverages a coordinated set of opportunities for all stakeholder groups to engage with the initiative and international partnership models enabling all actors to benefit from the project activities involving them in discussions, workshops and best practices.

With Z-ONA4LIFE, the EU takes a bold step towards a more sustainable and circular future for the aluminium industry, setting a precedent for global environmental stewardship.



About Z-ONA4LIFE

Z-ONA4LIFE is led by a complementary Consortium of partners. All partners aim at leveraging on their areas of expertise to ensure development of a competent and varied community of stakeholders around the aluminium value chain:



CSIC through the MEDES group of the Institute of Construction Science “Eduardo Torroja” (IETcc-CSIC) as coordinator of the project, leads the consortium in which the following partners participate. CSIC, as only scientific partner, provides its scientific expertise and knowledge, essential to achieve the project’s objectives.



ALUSIGMA contributes to the Z-ONA4LIFE project with its knowledge of the behaviour of salt slag, processing needs and storage, and hosts the pilot plant for the synthesis of zeolites from its salt slag.



INDEREN provides its knowledge and experience for the construction of the Z-ONA zeolite pilot manufacturing plant and the design and installation of a demonstration plant for the use of zeolites in the purification of effluents.



FERROSADIM is responsible for the operation and control of the activities to be carried out in the zeolite synthesis pilot plant.



COGERSA leads the activities related to the application of zeolites in wastewater and gas purification.



COMMpla carries out the digital and technological activities related to the dissemination and communication of the project results.



Trust-IT Services leads the international market analysis, business modelling and exploitation scheduling.



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