

On the 1st of October 2020 was launched **REEScue project, under ERANET-ERAMIN 3- REEScue: Integrated process for the recovery of Rare Earth Elements and Scandium from Bauxite Residues, under ERANET-ERAMIN 3- REEScue**, by Program PN III National Research, Development and Innovation Plan 2015-2020 European and International Cooperation, **through the Executive Unit for the Financing of Higher Education, Research and Innovation (UEFISCDI) from Romania, through the financing contract 182/2020.**

Summary of the stages – degree of achievement of the estimated results

Completed stages of the Implementation Plan

No. crt.	Year	Stage The name of the activity Partner	Verifiable estimated results of the activity Activity category Partner activities	Stage completion date	The degree of achievement of the estimated results	Achievements of the results
1	2020	Stage 1 - Sampling and transmission for the analysis of Alum bauxite residue, centralization and monitoring of the results of analytical determinations, construction of the project website according to the WP8 work package.	The transmission of ALUM bauxite residue samples and the start of the construction of the project website according to the work package WP8.	31/12/2020	100%	Achieved <ul style="list-style-type: none"> ALUM bauxite residue samples were taken, homogenized, conditioned and sent for analysis to the University of Athens. The construction and development of the project website has begun: www.reescue.com
2	2020	Activity 1.1 - Sampling and transmission for the analysis of Alum bauxite residue, centralization and monitoring of the results of analytical determinations, construction of the project website according to the work package WP8.	Industrial research in effective collaboration with the dissemination of results		100%	Achieved <ul style="list-style-type: none"> Bauxite residue samples from Greece, Turkey and Romania were sent and analyzed; The bauxite residues were characterized from a chemical, mineralogical and granulometric point of view for industrial research in collaboration with the entities participating in the project.

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3	2020	1.1.1 ALUM SA	Sampling and transmission for the analysis of Alum's bauxite residue, centralization and monitoring of the results of analytical determinations, construction of the project website according to the WPS work package.		100%	<p>Achieved</p> <ul style="list-style-type: none"> • Alum bauxite residue samples were taken, homogenized, conditioned, transmitted, characterized from a chemical, mineralogical and granulometric point of view for industrial research. • The construction and development of the project website has begun: www.reescue.com
4	2021	Stage 2 – Technical-economic analysis of the processes	Reporting the results of the technical-economic analysis and the life cycles of the processes	31/12/2021	100%	<p>Achieved</p> <p>The results of the technical-economic analysis and the life cycles of the processes were presented, reported and disseminated by publication on www.reescue.com within:</p> <ul style="list-style-type: none"> • Plenary Meeting No. 1 from 26.03.2021 and • Plenary Meeting No. 2 of 26.10.2021
5	2021	Activity 2.2-Technical-economic analysis of the proposed recovery methods for the targeted critical materials from all three types of bauxite	Industrial research in effective collaboration or with the dissemination of results		100%	<p>Achieved</p> <p>In order to disseminate the results of the project, between 5-9.09.2021 NTUA participated, in Athens, in the International Conference on Raw Materials and the Circular Economy RawMat2021 with a paper accompanied by a presentation entitled "Preliminary characterization of 3 types of metallurgical bauxite residues"</p>

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6	2021	2.1.1. ALUM SA	Technical-economic analysis of the recovery methods proposed for the targeted critical materials from all three types of bauxite Identification and evaluation of the impact of the individual activities of the 100% developed processes		100%	<p>Achieved</p> <ul style="list-style-type: none"> • Alum participated in the presentation, reporting and implemented the dissemination by publication on www.reescue.com of the project results related to the technical-economic analysis and the life cycles of the processes within: <ul style="list-style-type: none"> • Plenary Meeting No. 1 from 26.03.2021 and • Plenary Meeting No. 2 of 26.10.2021
7	2022	Stage 3 - Circular economy and analysis of life cycles of processes	The analysis of the fulfillment of the principles of the circular economy correlated with the analysis of the life cycles of the processes	31/12/2022	75%	<p>Partially Achieved</p> <p>The fulfillment of the principles of the circular economy was analyzed, correlated with the analysis of the life cycles of the processes, and the results were discussed and disseminated on www.reescue.com within:</p> <ul style="list-style-type: none"> • Mid-Term Review Webinar of ERA-MIN 2 Call 2019 projects - TOPIC 3: Processing, Production and Remanufacturing from 8.06.2022 • Plenary Meeting No4 November 18th, 2022
8	2022	Activity 3.1 - Analysis of the fulfillment of the principles of the circular economy correlated with the analysis of the life cycles of the processes	Industrial research in effective collaboration or with the dissemination of results		75%	<p>Partially Achieved</p> <p>As part of the dissemination activities, the article presented between 5-9.09.2021 at the International Conference on Raw Materials and the Circular Economy RawMat2021, was published in the scientific</p>

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						journal "Materials Proceedings" (https://www.mdpi.com/2673-4605/5/1/66) and NTUA is in the process of publishing a scientific paper with the title "Hydrothermal Treatment/Magnetic Separation" in the journal "Journal of Sustainable Metallurgy".
9	2022	3.1.1 ALUM SA	The analysis of the fulfillment of the principles of the circular economy correlated with the analysis of the life cycles of the processes		75%	Partially Achieved The fulfillment of the principles of the circular economy was analyzed correlated with the analysis of the life cycles of the processes and the results were disseminated by publishing the presentations on www.reescue.com : Plenary Meeting No4 November 18th, 2022