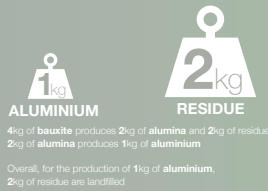


ENSUREAL

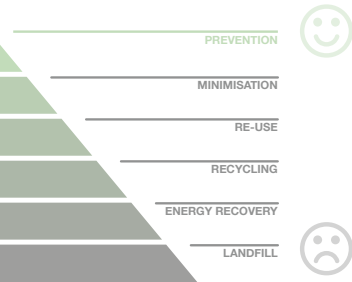
SUSTAINABLE ALUMINA PRODUCTION

Ensuring zero waste production of Alumina in Europe

The aluminium industry is still heavily invested in traditional waste generating processes



PREVENT
waste generation in alumina production



- 120 mill. tonnes of bauxite residue are produced yearly
- Quality of bauxite is decreasing it now has more Fe and less Al
- Europe is now dependent on imported bauxite and alumina



ALUMINIUM is an important strategic resource for Europe

ENSUREAL's method:

- decreases supply risk by using european bauxite
- creates new jobs
- is environmentally conscious



- Greater variety of final products from the mined bauxite
- Uses bauxite and other varieties of ore, not economically exploited up to now
- Cross-sectorial approach: aluminium, iron, agriculture and lime

- Lower energy consumption
- Lower CO₂ emissions with use of biocarbon
- No waste production, no need for residue disposal



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Logos of project partners: SINTEF, ALUMINIUM OF GREECE METALLURGY BUSINESS UNIT, NTNU Norwegian University of Science and Technology, KON Chemical Solutions, ITRB GROUP, AdMiRIS, CaO HELLAS, Outotec, SMS group, LUVENA, COLUWIE POLSKA S.A., WAVESTONE.