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Geobiociências, Geoengenharias e Geotecnologias

SC5-13-2016: New solutions for sustainable production of raw material (RIA)s

<u>We want to join a consortium.</u>

What we do

- *Geological (inc. Geophysical and Geochemical) survey, technological properties assessment and beneficiation of industrial minerals/rocks and clays (increasingly used to produce commodities of paramount importance, such as: construction materials, paper, plastics, ceramics, paint, etc.).*
- *Development of new applications and new products: white mineral fillers, aggregates for concrete, assessment of special clays sealers/liners in waste disposal.*
- *Development of new additives (special clays, zeolites, diatomites) for GEOPOLYMERS (based mainly on metakaolins).*
- *Environmental issues (wastes incorporation, hazardous events, coastal pollution and erosion, and soil degradation); environmental geotechnics.*

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What we look for

- *We are interested in projects focused on:*
- *WASTES INCORPORATION and LOW GRADE MINERAL RAW MATERIALS BENEFICIATION*
- *NEW BLENDS (special clays, zeolites, diatomites) FOR GEOPOLYMERS DESIGNED FOR CONSTRUCTION MATERIALS OR SORPTION MATERIALS*
- *Upstream wastes characterization for incorporation on geomaterials.*
- *Downstream (pre-)industrial development of new applications and/or products.*
- *Concerning MARINE MINERAL RESOURCES, we are looking to identify and characterize their potential for traditional and innovative industrial applications, and to characterize their importance in the preservation and in the development of the fishery resources, in particular during the habitat strongly dependent phases of incubation, nursery and feeding (natural and/or artificial areas for reproduction and feeding).*

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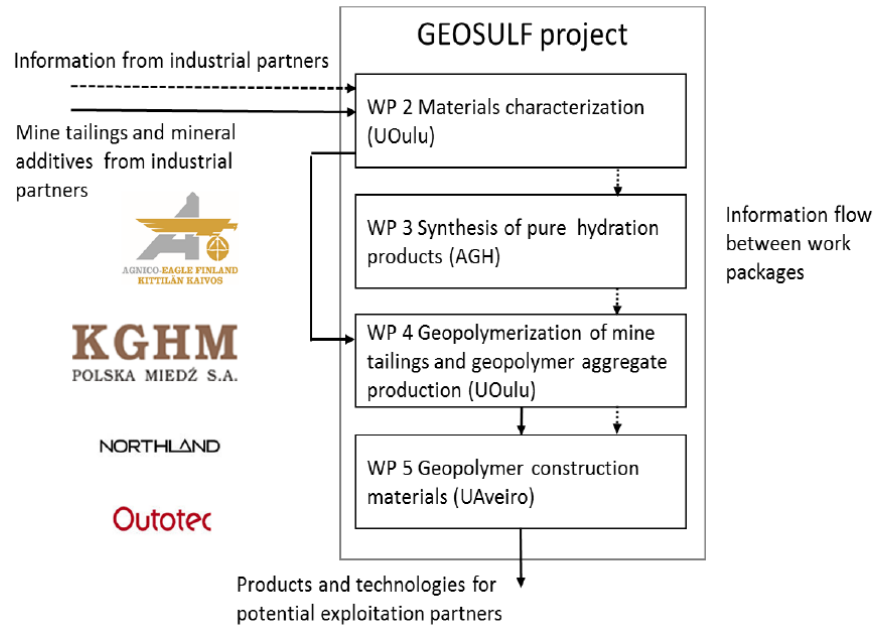
ERA-MIN 2014

UTILIZATION OF SULFIDIC MINE TAILINGS IN GEOPOLYMER MATERIALS (GEOSULF)

APPROACH: The GEOSULF-project aims at stabilization of sulfidic mine tailings into a geopolymer structure and utlization of sulfidic mine tailings in novel construction products.

Contribution of participants



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