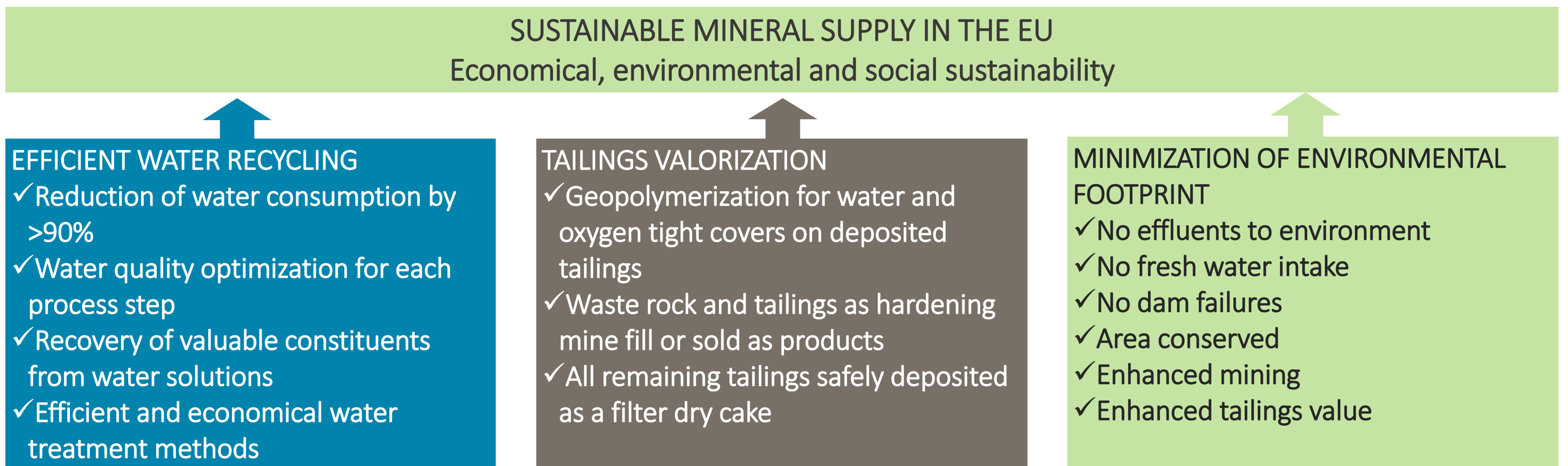


ITERAMS: REINVENTING THE ROLE OF WATER AND WASTE IN MINING



ITERAMS AIM

The aim is to develop and obtain a **NEW PARADIGM PROOF OF CONCEPT** at mine sites to

- recycle water and
- valorise tailings
- for an improved environmental and economic result to enable future sustainable mineral supply in Europe.



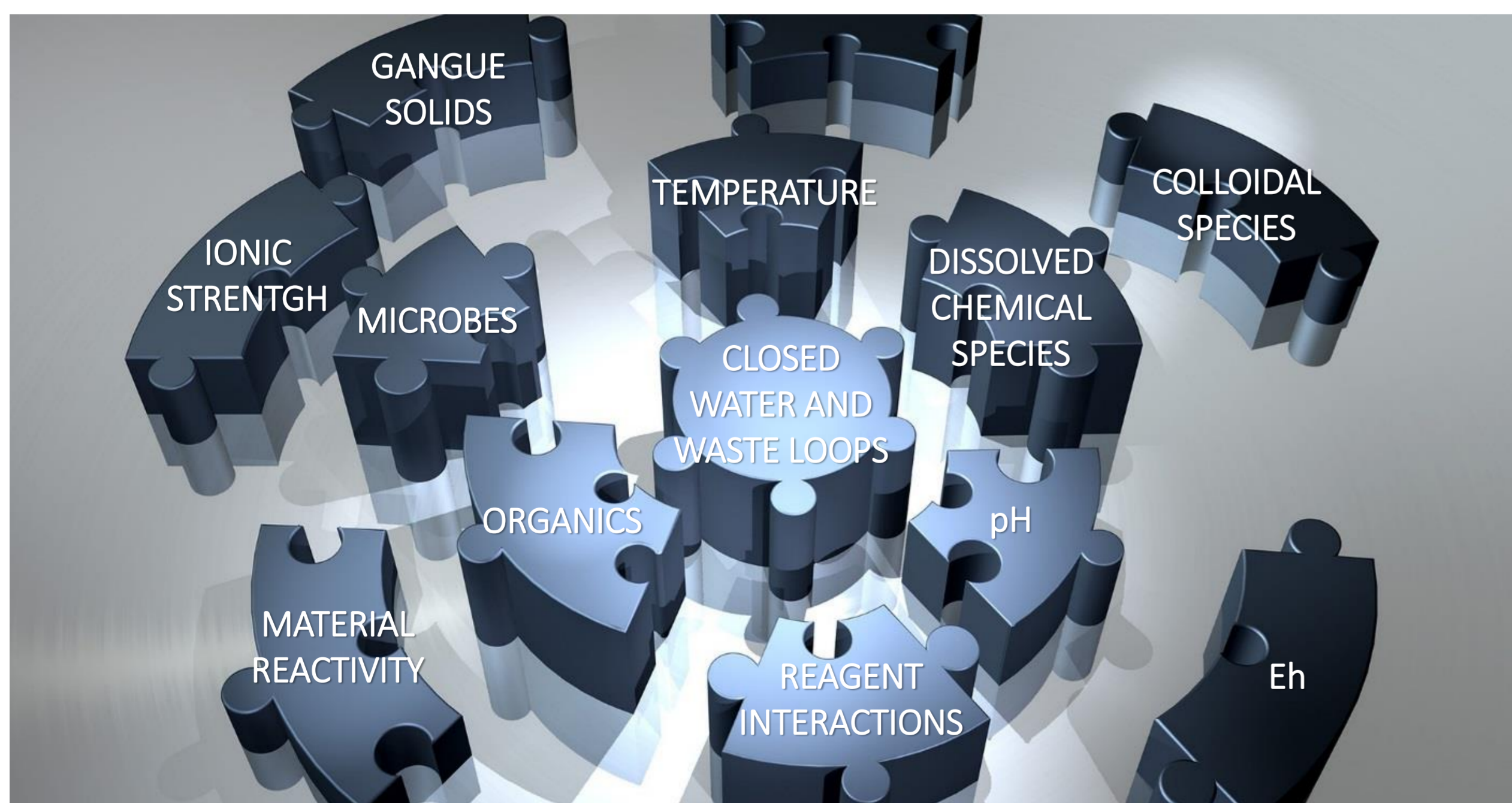
From water handling cost minimization
 ↓
 to taking care of water properties and optimizing these properties for each process step. New water reuse concepts.



From depositing waste rock and tailings
 ↓
 to utilizing waste rock and tailings for added revenue as hardening mine fill or products. New ways of safe depositing of remaining tailings.

CHALLENGE

Complete closure of water loops increases thermodynamical and kinetic instability and process disturbance. ITERAMS creates capabilities via laboratory experiments, modelling and validation at mine sites to tackle this complexity.



CONCEPT VALIDATION

The developed ITERAMS water and waste efficient concepts are jointly validated by industrial and research partners at their mine sites. Three sites at Boliden (Finland), Somincor (Portugal) and Anglo American (Chile or South Africa) were selected to validate the results in various conditions, for example in various mineralogical and geographical areas. Information from laboratory tests, process assessment and technology validation is used for the development of the water recycling testing protocol.

PROJECT DATA AND CONSORTIUM

ITERAMS addresses H2020 issue "Sustainable selective low impact mining"

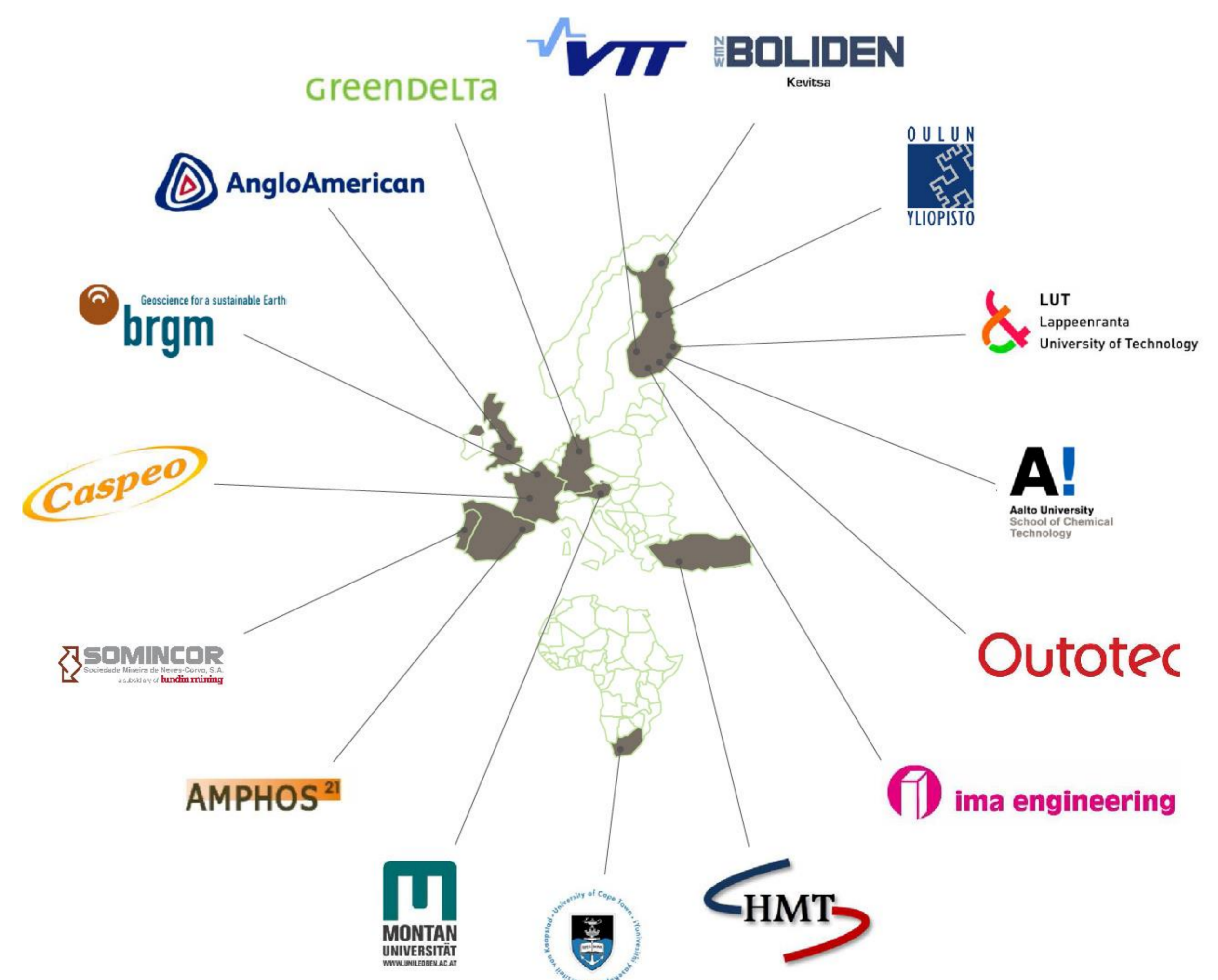
3 years: 1.6.2017 – 31.5.2020

Budget: 7.9 M€

16 partners

9 industrial partners, 2 RTOs and 5 universities from 7 EU Member States (Finland, France, Austria, Germany, United Kingdom, Spain and Portugal) and additionally from Turkey and South Africa. VTT coordinates the project.

www.iterams.eu



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