



RAW MATERIALS SUMMIT 2022

THE STATUS OF THE EUROPEAN RARE EARTHS AND MAGNET INDUSTRY

Tuesday, May 24th 2022

From mid90_s to 2022 China built its monopoly on Rare Earths



Ongoing Projects in Europe

Potential Rare Earth projects (source ERMA)

Mining : Several projects in Northern Europe

Rare Earth Separations technologies

- New separations units for light rare earths (Poland, UK, Estonia (debottlenecking))
- New separations units for heavy rare earths (Carehub France)
- New separation technology (Norway, Ireland)

Metal making

- o Debottlenecking in UK
- o New unit in Estonia

Magnets making

- Debottlenecking project in Germany, Slovenia
- \circ $\,$ New unit in Estonia

Recycling

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- Short loop : UK, France
- Long loop : Caremag



Key success factors to growth?

For Mining

- A long term vision & help to support high capital intensive projects CAPEX investments translated quickly into actions
 e.g.: Lynas (JOGMEG), Iluka (AUS), MP Materials (« Grand Strategy » in US)
- Minerals which have already been industrially operated ...
 ⇒ Monazite, Bastnaesite, Ionic Clay, Xenotime Polymetallic ores add complexity
- ... or Minerals where Rare Earth is a co-product Helps to facilitate treatment and reprocessing (recovery of a waste product) Increases societal acceptability

For Recycling

- Access to Resource : Used Magnet is the best possible ore to make magnets again
 - Keep products in Europe : regulation can be an enabler
 - Favor magnet recycling instead of letting it going to wastes
- Innovation : Develop innovative processes that will create Economic differentiation Ecological Differentiation (CO2, Energy, Wates)
- A long term vision to bring financial support that Industry needs to build up capacity while applications are ramping up

Recycling will exist in the future and Europe has all cards in hand to become a reference : let's do it

Necessary to accompany the growth in demand



A must for the future of our Planet



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Both are linked & has to be promoted and supported

CARESTER projects combining Recycling and Heavy Rare Earth concentrates from Mines from end 2024





« As for the future, your task is not to foresee it, but to enable it.»

Antoine de Saint-Exupéry



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Acting for our children