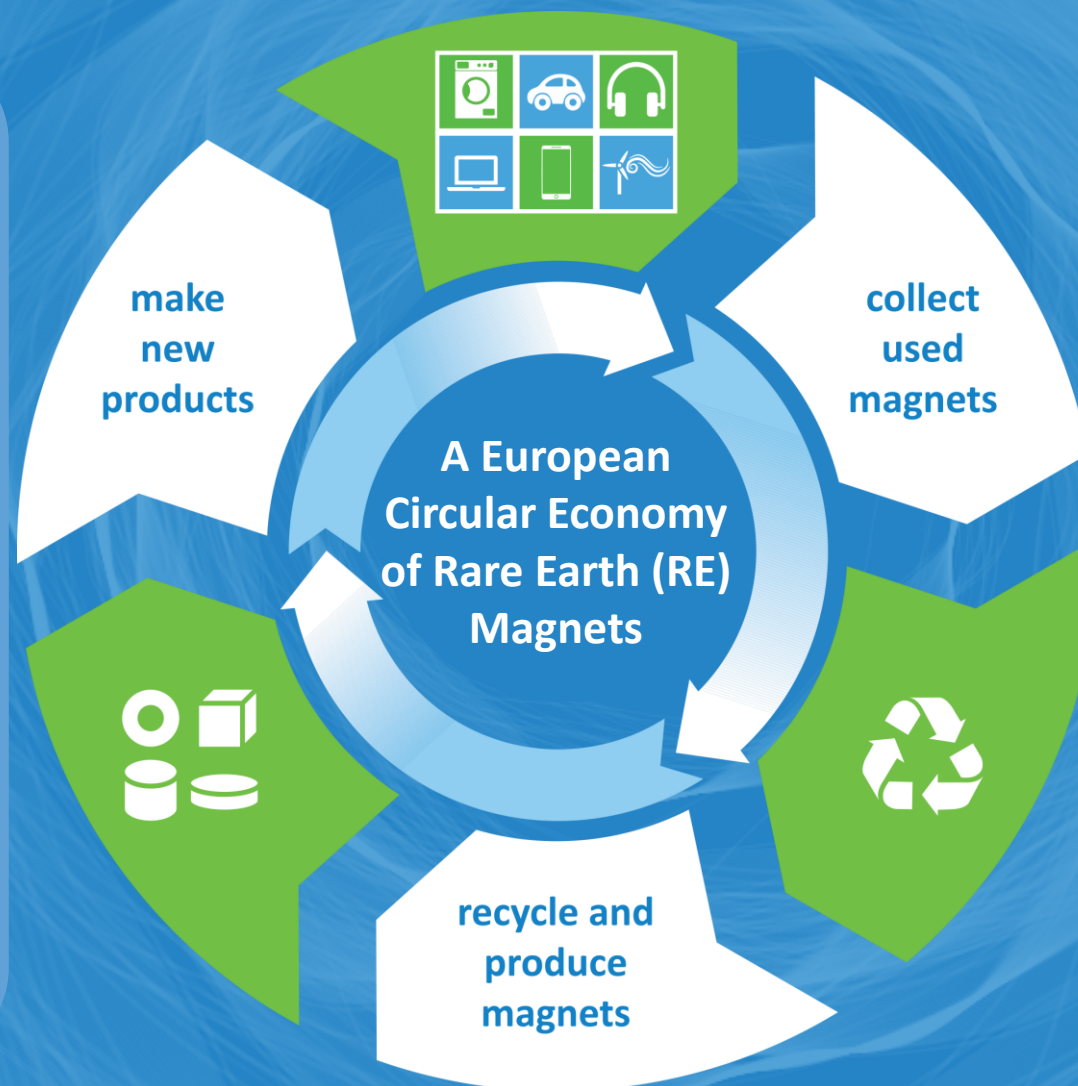


**SUSMAGPRO** stands for Sustainable Recovery, Reprocessing and Reuse of Rare Earth Magnets in a Circular Economy. The project has introduced new ways to recycle magnets directly from waste, creating a shorter recycling loop with a higher recovery rate and increased yield (25 %) compared to traditional methods.

## Recycling Benefits

- **Waste reduction**
- **Lower environmental impact**
- Can be **cost-saving** on a large scale
- **Equal performance** of recycled magnets in loudspeakers and motors could be proven
- **Reduced dependence** on imports
- **Employment opportunities**



Environmental impact of large-scale recycling compared to primary magnet per kg NdFeB from sintered speaker magnets



65% less GHG emissions  
28 kg CO<sub>2</sub> – eq



70% less water use  
(322 L)



58% less energy (412 MJ, fossil fuels)



60-70% less toxic to humans and freshwater ecosystems

Find out more:



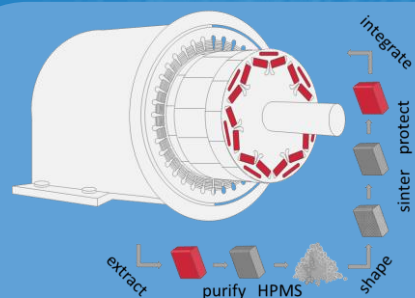
[www.susmagpro.eu](http://www.susmagpro.eu)

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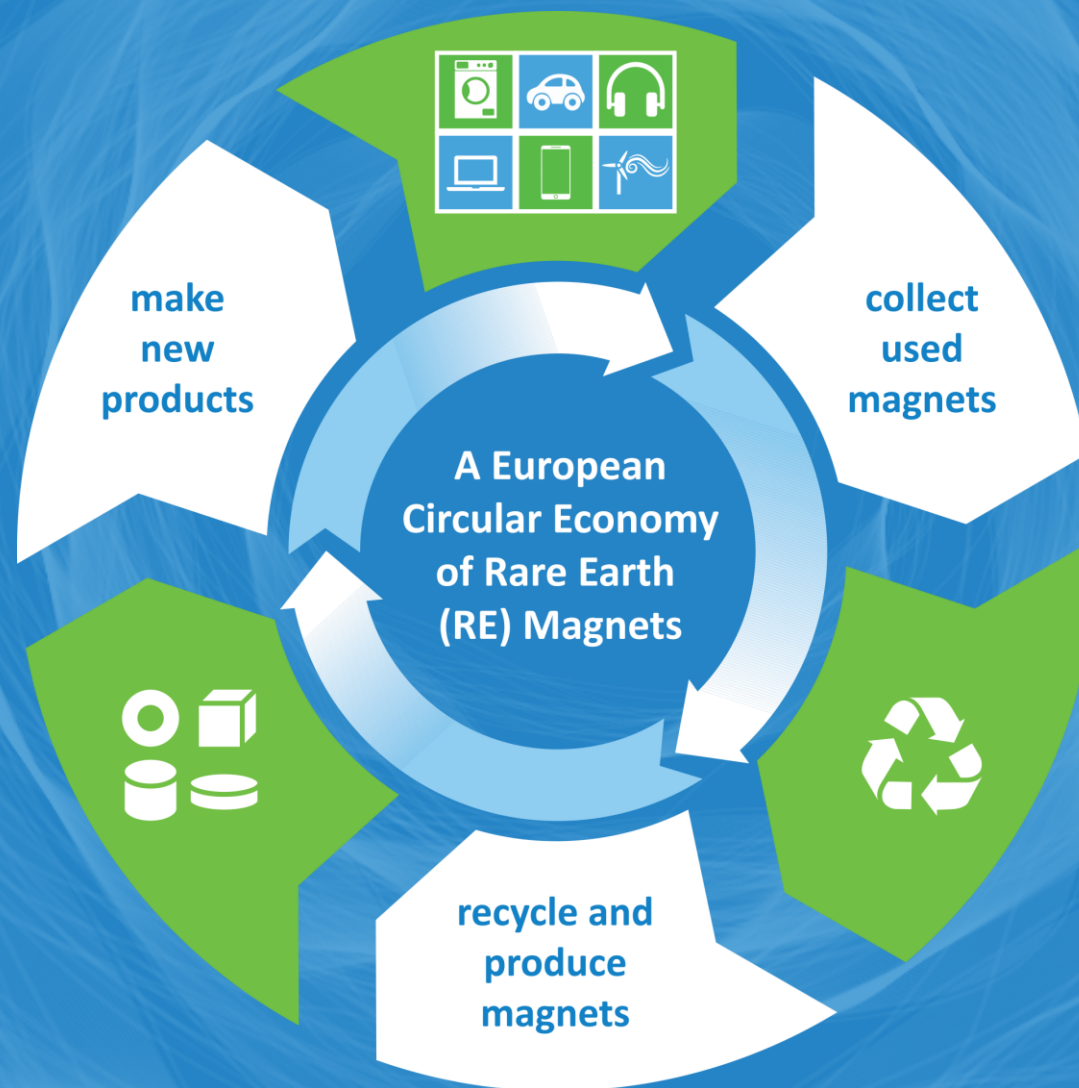
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**Demonstration in new products and Design for Recycle recommendations**



**Reprocessing via 4 routes:  
Sintering, HDDR/Polymer-bonding, Shaping-Debinding-Sintering, Recasting**



**Automated separation of NdFeB magnets from End-of-Life products**



**Short-loop recycling via Hydrogen Processing of Magnet Scrap (HPMS)**