



2nd Seminar – Delft, the 6th December 2022

Welcome



Jan-Henk Welink - TU Delft



Co-funded by the European Union



PROGRAM

14:00 – 16:30 Session on "Magnets matters" - Current collaborative projects on permanent magnets and recycling

- 14:00 14:30 SUSMAGPRO project B. Saje (Kolektor)
- 14:30 14:50 UPGRADE project C. Rado (CEA)
- 14:50 15:10 DysCovery Sustainable REE, Co supply from magnet recycling: closing the loop JH Welink (TU Delft) for B. Orberger (Catura Geoprojects)

15:10 – 15:30 – Break

15:30 – 16:15 – Questions/Answers on magnets recycling and current EU initiatives

16:15 – 16:30 – Conclusion of the seminar





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Sustainable REE, Co supply from magnet recycling: closing the loop

2022-2024

Project Number 21028



Consortium: Greece, Germany, Slovenia, Italy, France





This activity has received funding from the European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation



DysCovery's Vision:

Increasing the EU permanent magnet recycling capacity by 30%

DysCovery's Mission:

Setting up the first permanent magnet recycling plant at MONOLITHOS (Greece) in South-eastern Europe.





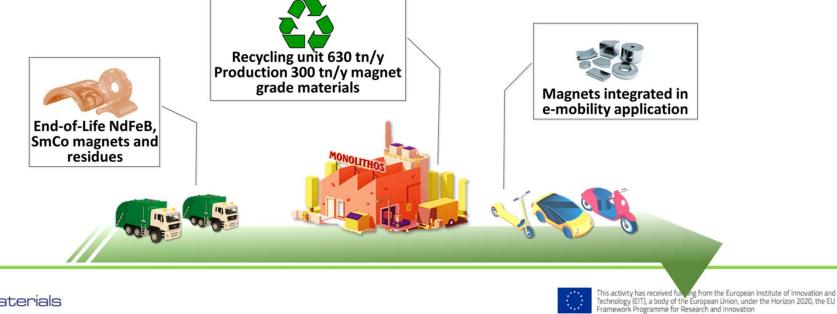
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BUSINESS MODEL and strategy



Extraction of Nd, Dy, Sm, Co &Fe from End-of-Life (EoL) permanent magnets, sludges, swarf in particular for EU permanent magnet producers serving the automotive industries

MONOLITHOS (GREECE), specialized in waste recycling, will start the new recycling plant in 2025.

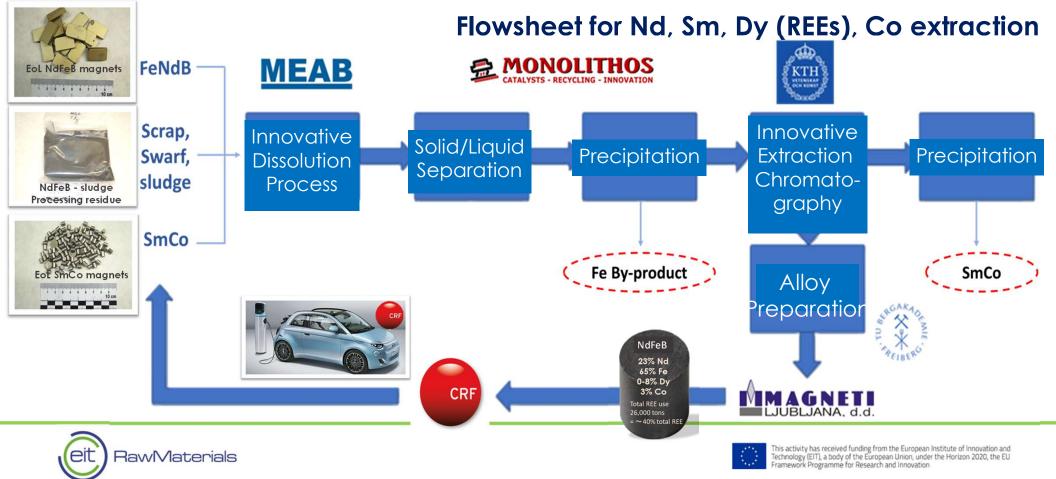




INNOVATION



Innovative processing without H₂ production TRL 5-6 Upscaling to TRL8



INNOVATION GREEN REE recycling



Hydrogen-free metal leaching patented by MEAB, Germany

Extraction chromatography metal separation by KTH, Sweden

Molten salt electrowinning by TU Freiberg, Germany





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Q & A

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