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Clustering workshop “Production of raw materials for batteries from European resources (2022-11-14)”

This project has received funding from the European Union's EU Framework Programme for Research and Innovation Horizon Europe under GA No 101058124

<https://enicon-horizon.eu/>



Overview of ENICON



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Project Coordinator:

KU Leuven – Koen Binnemans
(SOLVOMET)

Official Starting date

June 1st 2022

Pre-kick-off meeting:

(online) 10th June 2022

Kick-off-meeting

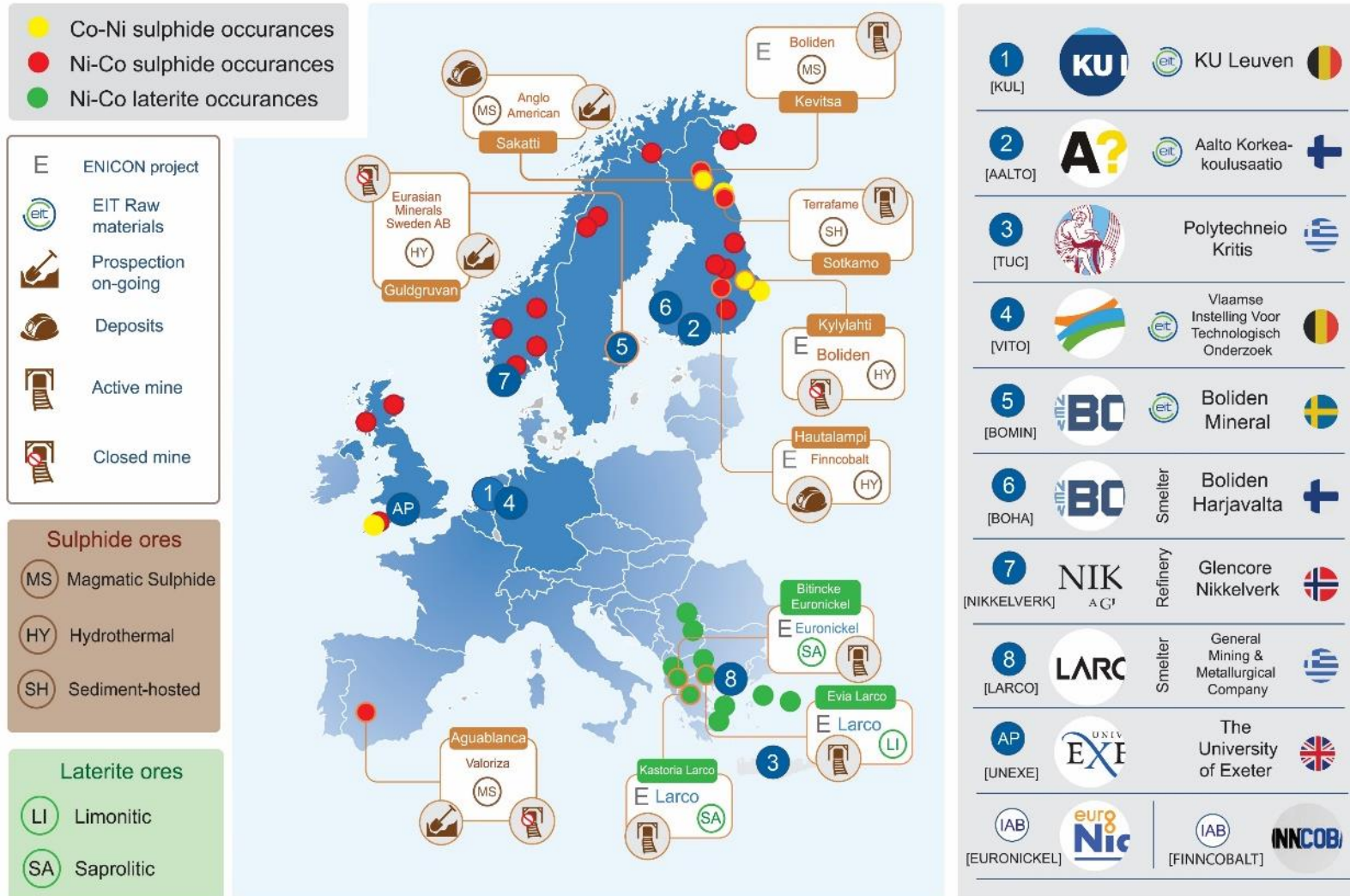
(Leuven, Belgium), 12th, 13th September
2022



The ENICON consortium



3

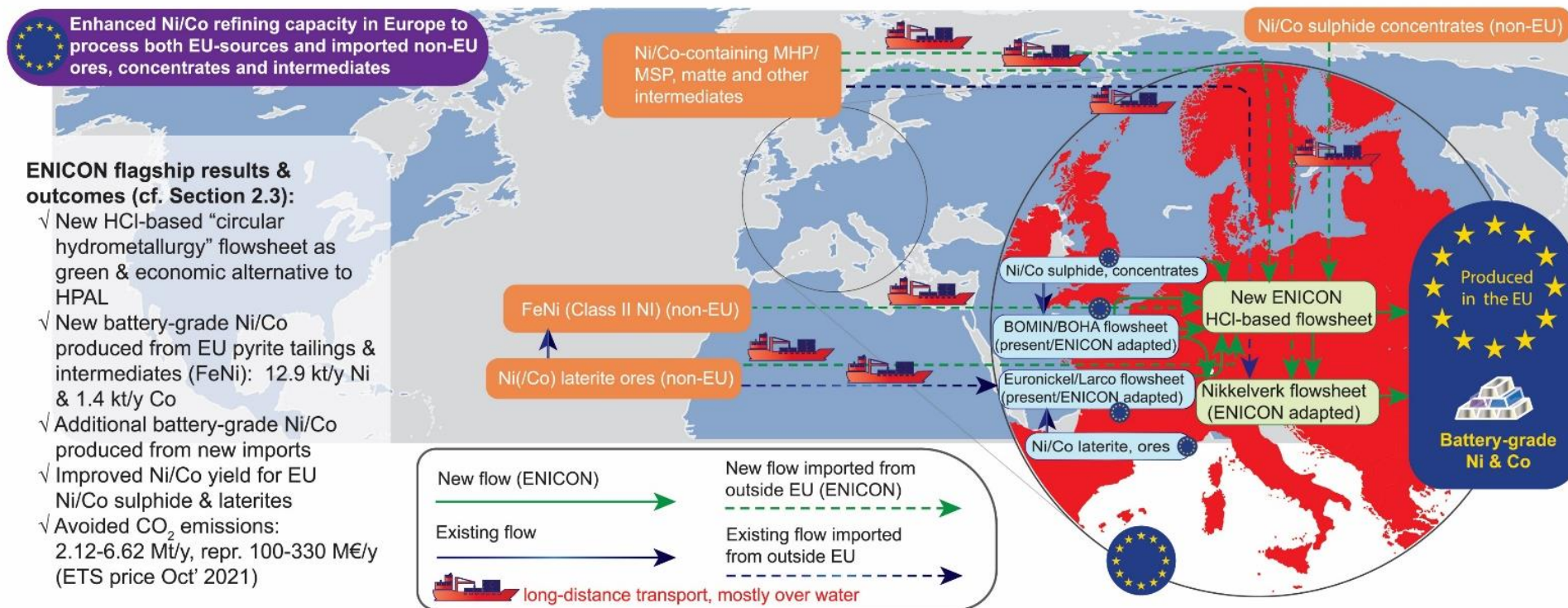


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ENICON: Graphical Abstract



4



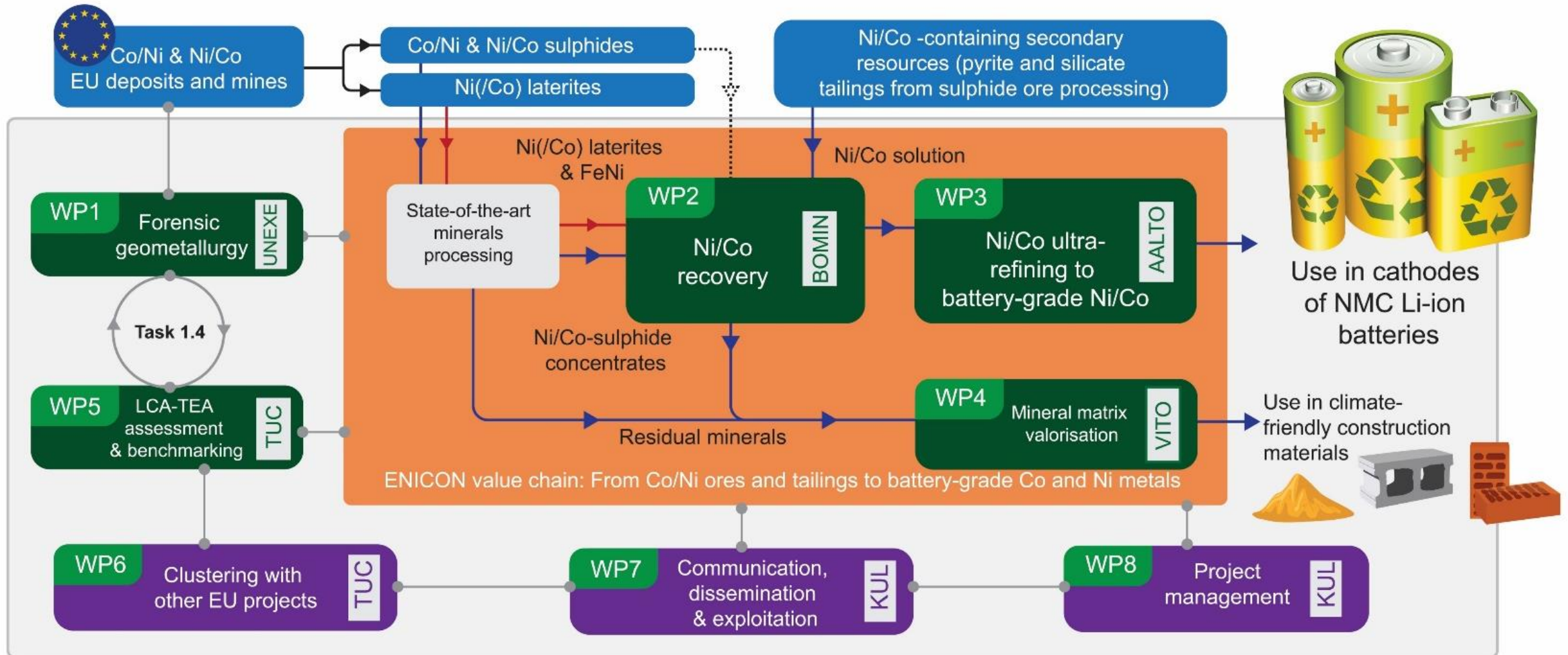
ENICON’s objective is (...) the improvement and development of, resp., existing and new refining capacity for battery-grade Ni and Co (...) to process both domestic and imported Ni/Co primary and secondary resources



ENICON Work Packages



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<https://enicon-horizon.eu/>



Sustainable processing of Europe's low-grade sulphidic and lateritic nickel/cobalt ores and tailings into battery-grade metals



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ENICON

Sustainable processing of Europe's low grade sulphidic and lateritic Ni/Co ores and tailings into battery grade metals

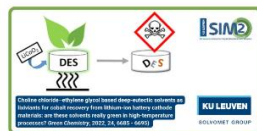
ENICON Team Is Working Towards Flagship Results & Outcomes

Enhanced Ni/Co refining capacity in Europe to process both EU-sources and imported non-EU ores, concentrates and intermediate

- ✓ New HCl-based "circular hydrometallurgy" flowsheets as green and economic alternative to HPAL
- ✓ New battery-grade Ni/Co produced from EU pyrite tailings & intermediates (FeNi)
- ✓ Additional battery-grade Ni/Co produced from new imports
- ✓ Improved ni/Co yield for EU Ni/Co sulphide & laterites
- ✓ Avoided CO₂ emissions

[LEARN MORE ABOUT ENICON PROJECT →](#)

Latest News & Articles



How Green Are Choline Chloride-Ethylene Glycol Based Deep-Eutectic Solvents?

2 September 2022

SOLVOMET/SIM2 researchers have demonstrated in the journal Green Chemistry that choline chloride-ethylene glycol based deep-eutectic solvents (DESs) are not stable during high-temperature leaching processes for cobalt recovery.

[Read More »](#)



Four Lessons Learned From PROMETIA Tech Tour 2022 - Northern Sweden

2 September 2022

During 4 days, young students and researchers from 9 different institutions gathered in Sweden to visit mines, smelters, R&D centers and industrial plants. Here is the report of Carlos Quintero (SOLVOMET/SIM2 KU Leuven).

[Read More »](#)



SIM2 Wins Prestigious EU Project On By-Product Recovery From Li Mining (EXCEED)

2 September 2022

SIM2 KU Leuven has secured Horizon Europe funding for the IA EXCEED project, which stands for "Cost-effective, sustainable and responsible extraction routes for recovering distinct critical metals and industrial minerals as by-products from key EU hard-rock lithium projects".

[Read More »](#)



Metals For Clean Energy: Pathways To Solving Europe's Raw Materials Challenge (Report)

20 July 2022

"Metals for Clean Energy: Pathways to solving Europe's raw materials challenge", that's the title of the new Eurometaux (European Metals Association) report written by my SIM2 KU Leuven colleagues Liesbet

[Read More »](#)



ENICON Horizon-Europe RIA Project Approved For Funding

2 July 2022

How to provide Europe with a secure supply of battery-grade Ni/Co for our future (NMC) lithium ion battery needs, and thereby decrease its dependency on China, Russia, DRC and Indonesia for these essential energy transition metals?


[Read More »](#)




ENICON LinkedIn page




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**Horizon Europe ENICON** Super admin view


All Pages Content Analytics Activity 4 Admin tools



**Horizon Europe ENICON**
ENICON exploits the potential of Europe's low grade Ni and Co resources while improving its Ni and Co refining capacity
Metal Ore Mining · Heverlee, Flemish Region · **204 followers**

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30
Search appearances
Last 7 days
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Grow your followers

9/250 credits available
Build your audience and reach by inviting connections to follow your Page
Invite connections

**Horizon Europe ENICON**
204 followers
6d · Edited

Welcome to this new LinkedIn Company Page for the EU #horizoneurope ENICON project, which started on June 1, 2022. ENICON stands for "Sustainable processing of Europe's low-grade sulphidic and lateritic nickel / cobalt ores and ta ...see more

- Co-Ni sulphide occurrences
- Ni-Co sulphide occurrences
- Ni-Co laterite occurrences

ENICON project


- EIT Raw materials
- Prospection on-going
- Deposits
- Active mine
- Closed mine

Sulphide ores

- MS Magmatic Sulphide
- HY Hydrothermal
- SH Sediment-hosted

Laterite ores

- LI Limonitic
- SA Saprolitic



1 KU KU Leuven

2 A? Aalto Korkeakoulusäätiö

3 TUC Polytechnico Kritis

4 VTI VTI

5 BC Boliden Mineral

6 BC Boliden Harjavalta

7 NIK Nikkeli

8 LARC LARC

AP EXE The University of Exeter

LAB Nic Nic

LAB NNCOB NNCOB

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www.linkedin.com/company/he-enicon/



- Joint documentary with EU NEMO
“Responsible Mining in Europe”



FULL VIDEO:
<https://vimeo.com/762229908>





THANK YOU!



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