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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 1<sup>st</sup> 2022

## Pre-kick-off meeting:

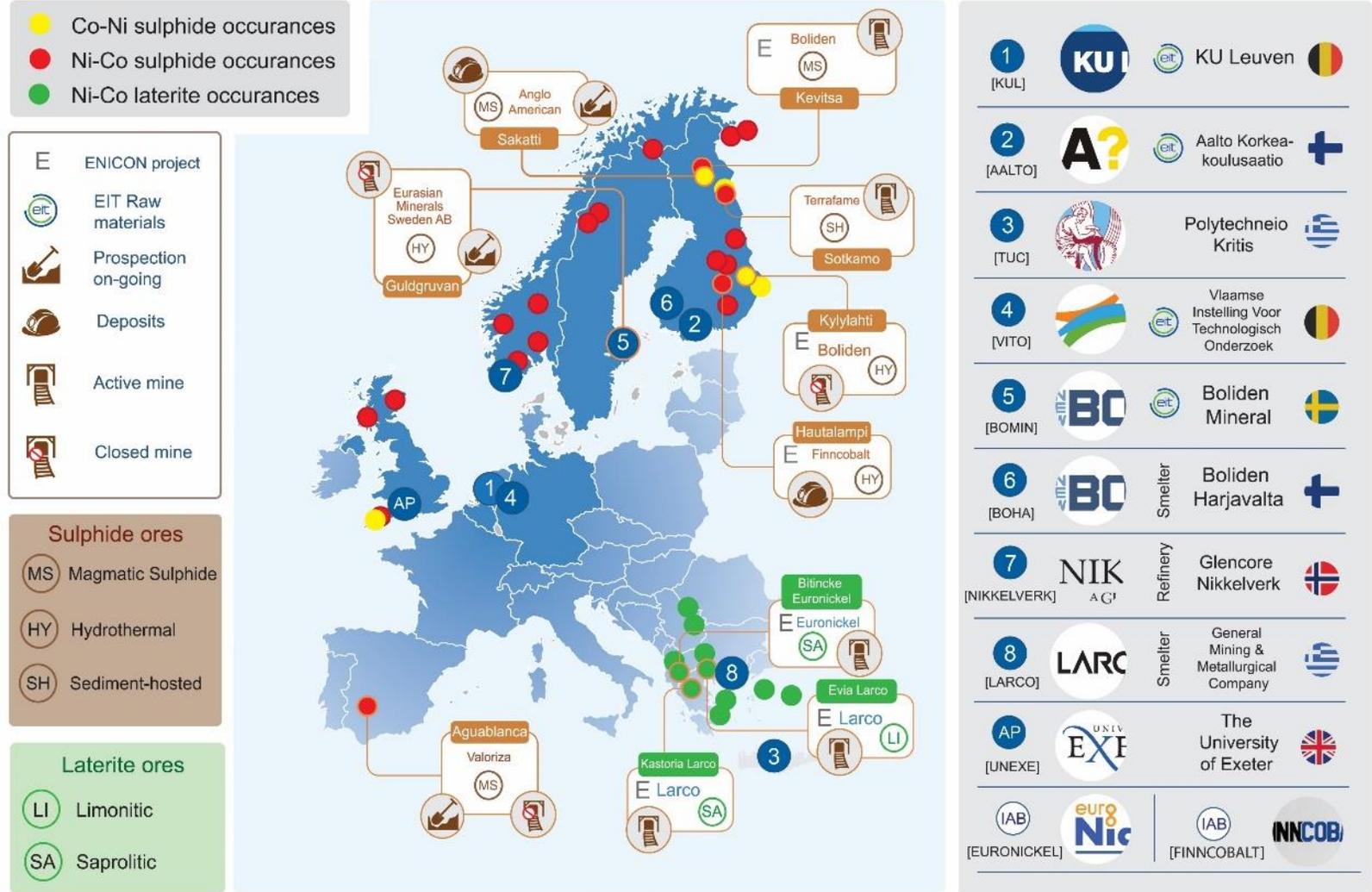
(online) 10<sup>th</sup> June 2022

## Kick-off-meeting

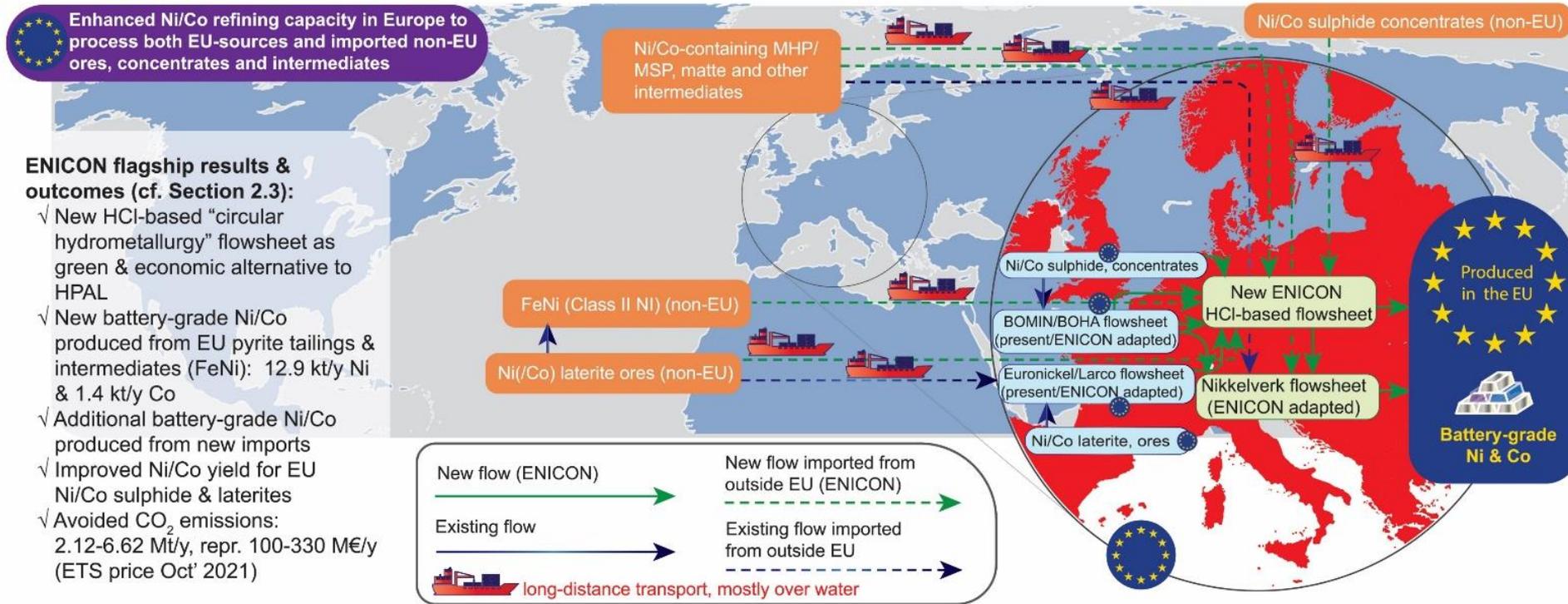
(Leuven, Belgium), 12<sup>th</sup>, 13<sup>th</sup> September  
2022



# The ENICON consortium

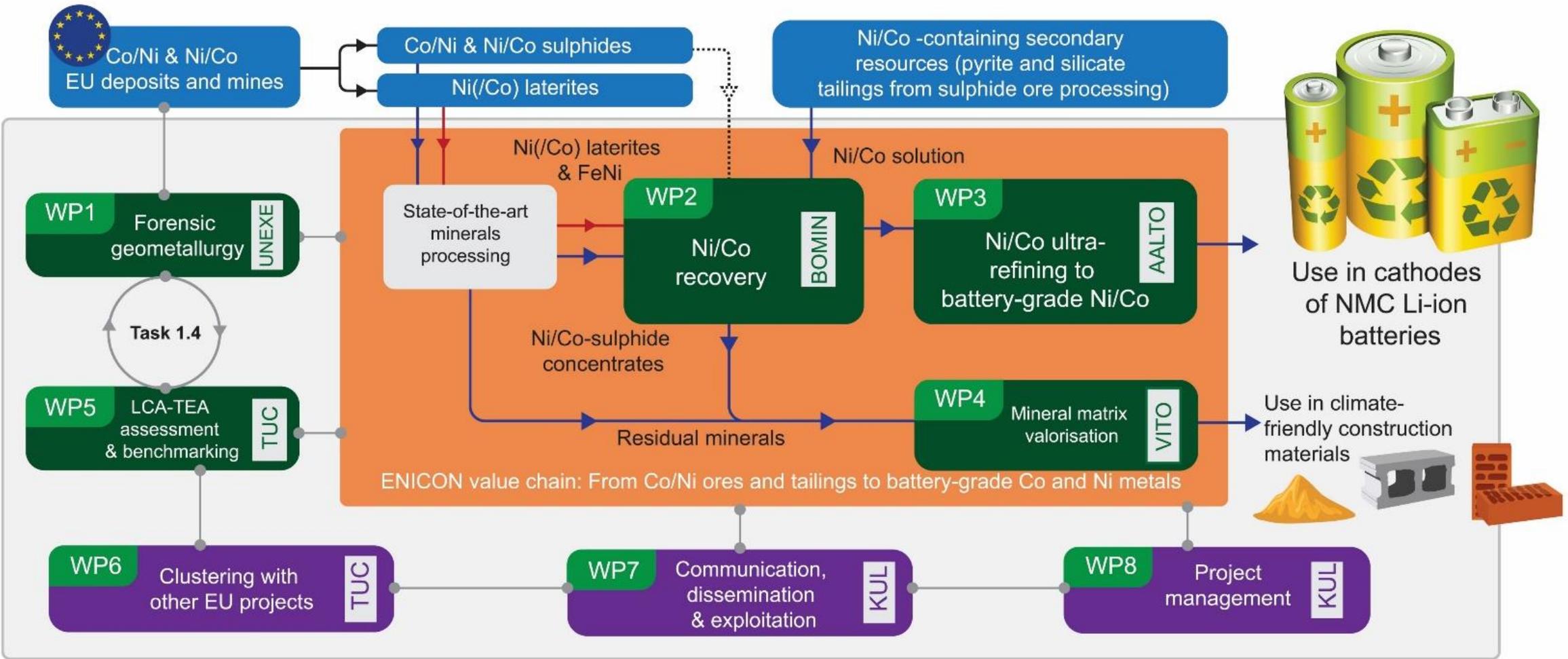


# ENICON: Graphical Abstract



**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



# ENICON website



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



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

HOME PROJECT CONSORTIUM TEAM NEWS CONTACT

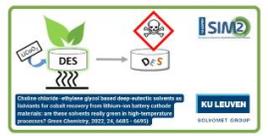
**ENICON Team Is Working Towards Flagship Results & Outcomes**

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 CO<sub>2</sub> 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).

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**APPROVED FOR FUNDING: IA EXCEED**  
2 September 2022

EXCEED: "Cost-effective, sustainable and responsible extraction routes for recovering distinct critical metals and industrial minerals as by-products from key European hard-rock lithium projects"

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".

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**Metals For Clean Energy: Pathways To Solving Europe's Raw Materials Challenge (Report)**  
29 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

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**APPROVED FOR FUNDING ENICON (RIA)**  
2 July 2022

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

**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?

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# ENICON LinkedIn page



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Horizon Europe ENICON Super admin view [View as member](#)

All Pages Content Analytics Activity [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

Analytics  
 Last 30 day activity  
 30 Search appearances  
 Last 7 days  
 100 Unique visitors  
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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

Legend:  
 ● Co-Ni sulphide occurrences  
 ● Ni-Co sulphide occurrences  
 ● Ni-Co laterite occurrences

ENICON project details:  
 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) Saprotitic

Followers list (top 8):  
 1. KU Leuven (KU)  
 2. Aalto Korkeakoulu (A?)  
 3. Polytechnico Kritis (TUC)  
 4. Vrije Universiteit Brussel (VUB)  
 5. Boliden Mineral (BC)  
 6. Boliden Harjavalta (BC)  
 7. Gencoro Nikkelverk (NIK)  
 8. General Mining & Metallurgical Company (LARC)

Engagement: You and 66 others · 1 comment · 9 shares  
 Like Comment  
 Organic impressions: 2,208 Impressions [Show stats](#)

[www.linkedin.com/company/he-enicon/](https://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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