METALLICO



METALLICO Webinar Series

FROM LAB TO PILOT
Lessons learned and future pathways for the five METALLICO processes

How can innovative laboratory research be successfully transferred into pilot-scale applications?

Join the METALLICO webinar, held as part of the METALLICO Final Event, and discover the lessons learned from the development, upscaling and piloting of the five innovative processes developed in METALLICO: PURGES, COOL+, TAILCO, CONI and COMAN. They recover cobalt, nickel, lithium, manganese and copper from primary and secondary resources for the reuse in battery, painting, ceramic and cement industry.

The event will provide insights into the entire journey from laboratory development to pilot implementation. Speakers will present the initial laboratory results, explain how these findings were translated into pilot plants, and discuss the outcomes, expectations and practical challenges encountered during implementation.

In addition, the webinar will explore the broader sustainability and exploitation perspectives of the METALLICO processes, including lessons from early-stage sustainability assessments, life-cycle assessment, techno-economic considerations and future business opportunities.

Swipe to see the agenda

24 November 2026

14:00 - 17:00 CET

online

Funded by the European Union

Organised by

DECHEMA
Gesellschaft für Chemische Technik und Biotechnologie e.V.

FROM LAB TO PILOT LESSONS LEARNED AND FUTURE PATHWAYS FOR THE FIVE METALLICO PROCESSES

24 November 2026 | 14:00 - 17:00 CET | online

Agenda

14:00 – Introduction

The basic concept behind METALLICO – *Ana Lara Quijano (IDENER)*

14:10 – The PURGES Process: recovery of cobalt

Lab fine-tunning of the PURGES process – *Jose Luis Cortina (UPC)*

Upscaling of the PURGES process – *Ana Lara Quijano (IDENER)*

The case study of the PURGES process – *Isabel Serrano Prados (CET)*

14:30 – The COOL+ Process : recovery of lithium

Lab fine-tunning of the COOL+ process – *Doreen Kaiser (TUBAF)*

Upscaling of the COOL+ process – *Sebastian Braune (GEOS)*

The case study of the COOL+ process – *Rubén Rodriguez Alegre (CET)*

14:50 – The TAILCO Process: recovery of cobalt

Lab fine-tunning of the TAILCO process – *Francisco Sánchez Ruiz (CLC)*

Upscaling of the TAILCO process – *Ana Lara Quijano (IDE)*

The case study of the TAILCO process – *Francisco Sánchez Ruiz (CLC)*

15:10 – Q&A

15:20 – Coffee Break

15:35 – The CONI Process: recovery of cobalt, nickel and copper

Lab fine-tunning of the CONI process – *Katarzyna Leszczyńska-Sejda (IMN)*

Upscaling of the CONI process – *Aleksandra Turczyńska (IMN)*

The case study of the CONI process – *Joanna Malarz (IMN)*

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15:55 - The COMAN Process: recovery of cobalt, nickel, copper and manganese

Lab fine-tunning of the COMAN process - *Jose Luis Cortina (UPC)*

Upscaling of the COMAN process - *Ana Lara Quijano (IDENER)*

The case study of the COMAN process - *Tamara Martínez-Santos Manjavacas (THARSIS)*

16:15 - Q&A

16:25 - Validation of the METALLICO processes

Lesson learnt from early-stage sustainability assessments of Critical Raw Materials (CRM) recovery from low grade resources
Gian Andrea Blengini (Polito)

Lessons learnt from early-stage Techno-Economic Analysis and Life Cycle Costs of CRM recovery: A provenance-controlled screening of the five METALLICO processes
Krishna Sankaran (RIG)

16:35 - Q&A

16:55 - Closing Words

Ana Lara Quijano (IDENER)

17:00 - End of the webinar