



JRC / HaDEA Technical Workshop

Leveraging Raw Materials to Strengthen EU Competitiveness: from Research to Innovation

Channelling knowledge from European projects & research initiatives into the Raw Materials Information System (RMIS)

Hybrid event, September 23-24, 2025

Venue address: European Health and Digital Executive Agency (HaDEA), Place Rogier 16, 1210 Brussels, Belgium

Recordings:

Day 1 – 23/09/2025

[JRC/HaDEA Raw Materials Information Systems Workshop – 1st day](#)

Day 2 – 24/09/2025

[JRC/HaDEA Raw Materials Information Systems Workshop – 2nd day](#)

Context and purpose

The EU is stepping up to ever growing political uncertainty: as stated in the Competitiveness Compass, it is high time Europe turned to action and regained its competitiveness and prosperity. To this end, the Commission is taking several flagship measures that overall aim to boost EU competitiveness through a more secure and sustainable management of **critical** and **strategic raw materials**, while also enhancing the use of **advanced materials**. As the demand for these commodities is expected to grow exponentially, the Union still suffers from significant dependencies and an apparent innovation gap.

To tackle these challenges, the EU is responding with a series of concrete measures and targets, which are at the backbone of recent (and forthcoming) policy documents: the 2024 **Critical Raw Materials Act** (CRMA) and **Communication on Advanced Materials for Industrial Leadership**; the 2025 **Clean Industrial Deal** and **Steel and Metal Actions Plan**; the already announced 2026 **Circular Economy Act**. For instance, the CRMA aims to ensure that European extraction, processing and recycling of strategic raw materials meet 10%, 40% and 25% of EU's demand by 2030, respectively.

The successful implementation of the actions included in these policy documents requires fulfilling knowledge needs related to a wide range of aspects: supply, demand, foresights, circularity, and environmental footprint of raw materials – among others.

Against this background, this workshop continues the well-established, annual meeting point for the EC, HaDEA, EU-funded projects, as well as academia and other key EU stakeholders to bridge the innovation gap and make a pivotal contribution to a safer and more sustainable EU raw materials sector.

It also provides a concrete chance for EU-funded projects to show up and leverage their knowledge, disseminating and scaling up successful research outcomes through the **Raw Materials Information System** (RMIS), the EC's reference knowledge platform on metals and minerals. Ultimately, our goal is to bring the science-to-policy interface forward and support the EU to achieve its competitiveness, innovation and sustainability goals.

Join us to shape the future of the EU raw material intelligence, foster innovation, and drive sustainable practices!

List of projects presented in the poster sessions:

AutoMat, Made3D, MOST H2, PHASTRAC, MeDiTrace, BlackCycle, PERMANET, BEETHOVEN, SUPREEMO, CSyARES, ExpSkills-REM, BATRAW, RECIRCULATE, i-EDGE, ICARUS

Agenda

DAY 1 - September 23rd, 2025	
08:45 – 09:15	Registration & coffee
09:15 – 10:00	Session 1A - High level opening <i>Welcome & Introduction</i> Chaired by Serenella Sala, HoU, JRC.D3 <u>Alessandra Zampieri, Director, JRC.D</u> <u>Marina Zanchi, Director, HaDEA</u>
	<u>Workshop goal & scope</u> Serenella Sala, HoU, JRC.D3
	<u>Horizon Europe</u> <u>Overview & update</u> Silke Obst, HoU, HaDEA.B3
10:00 – 11:00	Session 1B - High level opening <i>The raw materials policy context: knowledge needs & forthcoming actions</i> Chaired by Silke Obst, HoU, HaDEA.B3 (7-8' per presentation) <u>Carsten Schierenbeck, HoU, RTD.E3</u> <u>Joan Canton, HoU, GROW.I1</u> <u>Karolina D'Cunha, Deputy HoU, ENV.B3</u> <u>Paz Velasco Velazquez, HoU, INTPA.E2</u> <u>Pauline Weinzierl, HoU, TRADE.E4</u> <u>Arturo De La Fuente Nuno, Acting Director, ESTAT.E</u> <u>Óscar Gómez-Prieto, ESTAT.E2</u>
11:00 - 11:30	Coffee break
11:30 - 12:45	Session 2 - Key players & initiatives <i>Overview of key initiatives at European and national level</i> Chaired by Natasia Lai, Deputy HoU, HaDEA.B3 (7-8' per presentation) <u>Roland Gauß, EIT RawMaterials</u> <u>Mario Jorizzo, ENEA¹</u>

¹ Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo sostenibile

	<p>Georg Heß, German Environmental Agency</p> <p>Francesco Pizzocolo, TNO-GSEU²</p> <p>Giampaolo Campana, University of Bologna</p> <p>Nicola Magnani, JRC.C7</p> <p>Simone Manfredi, JRC.D3</p>										
12:45 – 14:00	Lunch break										
14:00 – 15:00	<p>Session 3 - Roundtable on EU (industrial) competitiveness</p> <p><i>A multi-stakeholder discussion among academia, policy makers, and industry representatives to explore challenges and barriers towards the new roadmap to restore EU (industrial) competitiveness. The session will raise awareness on the importance of competitiveness in the raw materials community, and explore the knowledge required in systems like RMIS to support this new roadmap.</i></p> <p>Chaired and moderated by David Pennington, JRC.D3 & Roland Gauß, EIT RawMaterials</p> <p>Impulse speech by Roland Gauß, EIT RawMaterials</p> <p>Roundtable discussion among experts: Roberto Zoboli³, Aimilios Orfanos⁴, George Karkampasis⁵, Eva Schillinger⁶</p>										
15:00 – 15:30	1st Posters session & Coffee break										
15:30 – 16:30	<p>Session 4 - Focus on vehicles</p> <p><i>Focus on recent developments towards resilient, circular and sustainable vehicle and mobility value chains, discussing how key stakeholders from e.g. industry, academia, NGOs are developing innovative solution.</i></p> <p>Chaired by Laura Petrov, HaDEA.B3 (7'-8' per presentation)</p> <p>Nacef Tazi, JRC.D3</p> <table> <tr> <td>Benedetta Nucci</td> <td>European Aluminium</td> </tr> <tr> <td>Maria Ljunggren</td> <td>FutuRaM</td> </tr> <tr> <td>Iakovos Yakoumis</td> <td>CRUSADE</td> </tr> <tr> <td>Nader Akil</td> <td>SOLMATE</td> </tr> <tr> <td>Lukas Feldmann</td> <td>RAWCLIC (CINEA)</td> </tr> </table>	Benedetta Nucci	European Aluminium	Maria Ljunggren	FutuRaM	Iakovos Yakoumis	CRUSADE	Nader Akil	SOLMATE	Lukas Feldmann	RAWCLIC (CINEA)
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16:30 – 16:45	Discussion / Q&A										
16:45 – 17:00	<p>Day 1 – Wrap up & closing</p> <p>David Pennington, JRC.D3</p>										
17:00 – 18:00	2nd Posters session & Cocktails										

² Dutch Institute of Applied Science (TNO) - Geological Service for Europe (GSEU)

³ Catholic University of the Sacred Heart, Milan

⁴ Founder and CEO ReVolta, co-founder of Watt4Ever

⁵ EU Aluminium

⁶ IAM-I

DAY 2 – September 24 th , 2025	
09:00 – 09:15	Registration & coffee
09:15 – 10:45	Session 5 – Focus on Permanent Magnets <i>A multi-stakeholder discussion among academia, policy makers, and industry representatives to explore the latest insights & research developments in the context of the REE and PM value chains in Europe, with a focus on sustainability, security of supply, and future opportunities.</i> Chaired by Dimos Paraskevas, HaDEA.B3 (7-8' per presentation)
	<u>Nacef Tazi, JRC.D3</u> Lucie Mc Govern, JRC.C7 Samuel Martinini, University of Bologna
	<u>Nabeel Mancheri, EIT RawMaterials</u>
	Andrea Giacomelli, Erion <u><i>Italian REE and PM value chain: opportunities and barriers</i></u>
	Erick Petit, MagREEsouce <u><i>Securing CRM circular market in EU for our Sovereignty and Resilience in Permanent Magnets</i></u>
	Merle Kannampuzha <u><i>REMHub</i></u>
	Benoit Richebe <u><i>MAGELLAN</i></u>
	Jose Manuel Martin Garcia <u><i>HARMONY</i></u>
10:45 – 11:00	Discussion / Q&A
11:00 - 11:30	3rd Posters session & Coffee break
11:30 – 13:00	Session 6 – Focus on Advanced Materials <i>Spotlight on the Electronics, Mobility, Energy sectors</i> Chaired by Javier Sanfelix, RTD.E3 & Jean-Philippe Guisset, HaDEA.B3.2 (7-8' per presentation)
	Fernando Coelho, JRC.D3 <u><i>Mapping CRM "hotspots" in electronics and mobility</i></u> Nicola Magnani, JRC.C7 <u><i>Strategies on substitution for the energy technology sector</i></u>
	Giulio Bracalente, JRC.D3 <u><i>SSbd & environmental performance of advanced materials</i></u>
	Eva Schillinger, IAM-I Secretary General <u><i>IAM4EU - the Horizon Europe Public Private Partnership on Advanced Materials</i></u>
	Andrea Pitillas Martinez, EIT RawMaterials <u><i>EIT RM activities and developments on Adv Materials</i></u>
	Daniele Mirabile Gattia, ENEA <u><i>CRMs targeted for substitution in the energy sector through AdMs – progress and remaining needs in the Italian context.</i></u>
	Alexia Papadopoulou <u><i>NANOMAT</i></u>
	Pasi Puukko <u><i>MultiMag</i></u>
	Angela Mary Thomas <u><i>AMBHER</i></u>

13:00 – 13:15	Discussion / Q&A
13:15 – 14:15	Lunch break & 4th Poster session
14:15 – 15:15	<p>Session 7 – Roundtable discussion on education and skills on critical/strategic resources and innovation: opportunities vs gaps</p> <p><i>Providing opportunities for improving knowledge and skills on raw materials – especially for critical and strategic resources – is an essential pre-condition for a well-functioning RM sector, as well as to achieve related EU policy objectives. The session will not only raise awareness on the importance of improving education & skills on raw materials, but also explore current opportunities versus gaps, as well as discuss the role of platforms like the RMIS towards filling such gaps.</i></p> <p>Chaired and moderated by Simone Manfredi, JRC.D3 and Karel van Acker, KU Leuven</p> <p>Impulse speech by Karel van Acker, KU Leuven</p> <p>Roundtable discussion among experts: Manuel Regueiro (CSIC⁷), David Peck (TU Delft), Luca Ciacci (UniBologna), Benedetta Nucci (EU Aluminium), Benjamin Maloney (EIT RawMaterials)</p>
15:15 – 15:30	<p>Day 2 - Workshop conclusion</p> <ul style="list-style-type: none"> • Silke Obst, HoU, HaDEA.B3 • David Pennington, JRC.D3

⁷ Spanish National Research Council (CSIC)