



EUROPEAN COMMISSION
JOINT RESEARCH CENTRE
Sustainable Resources Directorate
Unit D3 – Land Resources & Supply Chain Assessments

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

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:

Made3D, MOST H2, PHASTRAC, MeDiTrace, AutoMat, BlackCycle, REEsilience, PERMANET, BEETHOVEN, SUPREEMO, CSyARES II, ExpSkills-REM, BATRAW, RECIRCULATE

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	
	Alessandra Zampieri, Director, JRC.D Marina Zanchi, Director, HaDEA	
	Workshop goal & scope	Serenella Sala, HoU, JRC.D3
	Horizon Europe Overview & update	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	
	Joan Canton, HoU, GROW.I1	
	Javier Sanfelix, RTD.E3	
	Karolina D'Cunha, Deputy HoU, ENV.B3	
	Paz Velasco Velazquez, HoU, INTPA.E2	
	Pauline Weinzierl, HoU, TRADE.E4	
	Arturo De La Fuente Nuno, Acting Director, ESTAT.E	
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 Natascia Lai, Deputy HoU, HaDEA.B3	
	Roland Gauß, EIT RawMaterials	
	Mario Jorizzo, ENEA ¹	
	Georg Hess, German Environmental Agency	
	Francesco Pizzocolo, EuroGeoSurvey	
	Giampaolo Campana, University of Bologna	

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

	Nicola Magnani, JRC.C7	
	RMIS overview, Simone Manfredi, JRC.D3	
12:45 – 14:00	Lunch break	
14:00 – 15:00	Session 3 - Roundtable on EU (industrial) competitiveness <i>Roundtable discussion on how recent policy/technology developments are contributing to EU industrial competitiveness, while also boosting environmental/climate performance.</i> Chaired and moderated by David Pennington, JRC.D3 & Roland Gauß, EIT RawMaterials	
	Impulse speech from the chairs	
	Roundtable discussion among experts: Roberto Zoboli ² , HaDEA/DG representative, Roland Gauß ³ , Aimilios Orfanos ⁴ , Eva Schillinger ⁵ , George Karkampasis ⁶	
15:00 – 15:30	1st Posters session & Coffee break	
15:30 – 16:30	Session 4 - Focus on vehicles <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> Chaired by Laura Petrov, HaDEA.B3 (7'-8' per presentation)	
	Nacef Tazi, JRC.D3	
	Benedetta Nucci	European Aluminium
	Maria Ljunggren	<i>FutuRaM</i>
	Iakovos Yakoumis	<i>CRUSADE</i>
	Nader Akil	<i>SOLMATE</i>
	Lukas Feldmann	<i>RAWCLIC(CINEA)</i>
16:30 – 16:45	Discussion / Q&A	
16:45 – 17:00	Day 1 – Wrap up & closing by David Pennington, JRC.D3	
17:00 – 18:00	2nd Posters session & Cocktails	

² Catholic University of the Sacred Heart, Milan

³ EIT RawMaterials

⁴ Founder and CEO ReVolta, co-founder of Watt4Ever

⁵ IAM-I

⁶ EU Aluminium

DAY 2 – September 24 th , 2025	
09:00 – 09:15	Registration & coffee
09:15 – 10:45	<p>Session 5 – Focus on Permanent Magnets</p> <p><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></p> <p>Chaired by Dimos Paraskevas, HaDEA.B3 (7-8' per presentation)</p>
	<p>Nacef Tazi, JRC.D3 Lucie Mc Govern, JRC.C7 Samuel Martinini, University of Bologna</p>
	Nabeel Mancheri, EIT RawMaterials
	<p>Andrea Giacomelli</p> <p>Erion Compliance Organization</p>
	<p>Erick Petit</p> <p>MagREEsource</p>
	<p>Merie Kannampuzha</p> <p>REMHub</p>
	<p>Benoit Richebe</p> <p>MAGELLAN</p>
	<p>Jose Manuel Martin Garcia</p> <p>HARMONY</p>
10:45 – 11:00	Discussion / Q&A
11:00 – 11:30	3 rd Posters session & Coffee break
11:30 – 13:00	<p>Session 6 – Focus on Advanced Materials</p> <p><i>Spotlight on the Electronics, Mobility, Energy sectors</i></p> <p>Chaired by Gianluca Cesarei, RTD.E3 & Jean-Philippe Guisset, HaDEA.B3.2 (7-8' per presentation)</p>
	Javier Sanfelix, RTD.E3
	<p>Fernando Coelho, JRC.D3</p> <p>Mapping CRM "hotspots" in electronics and mobility</p>
	<p>Nicola Magnani, JRC.C7</p> <p>Strategies on substitution for the energy technology sector</p>
	<p>Giulio Bracalente, JRC.D3</p> <p>SSbd & environmental performance of advanced materials</p>
	<p>Eva Schillinger, IAM-I Secretary General</p> <p>Overview of IAM-I / IAM4EU-PPP on Advanced Materials</p>
	<p>Patrick Nadoll, EIT RawMaterials</p> <p>EIT RM activities and developments on Adv Materials</p>
	<p>Giuseppe Barbieri, ENEA</p> <p>CRMs targeted for substitution in the energy sector through AdMs – progress and remaining needs in the Italian context.</p>
	<p>Project representative</p> <p>NANOMAT</p>
	<p>Pasi Puukko</p> <p>MultiMag</p>
	<p>Angela Mary Thomas</p> <p>AMBHER</p>

13:00 – 13:15	Discussion / Q&A
13:15 – 14:15	Lunch break & 4th Poster session
14:15 – 15:15	Session 7 – Roundtable discussion on education and skills on critical/strategic resources: opportunities vs gaps Chaired and moderated by Serenella Sala, HoU, JRC.D3 and Professor Karel van Acker, KU Leuven
	Impulse speech from the chairs
	Roundtable discussion among experts: EIT RawMaterials representative, Manuel Regueiro (CSIC ⁷), David Peck (TU Delft), Karel van Acker (KU Leuven), Luca Ciacci (UniBologna), Jo Dewulf (UGent), Kelly Roegies (EU Aluminium).
15:15 – 15:30	Day 2 - Workshop conclusion <ul style="list-style-type: none"> • Silke Obst, HoU, HaDEA.B3 • Serenella Sala, HoU, JRC.D3

⁷ Spanish National Research Council (CSIC)