

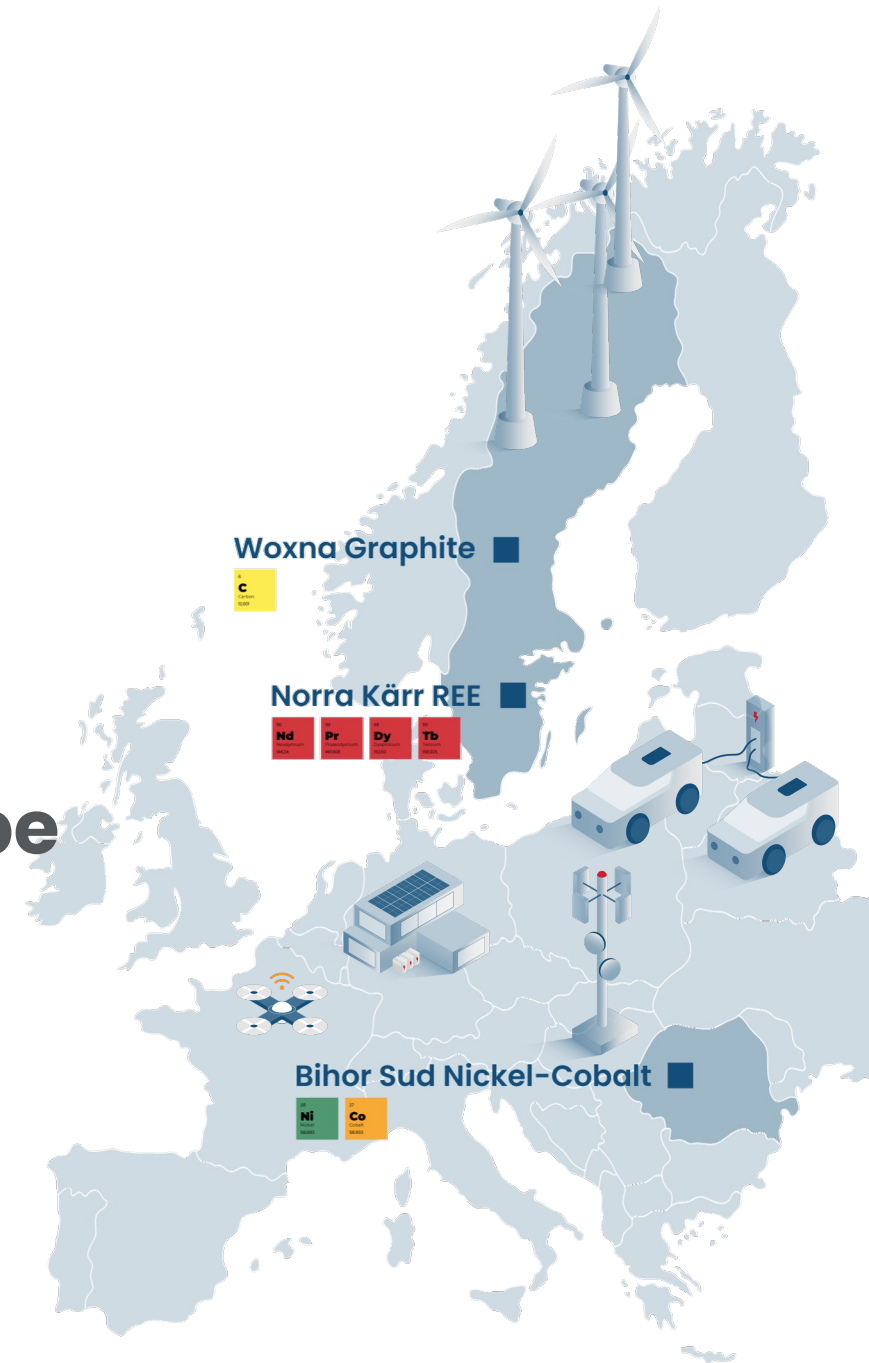


**LEADING EDGE
MATERIALS**

Building Critical Supply Chains in Europe

October 2025

TSX.V: LEM
Nasdaq First North: LEMSE
OTCQB: LEMIF
FRA: 7FL



DISCLAIMER



This presentation is not directed to, or intended for distribution to or use by, any person or entity that is a citizen or resident or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation or which would require any registration or licensing within such jurisdiction.

This presentation does not constitute or form a part of, and should not be construed as an offer, solicitation or invitation to subscribe for, underwrite or otherwise acquire, any securities of Leading Edge, nor shall it or any part of it form the basis of or be relied on in connection with any contract or commitment whatsoever. Certain information in this presentation contains forward-looking statements and forward-looking information within the meaning of applicable Canadian securities laws (collectively "forward-looking statements"). When used in this document, the words "may", "would", "could", "will", "anticipate", "expect", "estimate", "intend", "believe" and similar expressions are intended to identify forward-looking statements. Such statements reflect our current views with respect to future events and are subject to risks and uncertainties. All statements, other than statements of historical fact are forward-looking statements. Forward-looking statements are based on the beliefs and expectations of Leading Edge as well as assumptions made by and information currently available to Leading Edge's management. Such statements reflect the current risks, uncertainties and assumptions related to certain factors including but not limited to, all costs varying significantly from estimates, production rates varying from estimates, changes in metal markets, changes in equity markets, availability and costs of financing needed in the future, equipment failure, unexpected geological conditions, imprecision in resource estimates or metal recoveries, ability to complete future drill programs, drill program results varying from expectations, delays in obtaining survey results, success of future development initiatives, the completion and implementation of a preliminary economic assessment, pre-feasibility or feasibility studies, competition, operating performance, environmental and safety risks, delays in obtaining or failure to obtain necessary permits and approvals from local authorities, community relations, the potential impact of epidemics, pandemics or other public health crises, including the current outbreak of the novel coronavirus known as COVID-19 on the Company's business, timing and outcome of litigation, the technical viability of a project and other development and operating risks. Should any one or more of these risks or uncertainties materialize, or should any underlying assumptions prove incorrect, actual results may vary materially from those described herein. Although Leading Edge believes that assumptions inherent in the forward-looking statements are reasonable, forward looking statements are not guarantees of future performance and accordingly undue reliance should not be put on such statements due to the inherent uncertainty therein. Except as may be required by applicable securities laws, Leading Edge Materials disclaims any intent or obligation to update any forward-looking statement. Readers are cautioned not to put undue reliance on such forward-looking statements.

The Woxna project has never defined a mineral reserve. On June 9, 2021, Leading Edge announced the results of an independent preliminary economic assessment for the development of Woxna (the "2021 Woxna PEA"), the full details of which are included in a technical report entitled "NI 43-101 Technical Report – Woxna Graphite" prepared for Woxna Graphite AB with effective date June 9, 2021 and issue date July 23, 2021, available on Leading Edge's website www.leadingedgematerials.com and under its SEDAR profile www.sedar.ca. The 2021 Woxna PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the preliminary economic assessment will be realized. Mineral resources that are not mineral reserves do not have demonstrated economic viability.

On July 22, 2021, Leading Edge announced the results of an independent preliminary economic assessment for the development of Norra Kärr (the "2021 Norra Kärr PEA"), the full details of which are included in a technical report titled "PRELIMINARY ECONOMIC ASSESSMENT OF NORRA KÄRR RARE EARTH DEPOSIT AND POTENTIAL BY-PRODUCTS, SWEDEN" prepared for Leading Edge Materials Corp. with effective date August 18, 2021 and issue date August 19, 2021, available on Leading Edge's website www.leadingedgematerials.com and under its SEDAR profile www.sedar.ca. The 2021 Norra Kärr PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the preliminary economic assessment will be realized. Mineral resources that are not mineral reserves do not have demonstrated economic viability.

This presentation has been prepared by Leading Edge Materials Corp. The scientific, technical and economic information related to the Norra Kärr project has been reviewed and approved by Dr. Rob Bowell of SRK Consulting (UK) Ltd, a chartered chemist of the Royal Society of Chemistry, a chartered geologist of the Geological Society of London, and a Fellow of the Institute of Mining, Metallurgy and Materials, who is an independent Qualified Person under the terms of NI 43-101 for REE deposits. The scientific, technical and economic information related to the Woxna Graphite project has been reviewed and verified by Christopher Stinton of Zenito Limited, BSc (Hons), CEng MIMMM, an independent Qualified Person as defined by NI 43-101.

Investment Highlights



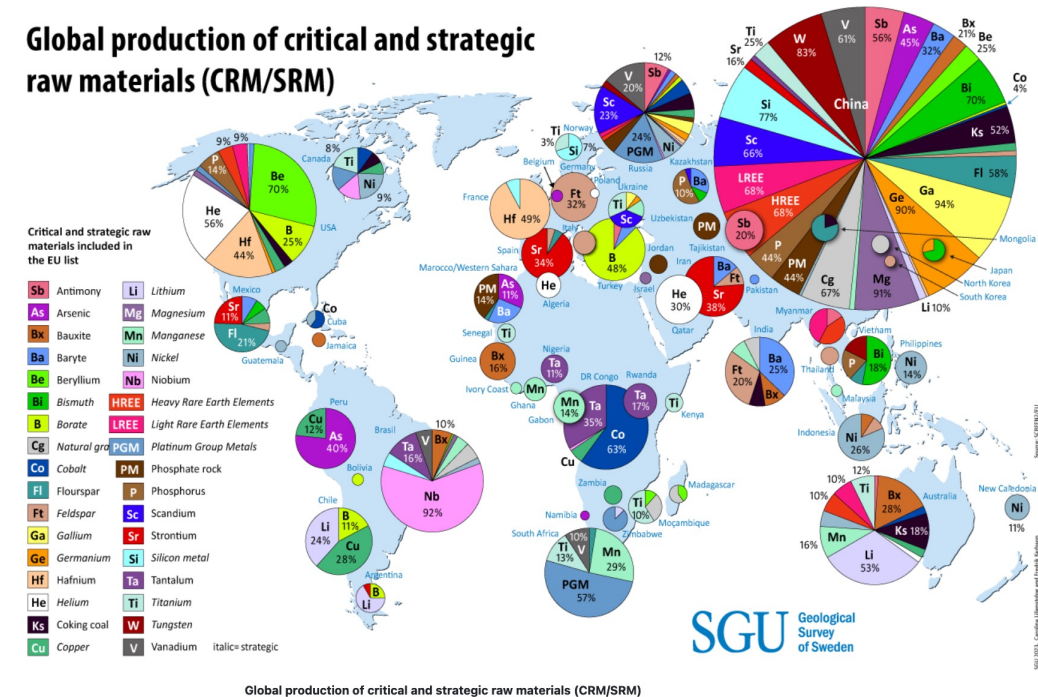
Portfolio

- Critical raw materials (CRMs) with a focus on:
 - heavy rare earth elements (HREEs); and
 - natural graphite.
- All assets located in the EU, including:
 - 100% owned graphite mine in Sweden;
 - 100% owned HREE development project in Sweden; and
 - Polymetallic exploration in Romania.

Corporate

- Highly experienced leadership team.
- Significant Swedish and Insider shareholdings.
- Listed in Toronto and Stockholm.
- Tickers: LEM.V (TSXV), LEMSE (NFN), LEMIF (OTCQB), 7FL (Fra).

Global production of critical and strategic raw materials (CRM/SRM)



Addressing Critical Raw Materials Supply



Targeting strategically important markets:

- permanent magnets for electric motors, wind turbines;
- batteries for EVs and energy storage; and
- defence applications.

Norra Kärr HREE (100%)

- Europe's most advanced heavy rare earth elements (HREE) project.
- Critically important dysprosium and terbium content.
- Company anticipates a mining lease decision in the fourth quarter of 2025, while pre-feasibility workstreams are currently underway with completion targeted during the first quarter of 2026.
- 2021 PEA estimated production 5,341tpa TREOs including 1,005tpa MagREOs over 26-year Life of Mine.
- Post-tax Net Present Value(10%) of US\$762m, IRR of 26.3% and EBITDA of US\$206m*.

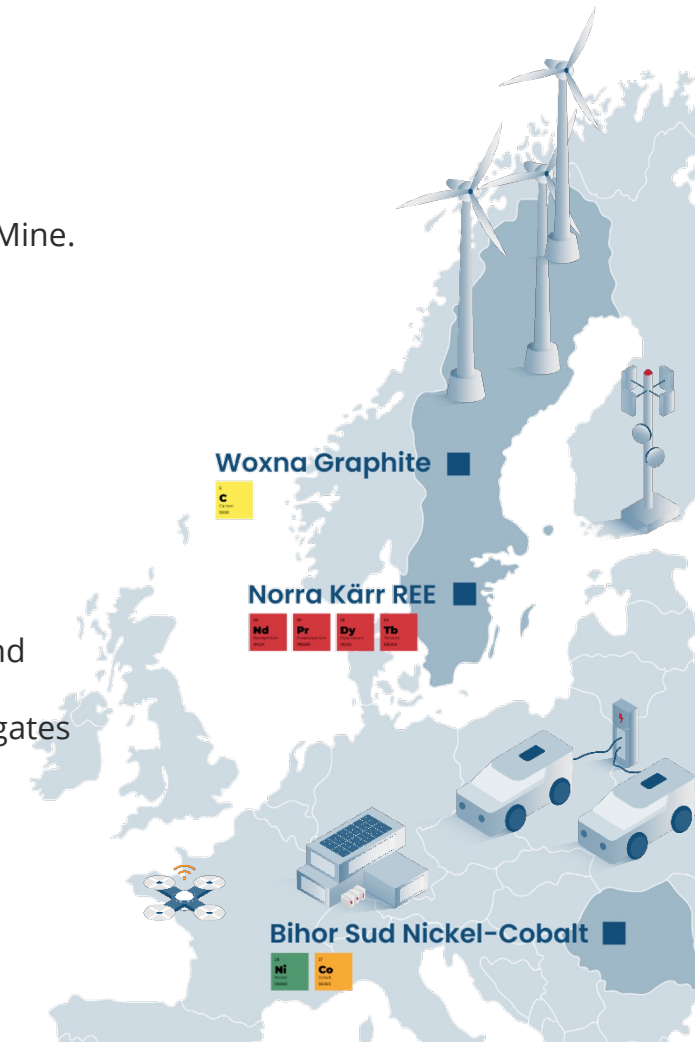
Woxna Graphite (100%)

- Built and permitted mine and processing plant. Flake concentrate 10,000tpa +94% Cg.
- Potential to increase production to 15,000tpa.
- Testwork ongoing to evaluate potential upgrades to existing plant.
- Focus on developing a new business plan to support a possible restart of production.

Bihor Sud Ni-Co (51% to 90%)

- Project encompasses a historic mining district situated within the highly prospective Tethyan Belt.
- Reappraising highest potential prospects following recent and significant addition of ownership and operational permits for the Avram Iancu mine to the exploration area.
- A Competent Person Report is currently in preparation while management simultaneously investigates alternative financing sources to advance the project.

** See National Instrument 43-101 report titled "PRELIMINARY ECONOMIC ASSESSMENT OF NORRA KÄRR RARE EARTH DEPOSIT AND POTENTIAL BY-PRODUCTS, SWEDEN" prepared for Leading Edge Materials Corp. with effective date August 18, 2021 and issue date August 19, 2021. See Leading Edge Materials Corp.'s SEDAR profile on www.sedar.ca or www.leadingedgematerials.com for report and more information. The PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the PEA will be realized.



Experienced Leadership – Mining & Markets



Lars-Eric Johansson
Chairman



Past

President & CEO Ivanhoe Mines (2006-19)
CFO Kinross Gold Corporation
CFO Noranda Inc
CFO Falconbridge
Vice President & CFO Boliden Mineral

Daniel Major
Director



Present

CEO GoviEx Uranium Inc. (TSXV)

Past

Chief Executive and later Non-Executive Chairman of Basic Element Mining and Resource Division in Russia
Mining analyst HSBC Plc and JPM
Rio Tinto Rossing Uranium Mine

Eric Krafft
Director



Present

Private investor and largest shareholder. Serves on the boards of numerous private financial holding and ship-owning companies.
Director GoviEx Uranium Inc. (TSXV)

Past

Trafalgar Shipping/Dragon Maritime
Corporate Finance at DVB Bank AG

Kurt Budge
CEO



Past

CEO Beowulf Mining plc (AIM, Spotlight Stock Market)

Sanjay Swarup
CFO



Present

CEO and founder SKS Business Services Ltd

Past

CFO Mandalay Resources (TSX)

Manuela Balaj-Coroiu
Company Secretary



Present

Vancouver based chartered governance professional and corporate secretary.

Share Information



Tickers: LEM.V (TSXV), LEMSE (NFN), LEMIF (OTCQB), 7FL (Fra)

Quote: CAD 0.215 / SEK 1.40 (30 September 2025)

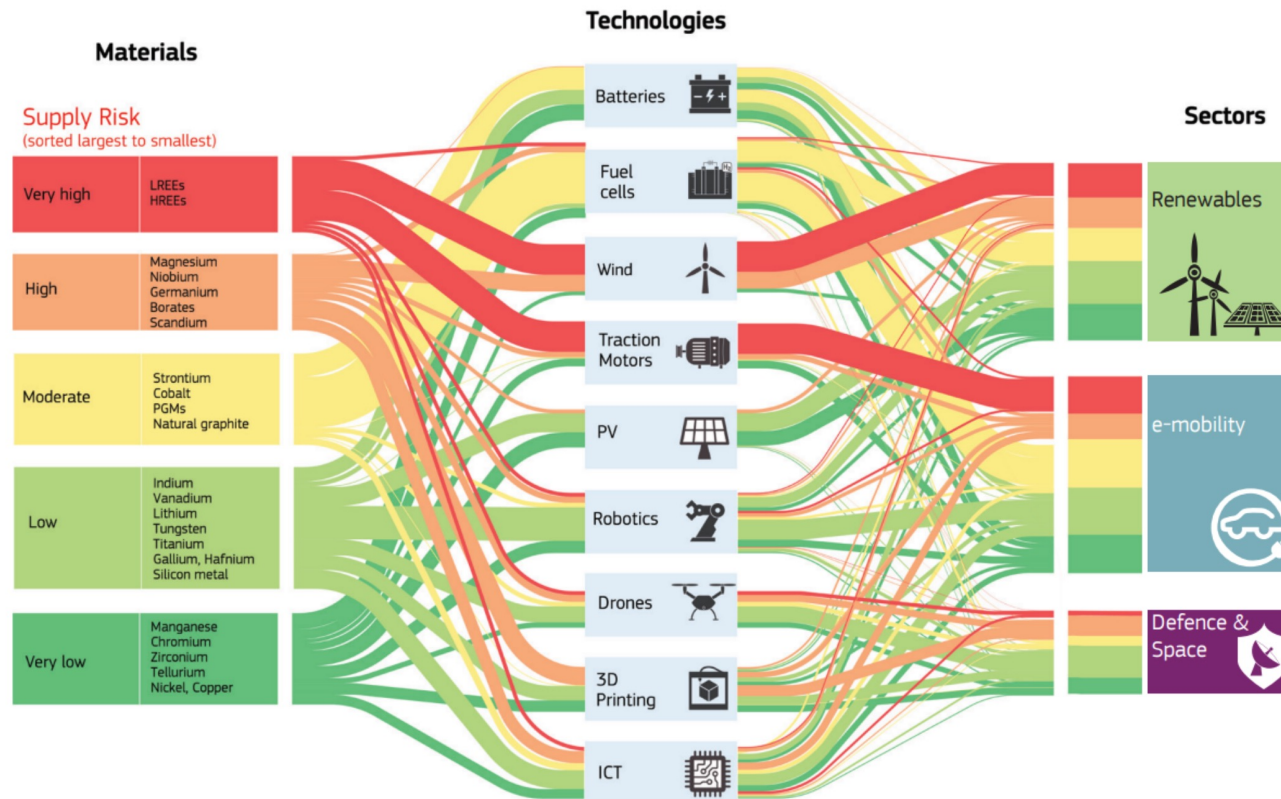
Mkt Cap: CAD 53.7m / SEK 350m

As of August 25, 2025				Total
Issued and Outstanding Common Shares				249,950,449
Stock Options	Expiration	Exercise price	Quantity	
	Apr 26/26	0.195	500,000	
	Nov 3/27	0.20	700,000	
	Apr 26/28	0.195	4,200,000	
	Apr 25/29	0.10	9,650,000	
	Apr 23/30	0.24	6,850,000	
				21,900,000
Warrants	Expiration	Exercise Price	Quantity	
	Aug 23/27	0.225	21,739,130	
	July 23/28	0.20	34,400,000	
	Sept 26/28	0.20	6,560,000	
	Aug 14/29	0.32	17,738,500	
				80,437,630
Fully Diluted:				352,288,079

LEM.V (TSXV) 12 months



Critical Raw Materials



Economic Importance

- CRMs are directly linked to technologies such as batteries and permanent magnets that are critical for growth industries like renewables, energy storage and e-mobility, and defence applications.
- Regional CRM production creates an autonomous EU, enables the energy transition and provides security.

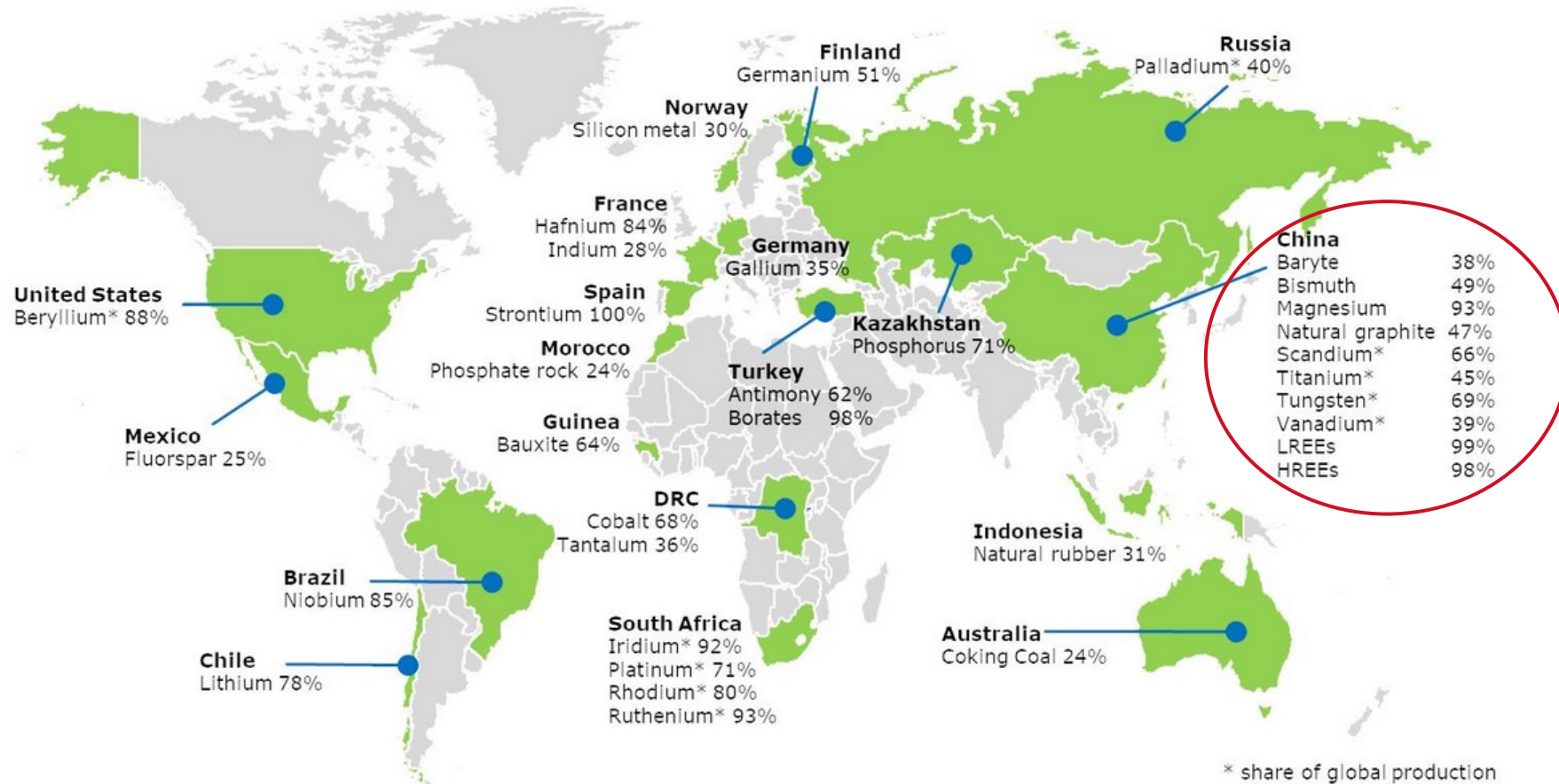
Supply Risk

- EU is dependent on imports of CRMs.
- A few single countries dominate the CRM supply chain which leaves the EU vulnerable to supply disruptions.

...the EU's overdependencies

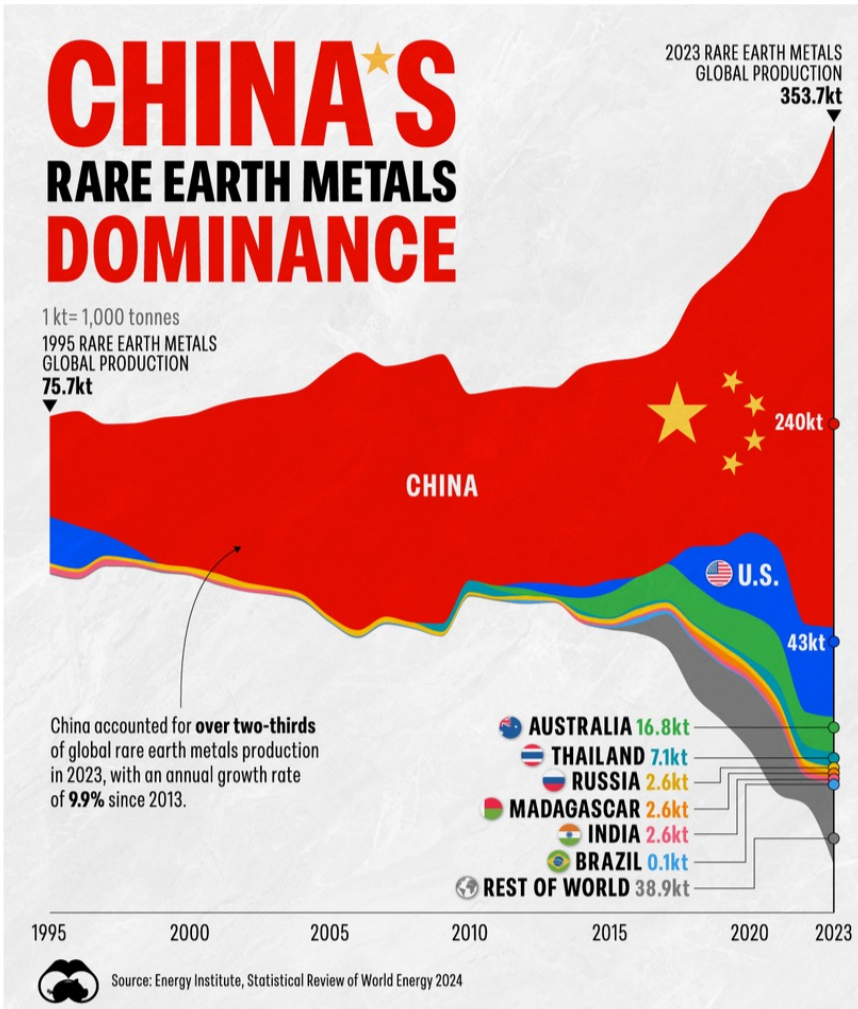


Figure 1: biggest supplier countries of CRMs to the EU



Source: European Commission report on the 2020 criticality assessment

Geopolitical spotlight on CRMs



Supply risk for critical raw materials in military applications

Fighter Aircraft	Aluminium Graphite	Beryllium Chromium Cobalt	Copper Dysprosium Germanium	Iron/Steel Lanthalum Nickel	Neodymium Platinum Praesodymium	Samarium Tantalum Titanium	Tellurium Terbium Tungsten	Vanadium Yttrium	Barium Borates Cadmium	Gallium Indium Lead	Lithium Manganese Molybdenum	Niobium Silver Tin	Thorium Zinc Zirconium	Gold Hafnium Selenium
Main Battle Tank	Aluminium Graphite	Beryllium Chromium Copper	Germanium Iron/Steel Neodymium	Nickel Tantalum Tellurium	Titanium Tungsten Vanadium	Yttrium	Borates Cadmium Gallium	Indium Manganese Molybdenum	Selenium Thorium Zinc	Hafnium				
Missile	Aluminium	Chromium Cobalt Copper	Dysprosium Iron/Steel Neodymium	Nickel Samarium	Silicon Metal Tantalum Titanium	Tungsten	Borates Lead Lithium	Niobium Molybdenum Zirconium						
Submarine	Aluminium Graphite	Chromium Cobalt Iron/Steel	Platinum Samarium Titanium	Tungsten Vanadium	Barium Lead Lithium	Manganese Niobium Silver	Hafnium							
Corvette	Aluminium Graphite	Cobalt Chromium Copper	Iron/Steel Nickel Samarium	Titanium Tungsten	Barium Lead Lithium	Molybdenum Manganese	Gold							
Artillery	Aluminium Graphite	Beryllium Chromium Copper	Germanium Iron/Steel Neodymium	Nickel Tantalum Tellurium	Vanadium Yttrium	Cadmium Indium Manganese								
Ammunition	Aluminium Graphite	Beryllium Copper Germanium	Neodymium Tantalum Tellurium	Titanium Yttrium	Cadmium Indium									
Torpedo	Aluminium	Chromium	Lead Lithium Manganese	Zirconium Silver										
Assault Rifle	Iron/Steel Vanadium													

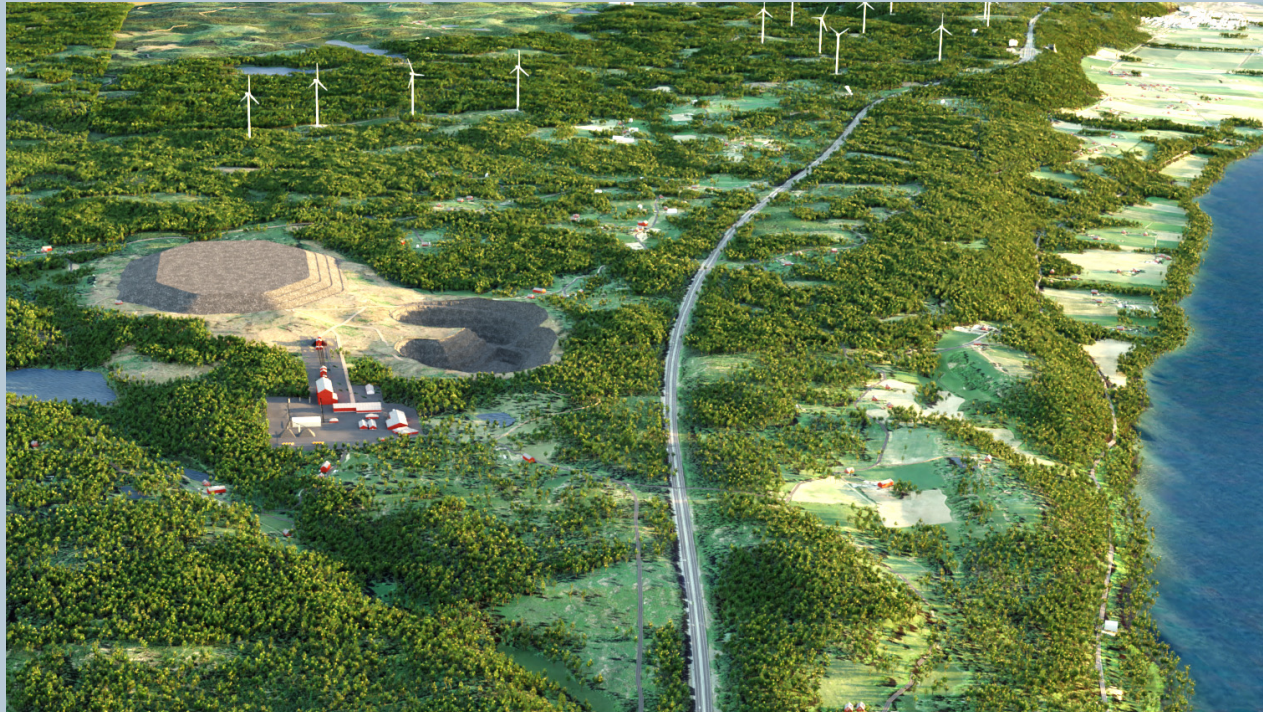
Legend

- Very high risk
- High risk
- Medium risk
- Low risk

<https://www.visualcapitalist.com/visualizing-global-rare-earth-metals-production-1995-2023/>

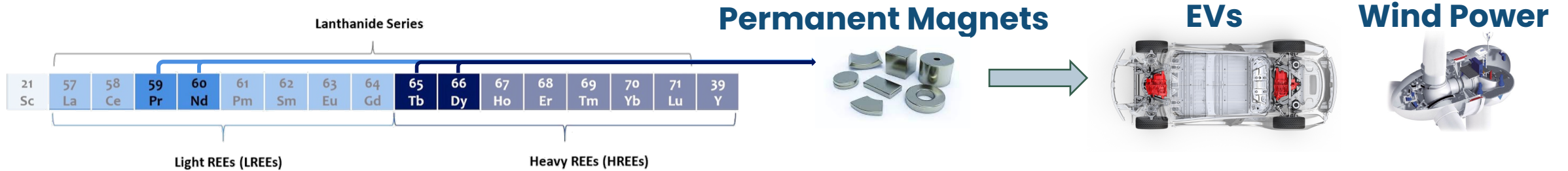
Source: <https://hcss.nl/report/strategic-raw-materials-for-defence/>

https://www.energyinst.org/_data/assets/pdf_file/0006/1542714/684_EI_S tat_Review_V16_DIGITAL.pdf

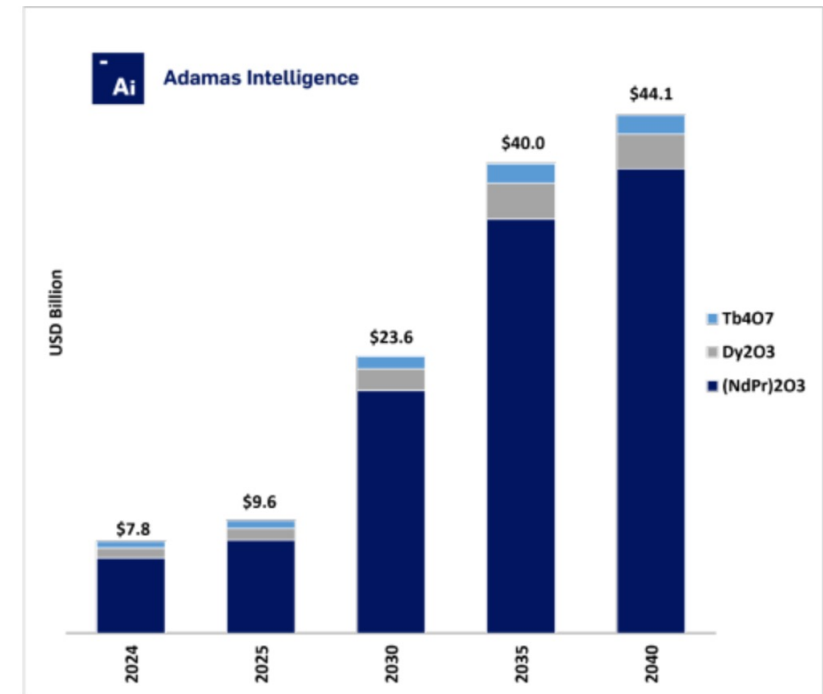
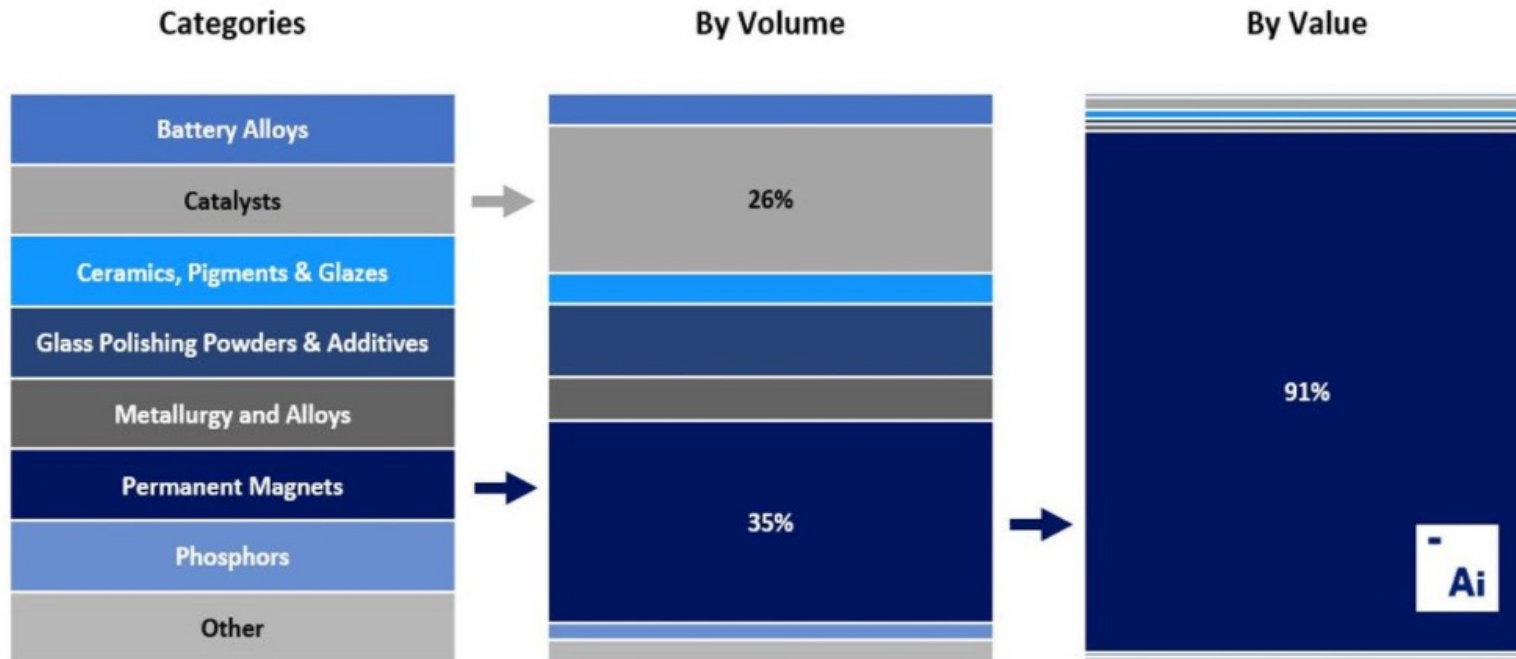


Norra Kärr HREE Project

Importance of HREEs for permanent magnets



Adamas Intelligence forecasts that the value of global magnet rare earth oxide consumption will increase more than five-fold by 2040, from US \$7.8 billion this year (2024) to US \$44.1 billion by 2040.



From European Dependency to Self-Reliance

Global rare earth element (REE) mines, deposits and occurrences (May 2021)




Norra Kärr – Access to major road, rail, and port options, renewable power.

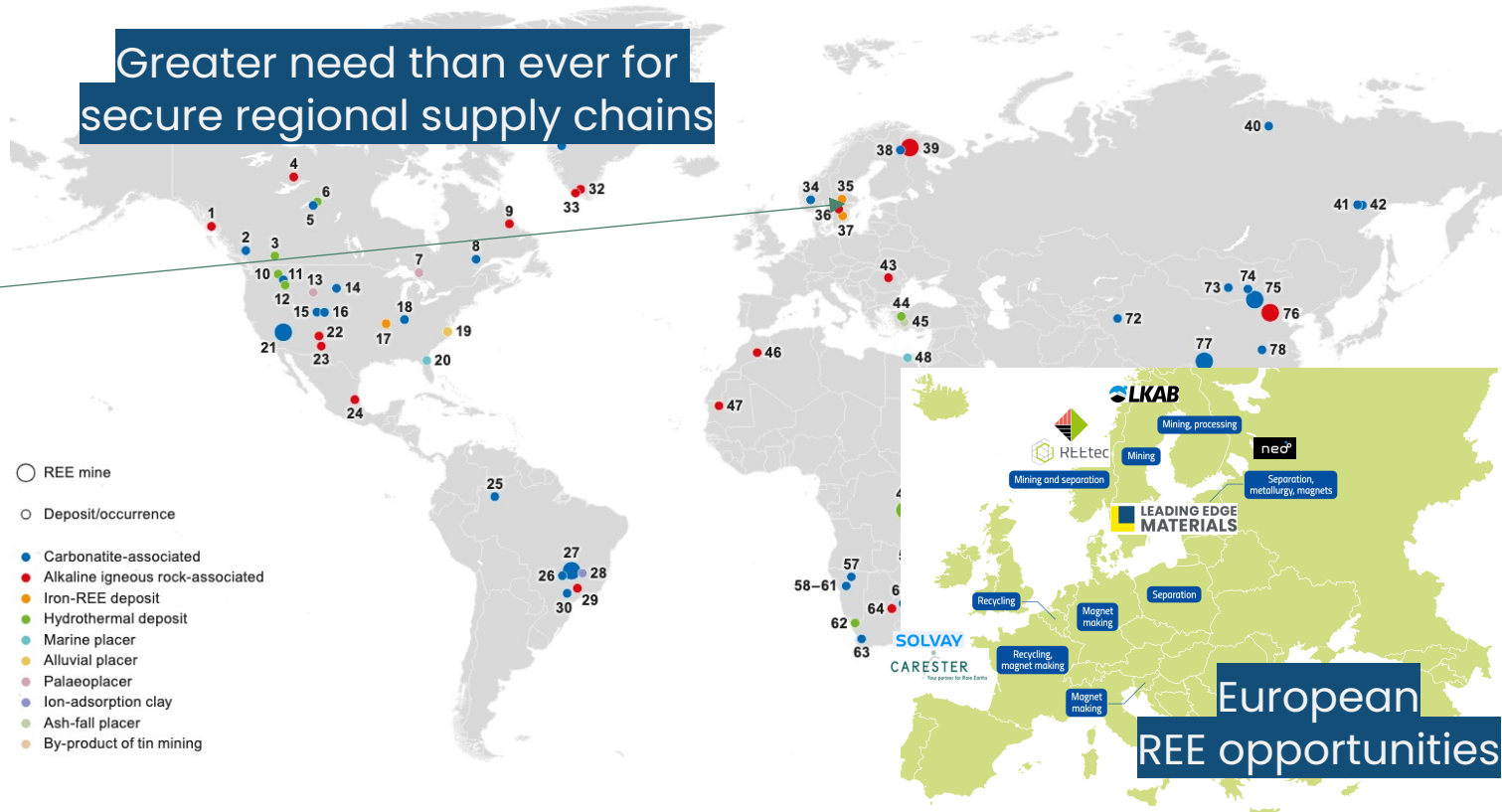
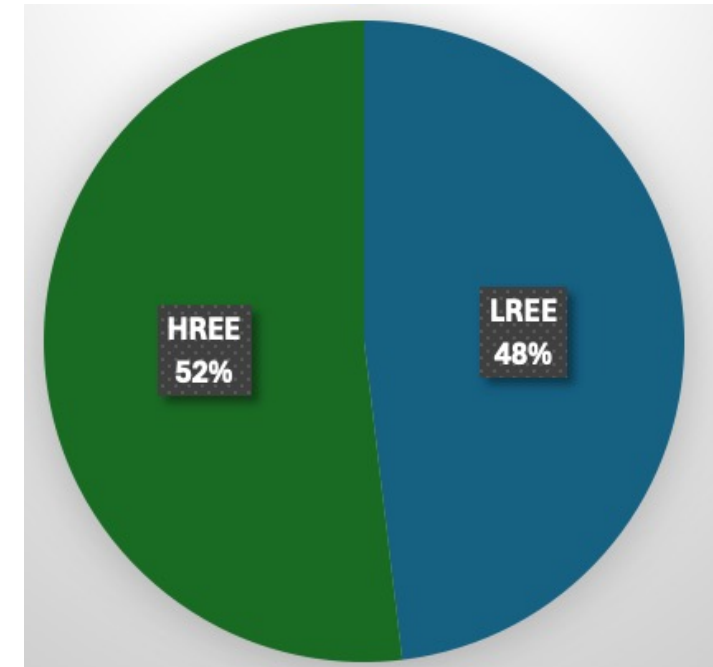
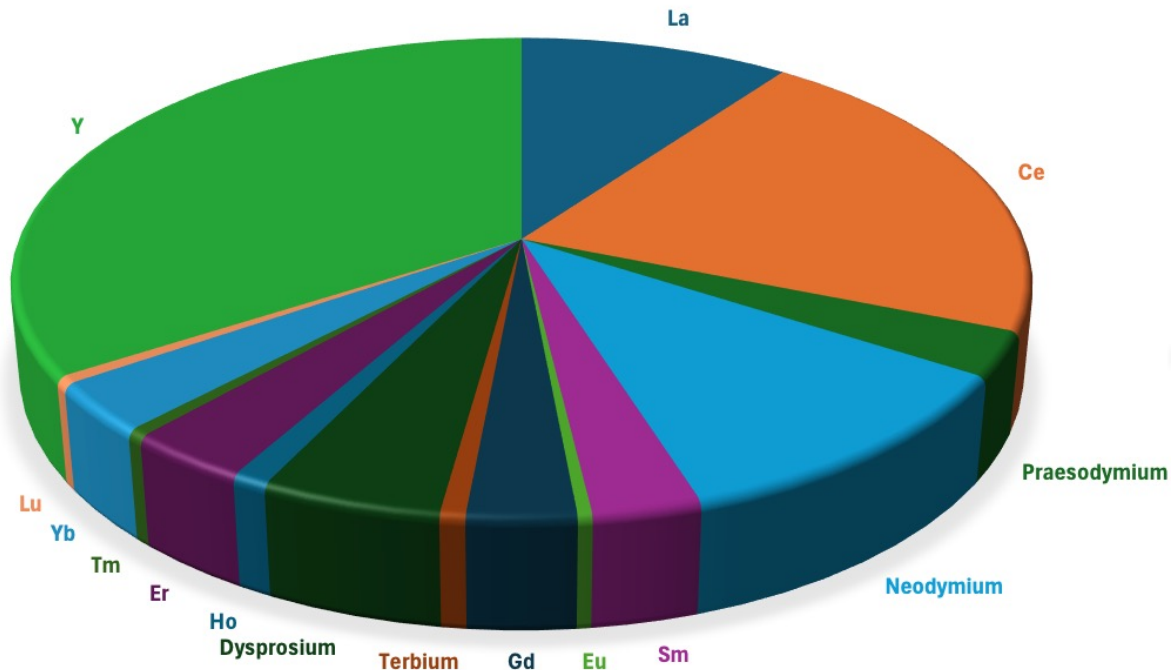


Fig. 9: ERMA investment cases in the rare earth value chain identified so far are located in various European locations https://www.eit.europa.eu/sites/default/files/2021_09-24_ree_cluster_report2.pdf

Heavy Rare Earths in Europe's Hand

Norra Karr Mineral Resource Statement (SRK, 18 August 2021)*

Mineral Resource Classification	Tonnes (Mt)	TREO (%)	ZrO ₂ (%)	Nb ₂ O ₅ (%)	Nepheline Syenite (%)
Inferred	110	0.5	1.7	0.05	65



* See National Instrument 43-101 report titled "PRELIMINARY ECONOMIC ASSESSMENT OF NORRA KÄRR RARE EARTH DEPOSIT AND POTENTIAL BY-PRODUCTS, SWEDEN" prepared for Leading Edge Materials Corp. with effective date August 18, 2021 and issue date August 19, 2021. See Leading Edge Materials Corp.'s SEDAR profile on www.sedar.ca or www.leadingedgematerials.com for report and more information. The PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the PEA will be realized.

Mission-Critical for European Defence



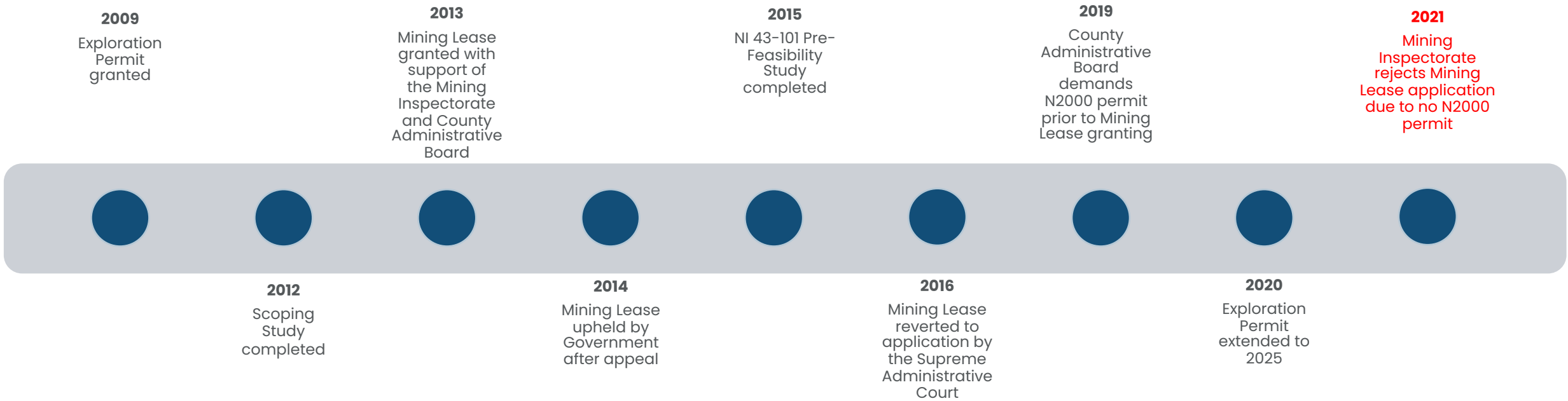
DoD refers to US Department of Defence

Element	Applications
Scandium	Metal alloys for the aerospace industry.
Yttrium	Ceramics, metal alloys, lasers, fuel efficiency, microwave communication for satellite industries, color televisions, computer monitors, temperature sensors. Used by DoD in targeting and weapon systems and communication devices. Defined by DOE as critical in the short- and mid-term based on projected supply risks and importance to clean energy technologies.
Lanthanum	Batteries, catalysts for petroleum refining, electric car batteries, high-tech digital cameras, video cameras, laptop batteries, X-ray films, lasers. Used by DoD in communication devices. Defined by DOE as near critical in the short-term based on projected supply risks and importance to clean energy technologies.
Cerium	Catalysts, polishing, metal alloys, lens polishes (for glass, television faceplates, mirrors, optical glass, silicon microprocessors, and disk drives). Defined by DOE as near critical in the short-term based on projected supply risks and importance to clean energy technologies.
Praseodymium	Improved magnet corrosion resistance, pigment, searchlights, airport signal lenses, photographic filters. Used by DoD in guidance and control systems and electric motors.
Neodymium	High-power magnets for laptops, lasers, fluid-fracking catalysts. Used by DoD in guidance and control systems, electric motors, and communication devices. Defined by DOE as critical in the short- and mid-term based on projected supply risks and importance to clean energy technologies.
Promethium	Beta radiation source, fluid-tracking catalysts.

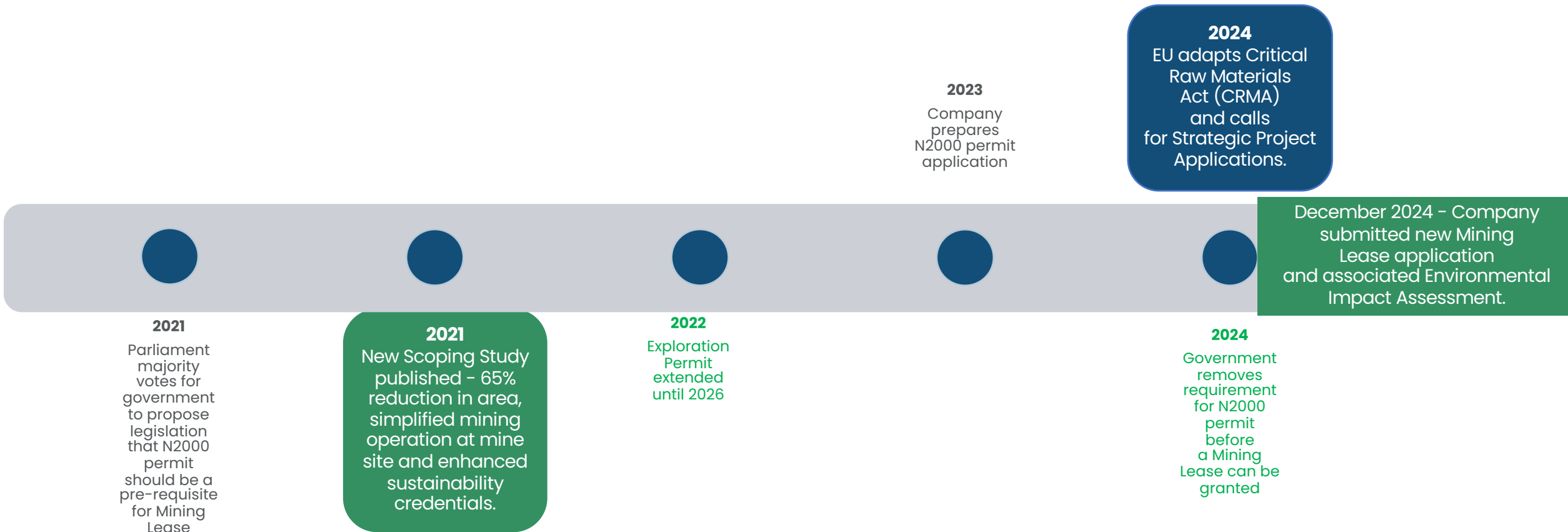
Element	Applications
Samarium	High-temperature magnets, reactor control rods. Used by DoD in guidance and control systems and electric motors.
Europium	Liquid crystal displays (LCDs), fluorescent lighting, glass additives. Used by DoD in targeting and weapon systems and communication devices. Defined by DOE as critical in the short- and mid-term based on projected supply risks and importance to clean energy technologies.
Gadolinium	Magnetic resonance imaging contrast agent, glass additives.
Terbium	Phosphors for lighting and display. Used by DoD in guidance and control systems, targeting and weapon systems, and electric motors. Defined by DOE as critical in the short- and mid-term based on projected supply risks and importance to clean energy technologies.
Dysprosium	High-power magnets, lasers. Used by DoD in guidance and control systems and electric motors. Defined by DOE as critical in the short- and mid-term based on projected supply risks and importance to clean energy technologies.
Holmium	Highest power magnets known.
Erbium	Lasers, glass colorant.
Thulium	High-power magnets.
Ytterbium	Fiber-optic technology, solar panels, alloys (stainless steel), lasers, radiation source for portable X-ray units.
Lutetium	X-ray phosphors.

(Adapted from US DOE, 2011)

Norra Kärr – Technical and permitting history



Norra Kärr – Last 5 years



Norra Kärr 2021 PEA* vs 2015 PFS



- Only mining, crushing, grinding and magnetic separation on site.
- 65 percent reduction in land area compared to previous concession application.
- 20–30 percent reduction in water demand on site, and no process water discharge.
- Closed loop process water system and controlled storm/groundwater management on site.
- Targeting 100% of extracted materials to be sold as products, compared to less than 1 percent in the previous concession application.
- Potential for further improvement – using waste rock for construction materials and aegirine for pigment or block colouring.
- Chemical processing will take place at an existing industrial location (to be determined) – not at Norra Kärr.
- No part of the operation involves direct contact with Lake Vättern or nearby Natura 2000 areas.

***Project fundamentally redesigned from the version granted a Mining Lease in 2013 –
Reduced environmental impact, increased sustainability.***

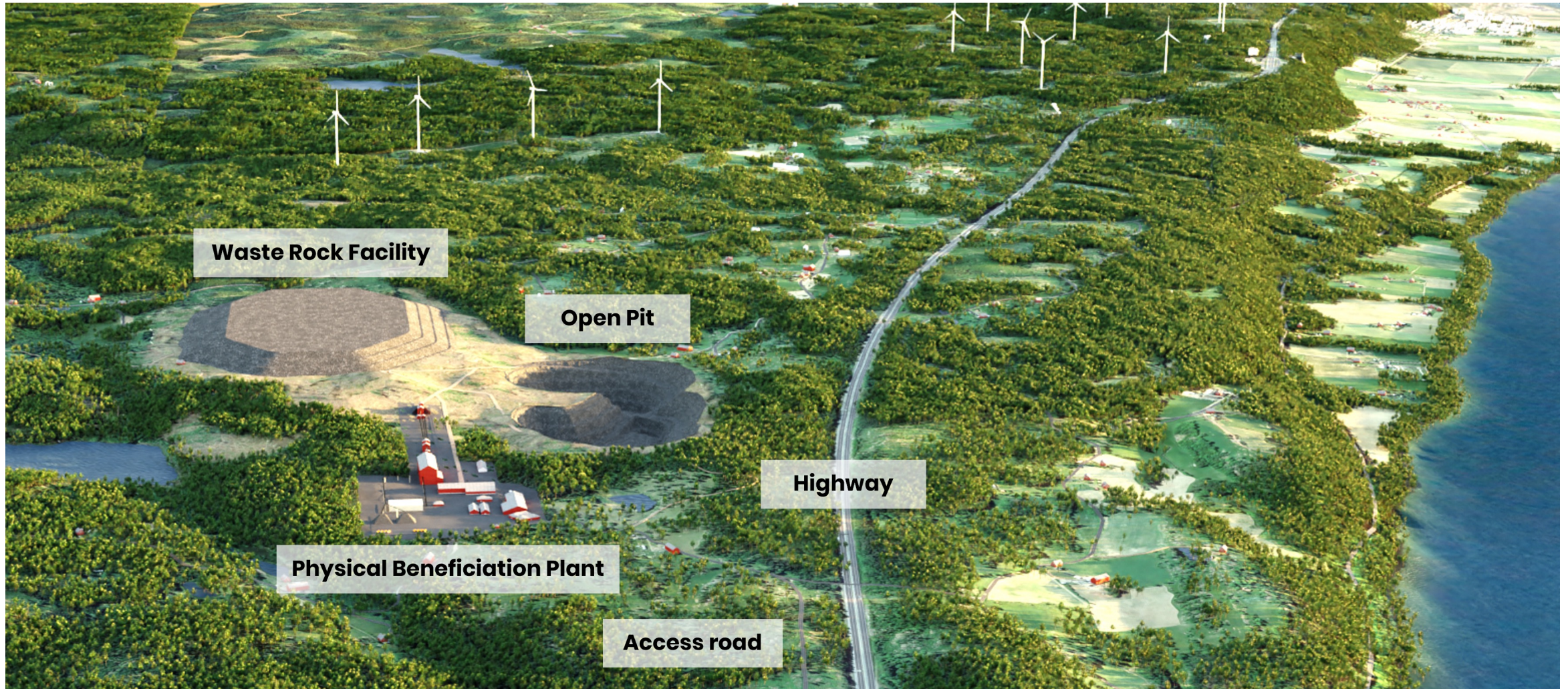
* See National Instrument 43-101 report titled "PRELIMINARY ECONOMIC ASSESSMENT OF NORRA KÄRR RARE EARTH DEPOSIT AND POTENTIAL BY-PRODUCTS, SWEDEN" prepared for Leading Edge Materials Corp. with effective date August 18, 2021 and issue date August 19, 2021. See Leading Edge Materials Corp.'s SEDAR profile on www.sedar.ca or www.leadingedgematerials.com for report and more information. The PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the PEA will be realized.

65% reduction in land area

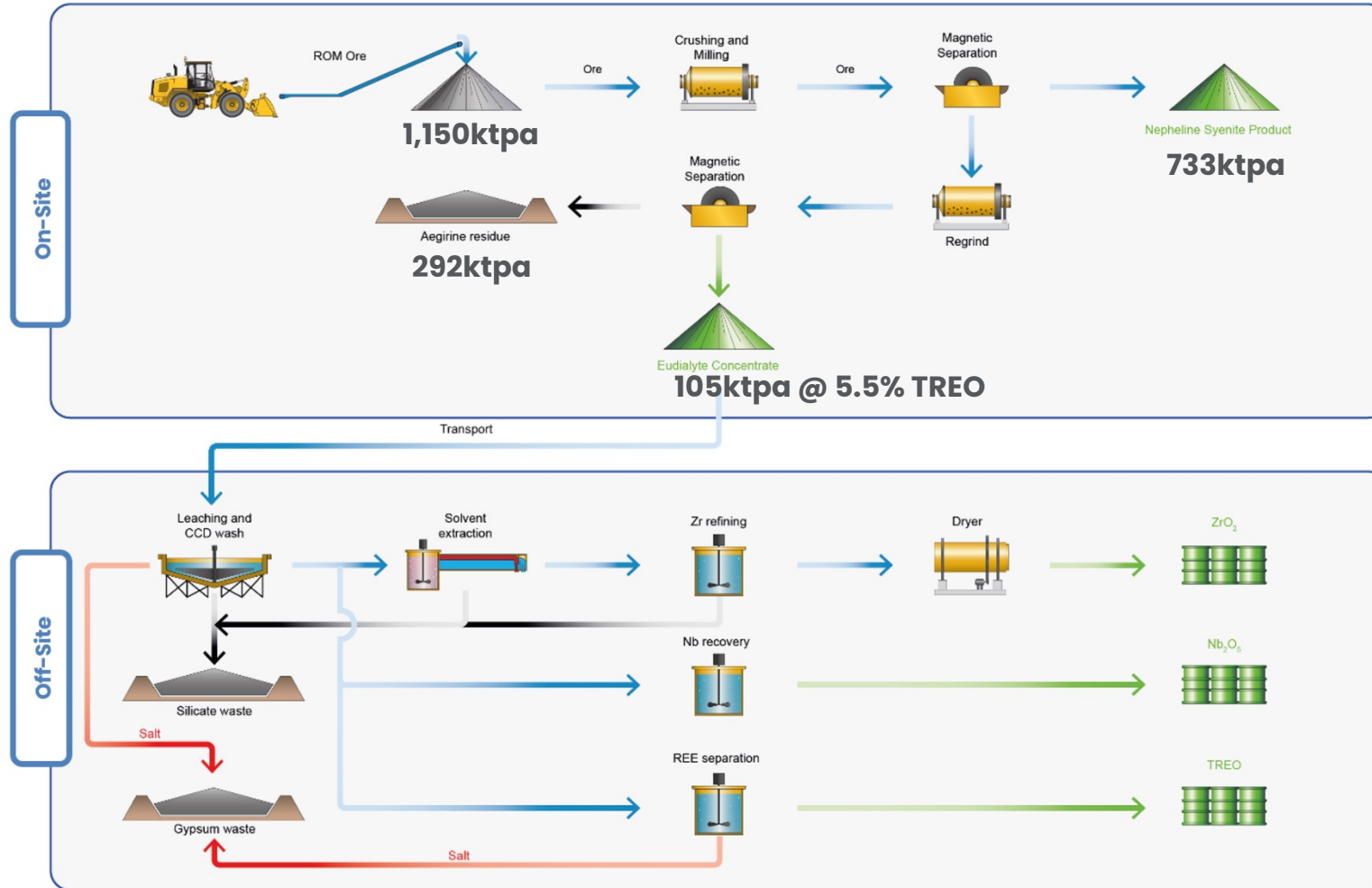


**PEA 2021 design
has eliminated
these areas
included in the
PFS 2015**

Simplified operations



Norra Kärr 2021 PEA* - Operational Highlights



Life of Mine (LOM)	26 years
Mining rate	1.15 Mtpa
Strip Ratio	0.32
TREOs Including MagREOs (Nd, Pr, Dy, Tb)	5,341 tpa 1,005 tpa Dy ₂ O ₃ 248t Tb ₂ O ₃ 36t Nd ₂ O ₃ 578t Pr ₂ O ₃ 143t
Nepheline Syenite	732,885 tpa
Zirconium Oxide	10,200 tpa
Niobium Oxide	525tpa

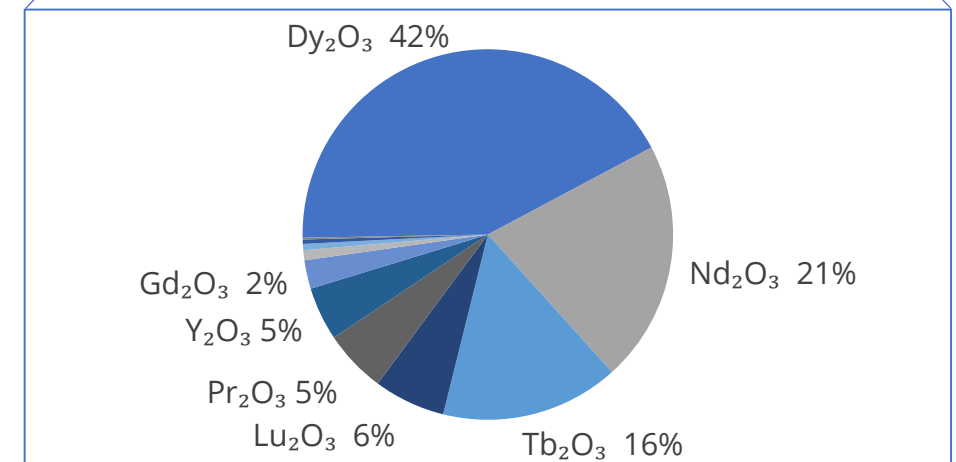
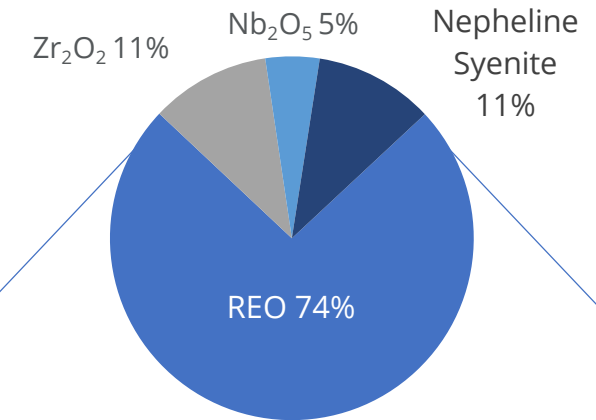
* See National Instrument 43-101 report titled "PRELIMINARY ECONOMIC ASSESSMENT OF NORRA KÄRR RARE EARTH DEPOSIT AND POTENTIAL BY-PRODUCTS, SWEDEN" prepared for Leading Edge Materials Corp. with effective date August 18, 2021 and issue date August 19, 2021. See Leading Edge Materials Corp.'s SEDAR profile on www.sedar.ca or www.leadingedgematerials.com for report and more information. The PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the PEA will be realized.

Norra Kärr 2021 PEA* – Financial Highlights



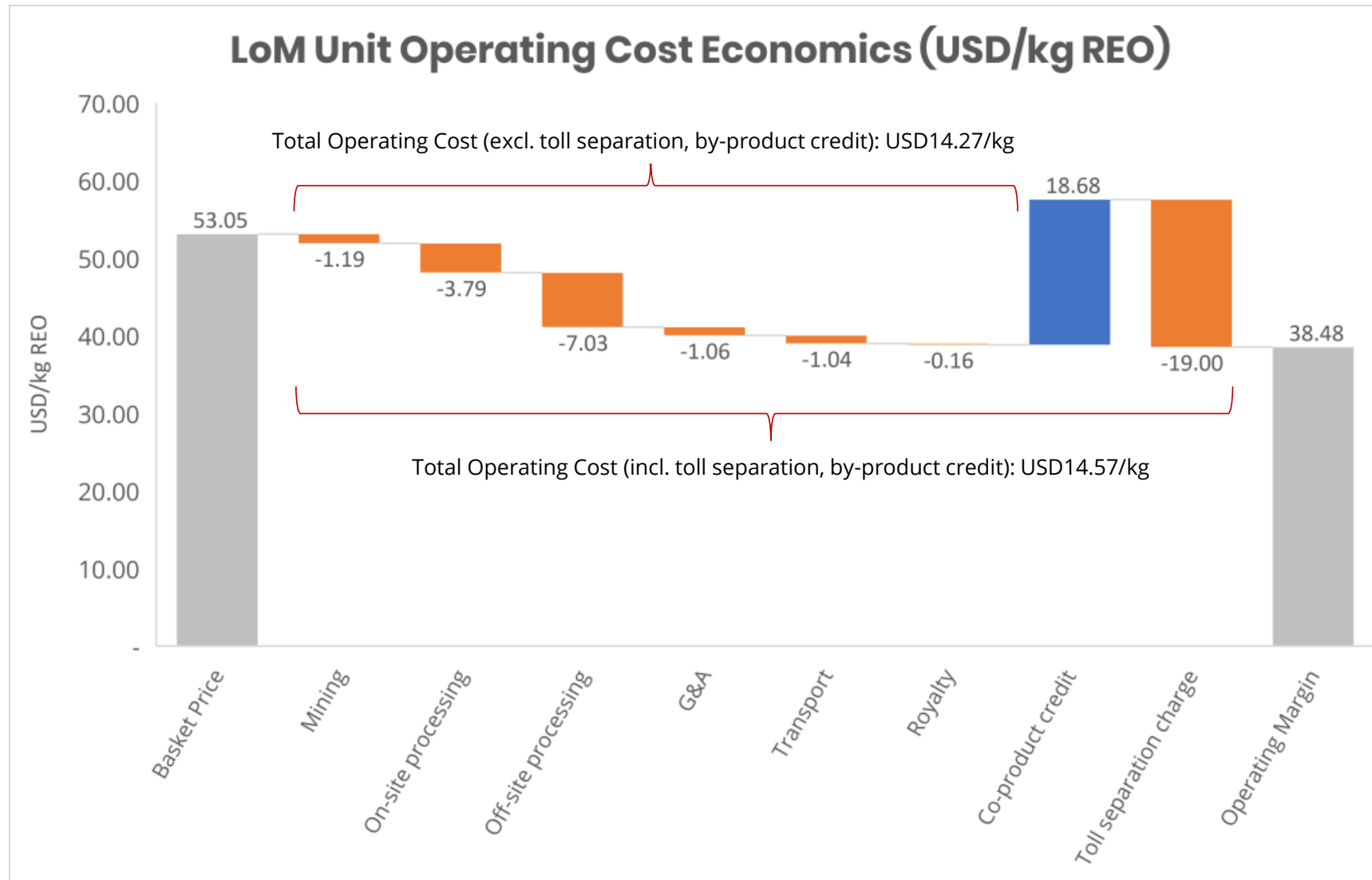
Post-tax Net Present Value (NPV ₁₀)	\$762M
Post-tax Internal Rate of Return (IRR)	26.3%
Accumulated LoM project revenues	\$9,962M
Average annual EBITDA	\$206M
Initial Capital Expenditures (CAPEX)	\$487M (Mine \$165m; and Off-site Processing \$323m).
Pre-tax Payback Period from first production	5.1 years
LoM average gross basket price	\$53/kg of mixed REO product

Revenue Distribution



* See National Instrument 43-101 report titled "PRELIMINARY ECONOMIC ASSESSMENT OF NORRA KÄRR RARE EARTH DEPOSIT AND POTENTIAL BY-PRODUCTS, SWEDEN" prepared for Leading Edge Materials Corp. with effective date August 18, 2021 and issue date August 19, 2021. See Leading Edge Materials Corp.'s SEDAR profile on www.sedar.ca or www.leadingedgematerials.com for report and more information. The PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the PEA will be realized.

Norra Kärr 2021 PEA* – Operating Costs



* See National Instrument 43-101 report titled "PRELIMINARY ECONOMIC ASSESSMENT OF NORRA KÄRR RARE EARTH DEPOSIT AND POTENTIAL BY-PRODUCTS, SWEDEN" prepared for Leading Edge Materials Corp. with effective date August 18, 2021 and issue date August 19, 2021. See Leading Edge Materials Corp.'s SEDAR profile on www.sedar.ca or www.leadingedgematerials.com for report and more information. The PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the PEA will be realized.

Norra Kärr – Sustainability advantage

Comparison of dysprosium production from different resources by life cycle assessment

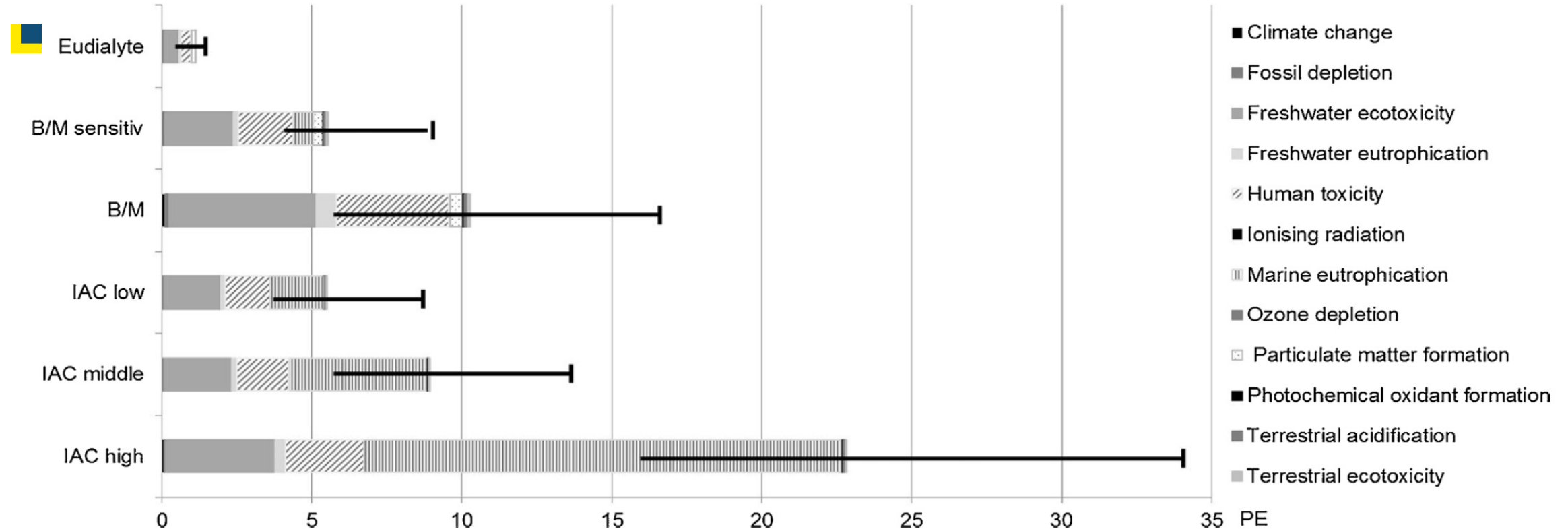
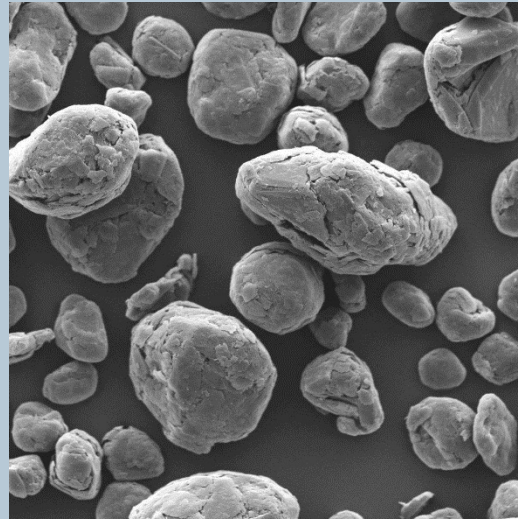
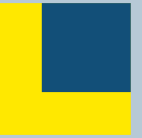


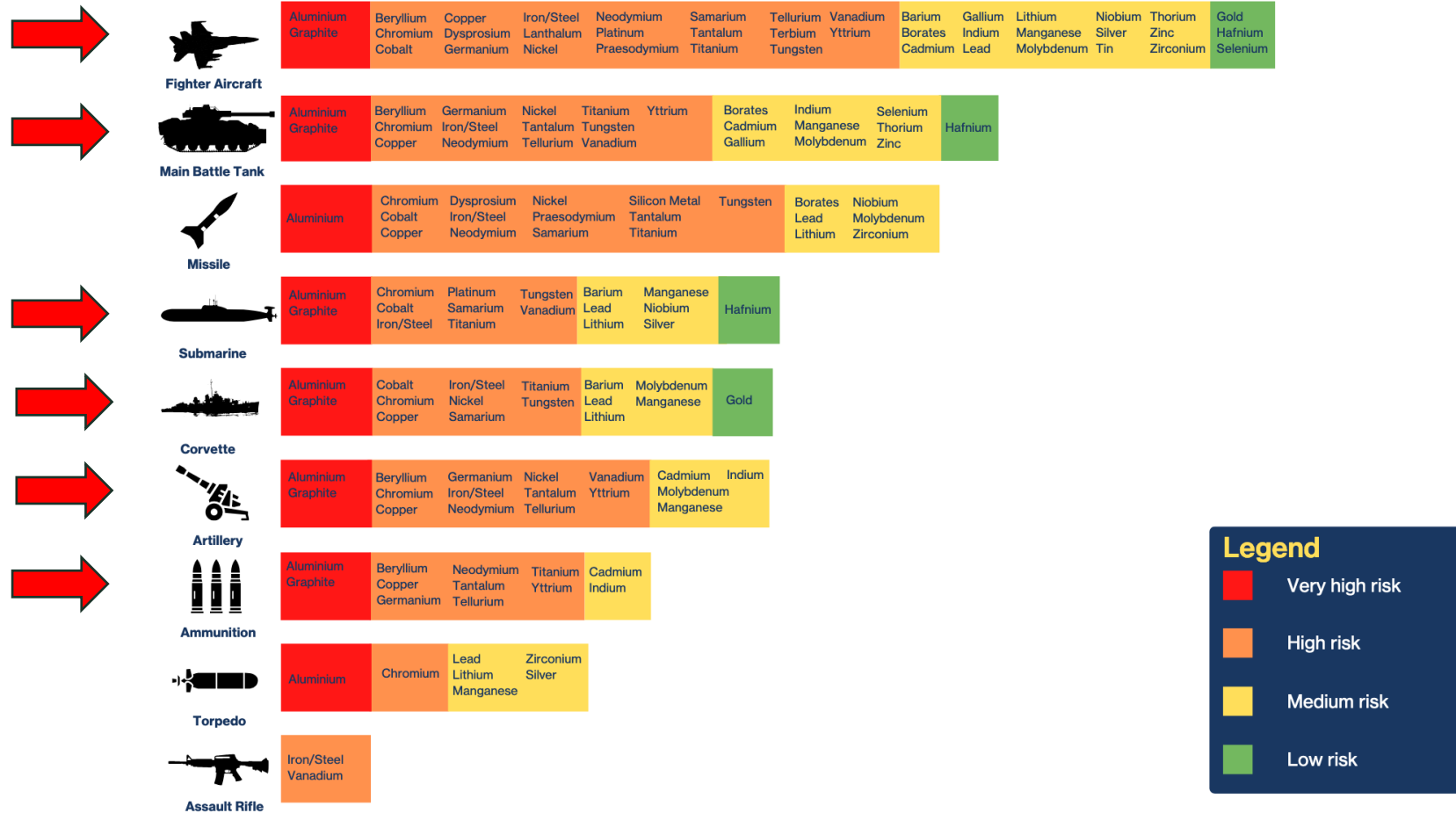
Fig. 3. Normalised impacts of process chains in person equivalents per kg Dy with deviation.



Woxna Graphite

Europe's Defence Industries Graphite Dependency

Supply risk for critical raw materials in military applications



Source: <https://hcss.nl/report/strategic-raw-materials-for-defence/>

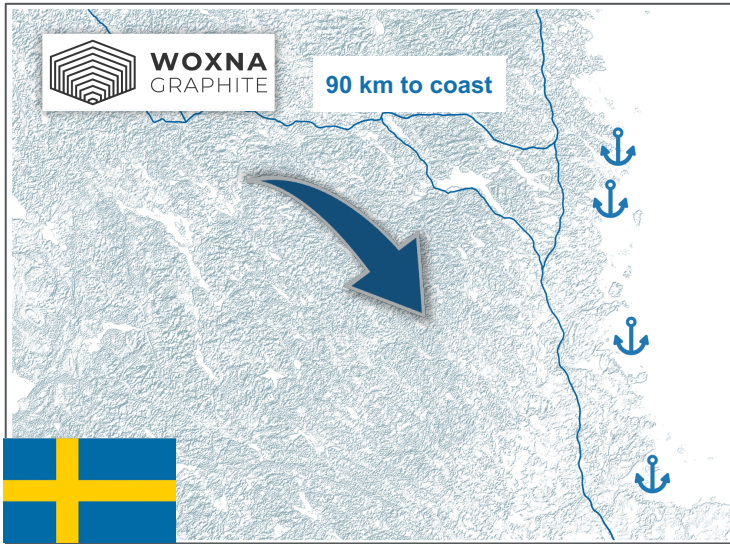
Europe's Battery Industry



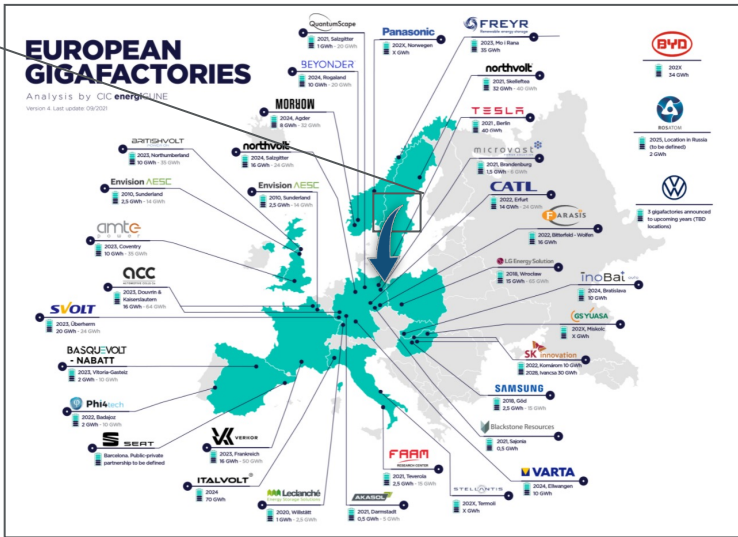
Flake Graphite production needs \$7.5B capex to meet 2035 battery demand. (Benchmark Minerals)

International Energy Agency's Sustainable Development Scenario (SDS) base case projects the mineral demand for battery storage-related materials to increase drastically by 2040 compared to 2020. For manganese, nickel cobalt, graphite, and lithium the projected 2040 estimates range between eight and forty times the 2020 demand.*

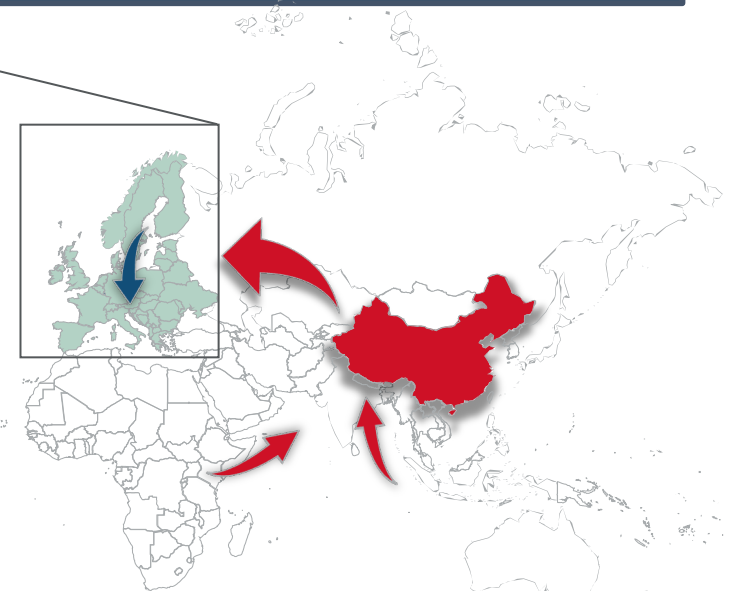
In 2023, China produced about 70% of global supplies of natural flake graphite and almost all the spherical graphite used in anodes for lithium-ion batteries. (Benchmark Minerals)



Woxna is built. Excellent access – roads, ports – to markets.



Proximity to Gigafactory developments in Europe



Contributing to reduced EU dependency on China

*<https://erma.eu/app/uploads/2023/07/e33fa4d1.pdf>

Woxna Graphite Anode PEA*



Financial Highlights

- Post-tax Net Present Value (NPV 8%) of \$248m
- Post-tax IRR of 37.4%
- Accumulated project revenues of \$1,425m
- Average annual EBITDA of \$49m
- Initial Capital Expenditures (CAPEX) of \$121m

Operational Highlights

- Life of Mine (LOM) is 15 years
- LOM average annual plant feed of 159,967 tonnes
- LOM average annual CSPG product 7,435 tonnes

Mineral Resource Estimate

Source: ReedLeyton 2021

Property	Classification of Mineral Resource	Tonnes (Mt)	Grade C (%)
Kringel	Measured	0.96	9.21
	Indicated	1.65	9.09
	Measured + Indicated	2.61	9.13
	Inferred	0.39	8.72

Notes: Inconsistencies in totals are due to rounding; 4% Cg mill cut-off grade applied for reporting purposes constrained within the MPlan 2021 pitshell; Reported according to CIM Definition Standards 2011; Reported according to CIM Mineral Exploration Best Practice Guidelines (Nov 2018); No geological losses applied; Default Density of 2.7 t/m³ applied to in situ, then Density of 2.82 t/m³ applied to Type A Graphite and Density of 2.86 t/m³ applied to Type B Graphite for Gropabo and Mattsmyra; and Default Density for Kringel remained at 2.7 t/m³; The previous Mineral Resource Estimates for the Project were developed without the constraint of an applied mine plan and open-pit shell. In the light of more rigorous compliance requirements, the Mineral Resources were reported by ReedLeyton within the constraints of the PEA mine plan as a means of demonstrating “reasonable prospects for economic extraction” as required by numerous international reporting codes. No new exploration data was included in the reporting process; Effective date of Mineral Resource Estimate is June 9, 2021; and Mineral resources are not mineral reserves and do not have demonstrated economic viability;

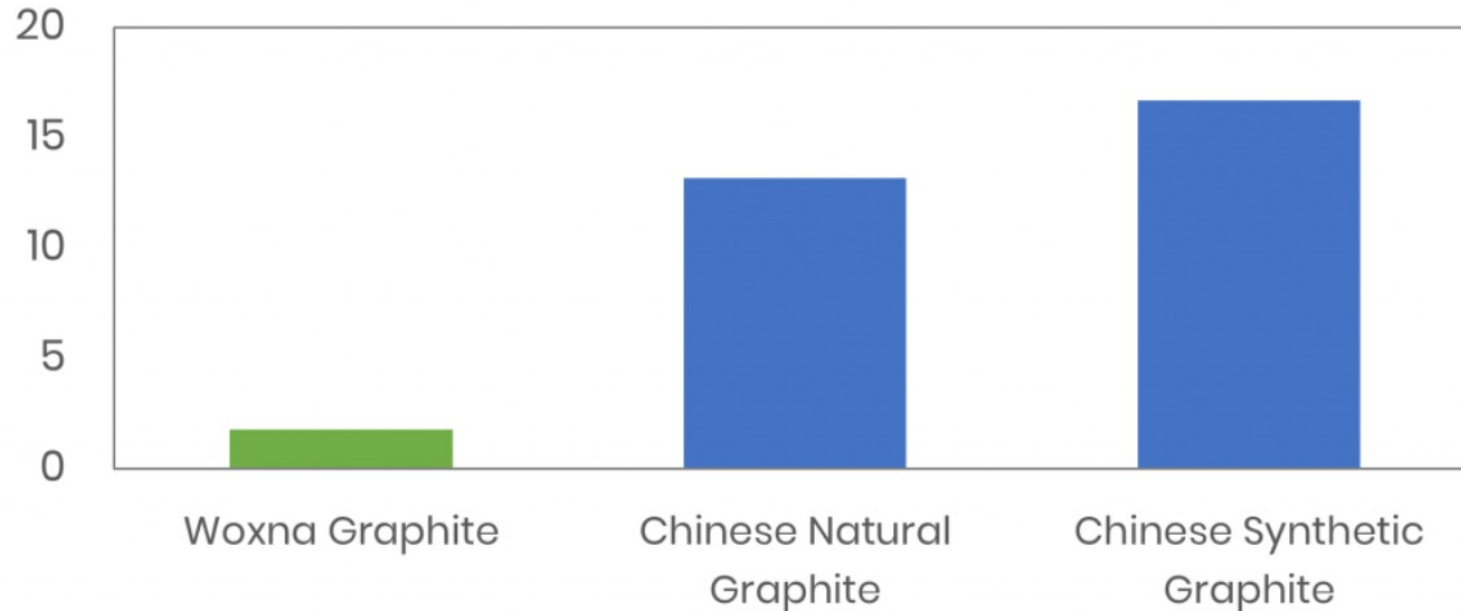
* See National Instrument 43-101 report entitled “NI 43-101 Technical Report – Woxna Graphite” prepared for Woxna Graphite AB with effective date June 9, 2021 and issue date July 23, 2021. See Leading Edge Materials Corp.’s SEDAR profile on www.sedar.ca or www.leadingedgematerials.com for report and more information. The PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the PEA will be realized.

Sustainability leadership*



Coated spherical purified graphite produced from Woxna has 85-90% lower impact than the market dominant Chinese alternatives

kg CO2 eq.



- 1 tonne of coated spherical purified graphite (“CSPG”) produced from Woxna natural graphite is forecast to have an impact of 1.8 tonnes CO2 eq.
- LCA study completed to ISO-104040:2006 and ISO-14044:2006 standards and used a cradle-to-gate approach.

* See news release dated June 21, 2021: <https://leadingedgematerials.com/leading-edge-materials-announces-preliminary-life-cycle-assessment-results-on-woxna-graphite-project/>



Bihor Sud Exploration Project



Cobalt-Nickel exploration in the Tethyan Belt

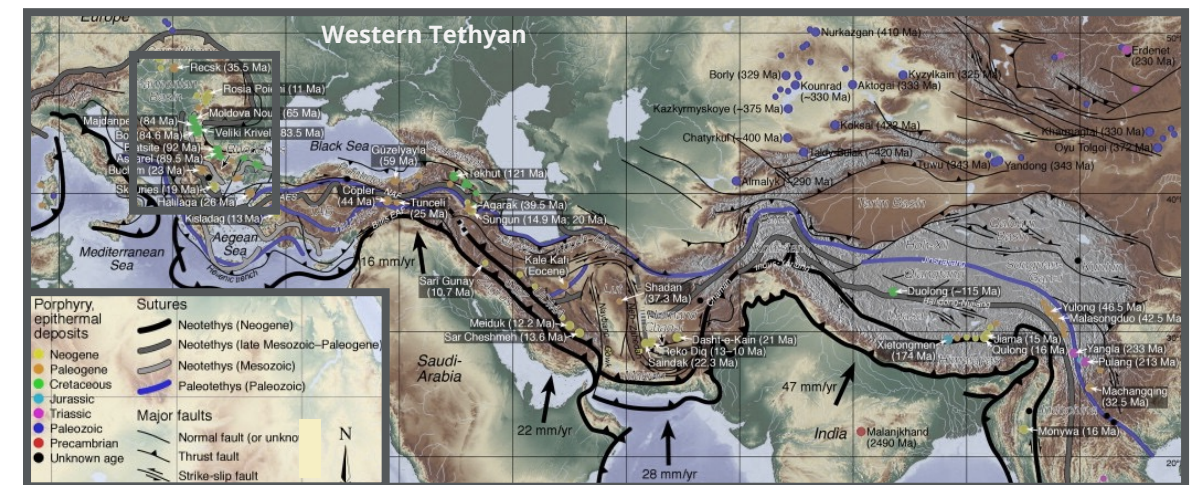
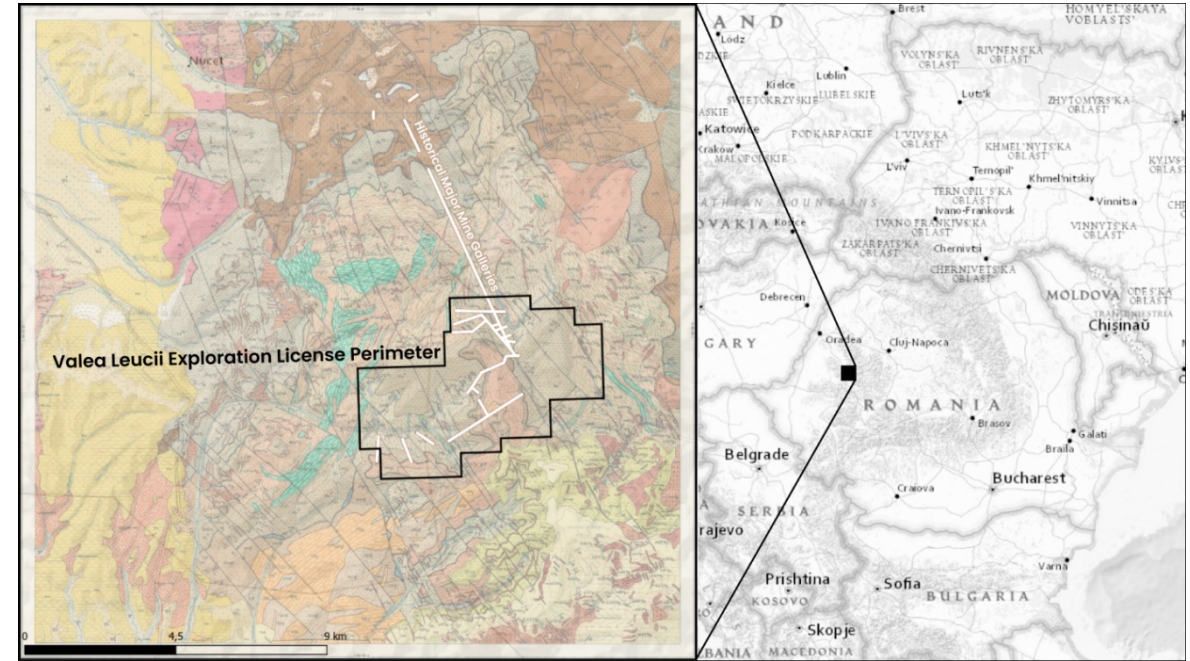


Overview

- JV from 2018 with 51% ownership with potential to move to 90%. Local JV partner operates a Dolomite mine in the area offering shared resources and local knowledge.
- Located in the upper Cretaceous metallogenic belt, part of the Tethyan Belt in a historic mining area with several historic mines, one being a significant uranium mine.
- Initial prospecting campaign and sampling from past mine workings indicates potential for high grade nickel-cobalt mineralization.

Opportunity

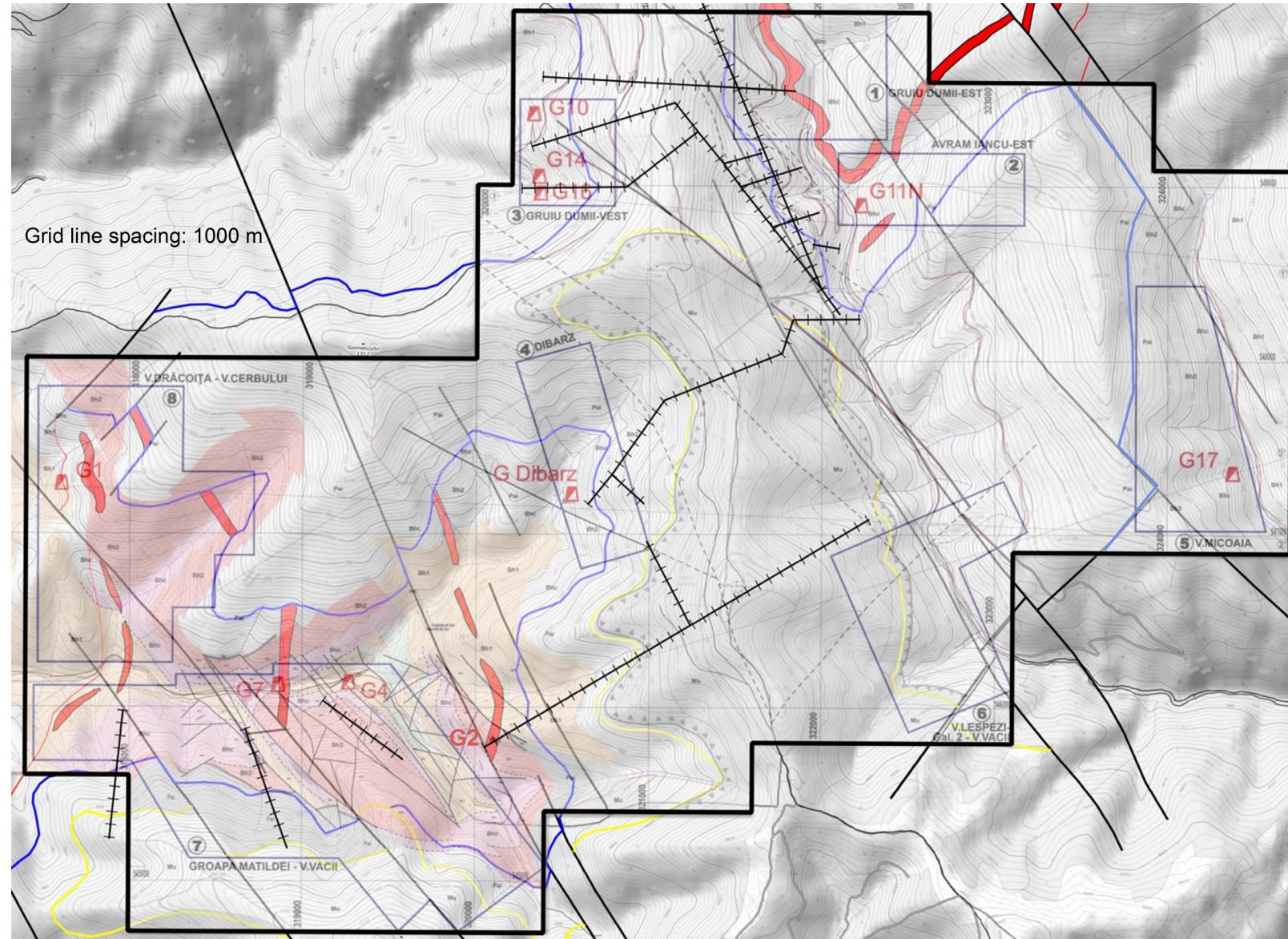
- Bihor Sud is relatively isolated site whilst the road and power network is well developed due to prior mining and forestry. No permanent residences lie within 5km of the Exploration License boundary.
- Exclusive five-year exploration license was granted on 12 May 2022, moving the project towards pre-submitted exploration program. A two year-extension is possible.
- Romania is a historic mining country with rich opportunities but is one of Europe's economically weaker nations which should attract interest from strategic investors.



Historic Mining Camp



- Tens of kilometers of galleries are developed in the license area, previously targeting and mining uranium in replacement orebodies on carbonate.
- A separate mineralization phase yielded Co-Ni-bodies, which was ignored because the responsible division of 1960-90s Romanian state mining only targeted what was then called “strategic metals”, which did not include Co and Ni.
- Extensive Co-Ni-mineralization has been reported from the galleries, especially in the north (area with G10-G16 on the map).
- LEM achieved first the opening of galleries G4 and G7 in the southwestern license area, followed by G2 in Spring 2024.
- Waste dump samples suggested the presence of Co-Ni chiefly in G7, but also Zn-Pb-Cu-Ag mineralization in G4. High-grade Zn-Pb-Cu-Ag has reportedly been mined from G. Dibarz, which forms a near-term target of exploration.



Visible polymetallic mineralization



Left: Stringers of silvery-golden Co-Ni mineralization in low grade metamorphic sediments (gray) from the waste dump of G7.

Right: Cu-rich sample from previously mined Zn-Cu-Pb-Ag deposit in the license area.

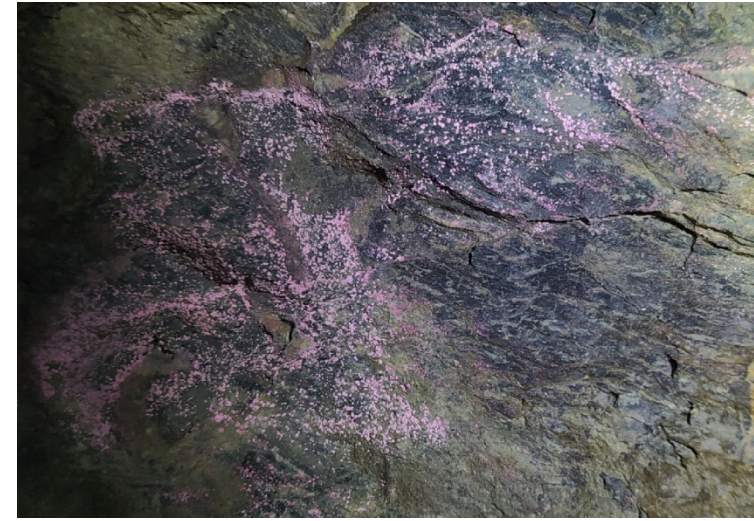


Underground – In situ Co-Ni mineralization



- On 23 January 2023, the Company reported having entered historic galleries G7 and G4 head of schedule because of stringently following all applicable procedures.
- Systematic chip sampling confirms in-situ high grade Co-Ni-Au in G7 and Cu-Zn-Pb-Ag mineralization in G4 within +150 m and 350 m gallery segments, respectively.
- G7 highlights include 6.7% Cobalt , 29.7% Nickel, 15.65 g/t Au with about half of the chip samples exceeding 0.44% Nickel equivalent.
- Co-Ni-Au mineralization occurs on shallow-dipping foliation in schists, on fault cleavage, and in late-state veins cutting the other mineralization styles.
- Although high-grade, the Cu-Zn-Pb-Ag veins in G4 were found to be too thin and discontinuous, not forming a target for further exploration.

Below: Powdery, greenish nickel oxide minerals on the wall of G7 and rocks on the gallery floor. Yellow magnetic pen for scale.



Left: Powdery, pinkish cobalt oxide mineral on foliation in graphitic schist. Individual Co-oxide mineral grains are about 1 mm across.



Below: Pinkish cobalt oxide mineral weathering from schists. Hammer for scale.

Bihor Sud – G2 Potential



Observations in G2

- A preliminary visit in the secured G2 gallery system yielded Co-Ni and Pb-Zn-Ag zones of significant extent.
- In the first 1,600 m, a several meters thick carbonate level was found pervasively altered and mineralized in several places on a +100 m scale as far as exposed underground.
- Hand-held XRF-data shows Pb-Zn grades of several percent along with significant silver grades in the altered carbonates.

2025 tasks

- 4 additional geologists started on site January 2025.
- New drill rig on site. Drilling started February 2025.
- Mapping and sampling of Co-Ni and Zn-Pb-Ag-mineralized zones detected visually and by hand-held XRF in G2.
- Drilling in G2 underway targeting polymetallic mineralization.
- Opening of further galleries to the north of G2 and establishing a safe work environment inside.



Altered and pervasively Zn-Pb-Ag-mineralized carbonate (gray) in G2, exhibiting partial oxidation of accompanying Fe-sulphide (ocre).



Road ahead

Summary



Norra Kärr – Momentum Building Across All Fronts

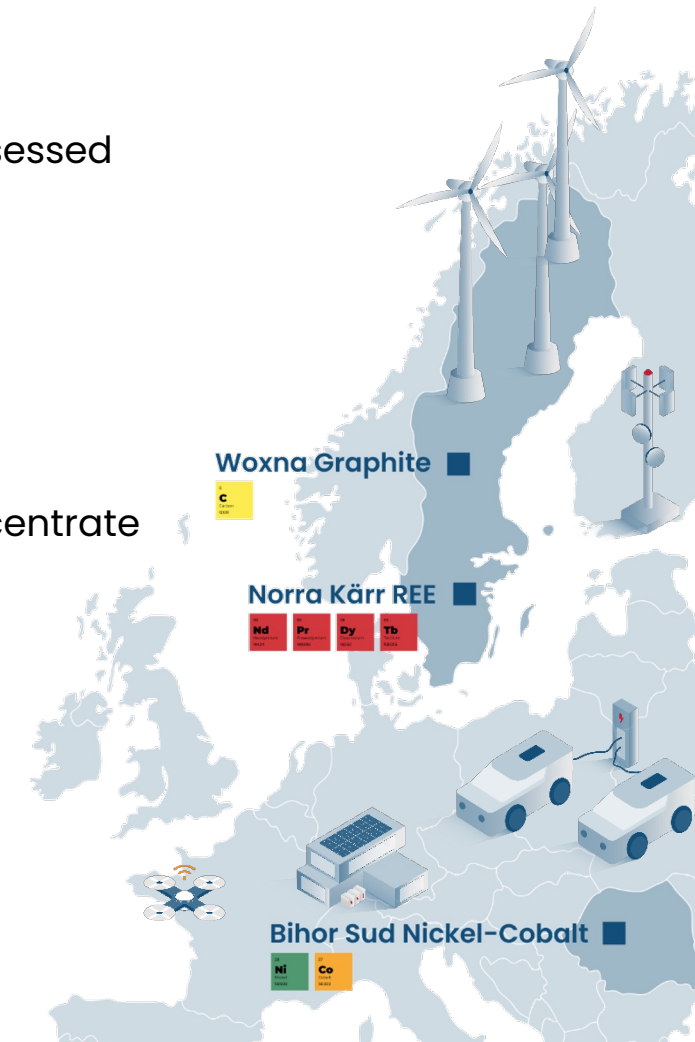
- Permitting milestone – Mining Inspectorate decision anticipated Q4 2025
- Technical advancement – Comprehensive PFS workstreams targeting H1 2026 completion
- Added commercial potential – Industrial minerals, particularly nepheline syenite, being assessed
- Strategic funding opportunity – EU 2nd Call for Strategic Project Applications

Woxna Graphite – Europe Needs Graphite

- Foundation in place – Existing infrastructure and graphite resources
- Asset optimization – Evaluating plant upgrades to produce high-grade flake graphite concentrate
- Enhanced business plan – Security of supply to meet European market demand

Bihor Sud – Reviewing Exploration Priorities

- Technical validation – Competent Person Report (CPR) will consolidate works completed to date and allow a reappraisal of exploration priorities
- CPR will support investigation of alternative financing sources to advance the project





**LEADING EDGE
MATERIALS**



www.leadingedgematerials.com



<https://www.linkedin.com/company/leading-edge-materials-corp>



[@LeadingEdgeMtls](https://twitter.com/LeadingEdgeMtls)

info@leadingedgematerials.com

TSX.V: LEM

Nasdaq First North: LEMSE

OTCQB: LEMIF

FRA: 7FL

