



Potential for

High-Grade | High-Value | High-Tonnage

EU Critical Minerals



Investor Presentation

November 2025

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COMPETENT PERSON STATEMENT

The information in this report that relates to Exploration Results is based on information compiled by Mr Fernando Palero, a Competent Person who is a Member of the European Federation of Geologists. Mr Palero is an independent geological consultant. Mr Palero has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves’. Mr Palero consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Introduction



Osmond Resources (ASX.OSM) is focused on developing the Orión EU Critical Minerals Project.

Uniquely positioned with possibility for **THREE ECONOMIC MINERALS**

Potential for:

High Grade	High Value	High Tonnage	EU Critical Minerals
- Outcrop samples containing over 45% Total Heavy Minerals (THM) - High grades of Rutile (titanium), Zircon (zirconium / hafnium) and Monazite (rare earth elements REE).	- Three Economic Minerals - Rutile; - Zircon; and - Monazite.	- Two interpreted pervasive seams - Mineralised outcrops over 12km apart within Orión permit area - 228km² permit area.	- EU Critical Raw Materials Act 2024 - Three of 17 Strategic Critical Materials - Five of 34 Critical Materials - Spanish Mineral Raw Materials Plan – 2025 to 2029.

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1. Corporate Overview

Capital Structure ASX.OSM

Ordinary Shares (undiluted)		127.0m
Orion Acquisition Milestone Shares (refer ASX Release dated 29 July 2025)		
Stage 2 – Mineral Resource Estimate	42.5m	
Stage 3 – Scoping Study	42.5m	85.0m
Options		41.7m
Fully Diluted Shares		253.8m
Share Price at 3 November 2025	\$1.00	
Undiluted Market Cap		\$127.0m
Fully Diluted Market Cap		\$253.8m
Cash in the Bank at 30 October 2025*		\$3.24m



Key Management

Anthony Hall

Managing Director & CEO

Over 25 years commercial experience in strategy, venture capital, risk management and compliance. Successfully transitioned two natural resources IPOs to ASX300 companies as MD and CEO.

LLB (Hons), BBus,
GradDipAppFin, AGIA

Lachlan Rutherford

Executive Director

25 years exploration and commercial experience in business strategy and project management. Managed two EU critical minerals projects in Spain and Sweden.

PhD, MBA, BSc (Hons)
(Geology).

Fernando Palero

Chief Geologist

Spanish national with over 43 years experience in mining exploration and mining operation in Spain, Africa and South America as a Chief Geologist through to consultant and researcher.

PhD in Geological Sciences.

Gonzalo Mayoral

In-Country Manager

Spanish national with over 25 years experience in construction and mining projects management. Successfully delivered Feasibility Studies for ASX listed Spanish mining developer.

Mining Engineer, Masters level
Environmental and Safety
Studies.

Javier Pontvianne

Process Engineering Mgr

Spanish national with over 10 years experience in concentration and metallurgy within mining projects in Spain and Australia.

Mining Engineer – metallurgy
specialty.

Pedro Rodriguez

Advisor

Spanish national with over 45 years of experience in the mining industry, including seven international mining companies whilst based in Spain.

Qualifications in Geology.

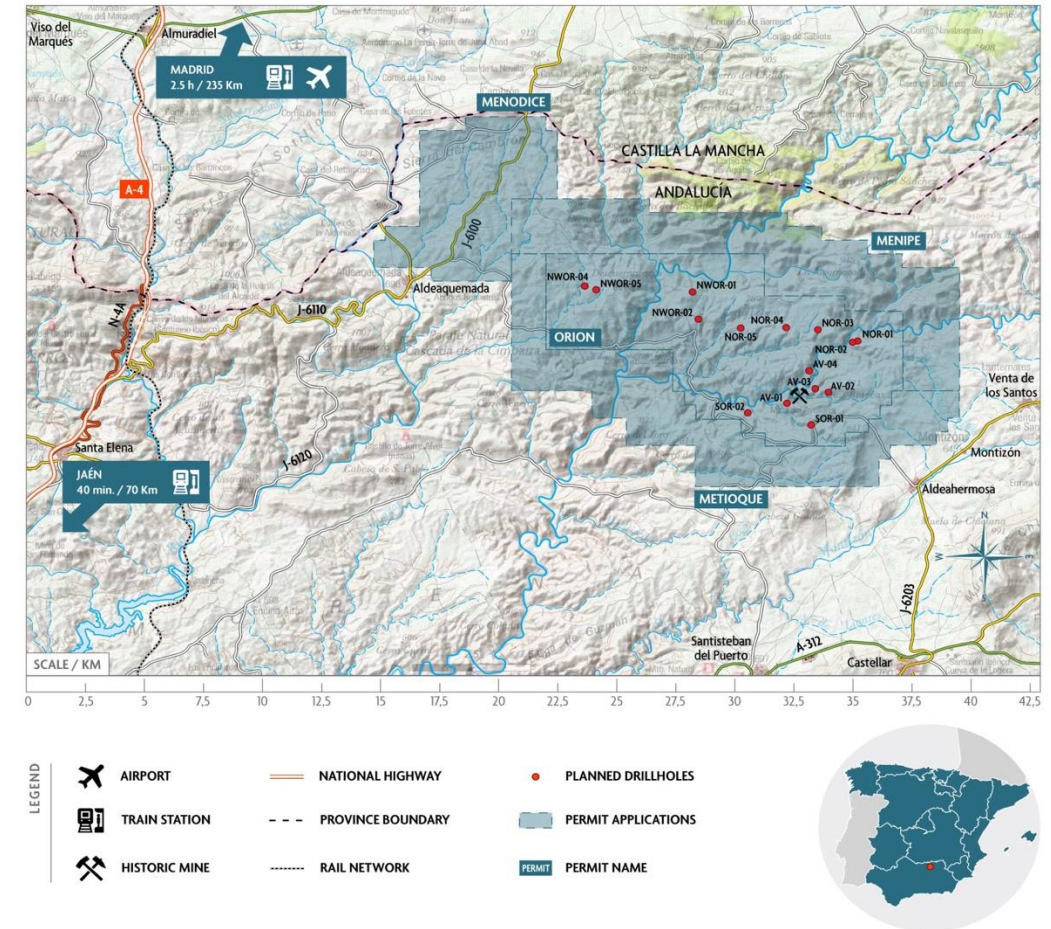
* Current cash balance is expected to be sufficient through Scoping Study completion

2. Orión EU Critical Minerals Project



Overview

- Project located in Jaén Province, Andalucía, Southern Spain
- 756 “cuadrículas mineras” covering an area of ~228km²
- A lithified placer sand geological system with various layers rich in three future facing / critical minerals with high grade potential:
 - Rutile (titanium), zircon (zirconium, hafnium), monazite (REE)
- Unsuccessfully explored for uranium and thorium in the 1950's and 1960's
- Initial target areas are within Orión Permit
- Historic galena (lead) mine in permit area located directly below mineralised outcrops
- Geological mapping has confirmed two primary seams that appear to be pervasive across the Orión Permit
- Staged acquisition; upon Scoping Study OSM will own 80% of Company owning 95% of the Project*



Map showing Orión EU Critical Minerals Project location highlighting planned drillholes

2. Orión EU Critical Minerals Project



Osmond is targeting an Ordovician period seabed, now lithified, containing quartz (silica) sand and heavy minerals

Mineralised
Outcropping
Sequence
– Zone 1



3. High-Grade and Value Potential



Differentiated project has high-value rutile, zircon, hafnium and magnetic rare earths

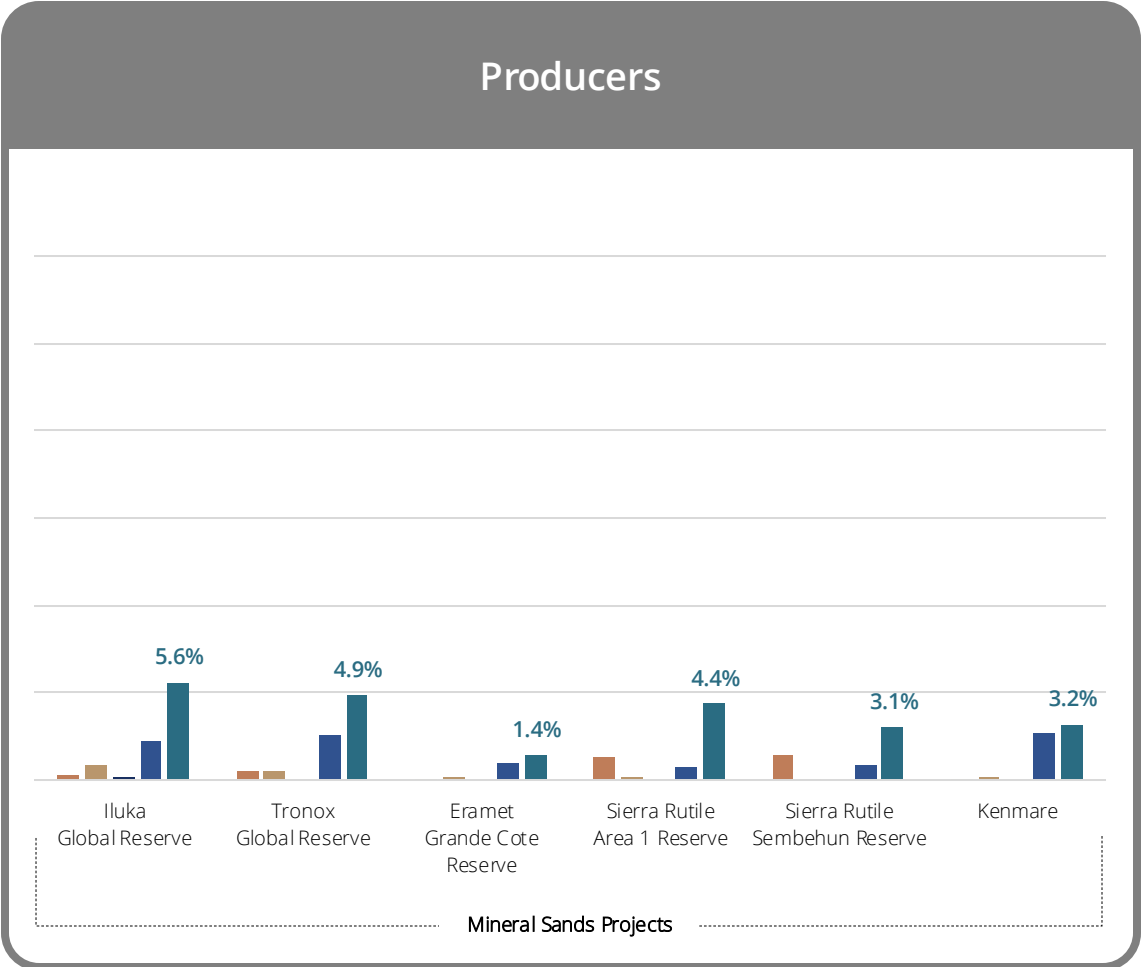
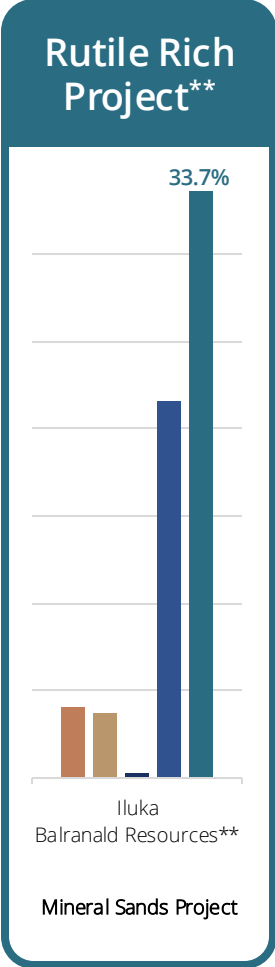
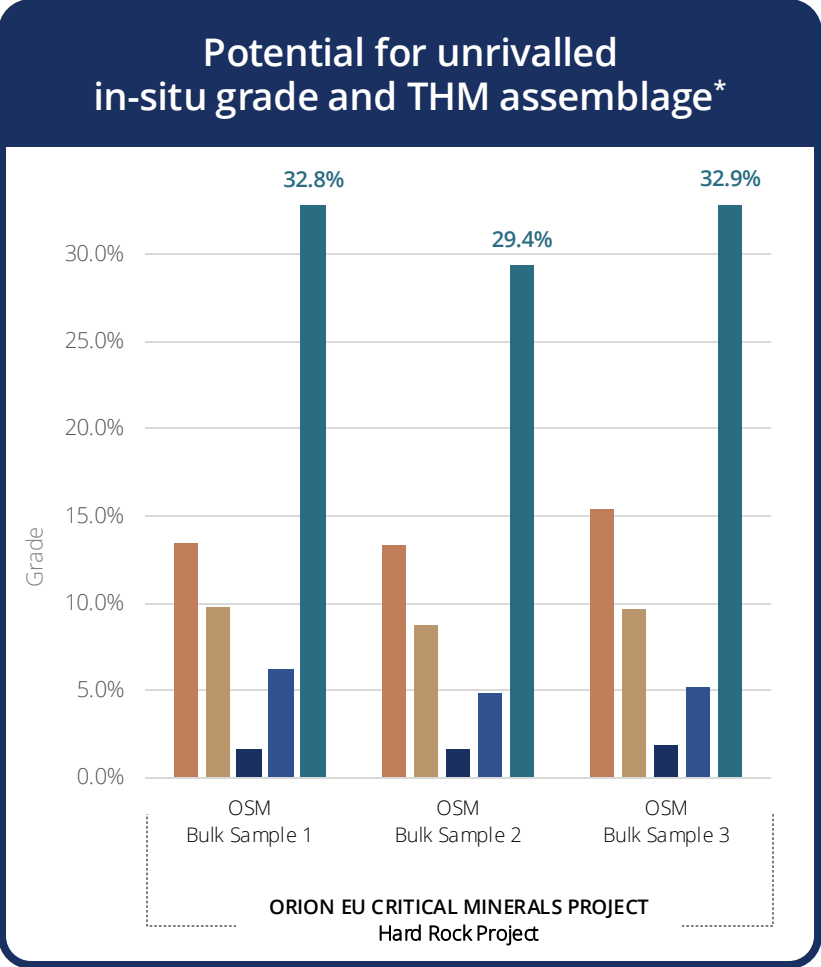
Select Modals and Assay Results from Bulk Samples*						Pricing
Element	Mineral	Unit	Sample 1	Sample 2	Sample 3	Spot Price – 28 Oct 25 (source: metals.com)
Titanium	TiO ₂	%	15.16%	14.04%	15.84%	
	Rutile	%	13.49%	13.36%	15.35%	\$1,885/t
	Ilmenite	%	6.19%	4.82%	5.14%	\$522/t
Zirconium	ZrO ₂	%	5.57%	5.07%	5.65%	
	Zircon	%	9.79%	8.77%	9.64%	\$1,659/t
Rare Earths	Monazite	%	1.62%	1.56%	1.77%	
	Allanite	%	0.24%	0.02%	0.04%	
	Xenotime	%	0.04%	0.03%	0.04%	
	TREO%***	%	1.18%	1.07%	1.17%	
Heavy Minerals**		%	32.8%	29.4%	32.9%	
Element	Oxides	Unit	Sample 1	Sample 2	Sample 3	
Hafnium	HfO ₂	ppm	1,204	1,178	1,295	\$5,080,400/t#
Lanthanum	La ₂ O ₃	ppm	2,154	1,964	2,113	
Cerium	CeO ₂	ppm	5,305	4,815	5,270	
Praseodymium	Pr ₆ O ₁₁	ppm	575	520	568	\$68,641/t
Neodymium	Nd ₂ O ₃	ppm	2,049	1,858	2,039	\$68,331/t
Samarium	Sm ₂ O ₃	ppm	366	331	364	
Terbium	Tb ₄ O ₇	ppm	33	30	33	\$817/kg
Dysprosium	Dy ₂ O ₃	ppm	155	142	154	\$191/kg
Ytterbium	Yb ₂ O ₃	ppm	79	72	77	
Yttrium	Y ₂ O ₃	ppm	689	628	684	

* Refer ASX Release dated 6 September 2024. ** THM includes other minor minerals.

*** TREO: Total Rare Earth Oxides - Y₂O₃, La₂O₃, CeO₂, Pr₆O₁₁, Nd₂O₃, Sm₂O₃, Eu₂O₃, Gd₂O₃, Tb₄O₇, Dy₂O₃, Ho₂O₃, Er₂O₃, Tm₂O₃, Yb₂O₃, Lu₂O₃

n.b. metals price not representative of likely concentrate sales price.

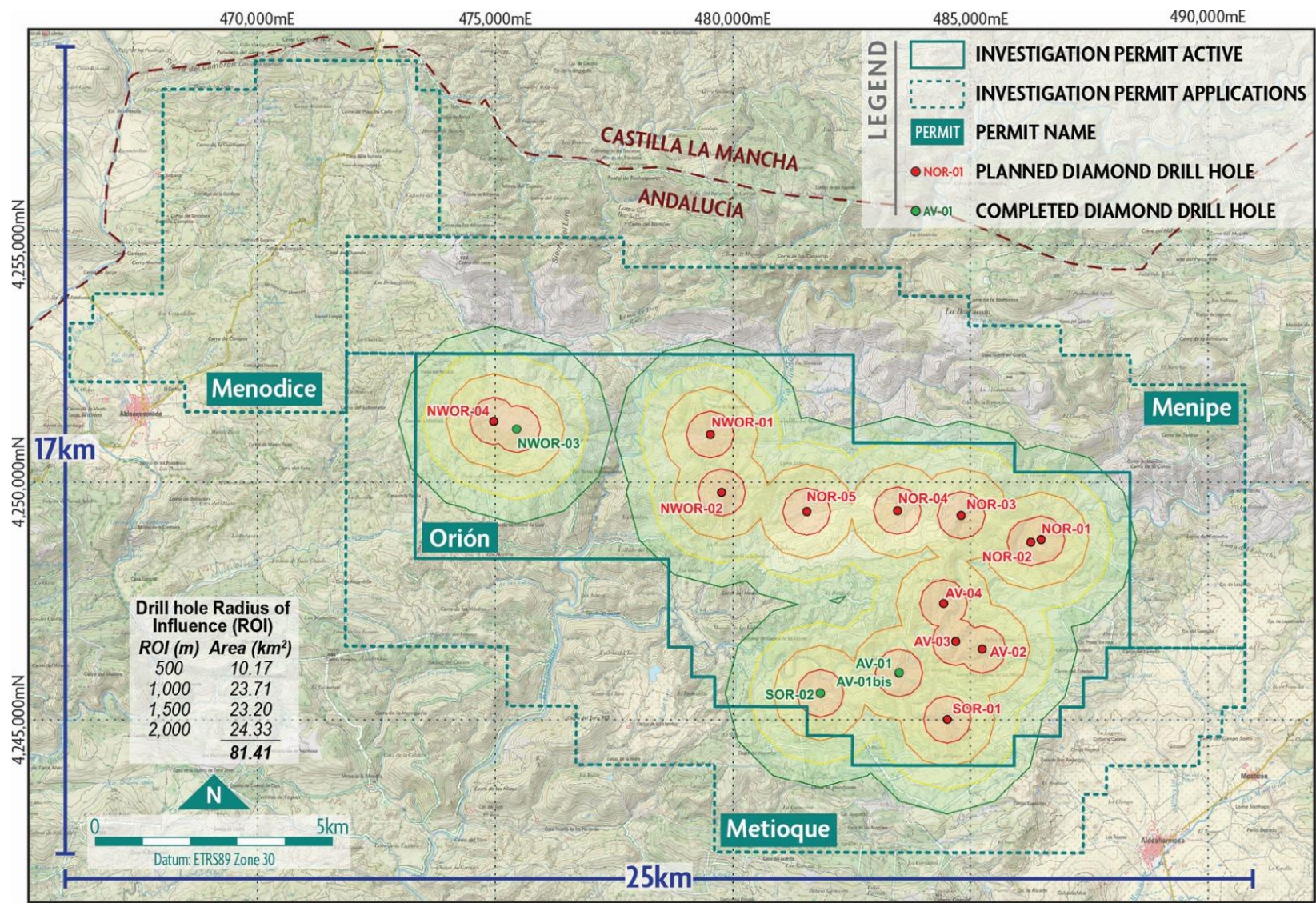
3. High-Grade and Value Potential



■ Rutile ■ Zircon ■ Monazite ■ Ilmenite ■ THM (Total Heavy Metals)***

* Refer to results in ASX Release dated 15 October 2025 (table 3)
** Balranald is Iluka's "Rutile Rich" project <https://www.iluka.com/operations-resource-development/resource-development/balranald>
*** THM includes other minor minerals

4. High-Tonnage Potential



Map of Orion Project showing distances from East to West and North to South, and the location of initial 15 drill hole campaign and indicative potential for ROI / km²

5. EU Critical Minerals



EU focus on Critical Raw Materials likely to fast-track development, financing and production

Strategic Raw Materials	Critical Raw Materials	
bauxite/alumina/aluminium	antimony	light rare earth elements
bismuth	arsenic	lithium
boron - metallurgy grade	bauxite/alumina/aluminium	magnesium
cobalt	baryte	manganese
copper	beryllium	graphite
gallium	bismuth	nickel - battery grade
germanium	boron	niobium
lithium - battery grade	cobalt	phosphate rock
magnesium metal	coking coal	phosphorus
manganese - battery grade	copper	platinum group metals
graphite - battery grade	feldspar	scandium
nickel - battery grade	fluorspar	silicon metal
platinum group metals	gallium	strontium
rare earth elements for permanent magnets (Nd,Pr,Tb,Dy,Sm)	germanium	tantalum
silicon metal	hafnium	titanium metal
titanium metal	helium	tungsten
tungsten	heavy rare earth elements	vanadium

5. EU Critical Minerals

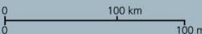


EU Critical Raw Materials Act framework will underpin key support for Osmond’s Spanish project

The Orion Critical Minerals Project has the potential to help the EU to meet its 2030 Extraction Goals



- Andalusia's Iberian Pyrite Belt has been mined since ancient Roman times, making it one of the oldest and richest mining regions in Europe.
- Andalusia is Spain's leading mining region and one of the major copper-producing areas in Europe, with significant activity in the Iberian Pyrite Belt.
- Key active mines include Cobre Las Cruces, Rio Tinto (Atalaya Mining), and the MATSA mines (Aguas Teñidas, Magdalena, and Sotiel).
- Spain had over 2,600 active mines and quarries as of 2023.
- The Andalusia region has the highest concentration, with nearly 500 active mines.



7. Future Facing Technologies



Future facing technology demand drivers

	Space Tech	Drones	Robotics	3D Printing	Aerospace	Computing
						
47.86722 [Ar]3d²4s² Ti Melting point: 1668°C Boiling point: 3287°C TITANIUM						
91.22440 [Kr]4d²5s² Zr Melting point: 1855°C Boiling point: 4377°C ZIRCONIUM						
178.4972 [Xe]4f¹⁴5d²6s² Hf Melting point: 2233°C Boiling point: 4603°C HAFNIUM						
28.085514 3s²3p² Si Melting point: 1412°C Boiling point: 2355°C SILICON Latin name: Silicium						
REE 60 Nd 59 Pr 62 Sm 64 Gd 65 Tb 66 Dy 71 Lu 39 Y						

Humanoids, Robots and High-Tech Electronics

- Titanium alloy important in robotics for strength, low weight, and corrosion resistance
- Hafnium and rare earths are vital for semiconductors and advanced computing

Defence & Aerospace

- Titanium, zirconium, and rare earths provide strength, heat resistance, and precision for aircraft, satellites, and defence systems

Renewable Energy

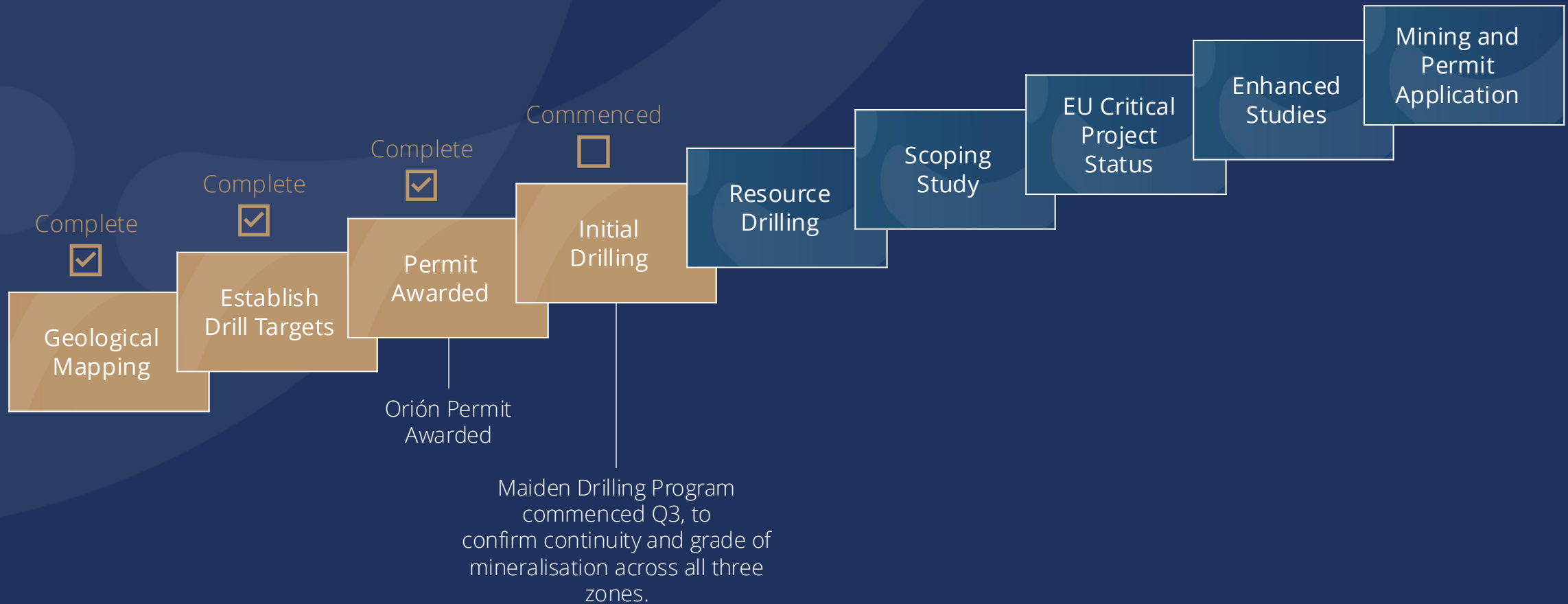
- Rare earth magnets drive wind turbine generators

Electric Mobility

- Rare earths (Nd, Pr, Dy, Tb) enable high-performance EV motors

8. Milestones

Key Milestones to drive shareholder value



9. Summary



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Appendix 1 - High-Value Potential



150kg Bulk Sample results show unrivalled THM assemblage – multiple times higher than peer average

Select Modals and Oxides from 150kg Bulk Sample Results*

	Sample 1	Sample 2	Sample 3
Style:	<i>Hard rock (lithified min. sands)</i>		
	Insitu grade		
Rutile	13.49%	13.36%	15.35%
Leucoxene	-	-	-
Ilmenite	6.19%	4.82%	5.14%
Zircon	9.79%	8.77%	9.64%
Mz+Xn	1.66%	1.59%	1.81%
	Total Heavy Mineral (THM)**		
THM	32.8%	29.4%	32.9%
	THM Assemblage		
Rutile	41.1%	45.4%	46.6%
Leucoxene			
Ilmenite	18.9%	16.4%	15.6%
Zircon	29.8%	29.8%	29.3%
Mz+Xn	5.1%	5.4%	5.5%

HIGH
VALUE

Company	Iluka		Tronox ³	Eramet ⁴	Sierra Rutile ⁵		Kenmare ⁶
Location	Balranald ¹	Global ²	Global	Grande Côte	Area 1	Sembehun	
Category	Resource	Reserve	Reserve	Reserve	Reserve	Reserve	
Style:	<i>Min. sand</i>	<i>Min. sand</i>	<i>Min. sand</i>	<i>Min. sand</i>	<i>Min. sand</i>	<i>Min. sand</i>	<i>Min. sand</i>
	Insitu grade						
Rutile	3.7%	0.3%	0.5%	0.04%	1.34%	1.46%	0.06%
Leucoxene	-	-	-	0.05%	-	-	-
Ilmenite	19.7%	2.2%	2.6%	1.03%	0.75%	0.91%	2.67%
Zircon	3.4%	0.9%	0.5%	0.15%	0.13%	0.11%	0.17%
Mz+Xn	0.3%	0.2%	-	-	-	-	-
	Total Heavy Mineral (THM)						
THM	31.2%	5.6%	4.9%	1.43%	4.36%	3.08%	3.2%
	THM Assemblage						
Rutile	12.0%	5.0%	9.8%	2.5%	30.7%	47.4%	1.9%
Leucoxene	-	-	-	3.2%	-	-	-
Ilmenite	63.0%	40.0%	53.5%	72.0%	17.2%	29.5%	83.3%
Zircon	11.0%	16.0%	10.3%	10.7%	3.0%	3.6%	5.3%
Mz+Xn ⁷	0.9%	2.7%	-	-	-	-	-

¹ ILU Mineral Resources ASX release dated 31 Dec 2024

² ILU ASX release dated 19 Feb 2025

³ TROX NYSE release dated 12 Feb 2025

⁴ ERA 2023 Annual Financial Report, release dated 9 Apr 2024; Assumed THM assemblage from MDL MRE update dated 19 Feb 2018

⁵ SRX ASX release dated 24 Mar 2023

⁶ KMR 2023 Annual Report dated 4 Apr 2024

⁷ Mx+Xn = monazite + xenotime

*Refer ASX Release dated 23 April 2025

** THM includes other minor minerals.

Appendix 2 - Spain 2025–29 Mineral Strategy

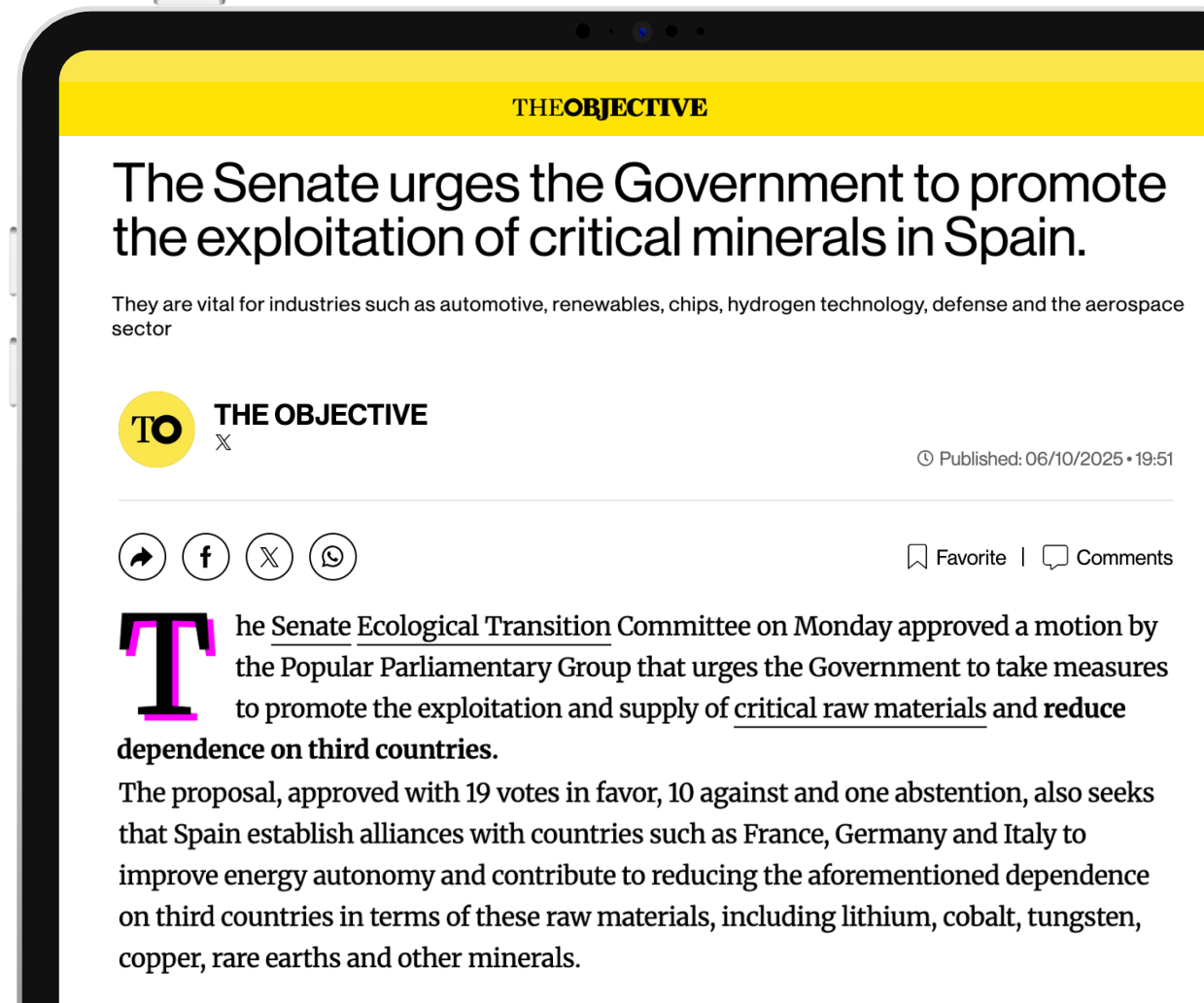


Strategic Priorities for Sustainable Mineral Exploration and Resource Recovery

- Targeting high-value critical minerals to strengthen European resilience and reduce reliance on imports
 - Rare earths and other strategic resources
 - Supports Europe's clean energy and technology goals
- Advancing Spain's sustainable mineral strategy with a focus on exploration and processing opportunities
- €400 million fund allocated for soil and mining rehabilitation supporting resource recovery
 - Funding for equipment, technology and operational costs for resource recovery
- Embedding circular economy principles to recover metals from landfills, tailings and industrial waste
- Streamlining approvals through collaboration with regional and national authorities, including single-point-of-contact permitting.

Source: <https://theobjective.com/espana/2025-10-06/senado-gobierno-minerales-criticos-espana/>

Spain is in the midst of a Critical Minerals Push



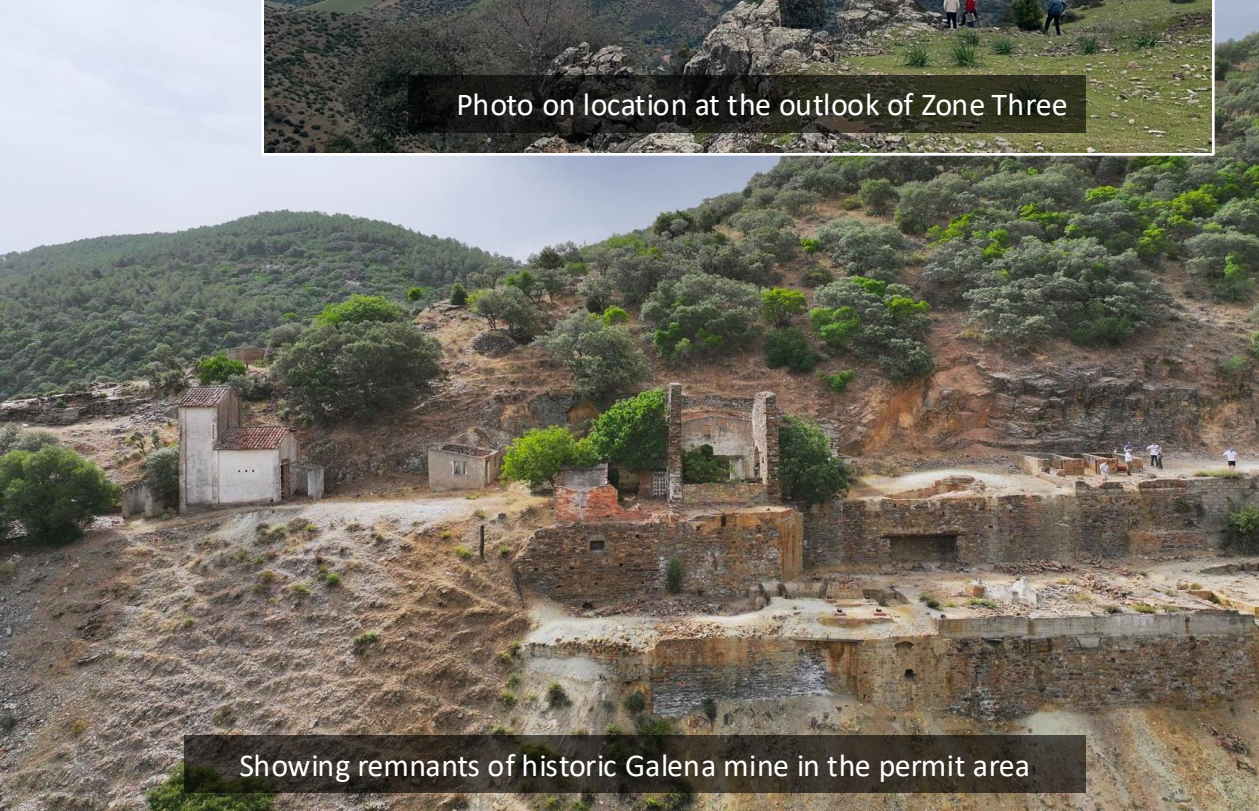
Appendix 3 – Location Pictures



Photo on location at the outlook of Zone Three



Mineralised Seam Outcrops from Zone Three



Showing remnants of historic Galena mine in the permit area



Photo showing the large scale of Outcrops

Appendix 4 – Balranald Project MRE



Iluka Balranald Mineral Resource Estimate (MRE)

MURRAY BASIN MINERAL RESOURCE BREAKDOWN BY DISTRICT, DEPOSIT AND JORC CATEGORY AT 31 DECEMBER 2024													
Summary of Mineral Resources for Murray Basin ^(1,3,6,7,8)				2024	2023	Diff	2024		HM Assemblage ⁽⁴⁾				Comments on Change of Resource
District	Deposit	Mineral Resource Category ⁽²⁾	Material Tonnes Mt	In Situ HMTonnes Mt	In Situ HMTonnes Mt	In Situ HMTonnes Mt	HM Grade (%)	Clay Grade (%)	Ilmenite Grade (%)	Zircon Grade (%)	Rutile Grade (%)	(M+X) ⁽⁵⁾ Grade (%)	
Balranald	Endeavour	Inferred	7.6	1.9	1.9	-	25.5	2	58	9	13	0.7	No Change
		Indicated	8.4	2.3	2.3	-	27.5	4	60	14	15	1.1	No Change
	West Balranald	Inferred	0.8	0.1	0.1	-	11.2	7	57	15	14	1.2	No Change
		Measured	5.9	2.6	2.6	(0.0)	43.9	8	64	12	13	0.9	Updated model
		Indicated	26.3	8.6	8.6	0.0	32.7	6	64	11	12	0.9	Updated model
		Inferred	4.5	1.2	1.2	-	26.2	6	62	8	9	0.4	No Change
	Balranald Measured Total		6	2.6	2.6	(0.0)	43.9	8	64	12	13	0.9	
Balranald	Indicated Total		35	10.9	10.9	0.0	31.4	5	63	12	12	0.9	
Balranald	Inferred Total		13	3.2	3.2	-	24.9	4	60	9	12	0.6	
Balranald	Total		54	16.7	16.7	0.0	31.2	5	63	11	12	0.9	



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