

Securing a European critical raw material supply for generations to come



ROCKFIRE
Resources plc

**Corporate
Presentation**
October 2024

(AIM:ROCK)



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Rockfire Resources plc (AIM:ROCK)



| Rockfire Resources plc | | As at 11 October 2024 |
|-------------------------|--|-----------------------|
| AIM:ROCK | | |
| Market Cap: | | £3.16m |
| Shares in Issue: | | 3.09b |
| Warrants: | | 0 |
| Options: | | 0 |
| 52 Wk Low: | | 0.1p |
| 52 Wk High: | | 0.4p |
| Key Shareholders: | | Top 3 hold 35.63% |
| Directors & Management: | | 9.40% |

| Board of Directors | Position in Rockfire | Background & Training |
|--------------------|------------------------|-----------------------|
| Gordon Hart | Chairman | Stockbroker |
| David Price | CEO and MD | Geologist |
| Nicholas Walley | Non-executive Director | Businessman |
| Patrick Elliott | Non-executive Director | Geologist |
| Ian Staunton | Non-executive Director | Auditor |

Greece – Critical Raw Materials in Europe



As the proud custodian of one of the largest critical raw material deposits in Europe, Rockfire is positioned at the centre of the Continent's critical raw material supply chain.

With a resolute commitment to responsible exploration and mining, we strive to be leaders in the exploration for, and development of essential metals in Europe.

Our zinc, lead, silver and germanium resources in Greece are building a domestic supply to power Europe for generations to come.

Critical Raw Materials In Greece



Rockfire is building a rapidly growing resource base of critical raw materials in Europe. These resources are positioned in countries known for their mineral wealth, allowing us to attain a leading position in the European critical raw material market.



**Inferred JORC (2012) 15.0 million tonnes
7.26 % Zn, 1.75 % Pb, 39.5 g/t Ag (9.96 % zinc equivalent)
1.09mt of zinc, 260,000t of lead 19.1moz of silver**

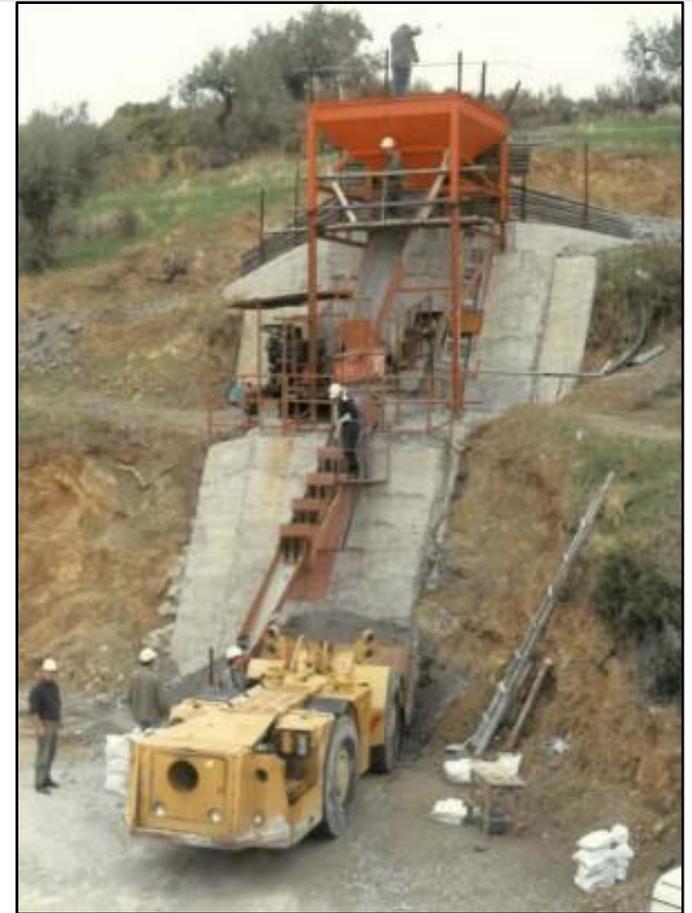
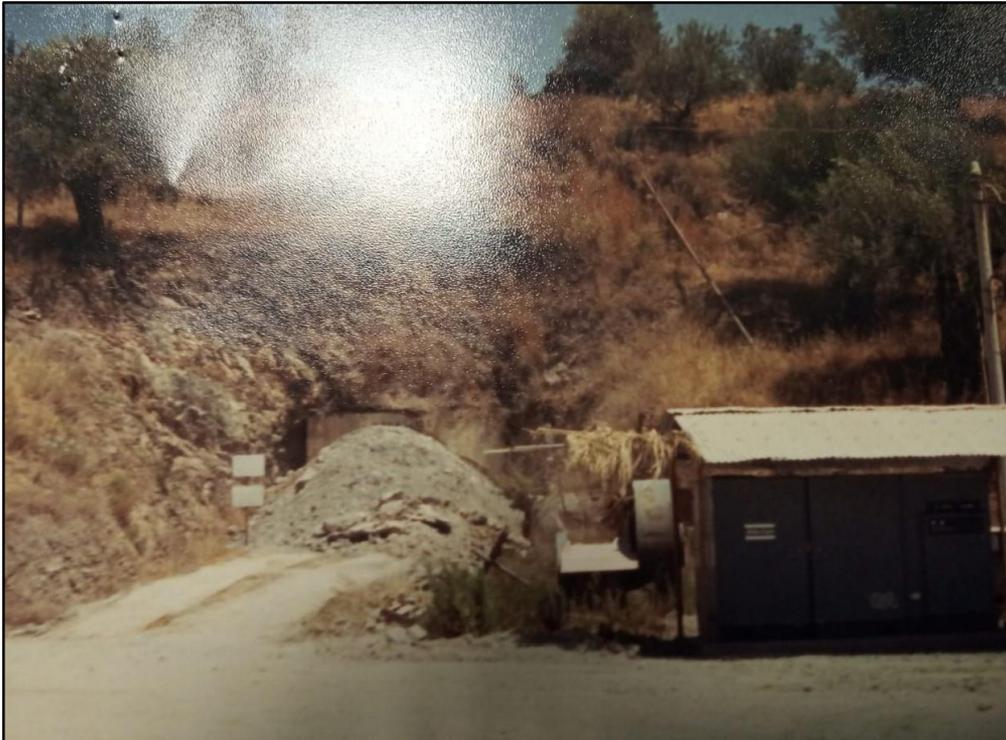
- Molaoi is in the top 20 undeveloped zinc deposits globally
- Similar in grade to Macpass in Canada (Fireweed Metals m/c £153m)
48.5mt @ 5.15% Zn, 2.1% Pb, 25.3g/t Ag
- 18 sub-parallel zinc lodes modelled, with 23 lodes identified
- 5 km of identified mineralization still to drill
- Upside potential is to increase the current resource by at least 4x.

Next target upgrade is 40mt – 50mt @ 8.0% ZnEq. – 9.0% ZnEq.

Underpinned by more than 50 years of exploration



- 175 Government diamond drill holes
- 19 Rockfire diamond drill holes
- 2 feasibility studies (1985, 1991)
- multiple rounds of metallurgy

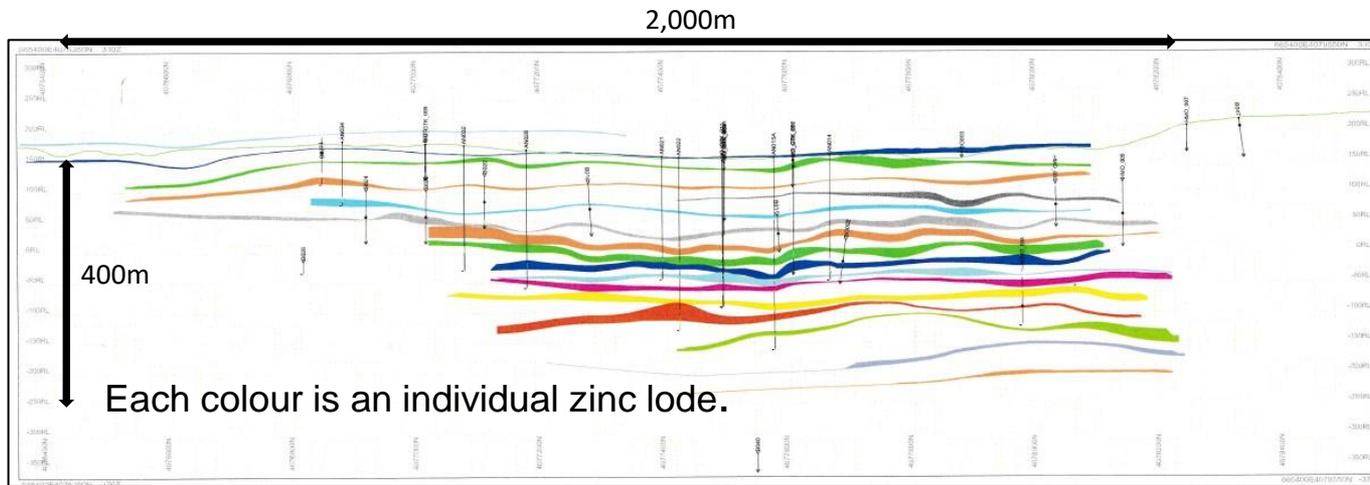


The 1988 portal, as seen on the left is no longer accessible and the crushing facility shown above, has since been removed

Amenable widths for underground mining



Lode thickness varies from 0.1m – 23m (average 4.1m). A minimum width of 2.0m is required for mechanised underground mining.



Long section 665400E looking west

Mineralisation open in all directions

Longitudinal View



Molaoi zinc / silver / lead / germanium deposit, looking towards the West

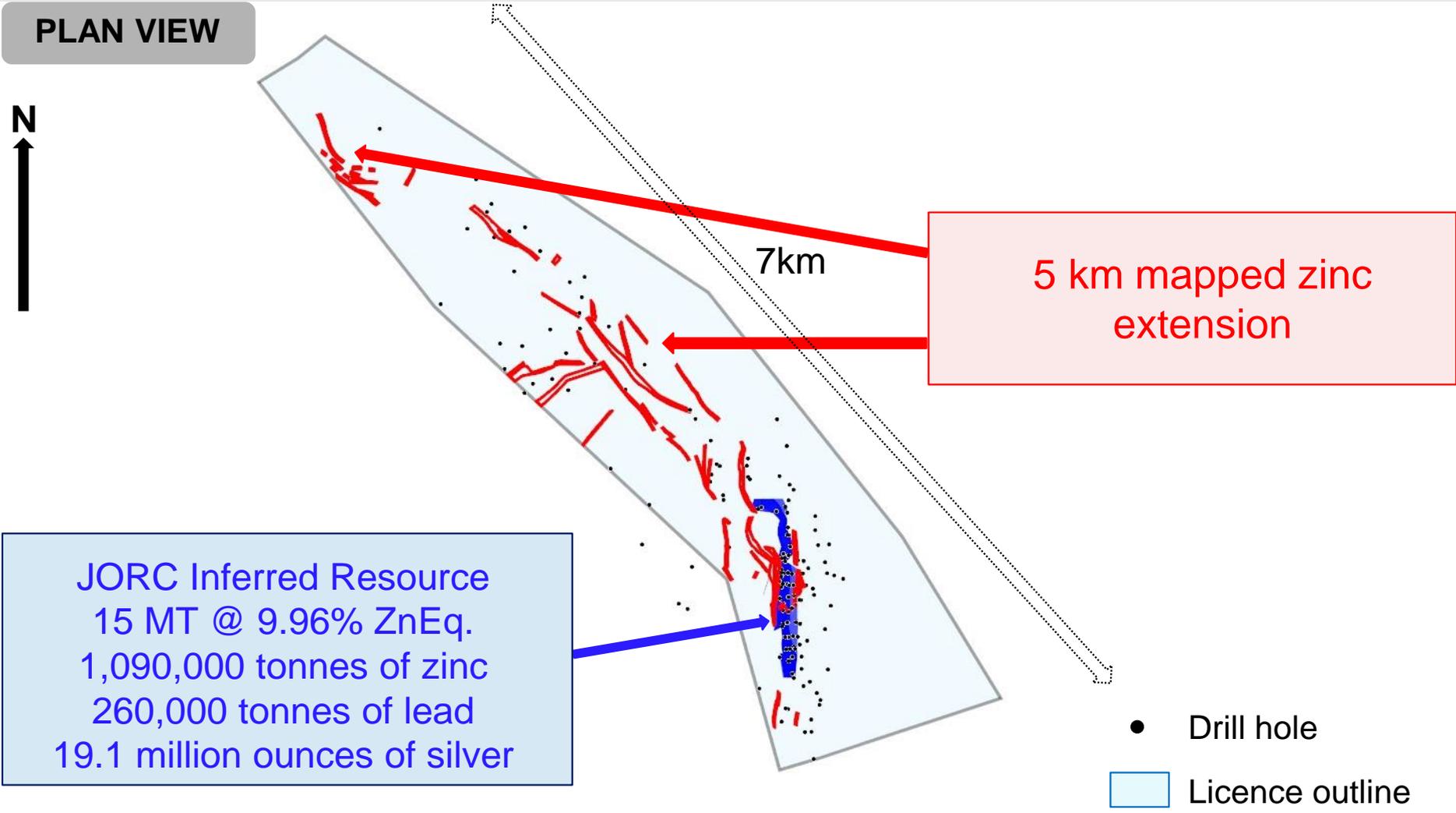
NB. Hole positions are approximate only for illustrative purposes

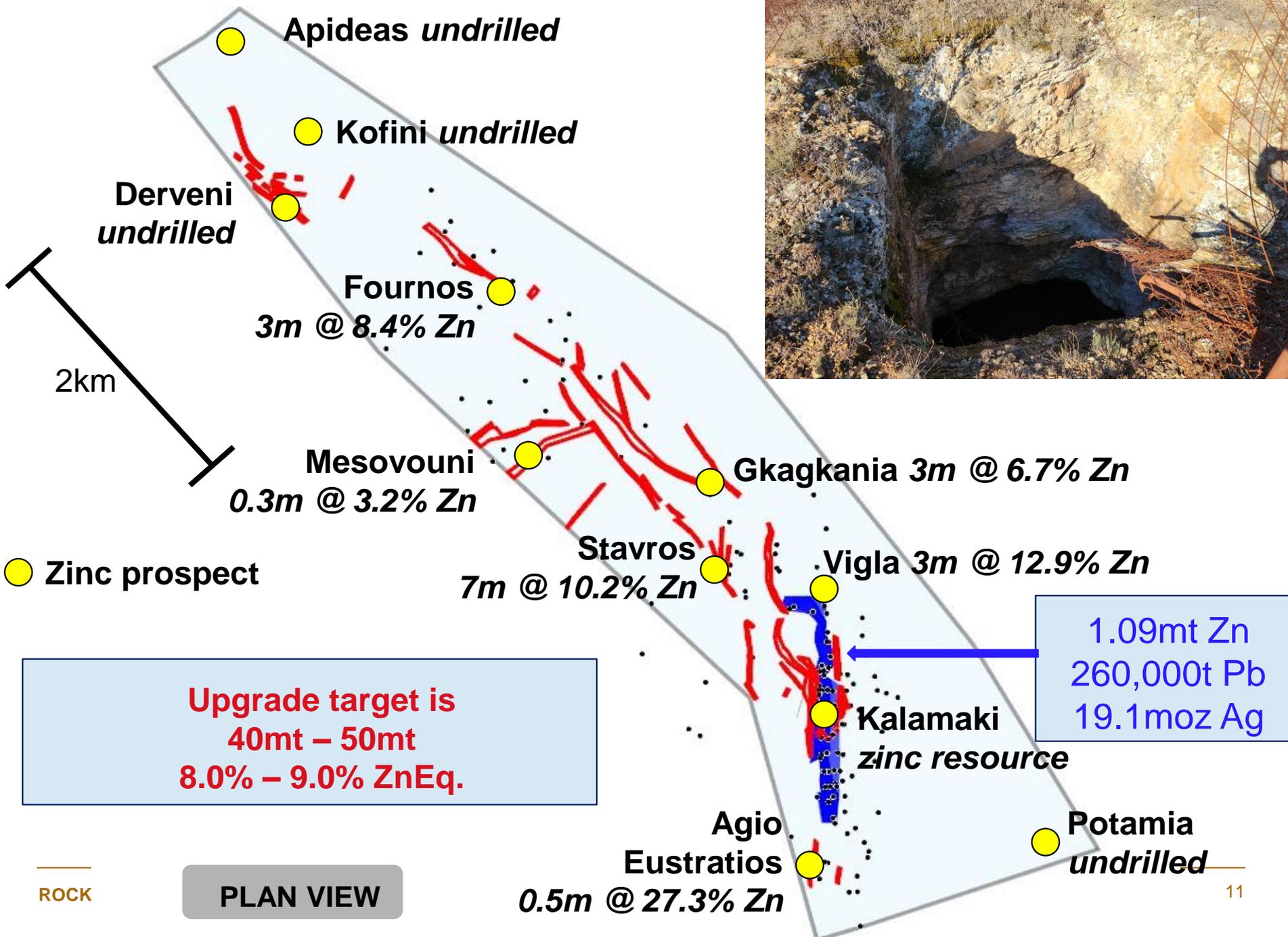
2.0 kilometre

JORC Inferred resource
15 million tonnes @ 9.96% ZnEq. for 1,500,000 tonnes ZnEq.



Upside potential for multiples of the known resources





Future Mining and Processing considerations



Historical studies assist feasibility studies

- Hydrology, metallurgy, geotechnical, fauna, earthquakes completed

Mining

- Underground – minimize surface footprint
- Widths allow for use of mechanized equipment – low mining costs
- Ground conditions known

Processing

- On-site - crush/grind/flotation
- Proven treatment flowsheet (2x concentrates: Zn/Ge and Pb/Ag/Cu/Au)
- Transport concentrates to European smelters
- Ge separation
- Con. grades: 57% Zn; 856g/t Ag; 63.6% Pb; 117g/t Ge; 2.62% Cu, 0.52 g/t Au

A choice of zinc smelters throughout Europe

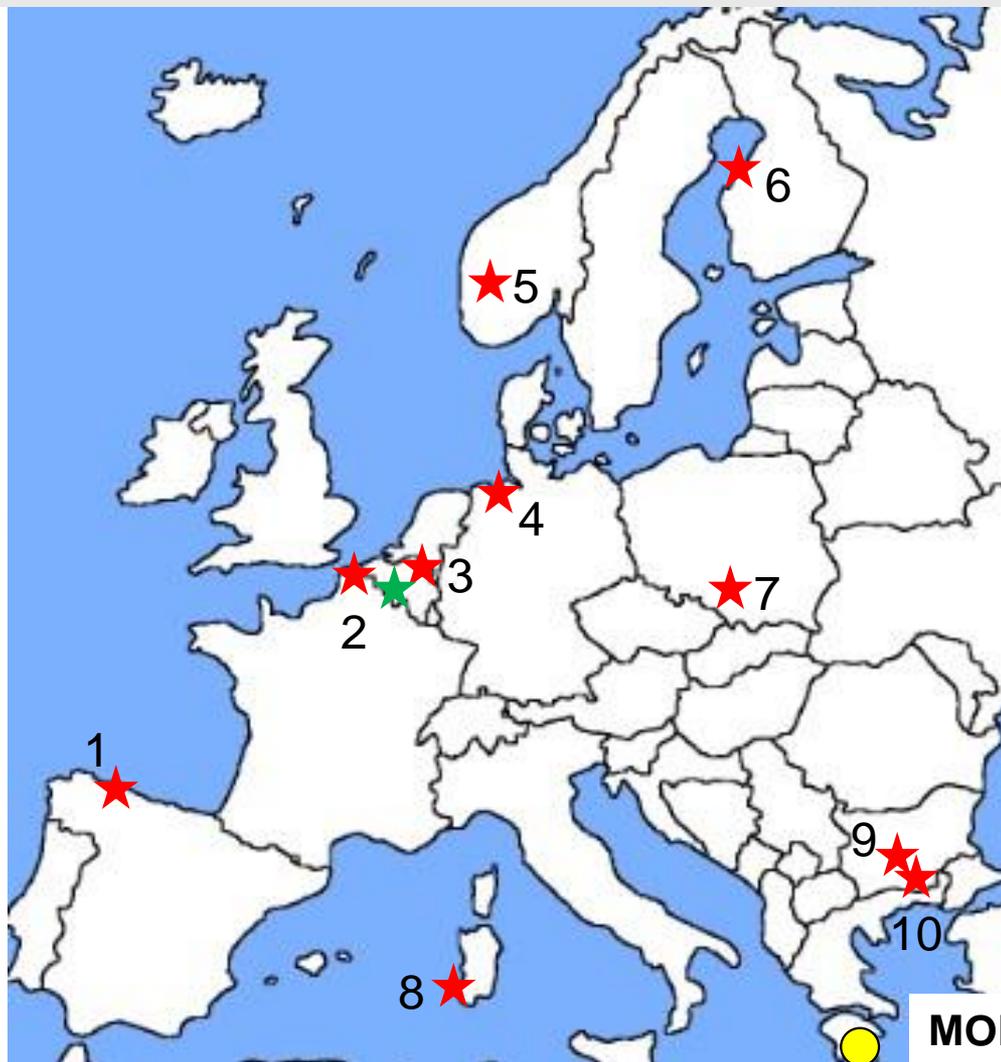


★ Zinc smelter

1. Asturiana de Zinc
2. Auby
3. Balen/Pelt
4. Nordenham
5. Odda **
6. Kokkola
7. Zakłady Górniczo-Hutnicze
8. Portovesme **
9. KCM
10. Kardjali **

★ Germanium refinement plant (Umicore)

** Please note that some smelters are currently on Care & Maintenance.



Uses of zinc (US Critical Mineral List) (1.09 million tonnes owned by Rockfire)

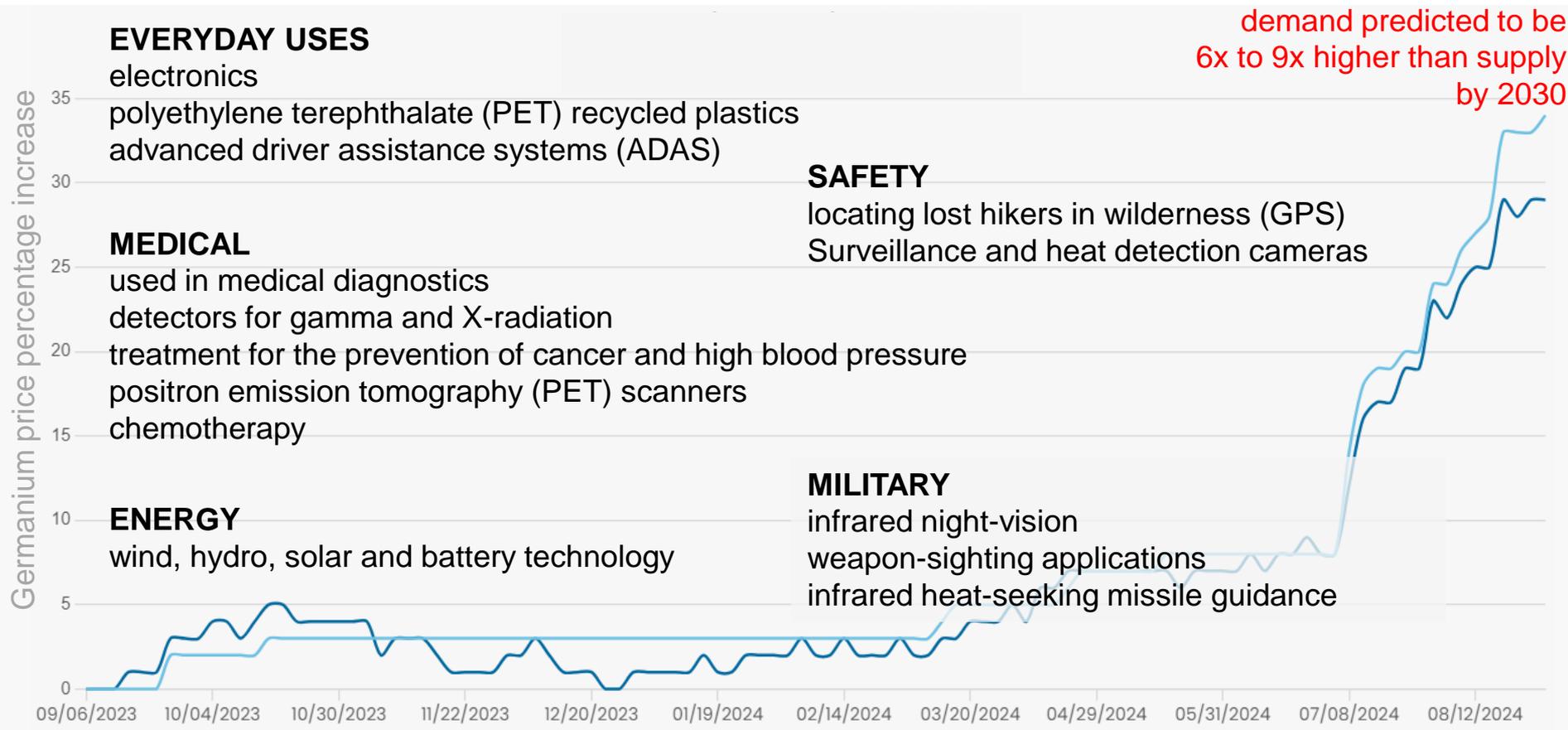


- Galvanising other metals to prevent rusting (automotive, aviation, marine industries). Corrosion costs the US around US\$ 276 billion (3.2% of GDP) annually ^{**}. [** Case Study: How Corrosion's Economic Impact Across Multiple Industries – Cor Pro \(cor-pro.com\)](#)
- Alloys (brass, bronze, aluminium solder).
- Paint, toothpaste, insect repellent, plastics, sunscreen, soap, shampoo.
- Biological labelling, drug delivery, gene delivery, and nanomedicine.
- Cosmetics. Zinc is a strong anti-inflammatory and is commonly used for skincare, as well as accelerating wound healing.
- Electrical equipment including circuit boards for computers and phones.
- Energy storage systems and batteries - low cost, safe, and long-duration.
- Coatings for solar panels and wind turbines to prevent rust.

Uses of germanium (EU & US Critical Mineral Lists) (105,700 kilograms owned by Rockfire)



Molaoi contains 4.8mt @ 21.9 g/t Ge (105,700 kg germanium) *not JORC compliant





ROCKFIRE Resources plc

Eastcastle House
27 – 28 Eastcastle Street
London, W1W 8DH
United Kingdom

As we continue to discover and develop new critical raw materials throughout Europe, we invite you to join us as a shareholder in meeting the supply of essential metals for a strong and self-sufficient Europe.

www.rockfireresources.com
info@rockfire.co.uk