

**Earth Source Limited**

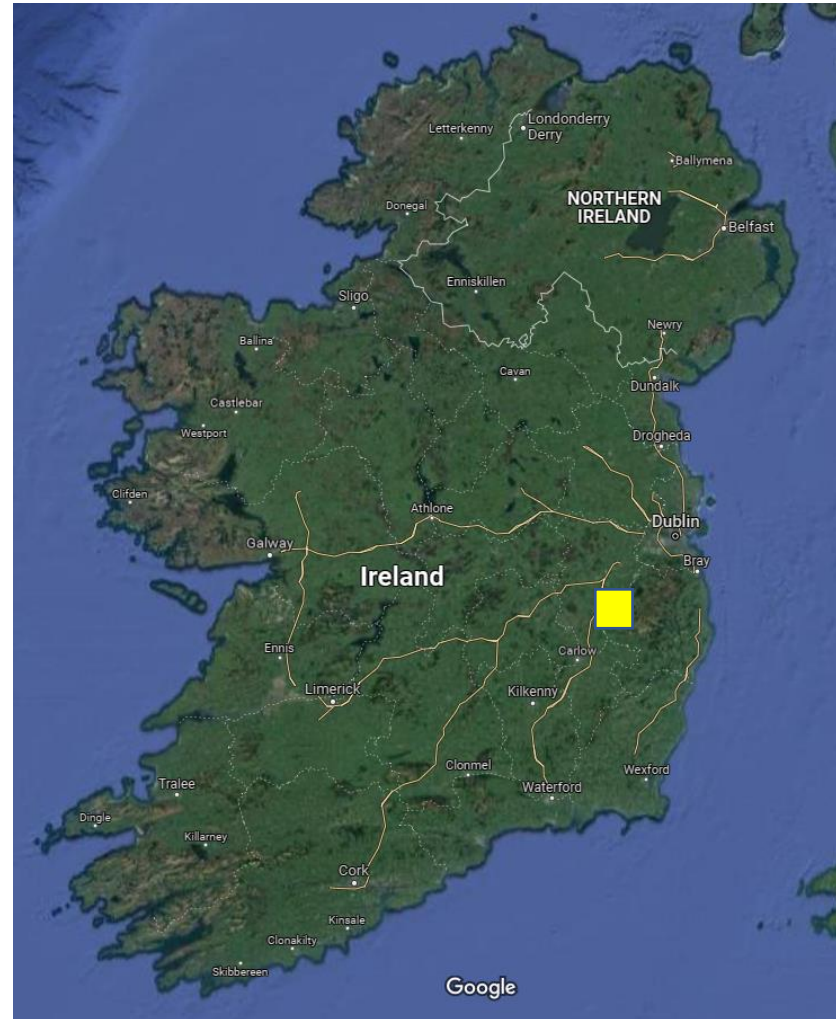
# Kildare Lithium Project

Republic of Ireland



**Critical Metal Exploration & Mining**

# Kildare Project, County Kildare, Ireland



# Local Area

**Location:**

Situated near Baltinglass and Stratford, County Kildare

**Geography:**

Rolling hills and agricultural land

Located at the intersection of Kildare, Wicklow, and Carlow counties

**Transport:**

Proximity to N81, approximately 60 km from Dublin

Local bus services and nearby rail stations improve connectivity

**Infrastructure:**

Well-developed road networks for easy site access

Essential local amenities and services in Baltinglass and Stratford

**Community:**

Active local communities with educational, healthcare, and recreational facilities

Employment opportunities for locals



# Lithium Project Overview

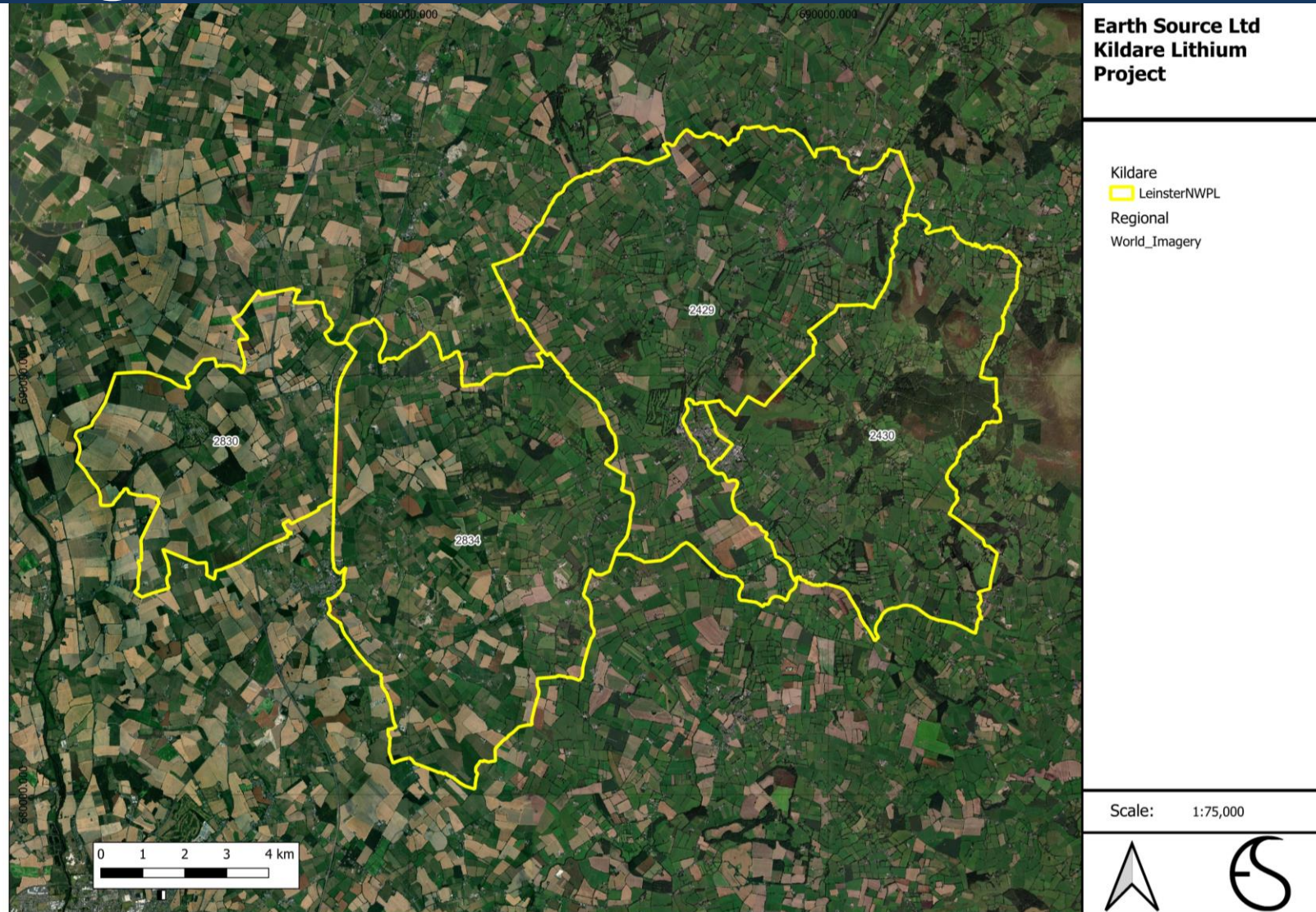
- ESL were awarded four Prospecting Licences by the GSRO in 2024 – approximately 180km<sup>2</sup>
- Current Status: Greenfield Lithium (+REE's) exploration property
- ESL plan to conduct regional exploration across the package for economic Lithium-Caesium-Tantalum (LCT) bearing Pegmatite and Aplites.
- Follow up recent encouraging Li bearing scout samples
- Explore for Gold, Silver and Base Metals





# Prospecting Licences

- PL2830
- PL2834
- PL2429
- PL2430
- Approx 180km<sup>2</sup>



# Previous Work in Kildare

## **Exploration Activities: MAUGH exploration for Uranium & Thorium in the 1970s**

Carborne Survey: Utilized the SPP2 scintillometer; no significant radiometric anomalies were identified.

## **Geochemical Surveys:**

Focused on measuring uranium content in water, stream sediment, and soil. Some water anomalies were detected, but none in stream sediment due to thick overburden.

Detailed geological, radiometric, and geochemical surveys continued. No consistent significant results were found to warrant further U-Th exploration

## **Gold:**

Several operators have explored the licences for gold previously, with no bedrock source discovered to date despite pan concentrate anomalies

## **Zinc & Lead:**

Brief exploration for Irish Type Pb-Zn mineralization within the limestones within the permit area

## **Current Status:**

The ground has been unexplored for decades and has never been explored for LCT pegmatite nor any exploration for gold using current methodologies

Now held by ESL



# Kildare Project - Geology Overview

**Deposit Target:** LCT Pegmatite

**Mineralization:**

Economic mineralisation of lithium undiscovered

**Geological Setting:**

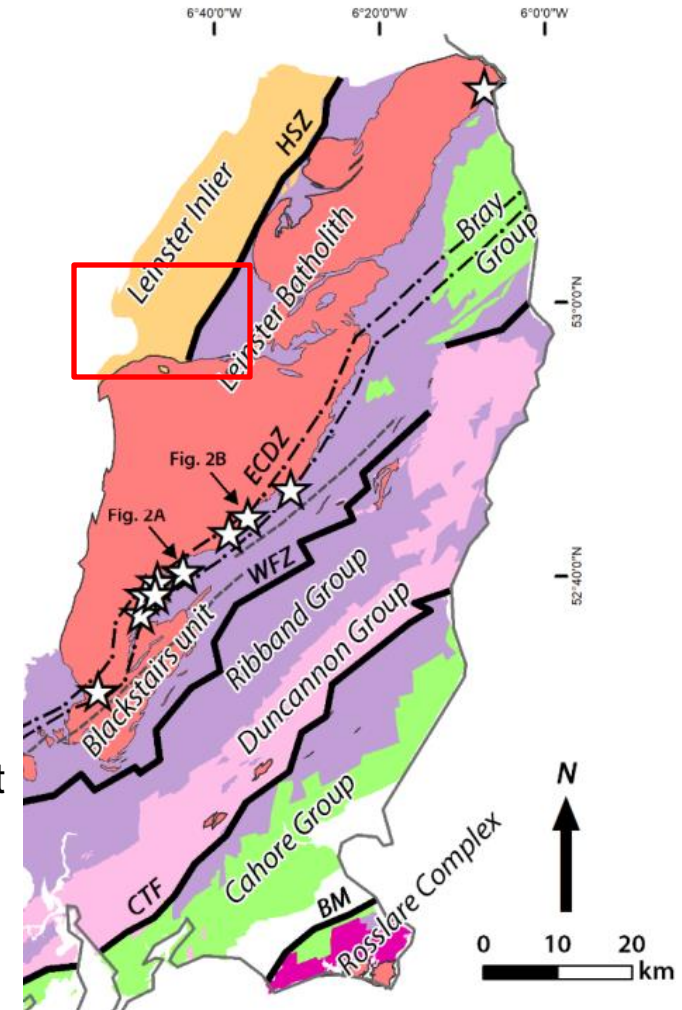
Northern contact of the main Leinster Granite body and encompassing the Hollywood Shear Zone (HSZ), with an abrupt termination

**Exploration Insights:**

Historical Surveys: Previous surveys and initial geochemical work have indicated potential for mineralization, though no detailed exploration for lithium has been undertaken yet.

**Strategic Importance:**

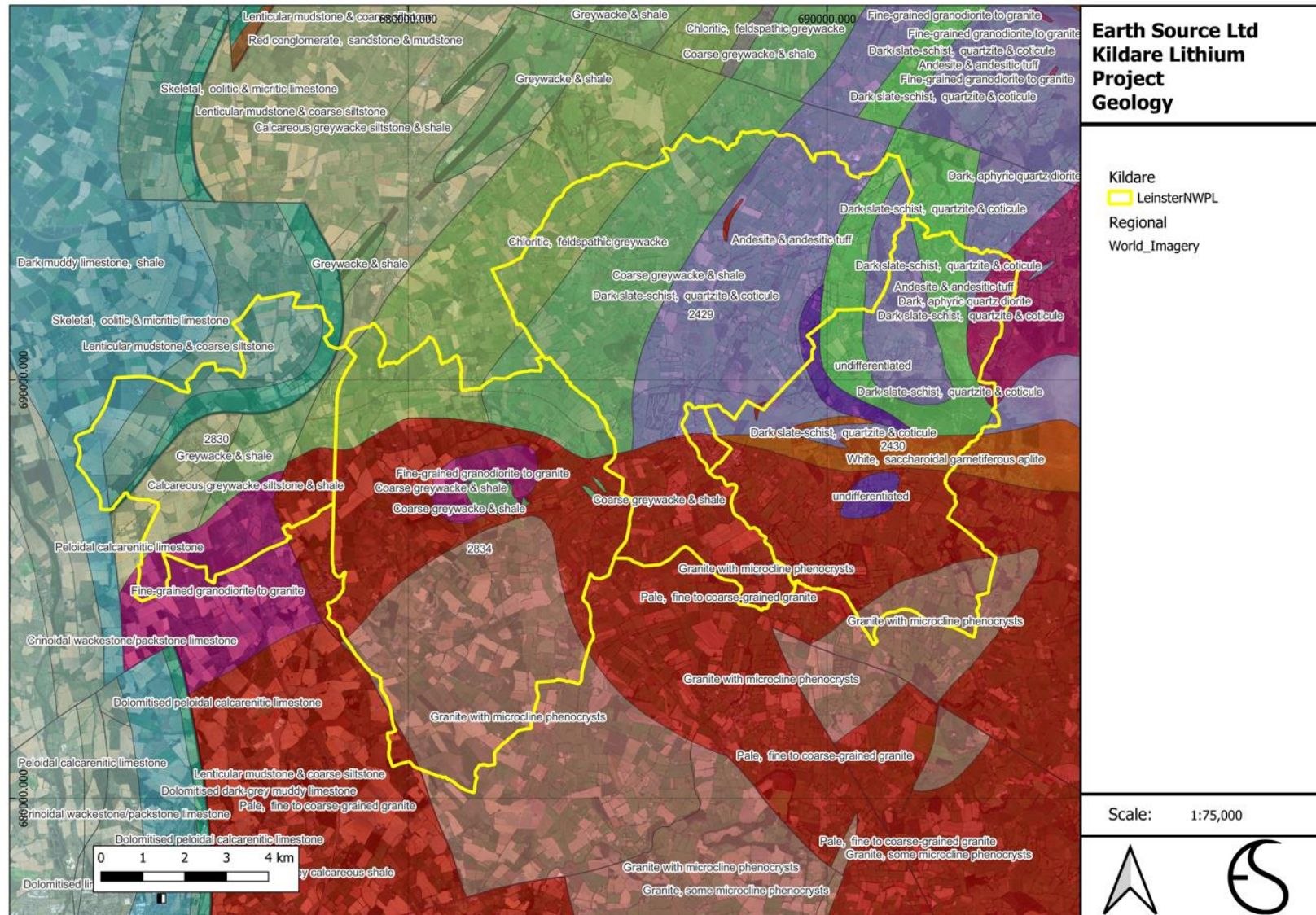
The geological setting within the Leinster Granite and along the Hollywood Shear Zone suggests a favorable environment for LCT pegmatite formation, warranting exploration efforts.





# Geological Setting

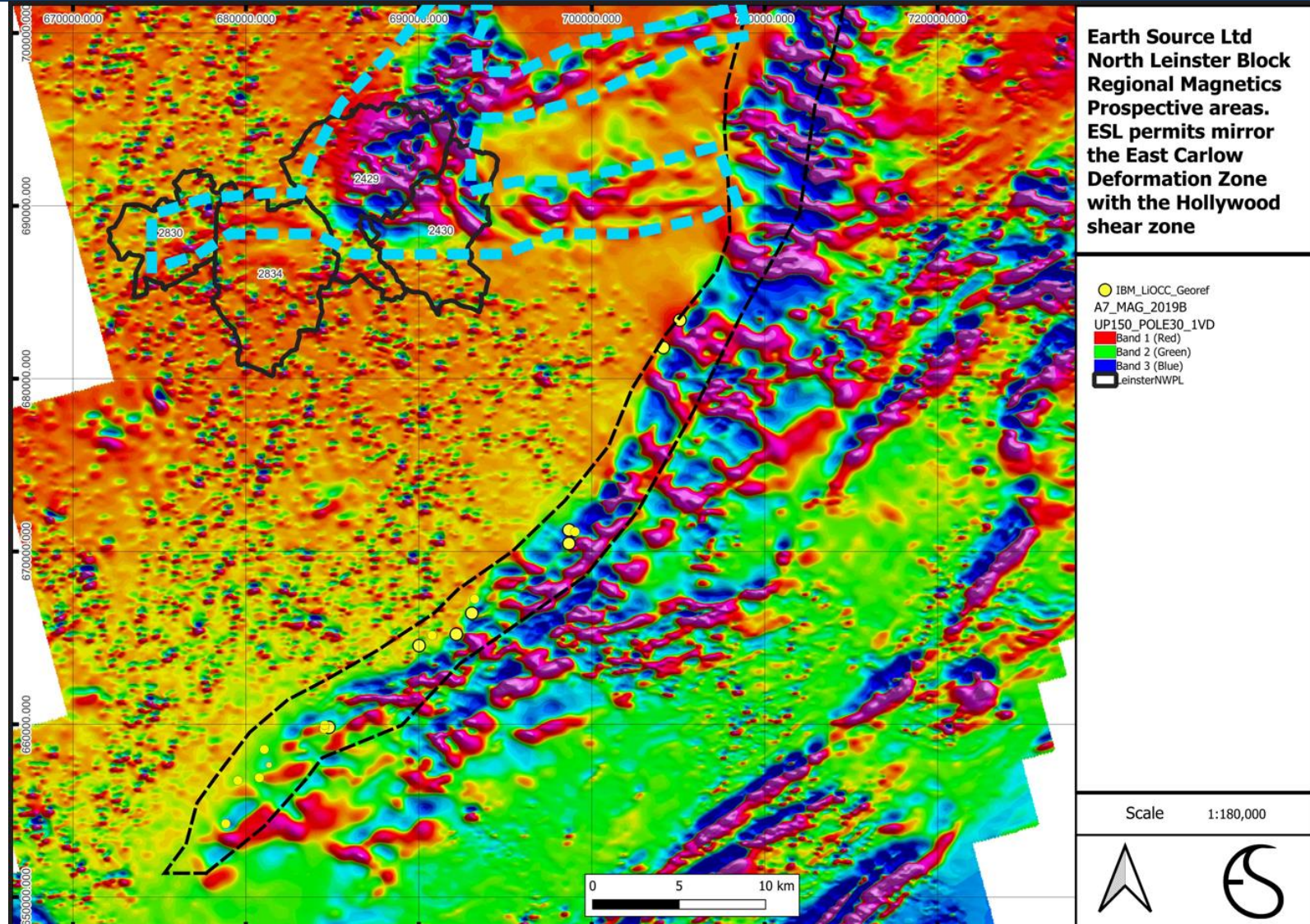
Licences located on the northern margin of the Leinster Granite encompassing the Hollywood Shear Zone





# Regional Setting

Magnetics show the Kildare project is in a similar geological setting to that of major lithium occurrences such as Aclare





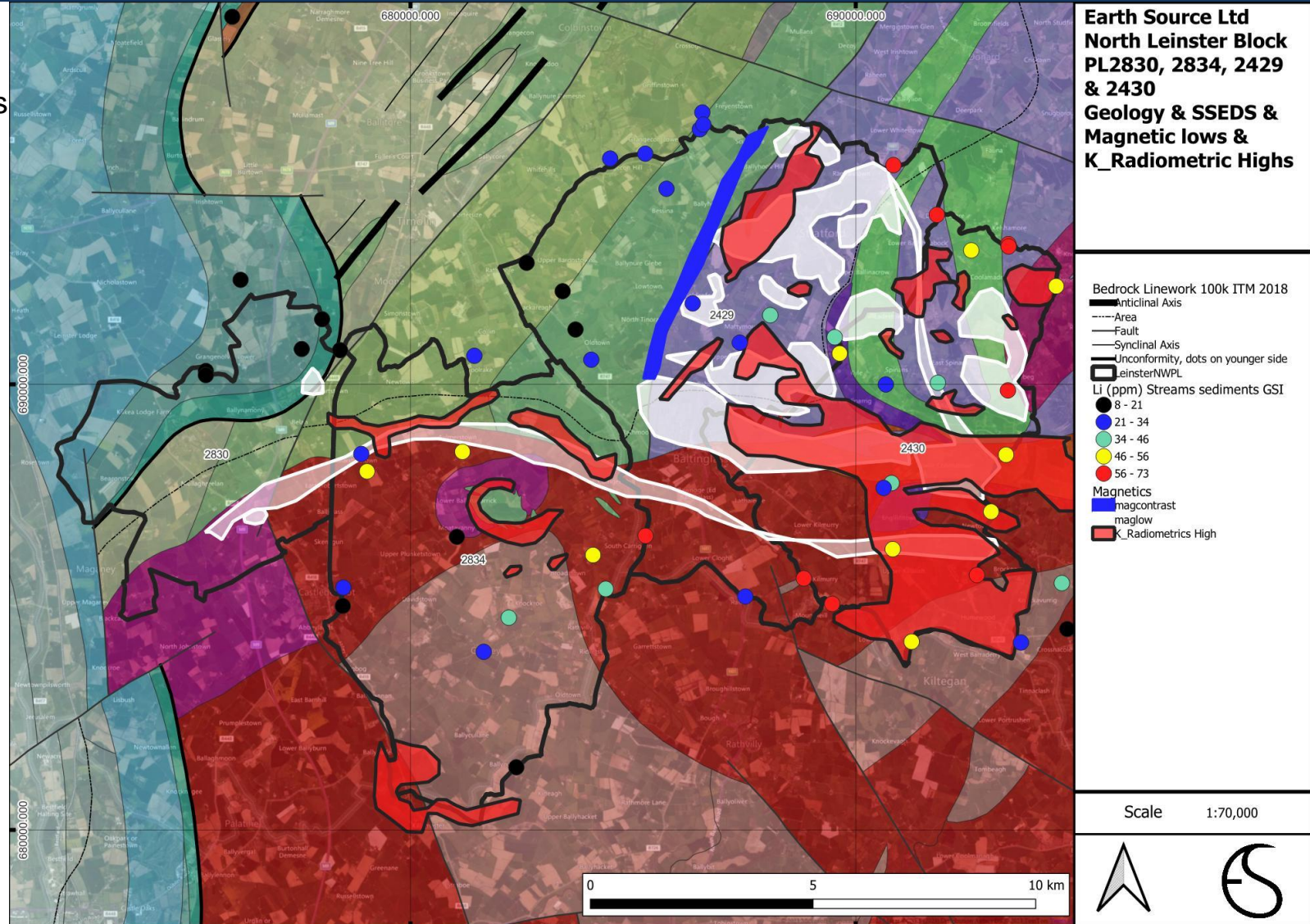
# Geophysical features of interest

Through prospecting for lithium in several settings within Ireland and internationally ESL has found that geophysics can often be of great utility in the predictive search for spodumene mineralisation.

Magnetics can indicate potential for pegmatites formation in Mag lows especially associated with high contrast.

Radiometric geophysics are another proven targeting tool.

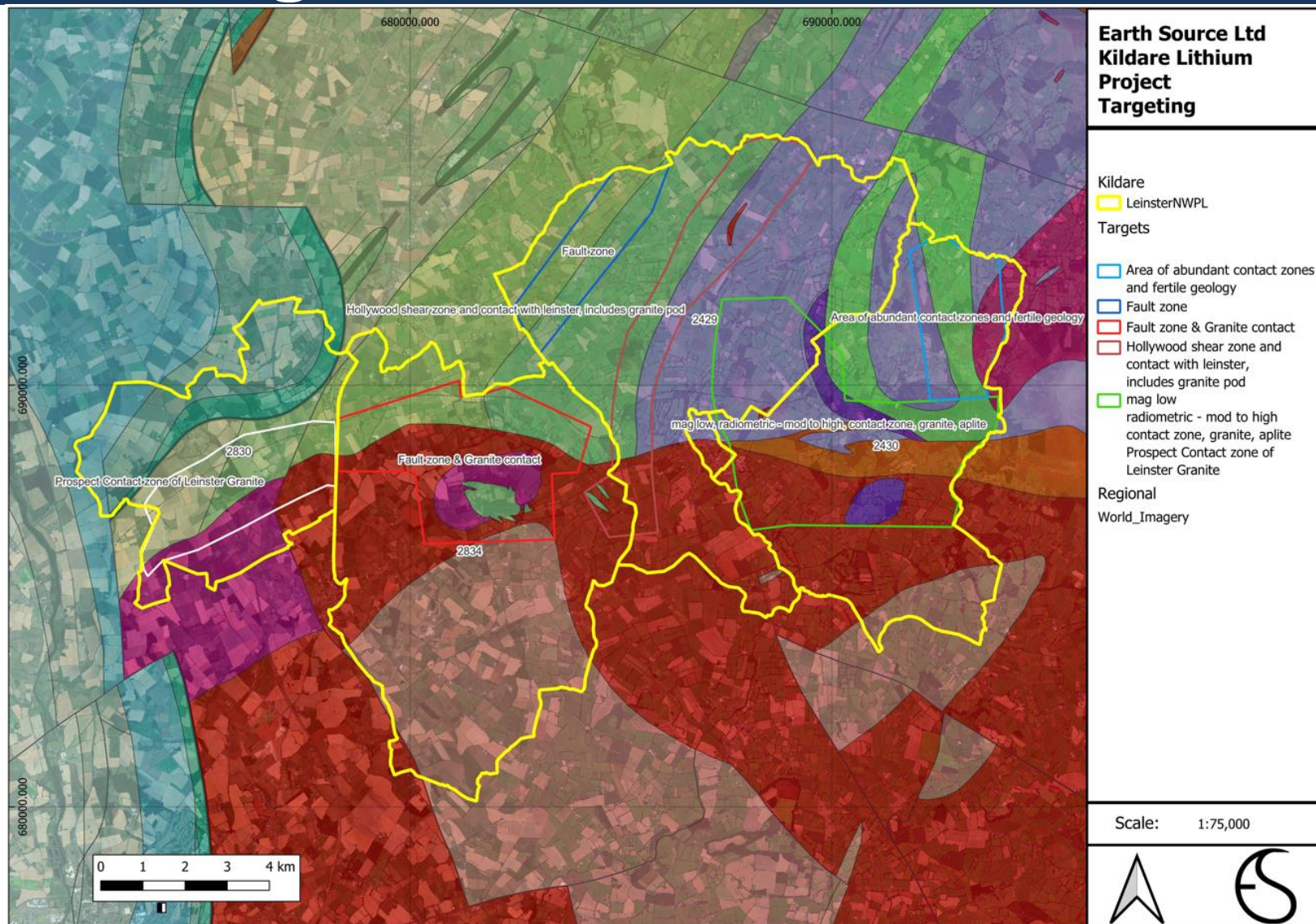
Low K radiometrics can indicate albite zones are present within the pegmatite and aplite, increasing the prospect of spodumene mineralisation





# Provisional Targets

Based on geology and geophysical features of interest





# Work Programme

Regional prospecting

Geochemical sampling:

- Stream sediment

- Soil/Deep Overburden

- Rock

Establish if geophysical targets are predictive

Establish Drill Targets

Engage with communities and landowners



# Founders & Innovators

## Terry Nutkins

Earth Scientist, Exploration Geologist  
& Business Manager

*Over 10 years experience in mineral exploration, held the post of exploration manager for GreenOre Gold and works as a consultant geologist with several domestic and global companies. He has been a part of several underdeveloped discoveries of precious and critical metals.*

## Calum Dunn

Earth Scientist, Exploration  
Geologist & Engineer

*Geologist consulting on several UK, Irish and Scandinavian projects. With a diverse background in precious and critical metals exploration. Previous experience in building and running companies. Wide Geoenvironmental/ Geotechnical engineering and mine remediation experience.*



# Founders & Innovators

## Mike Burdon

Business Developer  
Chemical Engineer

*Since graduating in 1979 with a First Class Honours Degree in Chemical Engineering from Newcastle University, Mike has held a variety of technical, commercial and business development roles in the Natural Resources Sector including British Gas and BHP. Mike has worked extensively in the UK and abroad and is now focused on renewable energy, sustainability and resource independence.*

## Mark Marshall

Commercial Negotiator  
Lawyer

*Mark graduated in law from Durham University in 1981 and then qualified as a commercial solicitor. He subsequently spent 25 years in the oil and gas industry, working for Chevron and British Gas amongst others, across all continents. Mark's role was as both a lawyer and commercial negotiator, specializing in creative deal-making. Mark has more recently been working to promote large-scale tidal power generation projects.*





# Disclaimer

All materials in this presentation, unless specifically indicated otherwise, is under copyright and proprietary to Earth Source Limited. Information contained herein, including projections, has been obtained from materials and sources believed to be reliable at the date of publication. While we do not doubt its accuracy, we have not verified it and make no guarantee, warranty or representation about it. Readers are responsible for independently assessing the relevance, accuracy, completeness and currency of the information of this presentation. This presentation is for information purposes only, exclusively for Earth Source Limited clients and professionals and is not to be used or considered as an offer to sell or buy or subscribe for securities or other financial instruments. All rights to the material are reserved and none of the material, nor its content, nor any copy of it, may be altered in any way, transmitted to, copied or distributed to any other party without prior express permission of Earth Source Limited. Any unauthorized publication or redistribution of Earth Source Limited research is prohibited. Earth Source Limited will not be liable for any loss, damage, cost or expense incurred or arising by reason of and person using or relying on information in this presentation. Some of the areas highlighted in the presentation are still in the application phase, with no certainty that these applications will be approved by the relevant government authorities. Similarly, for landowner agreements, securing permissions and rights can be equally uncertain and complex. There is no assurance that exploration of these areas — or any future areas that might be acquired — will lead to the discovery of a commercially viable mineral deposit. Moreover, even the identification of a promising deposit does not guarantee that it can be mined profitably. Both scenarios involve considerable risk and require careful consideration.

