



**iTECH**  
MINERALS

ASX: ITM

AGM PRESENTATION  
23 NOVEMBER 2021

# RESOURCES FOR THE FUTURE

DEVELOPING BATTERY AND  
CRITICAL MINERALS



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## Date and Currency

This document is dated 23 November 2021 ("Preparation Date") and is based on the Company's prospectus dated 16 August 2021 ("Prospectus") for an offer to acquire fully paid ordinary shares ("Shares") in the capital of the Company ("Offer"), updated for the results of the Offer. A copy of the Prospectus is available for download at [www.itechminerals.com.au](http://www.itechminerals.com.au) or [www.asx.com.au](http://www.asx.com.au). The delivery of this document at any time after the Preparation Date does not imply the information contained in it is correct at any time after the Preparation Date. Delivery of this document does not imply and is not to be relied upon as a representation or warranty that: (i) there has been no change since the Preparation Date in the business, operations, financial condition, prospects, creditworthiness, status, or affairs of the Company or any of the Company's related bodies corporate or affiliates; or (ii) the information contained in this document remains correct and not misleading at any time after the Preparation Date. The information in this document should be considered dynamic and may change over time. Subject to its obligations at law, iTech has no responsibility or obligation to update this document or inform the recipient of any matter arising or coming to their notice after the Preparation Date which may affect any matter referred to in the document. All dollar values expressed in this document are Australian dollars (\$, A\$, or AUD).

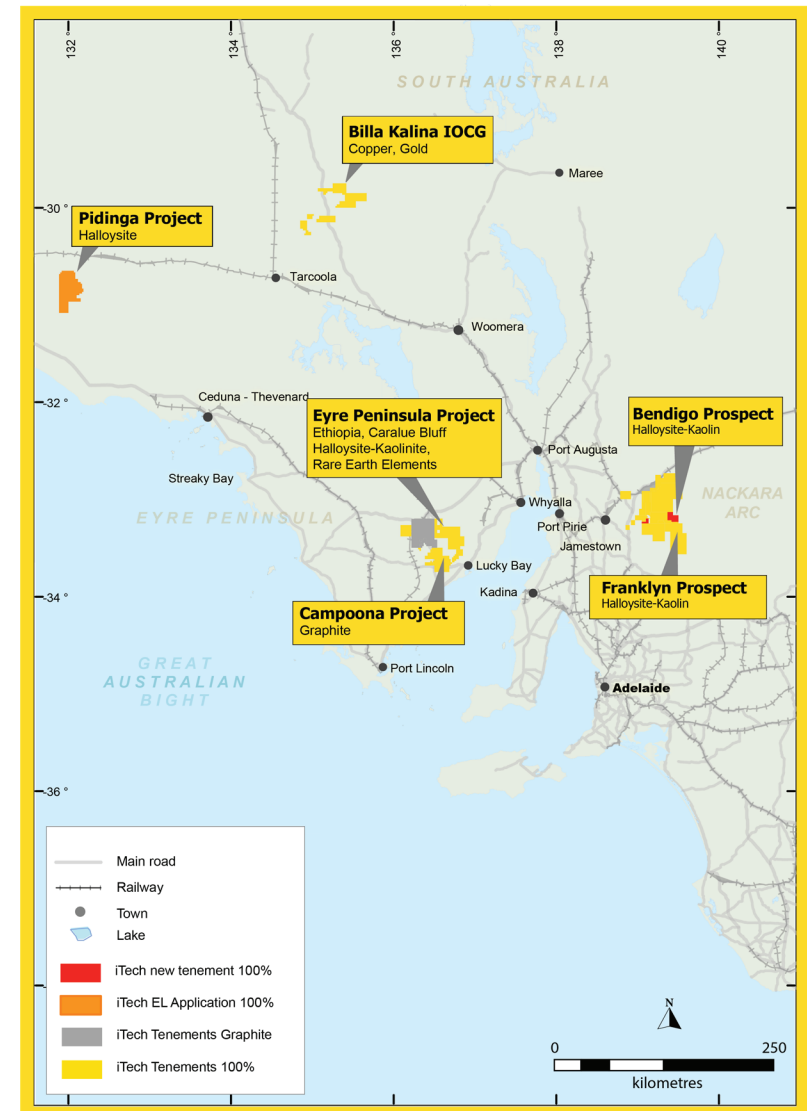


# EXPLORATION PROGRESS - "HITTING THE GROUND RUNNING"

## Resourcing a green and sustainable future

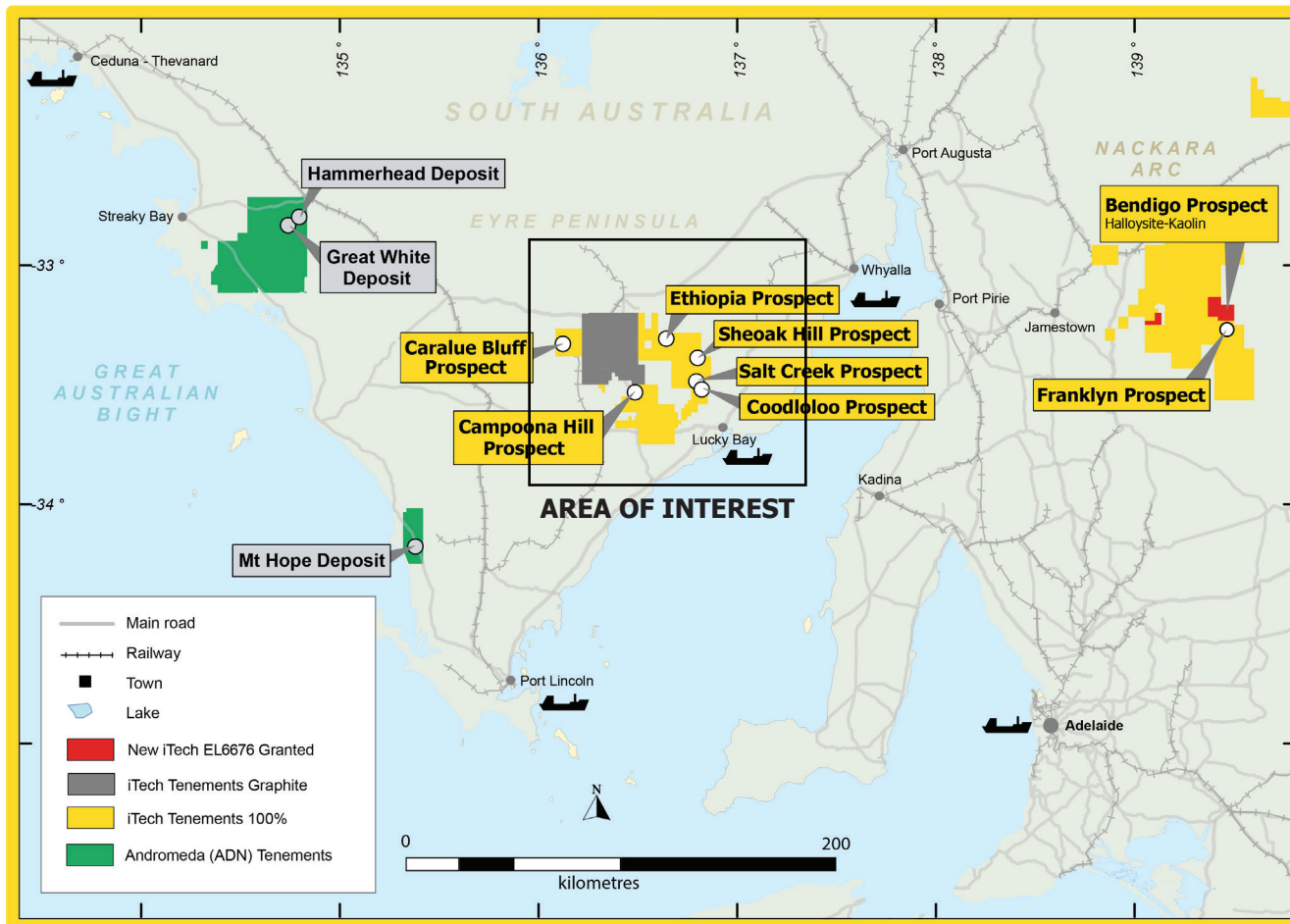
<b>Ethiopia Prospect - Eyre Peninsula</b>	<ul style="list-style-type: none"> <li>High purity kaolin with significant levels of REE confirmed at Ethiopia Prospect</li> <li>Additional 12 drill holes submitted for kaolin and REE testwork</li> <li>Best REE hole upcoming based on REE indicator Ce</li> </ul>
<b>Bendigo Prospect - Franklyn Project Nackara Arc</b>	<ul style="list-style-type: none"> <li>New tenement granted (EL 6676), directly adjacent to the Franklyn halloysite-kaolin exploration target of 45-91 Mt @ 30-36% <math>Al_2O_3^{(1)}</math></li> <li>25 samples have been taken from historical drill holes and submitted for kaolin testwork and REE analyses</li> <li>Potential to extend the exploration target to the north once testwork received</li> </ul>
<b>Campoona Li-ion Graphite Project - Eyre Peninsula</b>	<ul style="list-style-type: none"> <li>Test work by ANZAPLAN to undertake "green" environmentally friendly flake graphite beneficiation and spherulisation for Li-ion battery anodes has commenced</li> <li>Proposal for updated scoping study being prepared</li> </ul>
<b>Drilling Plans</b>	<ul style="list-style-type: none"> <li>Notification of entries have been sent out to all landholders at the Ethiopia, Caralue Bluff and Franklyn Halloysite-Kaolinite Prospects in preparation for drilling</li> </ul>

(1) The Exploration Target is based solely on historical drilling by the SA government between 1971 and 1992. The potential quantity and grade of the Exploration Target is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource in this area and it is uncertain if further exploration will result in the estimation of a Mineral Resource. (ASX Release, 19-Oct-21, Replacement Prospectus)





# EYRE PENINSULA KAOLIN AND REE PROJECT

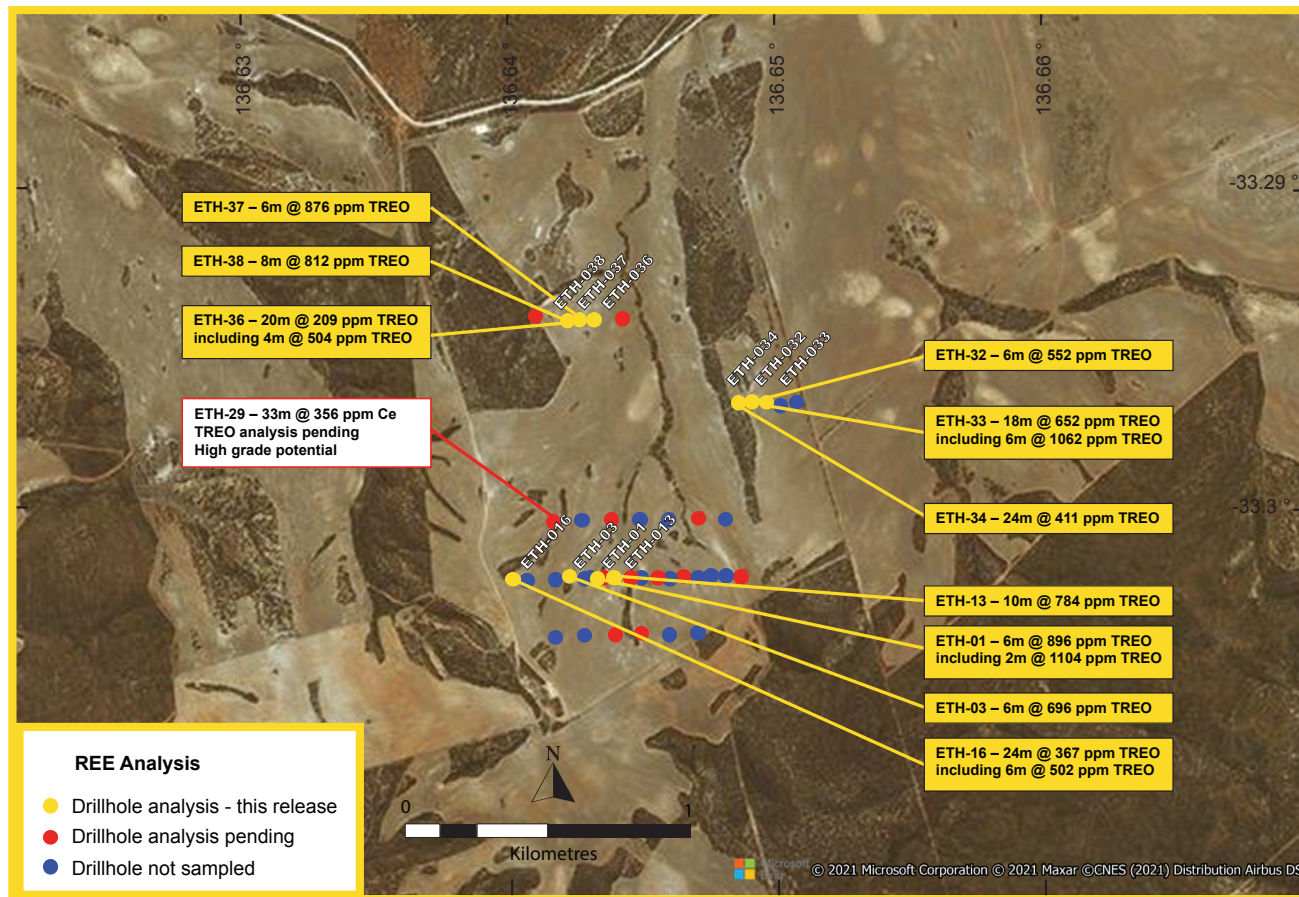


## High Purity Kaolin and REE Projects

- Two advanced prospects at Ethiopia and Caralue Bluff
- High purity kaolin identified at Ethiopia with intervals of 4-24m of kaolin at  $<1\% \text{Fe}_2\text{O}_3^{(2)}$
- Results from first batch of 10 historical drill hole samples received
- Over 1,100 ppm total rare earth element oxides in clay fraction
- Enriched in high value rare earths used in permanent magnets in wind turbines and electric vehicles
- Potential for dual high purity kaolin and rare earth product streams to de-risk the project
- Clay beneficiation significantly increases rare earth grades to ~180%
- Best drill hole expected in next batch of analysis



# ETHIOPIA KAOLIN AND REE PROJECT

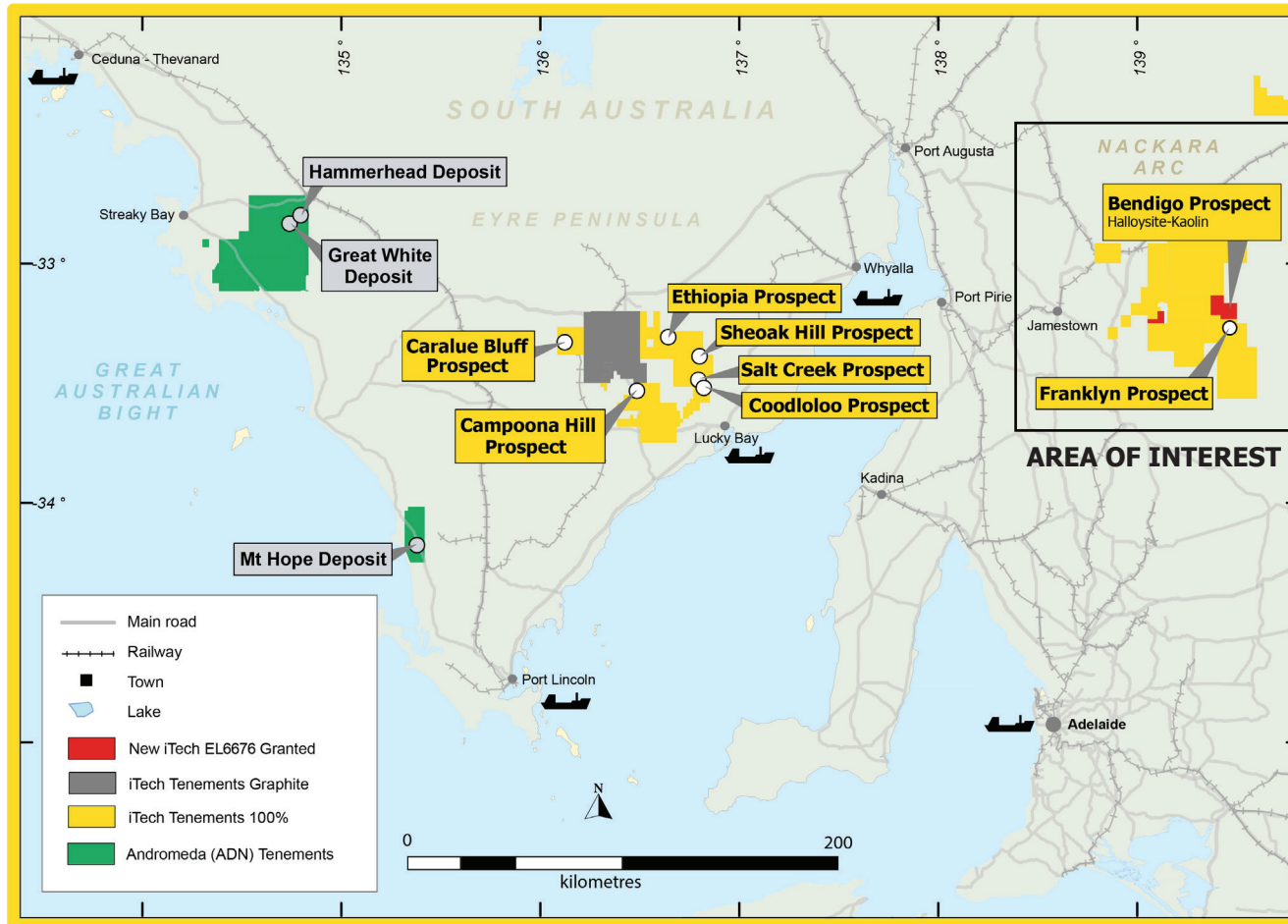


## High Purity Kaolin and REE Projects

- All 10 drill holes sampled to date have significant REE in clay fraction<sup>(2)</sup>
- Confirmed iTech's view of the dual potential for high purity kaolin and coincident ion adsorption clay (IAC) rare earth element (REE) mineralisation
- Results cover a significant area of ~1 km x 1km, open in all directions
- Kaolin beneficiation and REE extraction are potentially mutually beneficial processes, extracting kaolin upgrades the REE, then extracting REE upgrades the kaolin
- Creates potential for low cost operation
- More results due in the coming weeks including ETH-29 which had 3 times the REE indicator Ce compared with any holes submitted to date



# BENDIGO KAOLIN PROSPECT

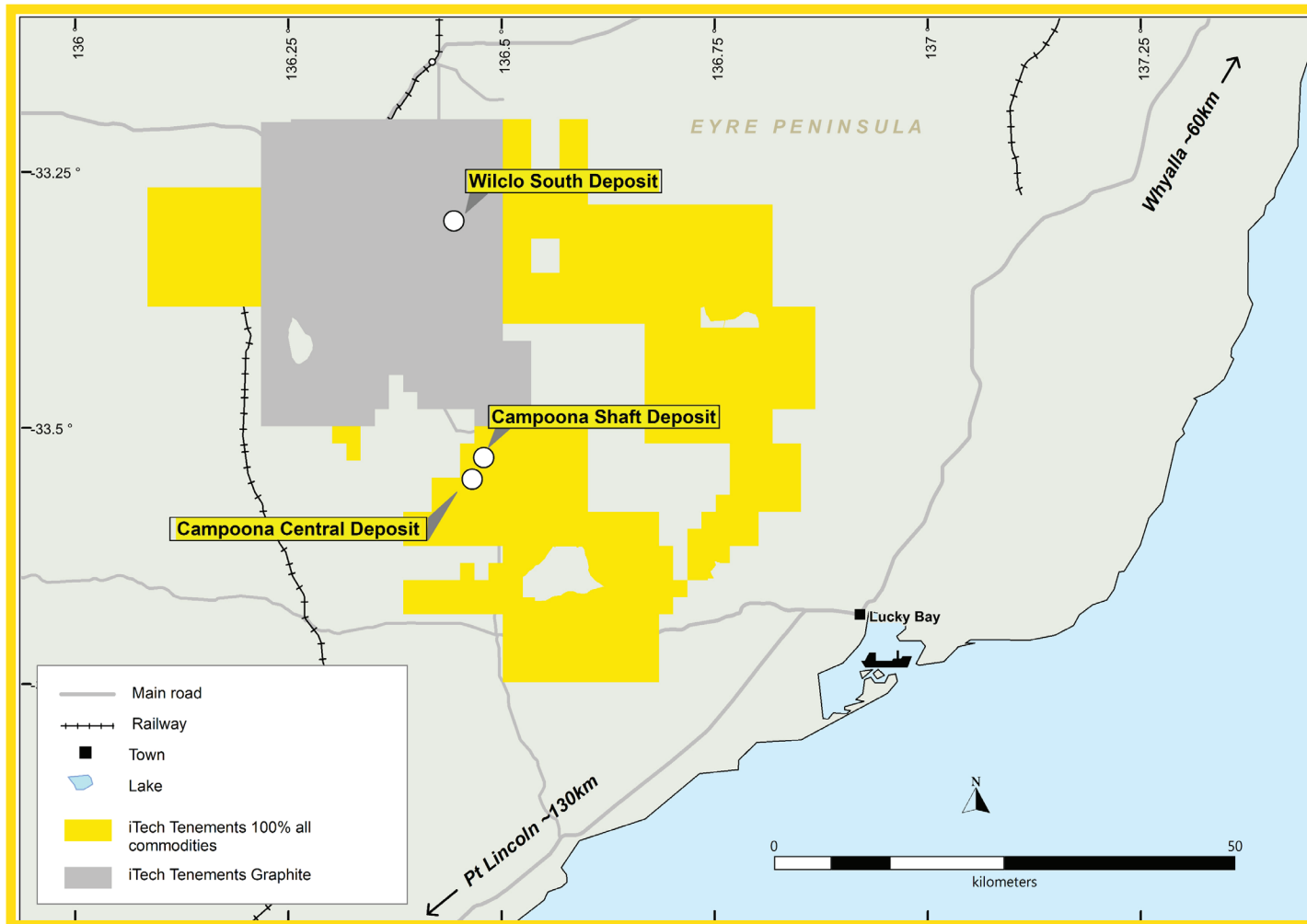


## *Focus on defining halloysite-kaolinite and REE resources*

- New tenement granted in Franklyn Kaolin Project area
- EL 6676 covers 106 km<sup>2</sup>, most of which occurs directly north of the Franklyn Halloysite-Kaolinite Exploration Target
- Recent mapping and review of historical drilling shows new ground covers outcropping to shallow kaolinised granite, with potential to extend the exploration target to the north
- 25 samples have been taken from historical drill holes and submitted for kaolin testwork and REE analyses
- Results of testwork will guide upcoming drilling program due to commence mid-December
- Kaolinite and halloysite beneficiation proposal has been received from ANZAPLAN



# CAMPOONA GRAPHITE BATTERY ANODE PROJECT

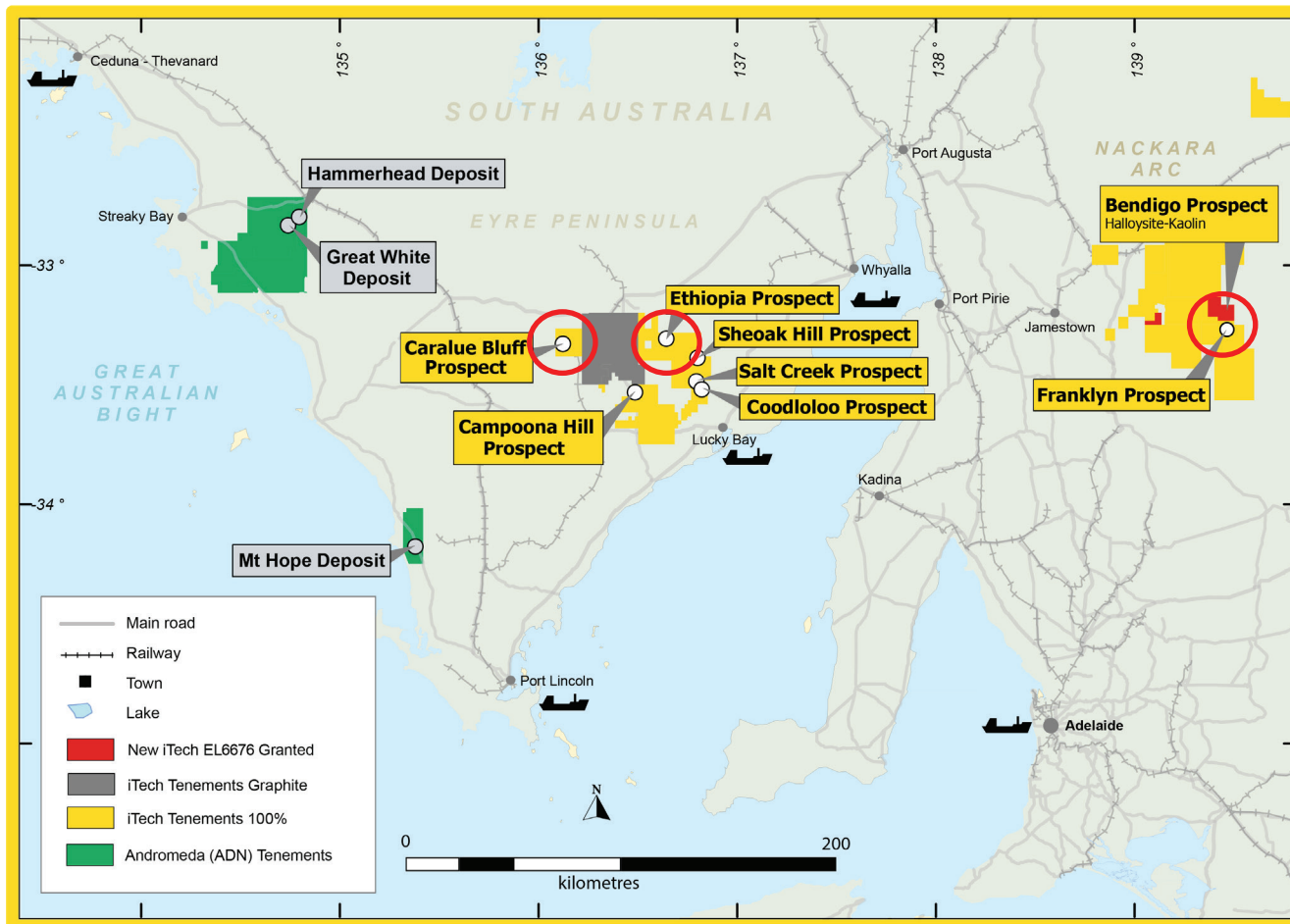


## *Campoona Graphite Battery Anode Project*

- De-risked opportunity to supply “green” spheroidal graphite and graphene into the growing battery technology market <sup>(3)</sup>
- JORC 2012 Mineral Resource of 8.55Mt @ 9.0% TGC <sup>(1)</sup>
- Granted mining lease and 2 multipurpose leases for processing and water infrastructure
- Test work underway with ANZAPLAN to undertake environmentally friendly (HF-free) flake graphite beneficiation and spheronisation for Li-ion battery anodes
- Leveraged off extensive “proof of concept” development work undertaken by Archer Materials
- Opportunity to incorporate South Australia’s abundant renewable energy to enhance “green” credentials
- Proposal for updated scoping study being prepared



# DRILLING PLANS - KAOLIN AND REE



 Prospects planned for upcoming drilling

## *Drill planning underway for high purity Kaolin and REE Projects*

- Wade Bollenhagen has joined the company as Exploration Manager
- Wade comes across from Archer Materials with over 10 years of in-depth knowledge, experience and landowner/stakeholder relationships
- Notifications of Entry have been sent to land owners at the Ethiopia and Caralue Bluff Prospects on the Eyre Peninsula in preparation for drilling
- Prospects are currently being cropped with drilling planned to commence once harvest has finished
- Notifications of Entry have been sent to landowners at the Bendigo and Franklyn Prospects
- Prospects are in station/grazing country with drilling able to commence once all approvals have been received
- Drilling will be undertaken by a local experienced aircore driller with a light vehicle mounted aircore rig



# COMPETENT PERSONS STATEMENT

*The Company confirms that it is not aware of any new information or data that materially affects the Exploration Results, Exploration Target or Mineral Resource as cross referenced in this Presentation. The Company confirms that all material assumptions and technical parameters underpinning the Mineral Resource continue to apply and have not materially changed.*

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# APPENDICIES



# APPENDIX 1 - Campoona Mineral Resource <sup>(1)</sup>

Area	Resource Category	Tonnes (Mt)	Graphitic Carbon (%)	Contained Graphite (t)
Campoona Shaft	Measured	0.32	12.7	40,600
	Indicated	0.78	8.2	64,000
	Inferred	0.55	8.5	46,800
Central Campoona	Indicated	0.22	12.3	27,100
	Inferred	0.30	10.3	30,900
Wilclo South	Inferred	6.38	8.8	561,400
Combined	Total Resource	8.55	9.0	770,800

(1) ASX Release, 19-Oct-21, Replacement Prospectus