



**Drilling to Uncover a Tier-1 Nickel Sulphide
Discovery in the East African Nickel Belt**

**RIU Resurgence
Conference
Perth**

23-24 November 2022 | ASX: ADD

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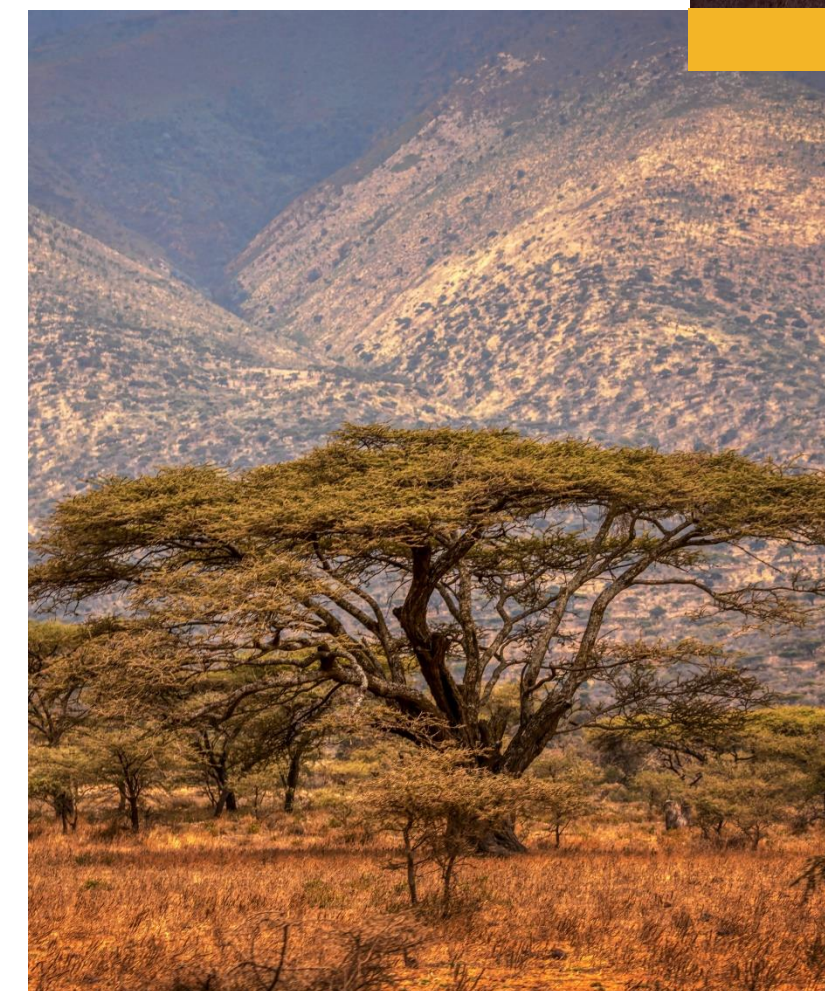
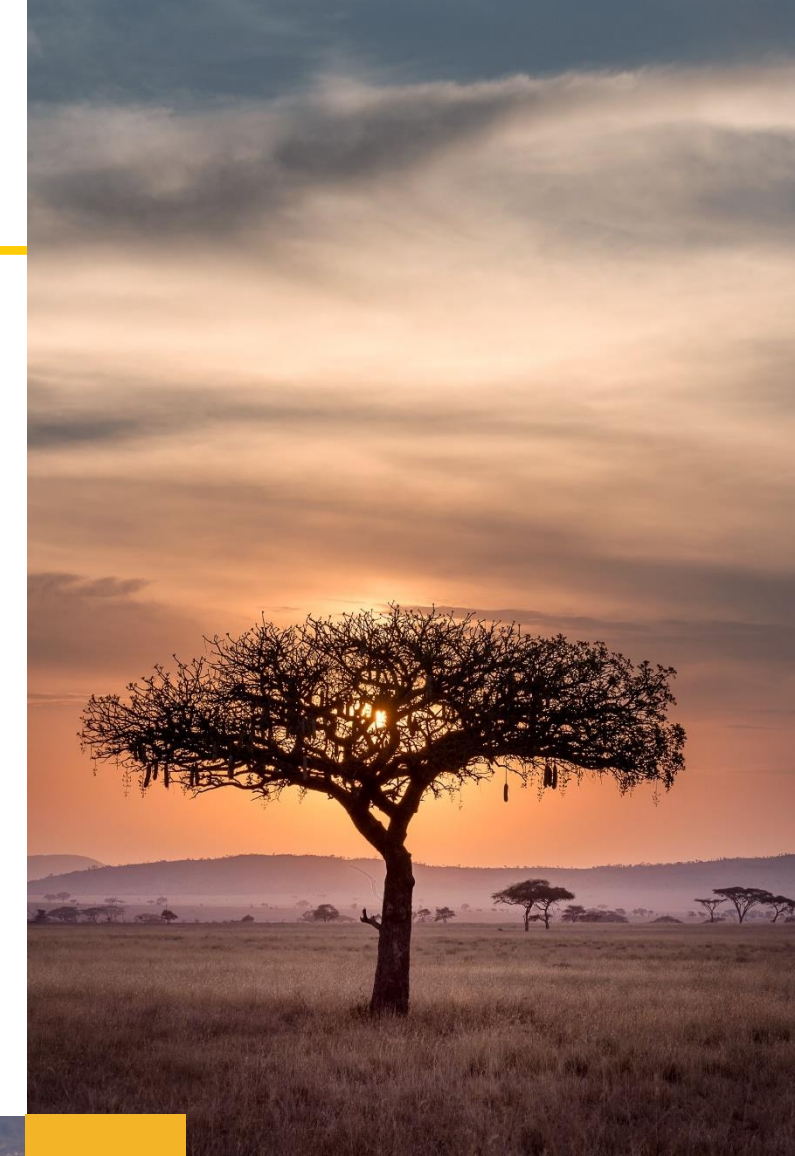
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Competent Person Statement

The information in this release that relates to "exploration results" for the **Nickel** Project is based on information compiled or reviewed by **Mr David Dodd** of MSA, South Africa. Mr Dodd is a consultant for Adavale Resources Limited and is a member of the SACNASP. Mr Dodd has sufficient experience that is relevant to the style of mineralisation and type of deposits under consideration as well as to the activity that is being undertaking to qualify as a Competent Person under the ASX Listing Rules. Mr Dodd consents to this release in the form and context in which it appears.

The information in this release that relates to "exploration results" for the **Uranium** Project is based on information compiled or reviewed by **Mr Patrick Harvey** MAppSci, Australia. Mr Harvey is a consultant for Adavale Resources Limited and is a member of the AIG. Mr Harvey has sufficient experience that is relevant to the style of mineralisation and type of deposits under consideration as well as to the activity that is being undertaking to qualify as a Competent Person under the ASX Listing Rules. Mr Harvey consents to this release in the form and context in which it appears.



Why invest in Adavale?



Exposure to critical minerals - Nickel and Uranium

- Electrification and Decarbonisation



A dominant Nickel exploration portfolio in the East African Nickel Belt ("EANB")

- Region poised to become an epicentre for nickel discovery and production in Tanzania



Success through dedicated methodology and a considered exploration program

- Gravity survey identified 32 new large-scale Ni sulphide targets
- Initially 20 targets flown with Heli - EM surveys covered



Drilling program underway (8,000m)

- RC/DD priority testing 7 coincident gravity and Heli EM anomalies
- Drilling to ~300+m to target conductors identified prospective for Ni Sulphides



Team assembled has deep African experience + track record of major Ni discoveries



Fully funded to execute imminent drill programs and ongoing exploration

- Recent placement and rights issue completed to raise ~\$3M

Board & Capital Structure

Grant Pierce

Non-Executive Chairman

Mining engineer with ED, NED, GM experience
Strong and long-standing affinity with Tanzania

David Riekie

Executive Director

Corporate experience, ASX roles (NED, MD, ED, CEO)
including Nickel, Uranium/Energy, African experience

John Hicks

Non-Executive Director

Accomplished Nickel Sulphide Geologist/Explorer, 15yrs of
GM level Geo/Explorer for ASX listed

Allan Ritchie

Chief Executive Officer

Experienced ASX/HKEx Energy and Resources CEO/ED/MD,
30+yr Investment Banking career

Leonard Math

Chief Financial Officer/ Company Secretary

Experienced Resources sector executive, ASX listed ED, CFO,
Coy Sec

ADD	\$15.3m*	~3.0cps	~\$2.3m*
ASX Code	Market Cap	Share Price	Cash & Liquids
510m	17m	130m*	~6%
Fully Paid Ordinary shares	Performance Rights	Options (Average 5cents to raise \$6.7m; \$4m within 11 mths)	Board & Management Ownership

Current Shares	m	~510
Pro-forma Cash & Liquids (30 Sept 2022)	\$m	2.3
Market Cap (at 3.0 cps @ 4 November 2022)	\$m	15.3
Enterprise Value (implied)	\$m	13.0

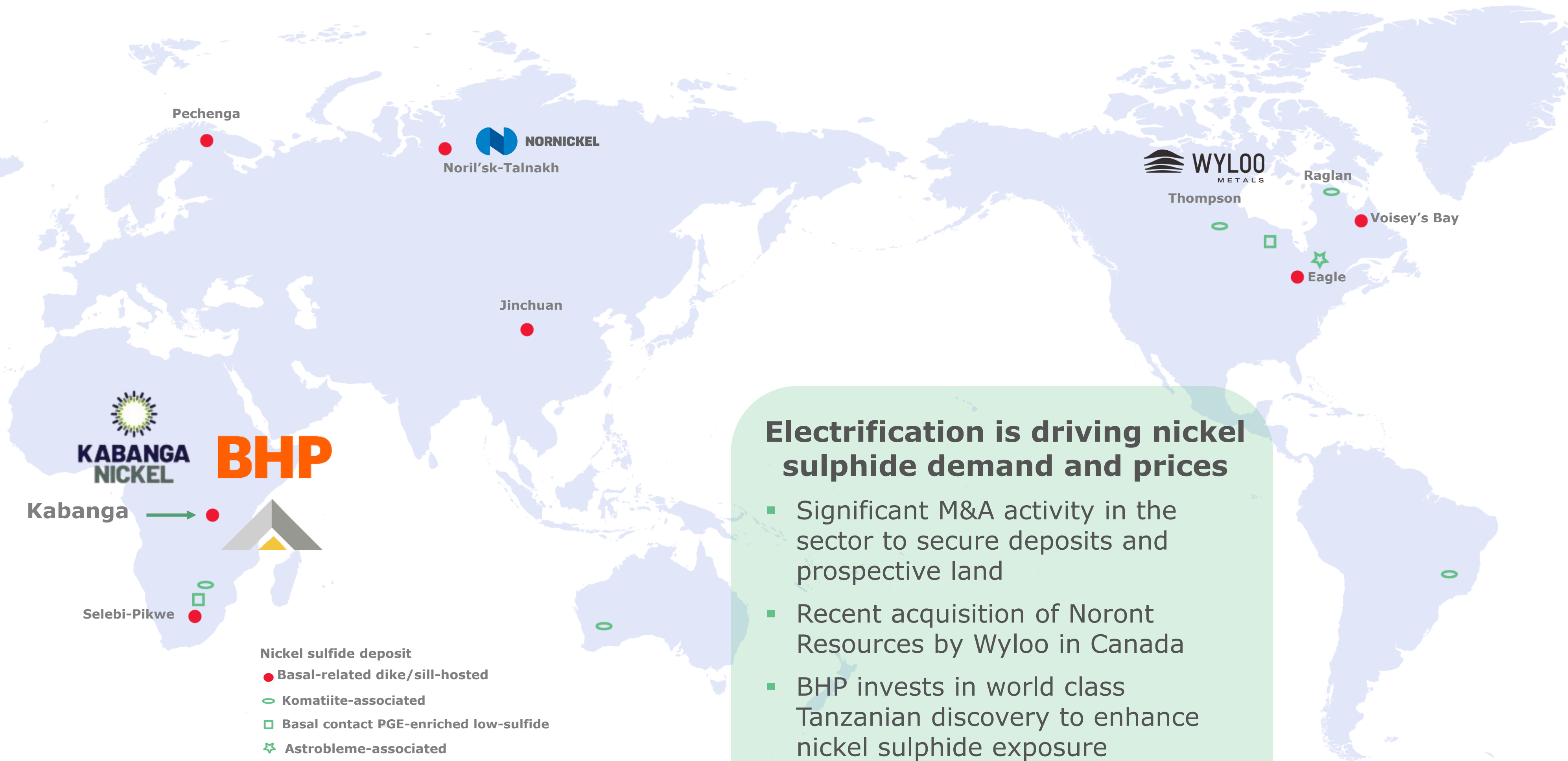
* Notes:

- Options include 98.4m 22 Sep 23 Ex @ 3cents + 5m 22 Aug 25 Ex @ 3cents + 17.5m Ex Dec 22 @6 cents + 17m Ex Jan 25 @15 Cents
- Cash & liquids includes \$1,610k(30 Sept 2022) +\$175k cash draw facility with LKC Technology Pty Ltd (LKC) + \$540,000 Shortfall/Rights Issue
- Performance rights 17m (Directors/KMP 9m tranche 1Mt @1.5% Ni+ 2m 5mlbs @300ppm U308 JORC resource (exp Dec 2023); 5.75m 5day VWAP 15cents (Jun 23)

Sulphide Nickel & Market Dynamics

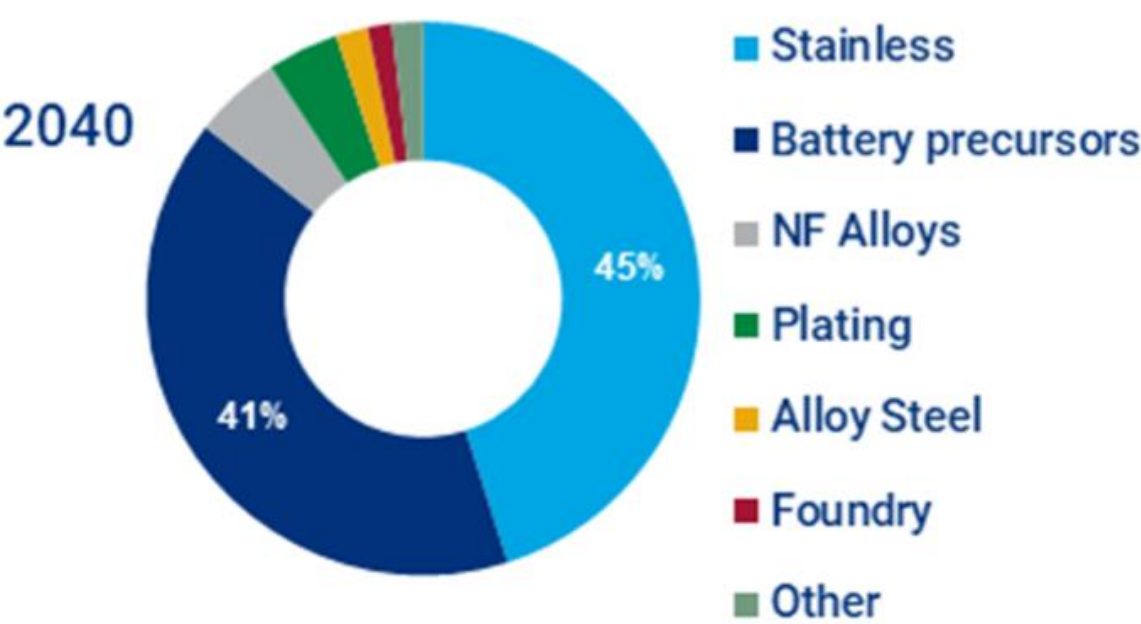
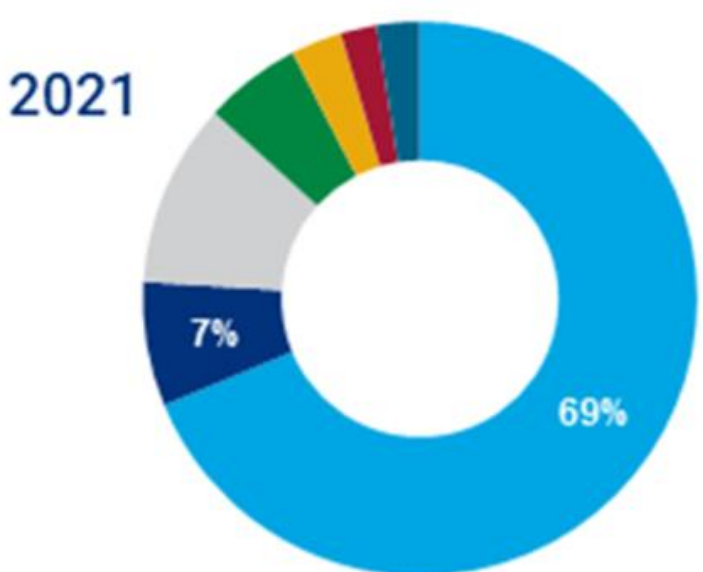
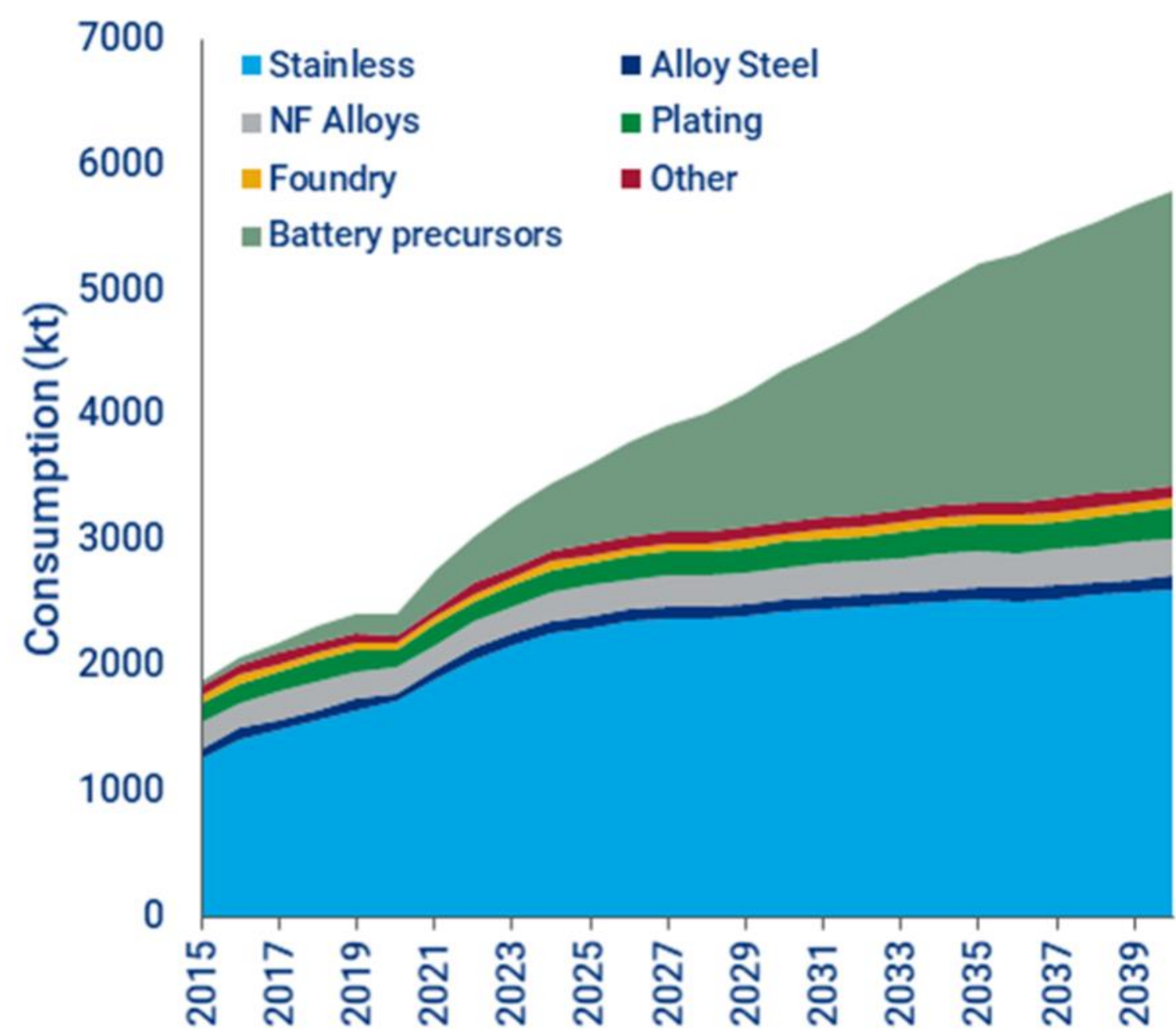


Nickel Sulphide Deposits – Rare and In Demand



Nickel - Global Demand

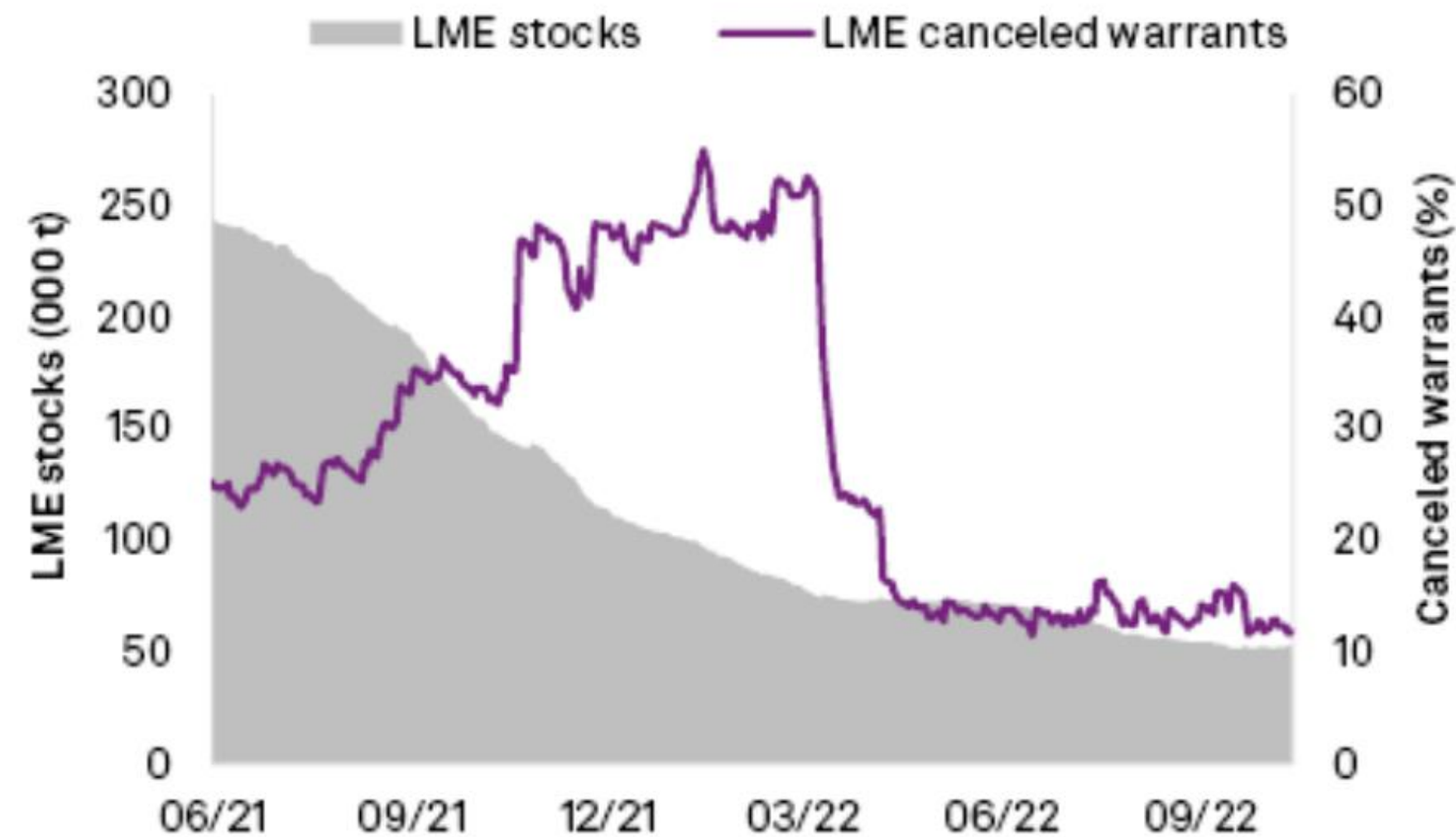
Use in batteries will double global nickel demand by 2040



Source: Wood Mackenzie

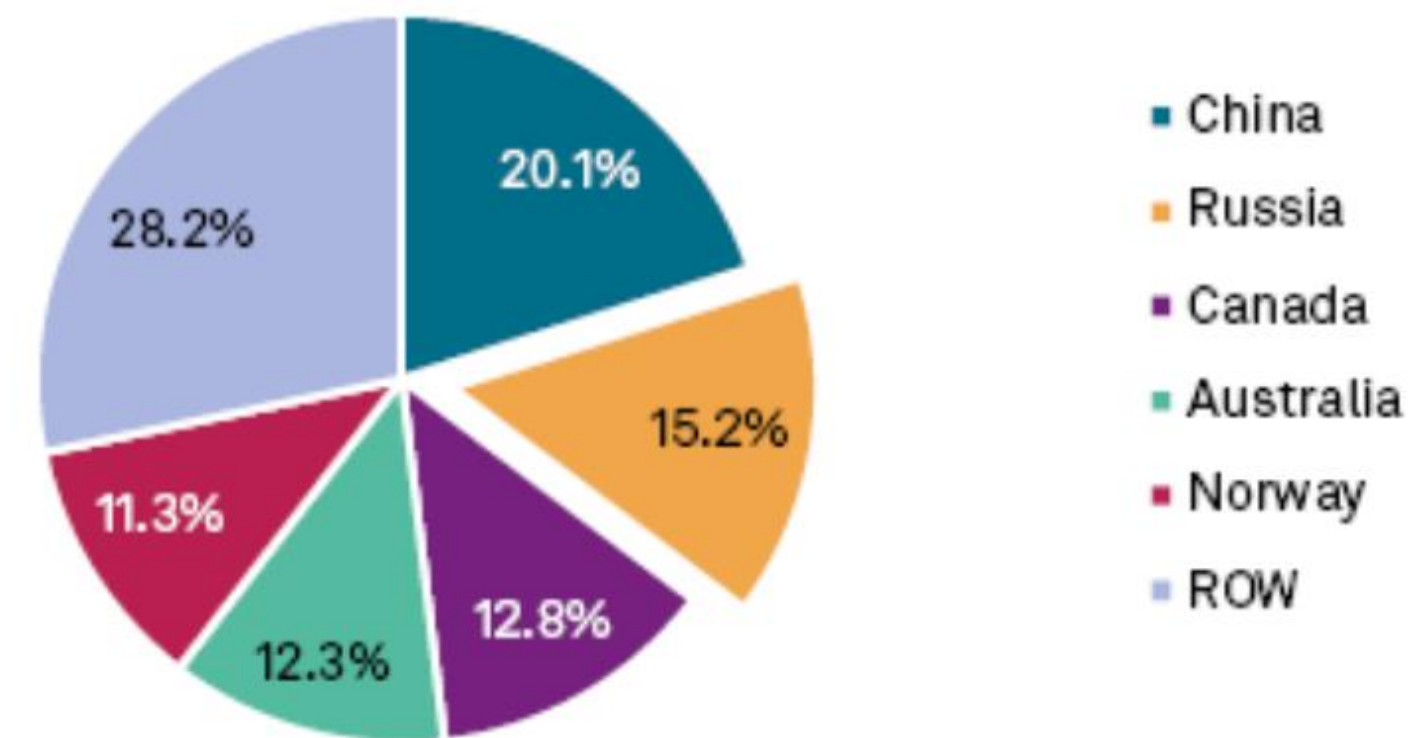
Nickel - Inventory and Current Production

LME nickel stocks lowest since October 2008



As of Oct. 14, 2022.
LME = London Metal Exchange.
Sources: London Metal Exchange; Refinitiv.
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Russia a major producer of LME-deliverable class 1 nickel



2021 global class 1 nickel output = 796,000 tonnes

As of Oct. 14, 2022.
ROW = rest of world.
Sources: S&P Global Market Intelligence; Antaike; International Nickel Study Group.
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Corporate Activity – Positive and Fertile Corporate Landscape

THE CITIZEN NEWS MAGAZINES OPED PHOTOS VIDEO SUPPLEMENT JOBS

Government eyes Sh17.2 trillion as nickel project gets the nod

THURSDAY OCTOBER 28 2021

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January 20, 2022
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European Markets

Supply squeeze pushes nickel up 5% to 11-year high

Reuters

Twitter Facebook LinkedIn Link Email

LONDON, Jan 19 (Reuters) - Nickel prices on Wednesday shot to their highest since 2011 as a supply shortage forced traders to pay huge premiums to get their hands on metal.

2 minute read

July 22, 2021
2:24 PM GMT+8
Last Updated 6 months ago

Business

BHP to supply greener Australian nickel to Tesla

Reuters

AUTOS JULY 23, 2020 / 3:33 PM / UPDATED A YEAR AGO

'Please mine more nickel,' Musk urges as Tesla boosts production

By Yilei Sun, Melanie Burton

4 MIN READ

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Metals rally heats up as nickel price hits \$24,000 on supply snarls

[Bloomberg News](#) | January 20, 2022 | 8:09 am [Intelligence](#) [Markets](#) [China](#) [Europe](#) [Nickel](#)

BHP Buys Into Tanzania Nickel Mine After Failed Canadian Bid

- World's biggest miner to invest \$100 million in Kabanga Nickel
- BHP will take a 17.8% stake in the Tanzanian nickel project

By [Felix Njini](#) and [Thomas Biesheuvel](#)

10 January 2022, 16:29 GMT+8 *Updated on 10 January 2022, 17:53 GMT+8*

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December 22, 2021
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Deals

Wyloo to buy nickel miner Noront after BHP drops off from race

Reuters

Tanzania - Country Dynamics + Recent Nickel Focussed Actions

Tanzania as a destination

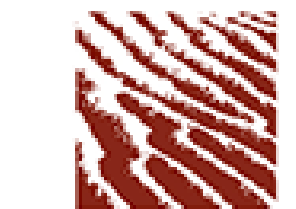
- Numerous projects for various minerals are progressing or in the pipeline for government consideration and approval
- Dedicated negotiation teams to progress projects
- Clear government ownership interest (16%) established

BHP has made a significant investment in Kabanga Nickel (equity/technology)

- US\$40m stage 1
- US\$10m technology
- US\$50 stage 2 milestone (scope for future commitments) to secure ~18% interest in Kabanga Nickel

Relevance and context

- BHP responsible for the original regional surveys 1990's (foundation for Kabanga discovery)
- Global relevance of Tanzanian Ni Sulphide deposits as a destination
- Signals changing sentiment - Tanzania as an investment destination
- Benefit to ADD of proximal green processing and mining operation/jurisdiction
- Significant local economic benefit current and ongoing anticipated





Nickel Portfolio, Tanzania

**A dedicated methodology and exploration program to
uncover a large-scale Ni sulphide discovery in East African
Nickel Belt**

Kabanga Jirani and Luhuma – Dominant Position in East African Nickel Belt

Dominant nickel licence portfolio within the **East African Nickel Belt** of Tanzania **covers 1,267 sq kms**

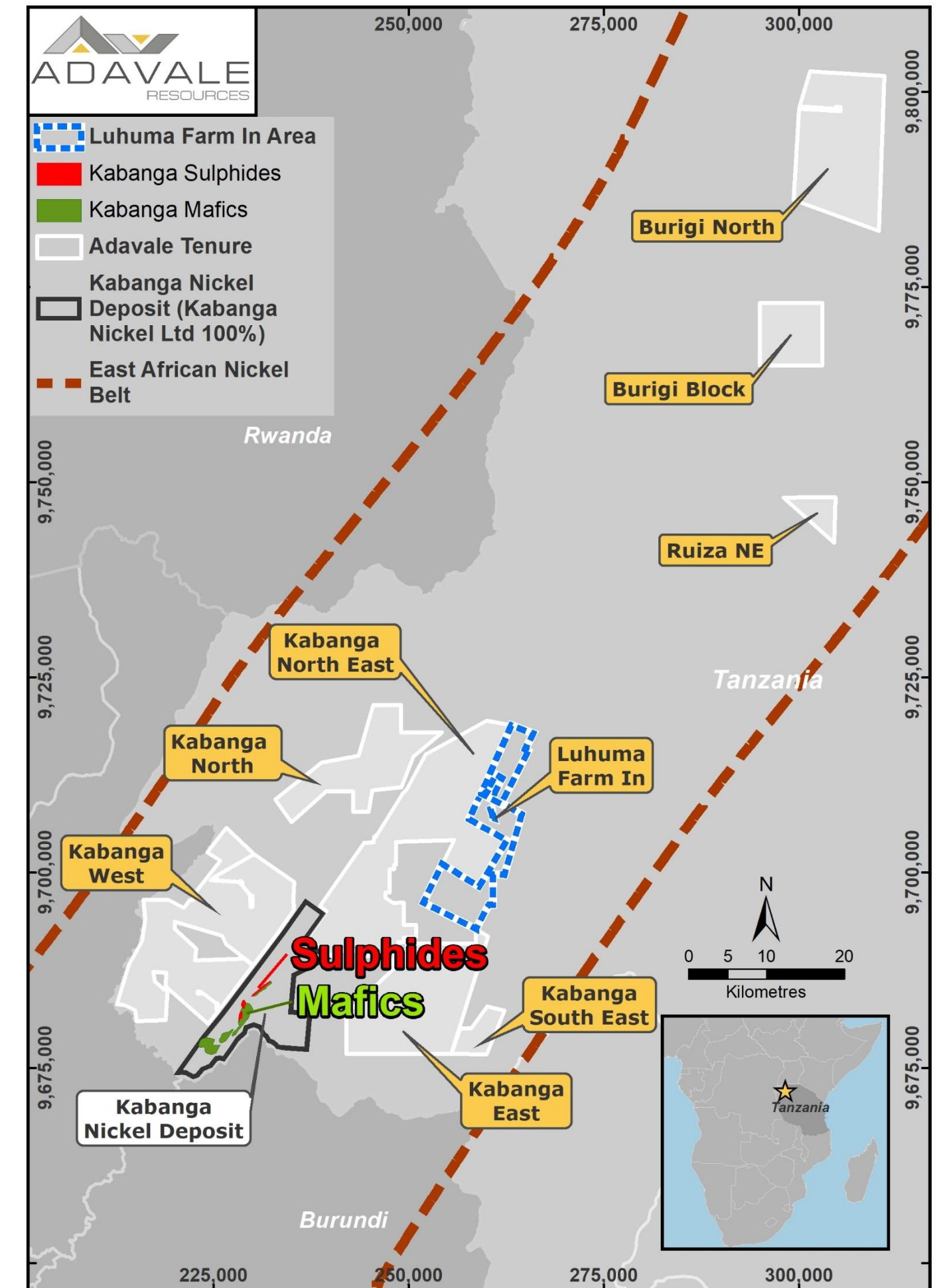
Portfolio Overview

- 100% owned Licences + Luhuma Farm – In ground (initially to 80%, trigger to 100%)
- Located along the Kabanga - Musongati mafic-ultramafic alignment within the Meso-Proterozoic Karagwe-Ankole Belt (age ~1350 to 1400Ma), prospective for Ni, Cu, Co, Cr and PGE's
- Notable setting similarity with:
 - Thomson Nickel Belt, Raglan and Voisey's Bay deposits in Canada
 - IGO's Nova in the Albany-Fraser Belt in Western Australia

Licenses are adjacent and along strike from the world's largest "under development" high-grade **Kabanga nickel sulphide deposit, 58Mt @ 2.62% Ni**

Adavale is poised to uncover a large-scale Ni sulphide discovery with a drilling program now underway

Drilling has commenced and is targeting high-priority conductors



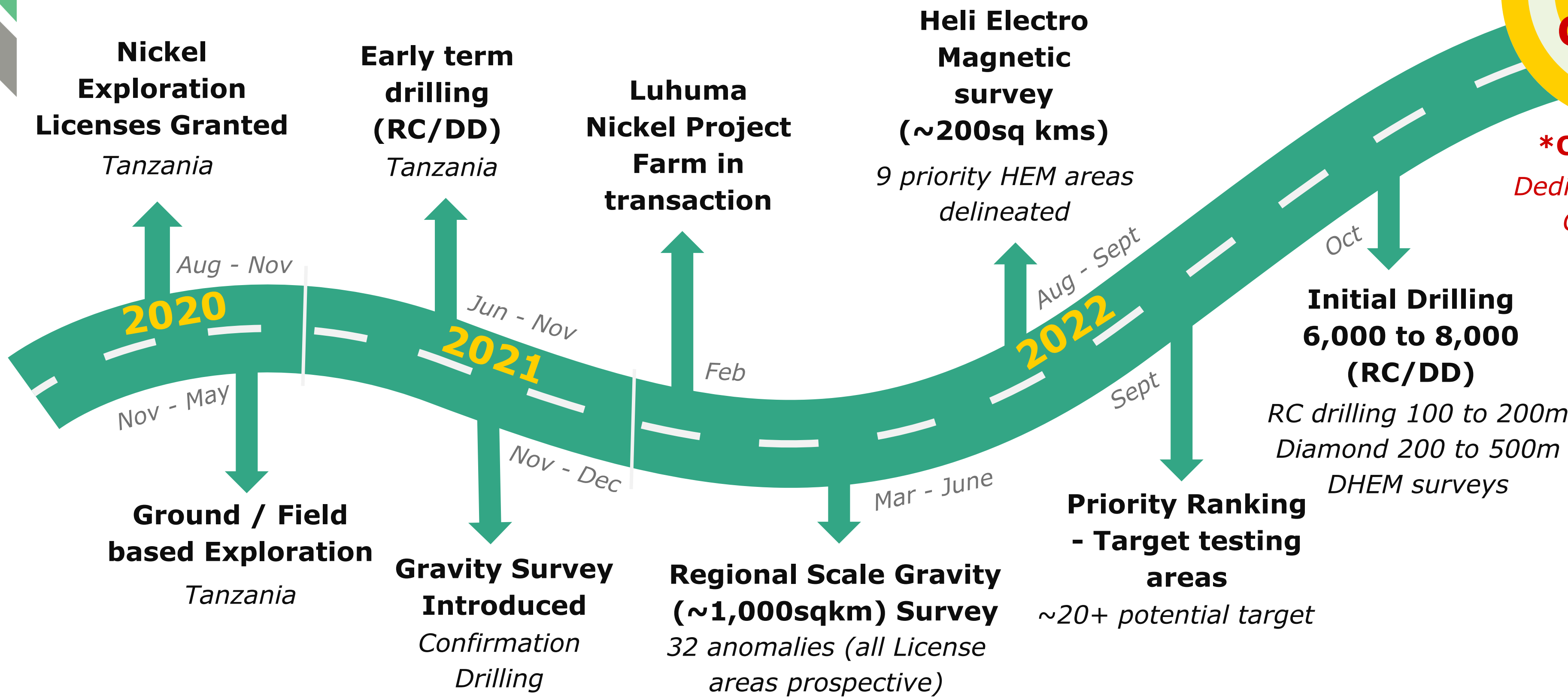
Methodical Approach to Maximize Probability of Drilling Success

***Objective: Discovery / Campaign focused resource drilling**

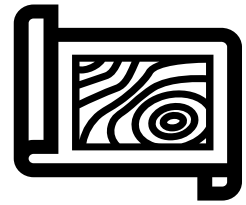


***OBJECTIVE**
Dedicated Drilling Campaign

NICKEL PORTFOLIO



Overview of CY 2022/23 Nickel Exploration Program



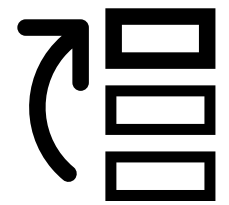
Ground Based/Field Survey(s) ✓

- Field checking, logistics/Soil sampling (orientation);
- Initial gravity and preliminary drilling



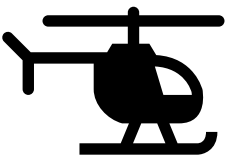
Regional Scale Gravity Survey ✓

- 1,000 sq kms- 32 anomalies identified



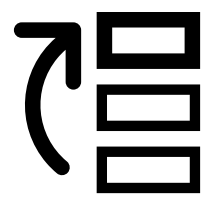
Prospect Ranking for EM survey ✓

- Hierarchy to identify priority survey areas (200 sq kms)



Heli Airborne EM (HEM) Survey ✓

- 9 HEM areas outlined



Prospect Ranking - Drilling ✓

- Hierarchy of priority and type of drilling recommended
- Coincident/correlation review - gravity targets + HEM signatures



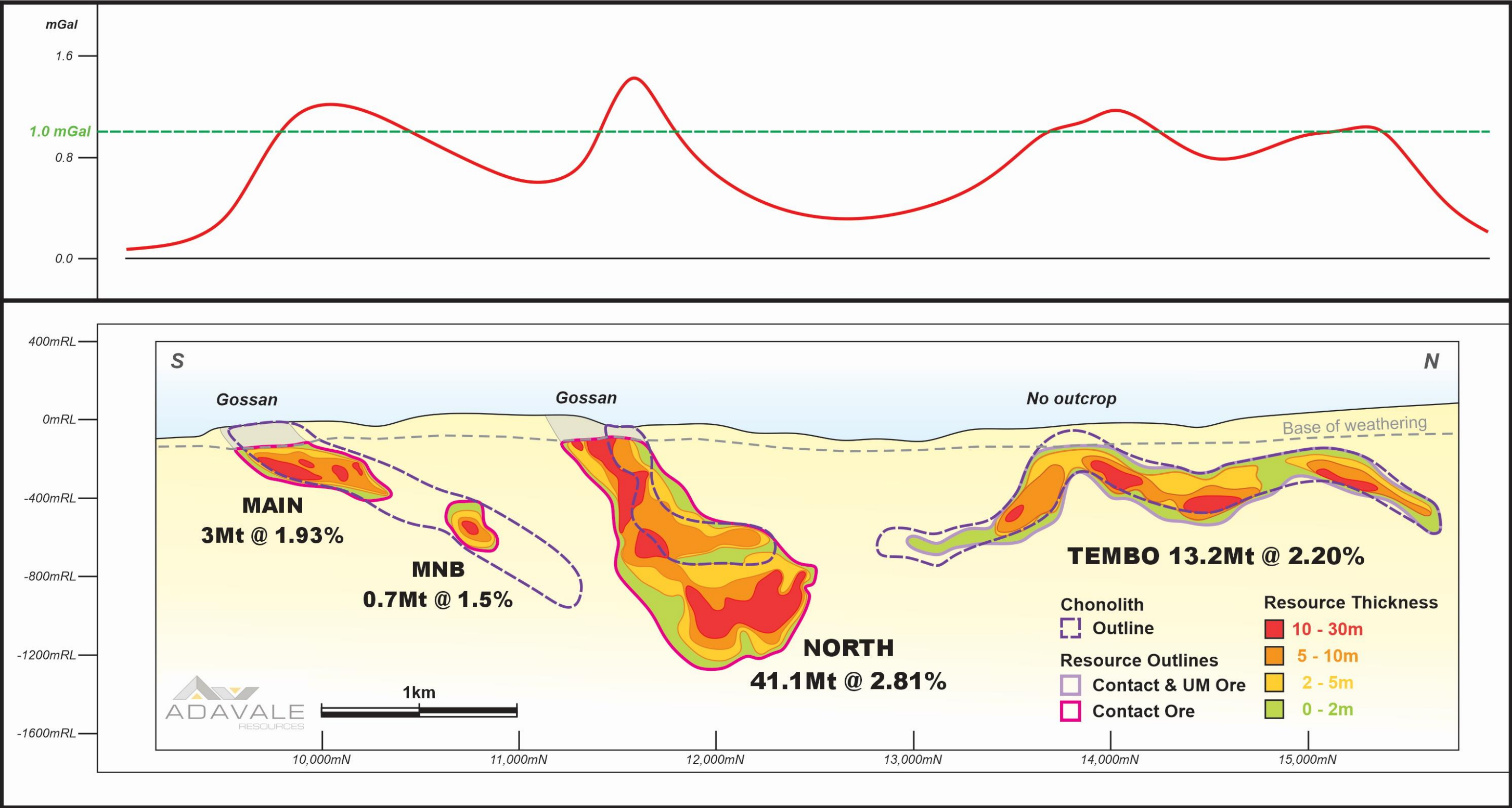
Campaign Drilling Underway

- Targeted (RC/Diamond) over high priority prospects
- Assay results/pXRF readings



Pathfinder Gravity Signatures – Modelled on Neighbouring Resource*

Priority gravity ranking for anomalies + 0.75mGal Bouguer



Modelling & Outcomes

- Modeling has been undertaken by ADD based on the underlying deposits and Resources at Kabanga* to generate a range of corresponding (mGal) gravity signatures
- These indicative gravity signatures show mGal amplitudes of between ~ 0.6 to 1.4mGal around the large scale mafic/ultramafic intrusions
- ADD originally applied an exploration target threshold of +0.75mGal for the current gravity program to identify larger scale mafic/ultramafic intrusions
- ADD has already identified 16 discrete priority targets with gravity signatures+1mGal (increased density)

****ADD ASX Release dated 7 July 2022 titled 32 Nickel Targets Identified in the East African Nickel Belt**
***Source: Evans, D. M., Hunt, J. P. P. M. and Simmonds, J. R., 2016. An overview of nickel mineralisation in Africa with emphasis on the Mesoproterozoic East African Nickel belt (EANB). Episodes, 39/2, 319-333. DOI: 10.18814/epiugs/2016/v39i2/95780**

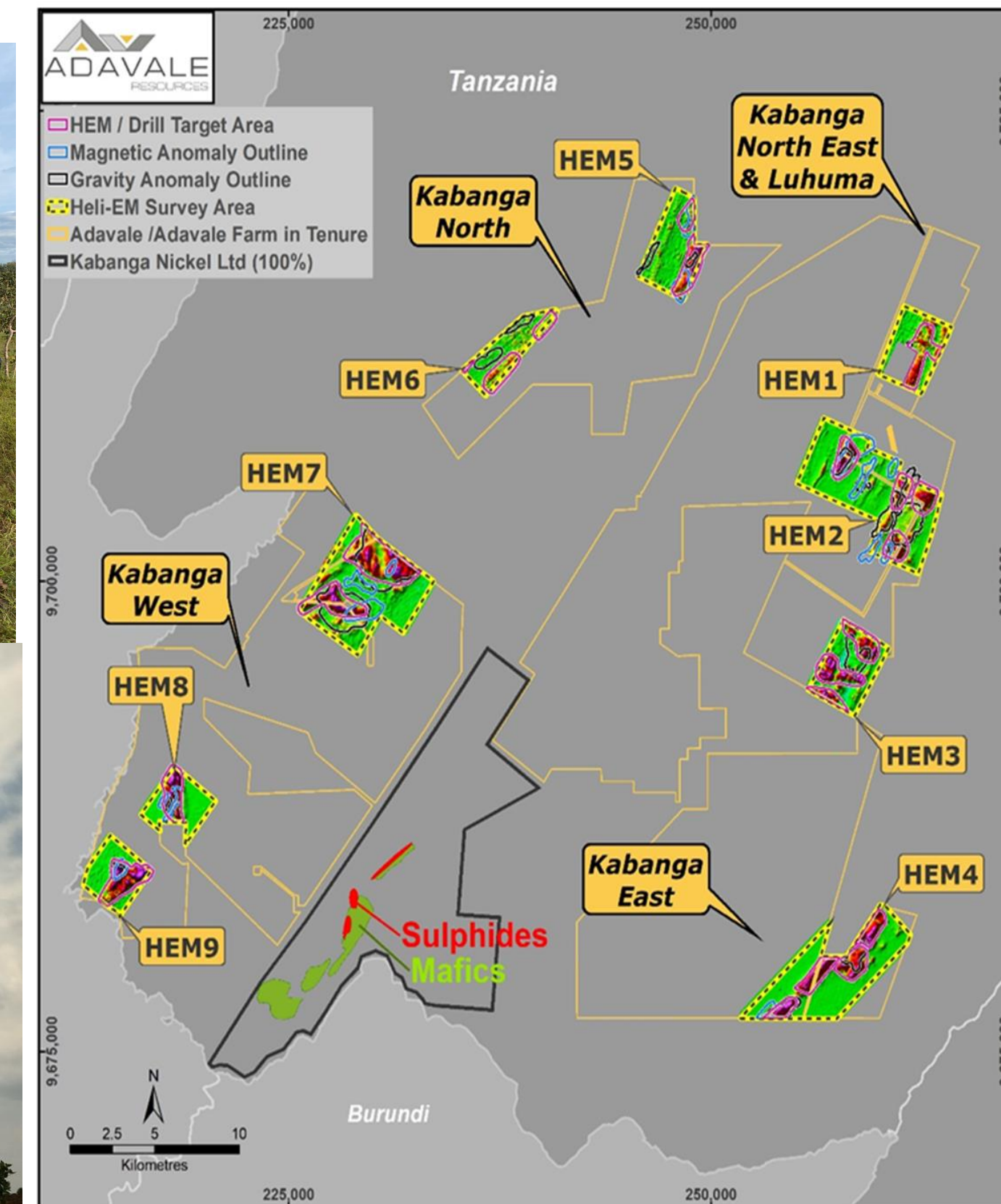
Gravity + Heli Electromagnetic Surveys – Co-incident

Gravity initiated foundations for exploration success*

- ~1,000 sq km gravity readings with **32 newly discovered and unexplored gravity targets**
- Confirmed prospectivity and large-scale nickel exploration potential **~55 km strike length** became the focus of Adavale's exploration program and **Heli-borne Electro Magnetic (HEM) survey**

Heli Electro Magnetic Surveys – 9 HEM Targets

- HEM survey has initially focused on 18 higher mGal amplitude anomalies of the 32 identified gravity targets
- **9 HEM target areas were flown using deep penetrating (~500m) high powered** time domain EM (TDEM) and magnetic survey equipment* ~2,100-line kms (210 sq kms) -September 2022
- Objective being **to identify** coincident areas of both strong EM and gravity targets~ conductors



Plan view of the nine HEM target areas flown

*ADD ASX Release dated 7 July 2022 titled 32 Nickel Targets Identified in the East African Nickel Belt

Drilling Campaign – Commenced in October 2022

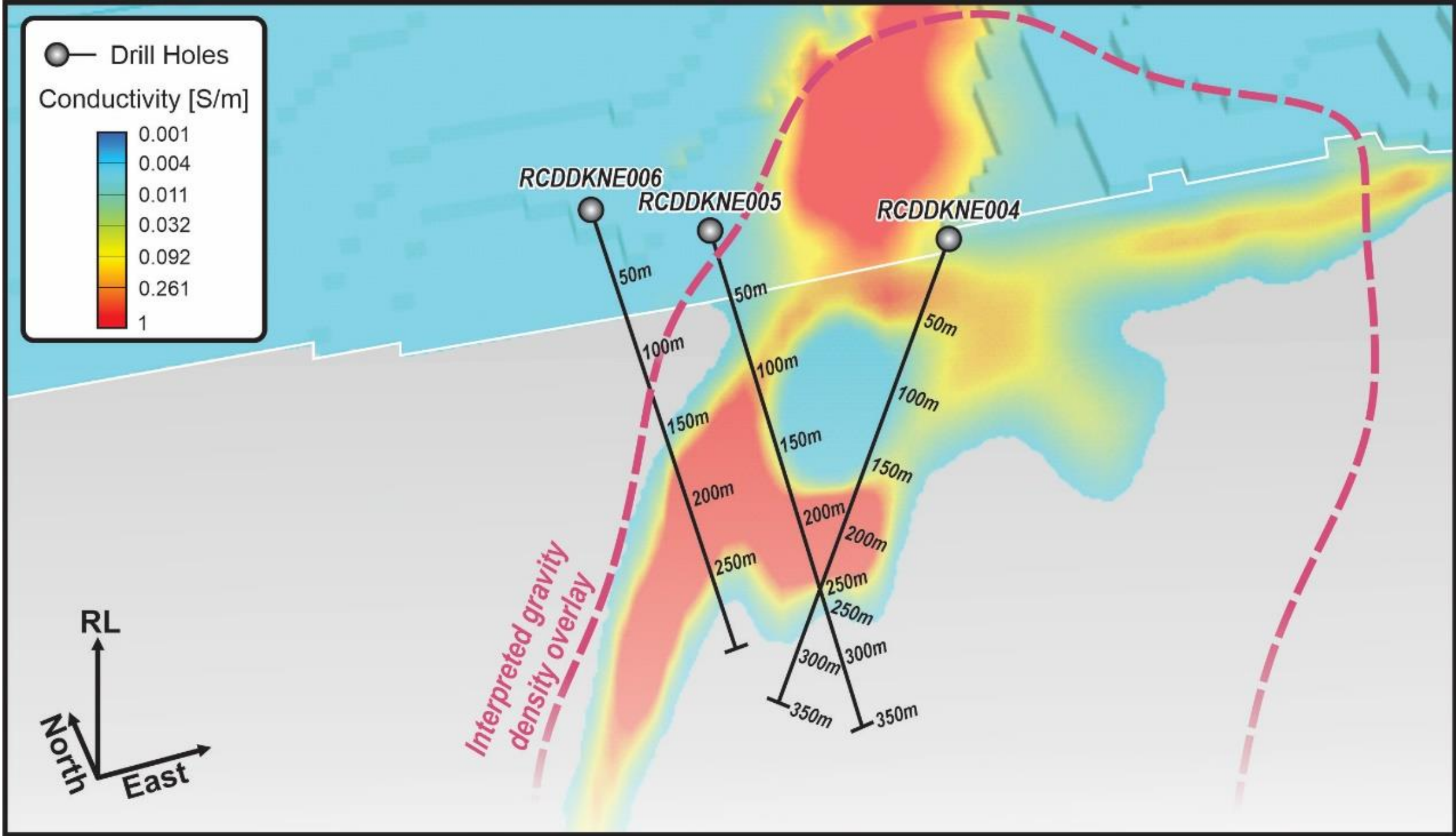
- High impact **6,000m to 8,000m** “Priority Target Testing” **drilling program** now underway and accelerating
- Multi-purpose RC/DD drill rig(s) in operation RC pre-collar drilling ~100m; diamond drilling depths up to 500m
- Ongoing assessment and adjustment to drill program anticipates the initial drill program is expected to test approximately **20 initial anomalies within 7 priority HEM/Nickel target areas**
 - ✓ Initial **RC Drilling commenced at HEM area 2**
 - ✓ Additional drilling to follow at **HEM areas 3 & 4**
 - ✓ **Relocation to HEM 7-9**, proximal and on similar latitude to Kabanga Nickel Resource 58Mt @ 2.62% Ni
- Downhole EM to aid ongoing drill targeting
- Visual outcomes from drilling expected during the December quarter



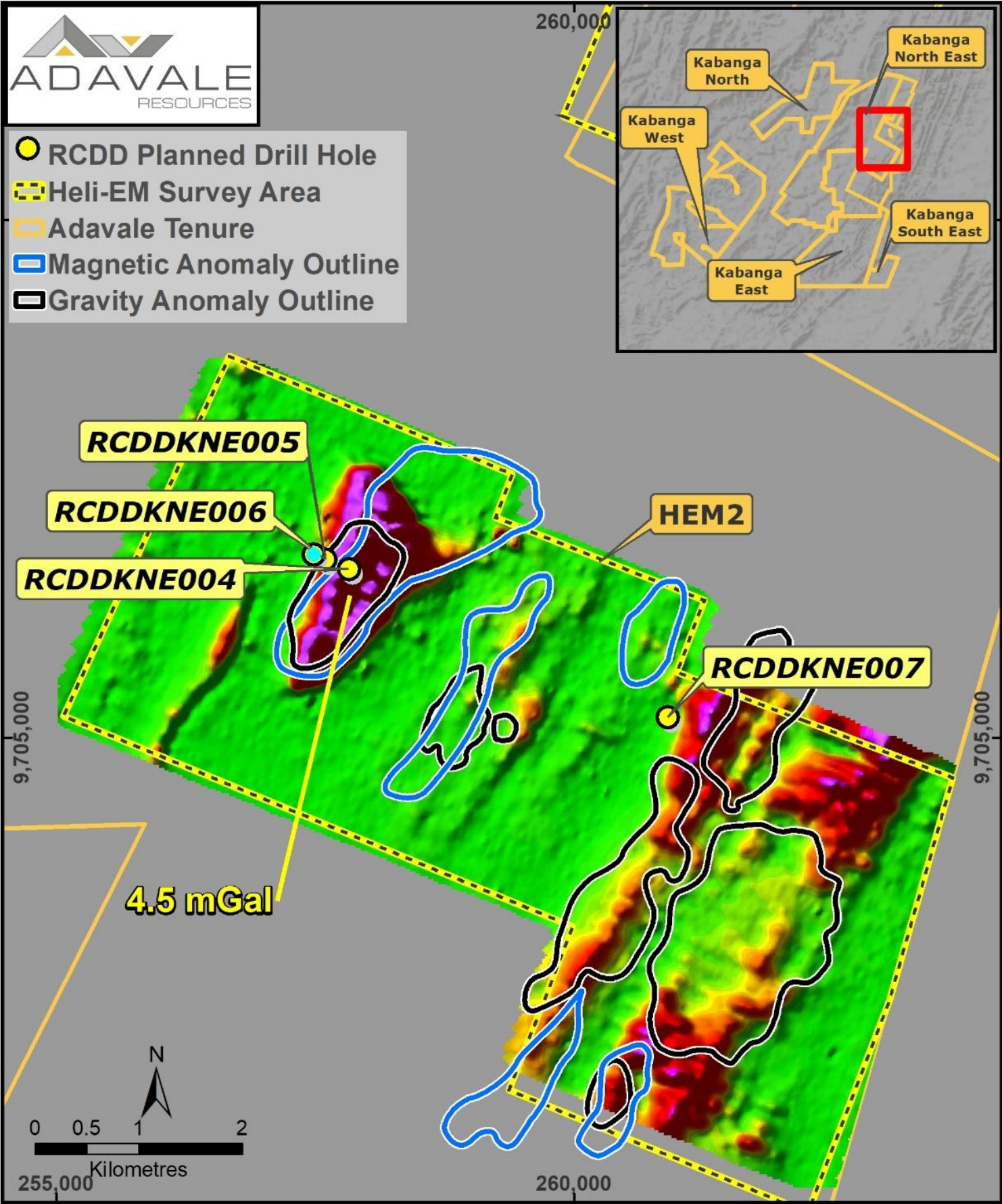
RCDDKNE 004 pre-collar installation at HEM 2 - Kabanga North-East

**ADD ASX Release dated 28 October 2022 titled "Diamond Drilling underway at Kabanga Jirani Nickel Project"*

Sulphide Nickel – Drill Target Areas - HEM2*

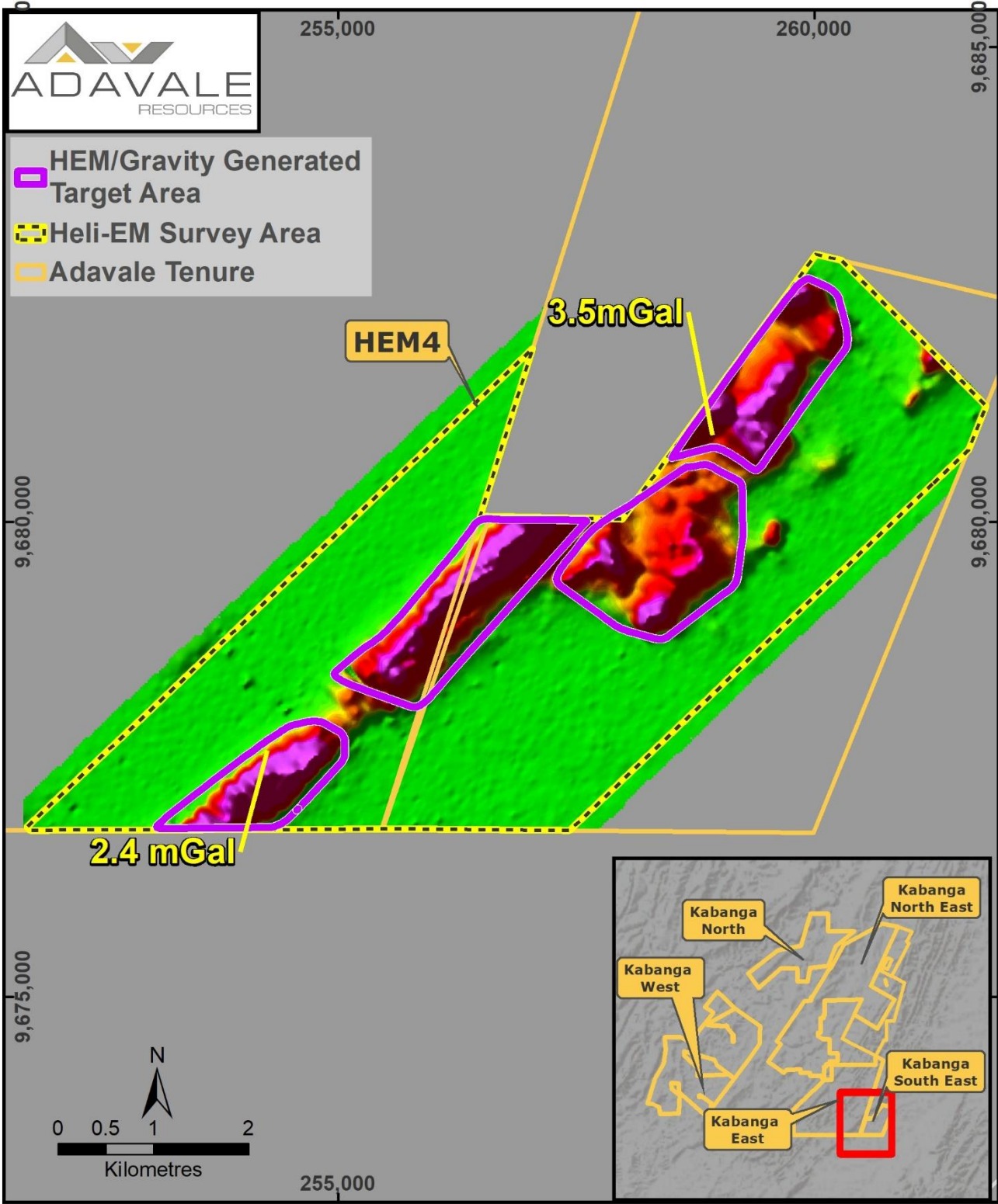


Interpreted extent of the intrusion based on a 3D Voxel generated image prepared from NRG 1D inversions, overlaid with 3 DD drill hole traces. RCDDKNE004 will be drilled first followed by RCDDKNE005 (scissor hole) and dependent on results, RCDDKNE006. The red dashed line represents the outline of the interpreted strong gravity anomaly associated with this target area.

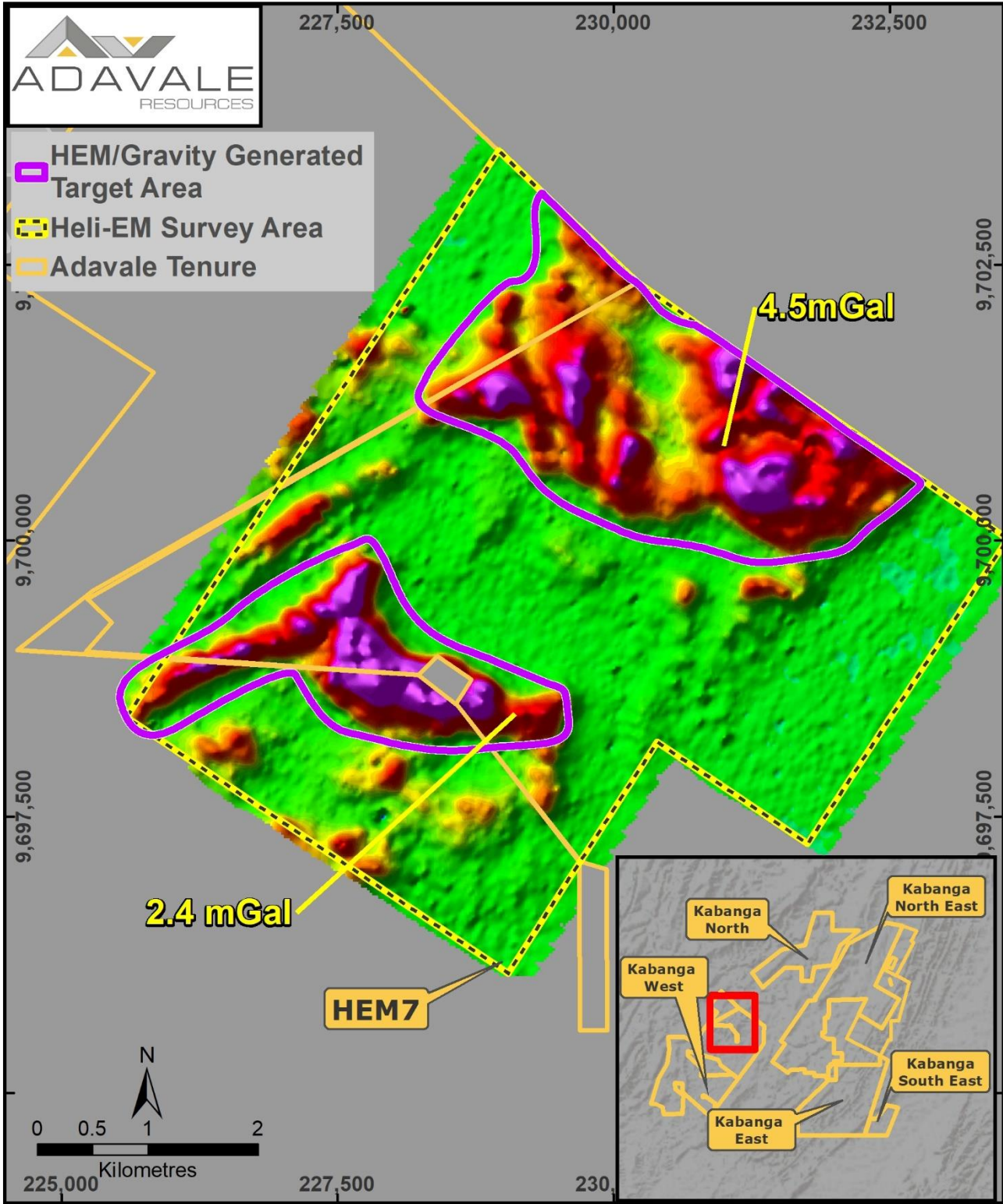


HEM survey area plan showing broad internal target areas based on gravity and EM signatures, together with the location of the Kabanga nickel sulphide deposits and associated mafic intrusions"

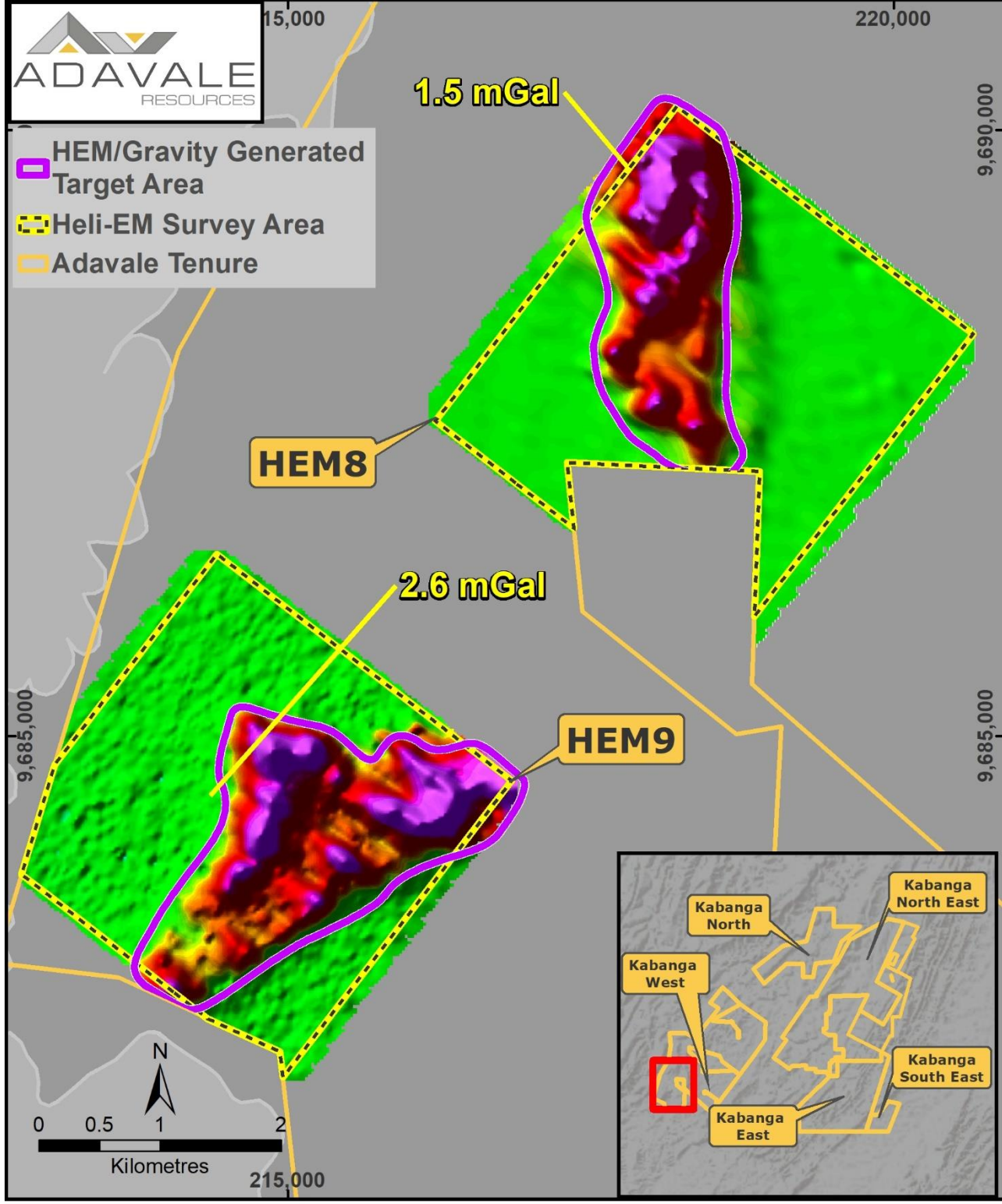
Drilling Campaign – Priority Locations and Focus*



Plan view of HEM survey areas 4 showing background channel 20 data, overlain with colour polygons reflecting areas of associated strong gravity, magnetics and EM



Plan view of HEM survey areas 7 showing background channel 20 data, overlain with colour polygons reflecting areas of associated strong gravity, magnetics and EM



Plan view of HEM survey areas 8 & 9 showing background channel 20 data, overlain with colour polygons reflecting areas of associated strong gravity, magnetics and EM

Tanzanian Social and Community Focussed Initiatives

Regional contract and employment opportunities

- Local geological field assistants and contractors
 - Drilling
 - DHEM surveys
 - Ground based surveys (soil and gravity surveys)
 - Logistics

Local Community and Health focused initiatives

Bridge2Aid Australia

- Prevention of infant oral mutilation
- Training, awareness and treatment



VAKA Health Foundation (sponsorship)

- Providing professional development training for 60 nurses at Ngara District Hospital'
- AAMEG 2022 award winner:

“Best Workforce and Industry Development Initiative”



SCAN ME



Uranium Project, South Australia

**Early and ongoing exploration success and Drilling to
commence in Jan 2023 in Australia's most prospective
region for uranium**

Lake Surprise South Australia

- Located in South Australia - 550km north of Adelaide and 75kms east of Marree
- Proven uranium province hosting multiple mines and deposits - ~90kms from Beverly Four Mile Uranium mine
- 100% owned tenure comprising 4 granted EL's (~1,080sqkms) on the northern flank of the Flinders Ranges (considered highly uraniferous)

Ministry ID	Area (km ²)	Project Location
EL 5892	60km2	Lake Arthur East, South Australia
EL 5893	167km2	Lake Arthur, South Australia
EL 6598	137km2	Canegrass Swamp, South Australia
EL 6821	714km2	Mundowdna, South Australia

- Helium study from satellite imagery indicated several anomalies coincident with gamma anomalies and better defines uranium targets for exploration.
- 400km gamma survey completed Nov 2021¹ interpreted to be hosted in the silicified sediments of a palaeochannel system discharging from northern Flinders Ranges
- Assay summary from rock chip samples² :
 - ✓ Highest uranium content of 356ppm
 - ✓ 11 of 28 rock chip samples with uranium content above 100ppm (7 above 200ppm)
 - ✓ Elevated gamma correlating with the uranium in samples



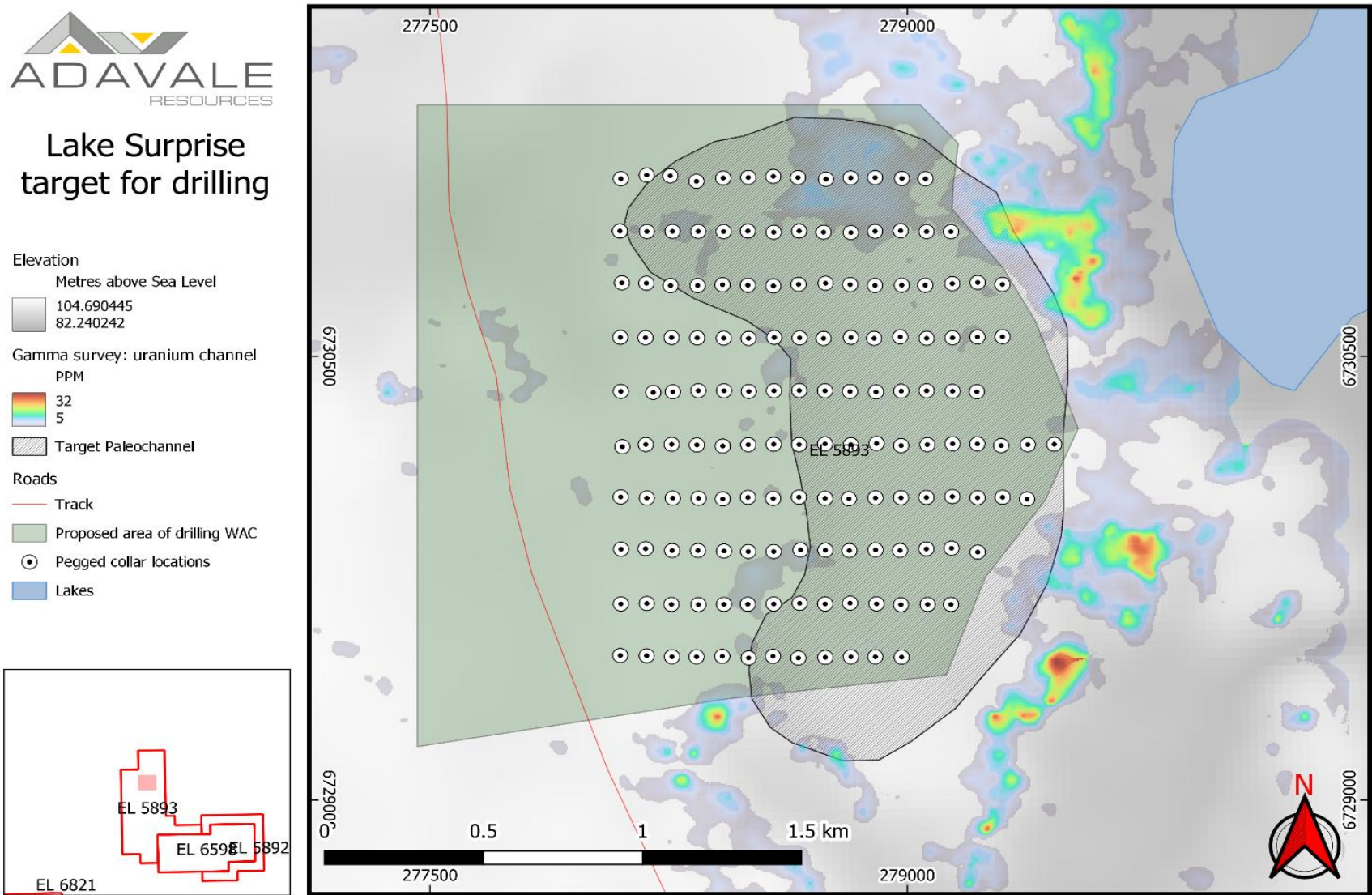
Location Map Lake Surprise South Australia

Approvals received for Drilling*

- 4,500m Air Core uranium drilling program (~ 150 holes av 30m target depth) scheduled to commence Jan 2023
- Uranium exploration Work Area Clearance (WAC) and Notice of Entry (NOE), Department of Energy and Mines (DEM) environmental approvals received
- Exploration and environmental management procedures to support drilling campaign finalised
- Drilling contractor confirmed



4WD mounted air core rig, for drilling at Lake Surprise



Planned drilling locations for the 150-hole program. Mapped gamma anomalies are shown with drilling targeting the buried extension of these anomalies.



Drone survey at Lake Surprise July 2022



Geologist pegging drill locations at site July 2022

* ASX release dated 20 June 2022 "Pathway Cleared for Uranium Drilling at Lake Surprise"

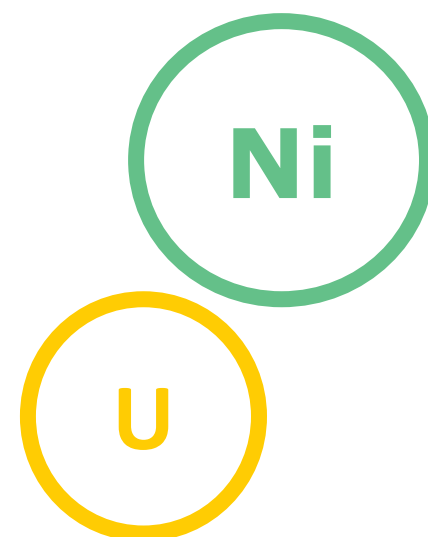
Investment Thesis



Alignment of opportunity and knowledge with activities focused on discovery with a highly prospective ground holding for sulphide Nickel and Uranium

Strong and experienced Board, Management and team: extensive Tanzanian experience, nickel exploration - discoveries and corporate actions and resource development

Board and key executives: material shareholdings, performance-based incentive: **leveraged to value uplift** via significant outcomes including discovery



Exposure to both Nickel and Uranium: Electrification and Decarbonisation



Proximal high-grade nickel sulphide Resources in the East African Nickel Belt

Contiguous with the world richest undeveloped nickel deposit – 58Mt @ 2.62% Ni

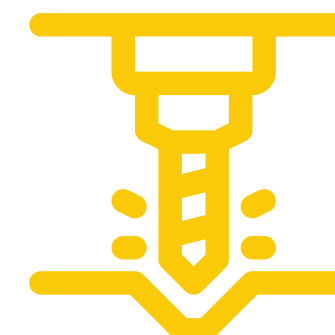
~1,300 sq km Licence/Farm ground holding

Multiple anomalies over 9 HEM/Gravity coincident target areas



Tanzanian Government is open to investment, mining and exploration

BHP have also re-emerged in via a strategic investment



High impact RC and DD drilling campaign now underway ~8,000m

Results expected from Dec 22



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Adavale Resources Limited



@AdavaleL



Nickel – The Current Supply Dynamic

Nickel price finds support from potential LME Russian nickel ban



As of Oct. 14, 2022.

LME 3M = London Metal Exchange three-month.

Sources: S&P Global Market Intelligence; London Metal Exchange.

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HOW MANY MINES DO WE NEED?

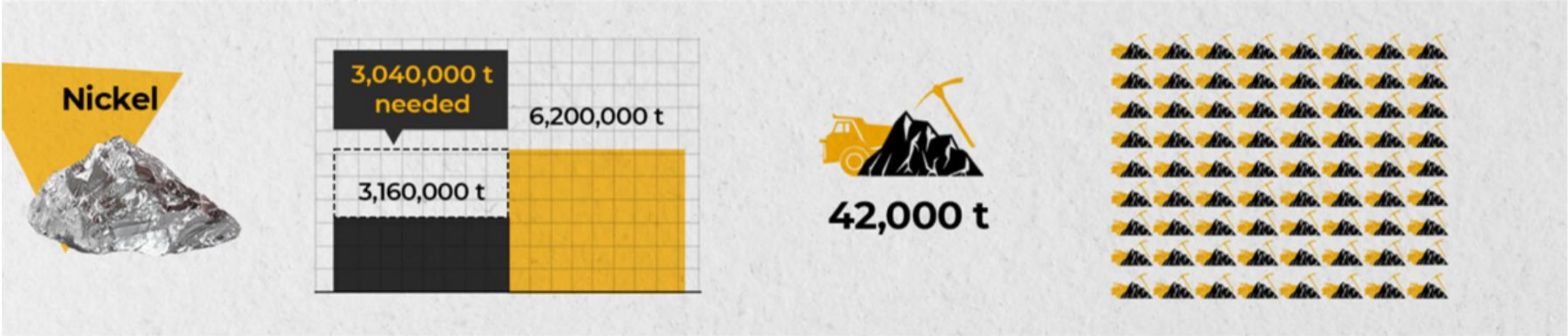
As the lithium ion battery revolution gains momentum, **Benchmark** forecasts just how many mines need to be built to keep up with the exceptional volumes of demand for key raw materials expected by 2035.



■ 2022 Supply Vs 2035 Demand ■

Average Mine/Plant Size

No. of Mines/Plants Needed



Source: Benchmark Minerals Intelligence