



Securing the Future of Helium

Noosa Mining 2022
Conference Presentation

ASX: **NHE**

noblehelium.com.au

Disclaimer

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Noble Helium has issued a prospectus dated 18 February 2022 in connection with its proposed initial public offering of shares and listing on the Australian Securities Exchange (**Prospectus**). Accordingly, this presentation should be read in conjunction with the Prospectus. Any person who wishes to apply for shares in Noble Helium will need to apply under the Prospectus by completing an application form accompanying the Prospectus. Comprehensive details regarding Noble Helium and its projects are set out in the Prospectus.

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This presentation may include forward-looking statements. Forward-looking statements are only predictions and are subject to risks, uncertainties and assumptions which are outside the control of Noble Helium. Actual values, results or events may be materially different to those expressed or implied in this presentation. Given these uncertainties, recipients are cautioned not to place reliance on forward looking statements.

No reserves have been assigned in connection with the Company's property interests to date, given their early stage of development. Unrisked Prospective Helium Volumes have been defined. However, estimating helium volumes is subject to significant uncertainties associated with technical data and the interpretation of that data, future commodity prices, and development and operating costs. There can be no guarantee that Noble Helium will successfully convert its helium resource to reserves and produce that estimated volume.

Competent Person's Statement

The prospective volumes are for helium, which are not hydrocarbons. However, Netherland, Sewell & Associates, Inc. have used the definitions and guidelines set forth in the 2018 Petroleum Resources Management System (**SPE-PRMS**) approved by the Society of Petroleum Engineers as the framework to classify these helium volumes as "prospective". The SPE-PRMS is specifically designed for hydrocarbons, which helium is not, however the principles and methods for hydrocarbon gas resource estimation are directly applicable to helium gas volume estimation.

The prospective helium volumes included in this presentation should not be construed as petroleum reserves, petroleum contingent resources, or petroleum prospective resources. They represent exploration opportunities and quantify the development potential in the event a helium discovery is made. The information in this presentation which relates to prospective helium volumes is based on, and fairly represents, in the form and context in which it appears, information and supporting documents prepared by, or under the supervision of, Alexander Karpov and Zachary Long.

Alexander Karpov is an employee of Netherland, Sewell & Associates, Inc. Alexander Karpov attended Texas A&M University and graduated in 2001 with a Master of Science Degree in Petroleum Engineering, and attended the Moscow Institute of Oil and Gas and graduated in 1992 with a Bachelor of Science Degree in Petroleum Geology. Alexander Karpov is a Licensed Professional Engineer in the State of Texas, United States of America and has in excess of 26 years of experience in petroleum engineering studies and evaluations. Alexander Karpov has sufficient experience to qualify as a qualified petroleum reserves and resources evaluator as defined in the ASX Listing Rules.

Zachary Long is an employee of Netherland, Sewell & Associates, Inc. Zachary Long attended Texas A&M University and graduated in 2005 with a Master of Science Degree in Geophysics, and attended the University of Louisiana at Lafayette and graduated in 2003 with a Bachelor of Science Degree in Geology. Zachary Long is a Licensed Professional Geoscientist in the State of Texas, United States of America and has in excess of 16 years of experience in geological and geophysical studies and evaluations. Zachary Long has sufficient experience to qualify as a qualified petroleum reserves and resources evaluator as defined in the ASX Listing Rules.

Alexander Karpov, Zachary Long and Netherland, Sewell & Associates, Inc. have each consented to the inclusion in this presentation of the matters based on this information in the form and context in which they appear.

Corporate Snapshot

MARKET CAP

\$31.6M*

Share Price: \$0.15

CASH

\$10.3M

27 October 2022

TOTAL SHARES

210.6M

100.4M escrowed

TOTAL OPTIONS

84M

34.3M escrowed

BOARD AND MANAGEMENT

Shaun Scott

Non-Executive Chairman

Justyn Wood

Co-Founder & CEO

Prof Andrew Garnett

Non-Executive Director

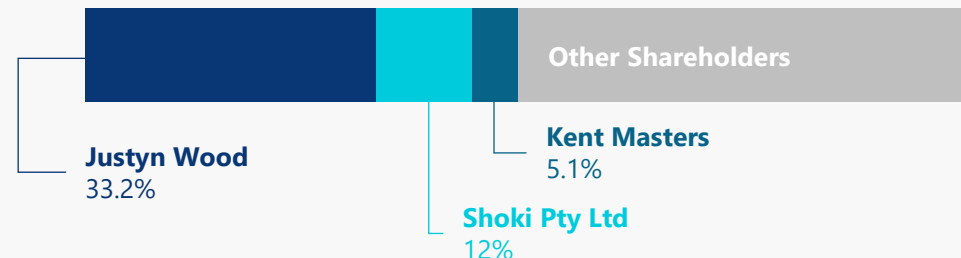
Eddie King

Non-Executive Director

Craig McNab

Company Secretary

MAJOR SHAREHOLDERS FULLY DILUTED



Noble Helium's Share Price and Volume



Un-substitutatable Critical Raw Material

MRI



SEMI-CONDUCTORS



**SPECIALIST
WELDING**



AEROSPACE



FIBRE OPTICS



Helium Dependent Technology

Global Market Size: Est US\$5billion
Enables \$Trillions in economic activity

Demand Growth

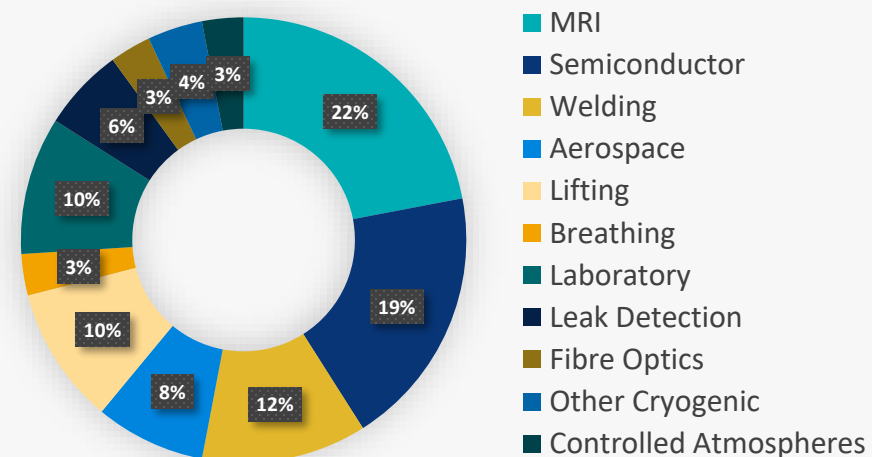
Semiconductors

- Semiconductor fabrication demand for helium is forecast to grow at **11.3% CAGR by 2026** – and may be conservative
- By 2026, electronics could account for **28% of global helium demand**.
- TSMC of Taiwan may be “the world’s most important company”, accounting for 54% of all semiconductors globally and 84% of sub-10 nano-metre chips
- TSMC is currently spending US\$19b on two new plants in Japan and Arizona to diversify production away from China

Aerospace

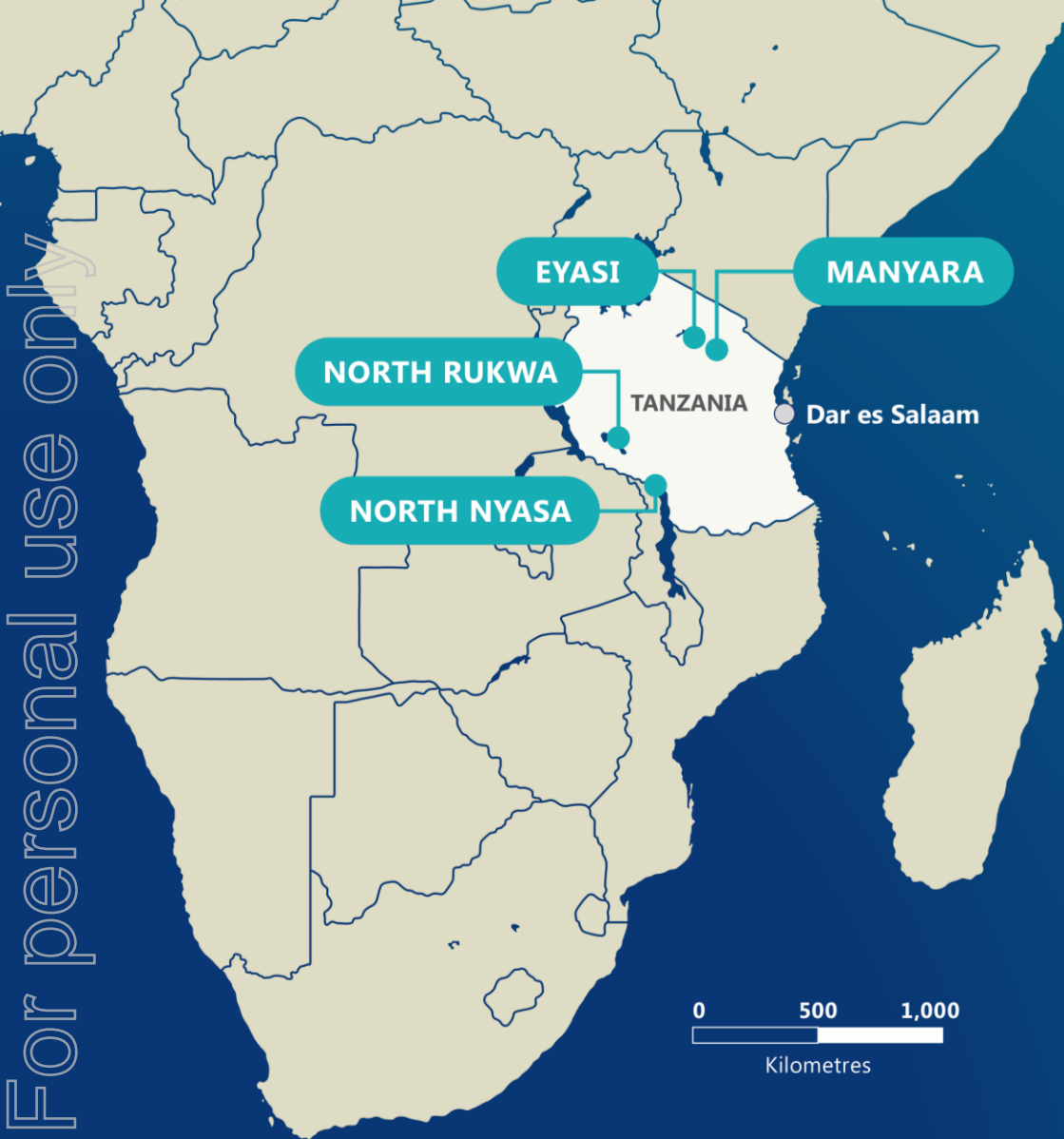
- Commercialisation of space resulting in high demand growth for helium
- SpaceX made **28 orbital launches in 2021, 33 in 2022 so far with 60 planned**.
- Anticipated **10% CAGR out to 2026**

Helium Demand by Application



Helium vs Natural Gas

- Same exploration concepts, process and technologies
- Liquid Helium sells at up to **50 times** the price of LNG
- Similar finding/production cost per Mcf but significantly less capital required to commercialise = higher margin using proven technology
- Discovering a 6 BCF recoverable helium resource is a company maker!



Why Noble Helium?

- Tanzania hosts a globally unique helium system
- Helium surface emissions at up to 18%
- Four key projects in the best acreage in the most prospective untested helium system on the planet
- Deep exploration know-how in the East African Rift System
- Rukwa Basin alone has potential for world's third largest helium reserve – and largest primary reserve
- Exclusive 5 year access to global helium geological "Atlas" by world's leading helium researchers

Operating in Tanzania

- Tanzania has long been regarded one of the most stable places in Africa to do business.
- Recent uncertainties have now been resolved
- President Samia Hassan is returning Tanzania to stability and attracting foreign investment. Two \$200m mines announced and recently the US\$30b LNG green light

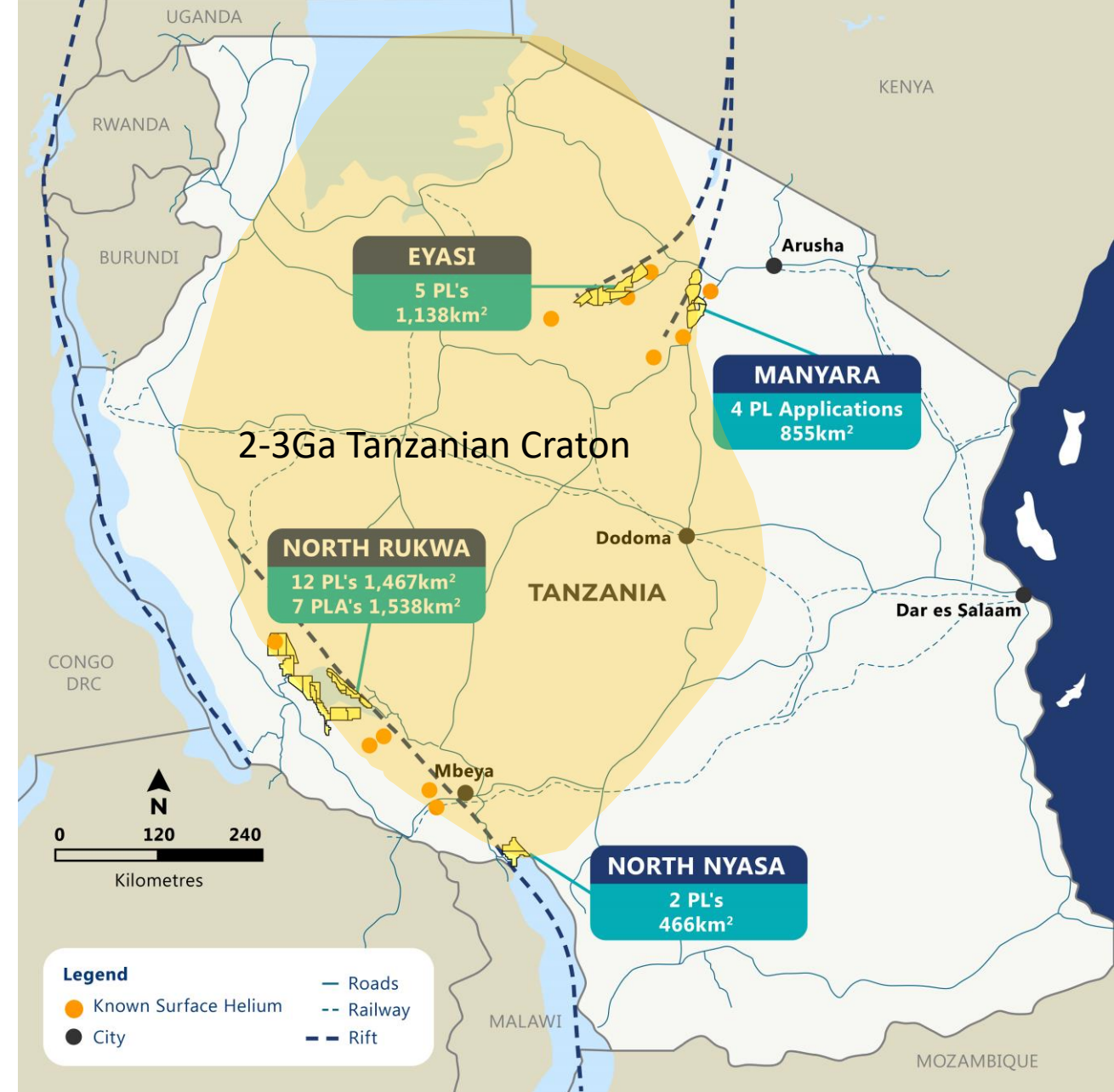
Knowledge transfer and community engagement programs

- 100% Tanzanian national FTEs incl Country Manager Joe Uisso
- 3 x Geotechnical studies with University of Dar es Salaam
- 160 locals directly employed on 3D seismic program
- Sponsored a training course on geophysical exploration techniques for Students from University of Dar es Salaam
- Stationery and sports equipment donations to each of 8 schools in our PL areas
- Upgraded Gua – Isome road providing locals with vehicle access for first time



Tanzanian Prospecting Licences

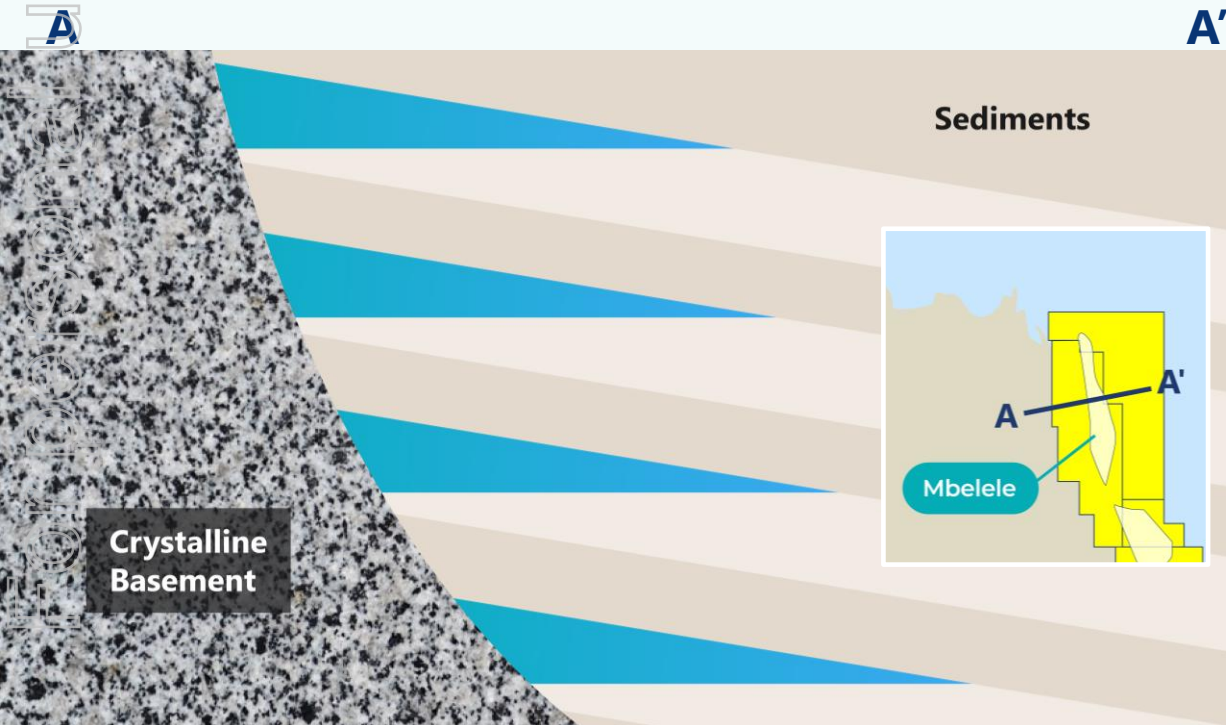
- **5,464km² of premium helium exploration acreage** in Tanzanian section of the East African Rift System (EARS) with direct access to port in Dar es Salaam
- Globally unique helium geology – EARS cutting across 2-3 billion year old Tanzanian Craton
- **North Rukwa Basin**
 - 12 PL's for 1,467km² and 7 PLA's for 1,538km²
 - Flagship project with defined prospective helium resource
- **North Nyasa**
 - 2 PL's for 466km²
 - Very similar geology to Rukwa Basin
 - Potential Prospective Resource in 2022
- **Eyasi and Manyara Basin**
 - 5 Eyasi PLs awarded July 2022 for 1,138km²
 - 4 Manyara PLs for 855km² in award process
 - Similar resource potential to Rukwa Basin



Basin Margin Fault Closure (BMFC)

100% success rate

- Same play type that opened EARS for oil & gas exploration
- Sediments sealing against crystalline basement
- Ideal clay mineralogy for seal
- 100% success to date for oil and gas in EARS basins of Uganda and Kenya (14 discoveries from 14 wells)



VS

Intra-Basinal Fault Closure

~30% success rate

- Sediments sealing against sediments for length of trap
- High fault leak risk in oil and gas globally est 30%
- Low success rate for oil and gas exploration in EARS to date (already 2 dry wells in Rukwa in 1980s)



Flagship Project North Rukwa

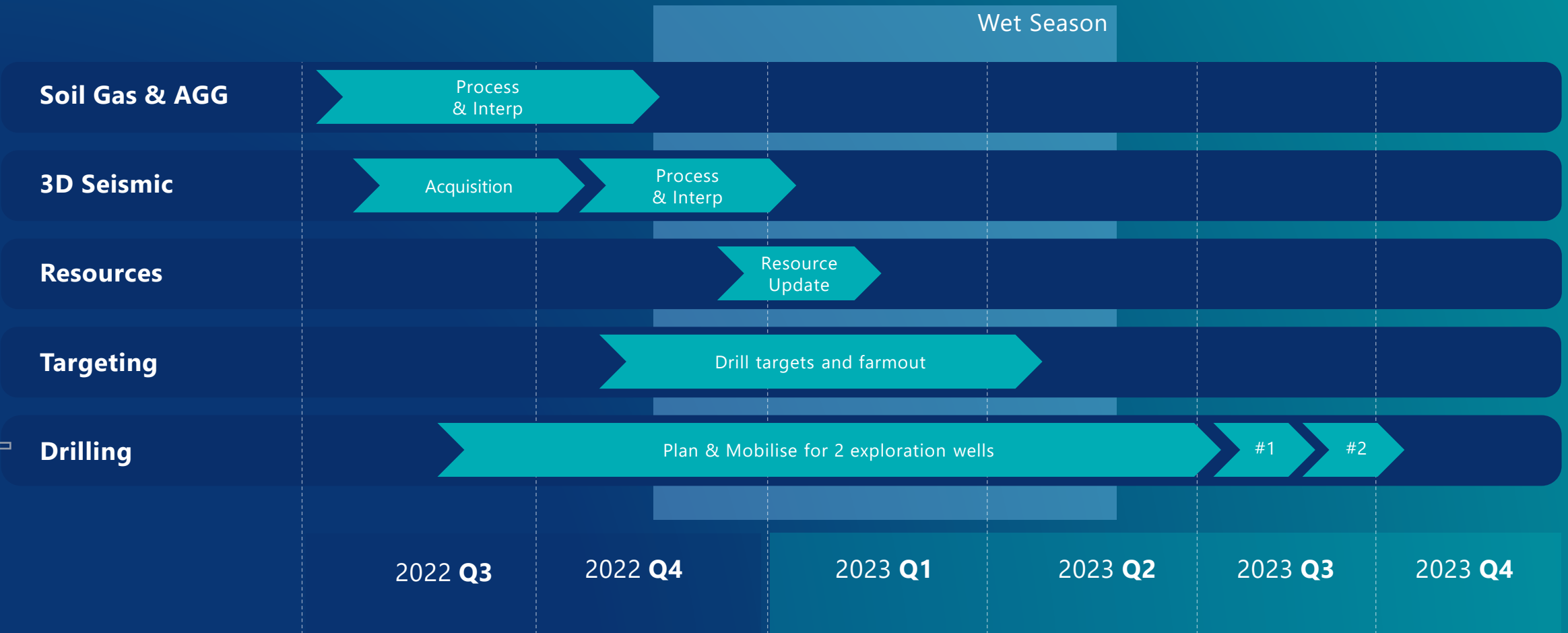
- Exploration fast-tracked by historical oil & gas success in East Africa Rift and legacy dataset of 2D seismic and wells, circa US\$50m to replace
- Netherland Sewell & Associates:
Nine leads, summed unrisked P_{mean} Prospective Helium Resource 176 Bcf
- **6 Bcf is a company maker!**
- Rukwa Basin trends northwest-southeast, 300km long by 50km wide with **helium seeps at up to 10% (commercial at 0.3%He, onshore USA)**
- **Rukwa Basin alone has the potential to be the world's third largest helium reserve, behind USA and Qatar, but as primary "green" helium**



Upcoming Exploration Activities

Potential Value Catalysts

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Exclusive Helium Atlas

Global Helium Database to Drive Asset Expansion

- Exclusive 5-year agreement with global helium experts for access to world first helium Atlas.
- Will facilitate identification of additional prospective areas to target for diversification.
- Uniquely positions Noble Helium as world's leading primary helium explorer



Dr Jon Gluyas

- Chair in Geoenergy Carbon Capture and storage Durham University, UK
- Leading authority in helium geology



Dr Chris Ballentine

- Chair of Geochemistry University of Oxford UK
- Leading authority helium geology

Why Invest in Noble Helium?



STRATEGIC COMMODITY

Helium is a noble gas with significant supply problems



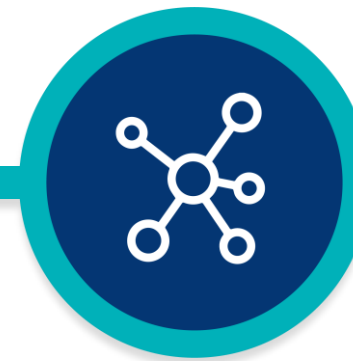
SUBSTANTIAL LANDHOLDING

5,464km² of premium green helium acreage in Tanzania



EXPERIENCED TEAM

Proven success and global network in the helium business



HELIUM ATLAS

Exclusive access to unique global helium database



Thank you.

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