



***Prominence
Energy***

ASX:PRM

Australian Natural Hydrogen Exploration

H2Meet 2025

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***Prospective Resources** – Prospective resources are those quantities of petroleum which are estimated, as of a given date, to be potentially recoverable from undiscovered accumulations by application of future development projects. These estimates have both an associated risk of discovery and a risk of development. Further exploration appraisal and evaluation is required to determine the existence of a significant quantity of moveable hydrocarbons.

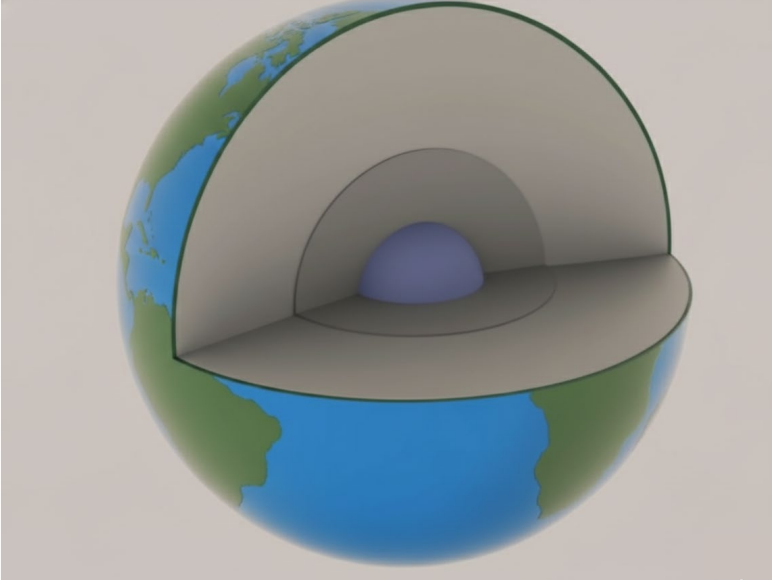
No solar or wind farms required

No water supply required

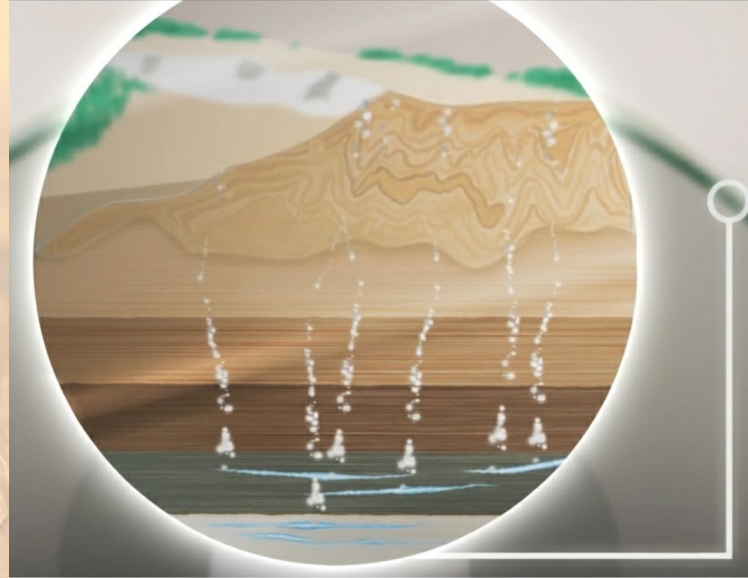
No electrolyzers



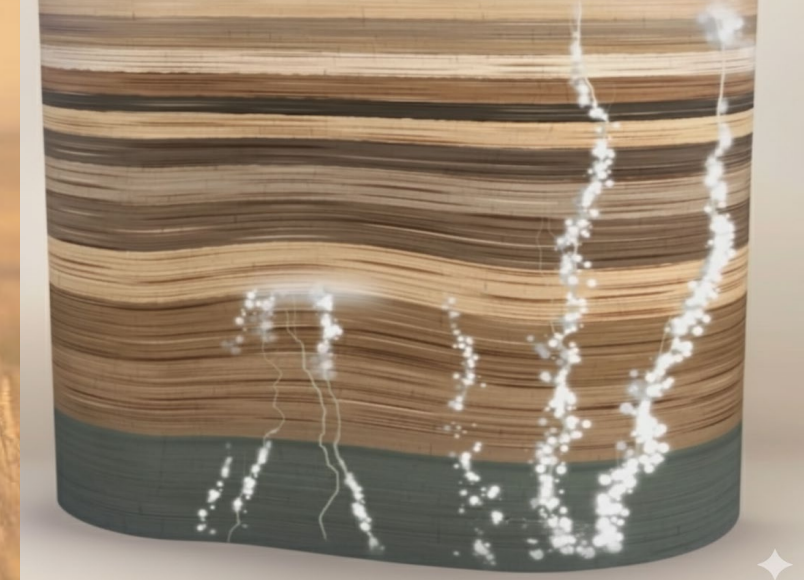
Natural Hydrogen Generation



Deep within the earth, natural reactions between rocks and groundwater produce hydrogen



Iron-rich rocks and old radioactive granites both react with water to create hydrogen

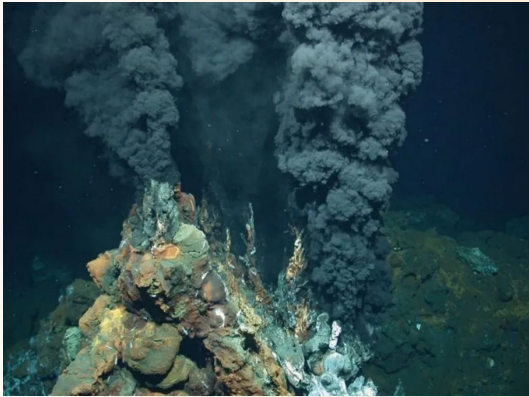


Hydrogen naturally rises toward the surface, and is trapped in porous layers

Natural Hydrogen Occurrences

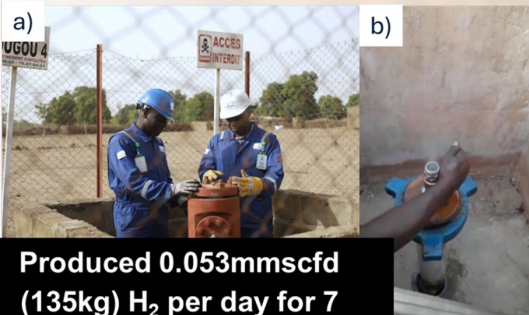
Mid Atlantic Ridge

- Black Smokers emit H_2

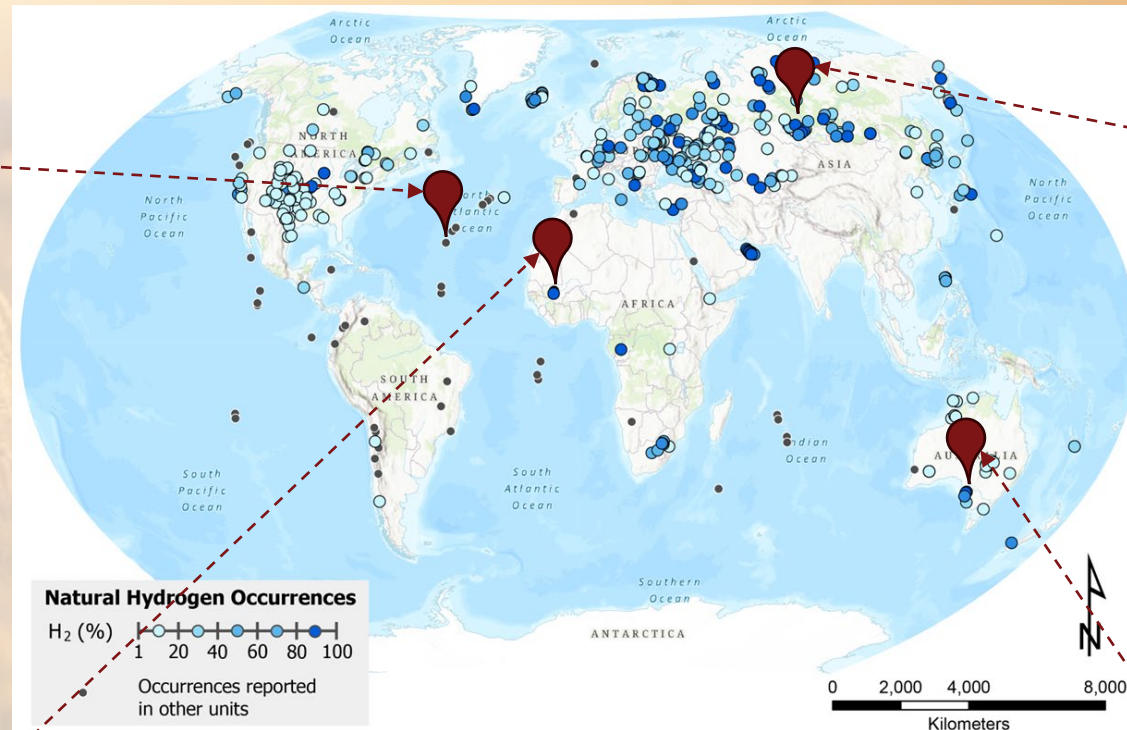


Mali

- Bourekabougou Hydrogen Field²

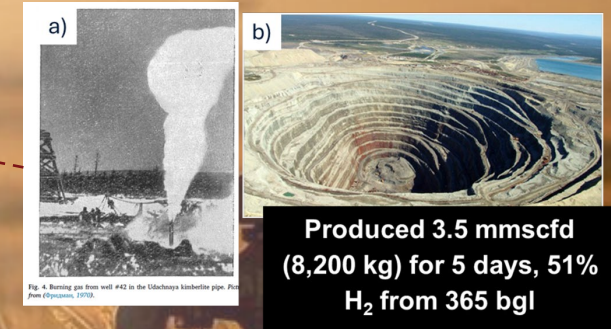


Produced 0.053mmscfd
(135kg) H_2 per day for 7
years, 98% H_2 from 112m bgl



Russia

- Udachnaya Kimberlite Pipe¹



Australia

- Gold Hydrogen Ramsay Project³



¹ Zgonnik, 2020. The occurrence and geoscience of natural hydrogen: A comprehensive Review. Earth Science Reviews 203

² Prinzhofer et al, 2018 Discovery of a large accumulation of natural hydrogen in Bourakeboucou (Mali). International Journal of Hydrogen Energy 43

³ Gold Hydrogen Press Releases. www.goldhydrogen.com.au



Prominence Energy

Gawler Natural Hydrogen Project

GAWLER HYDROGEN PROJECT (PRM 100%)

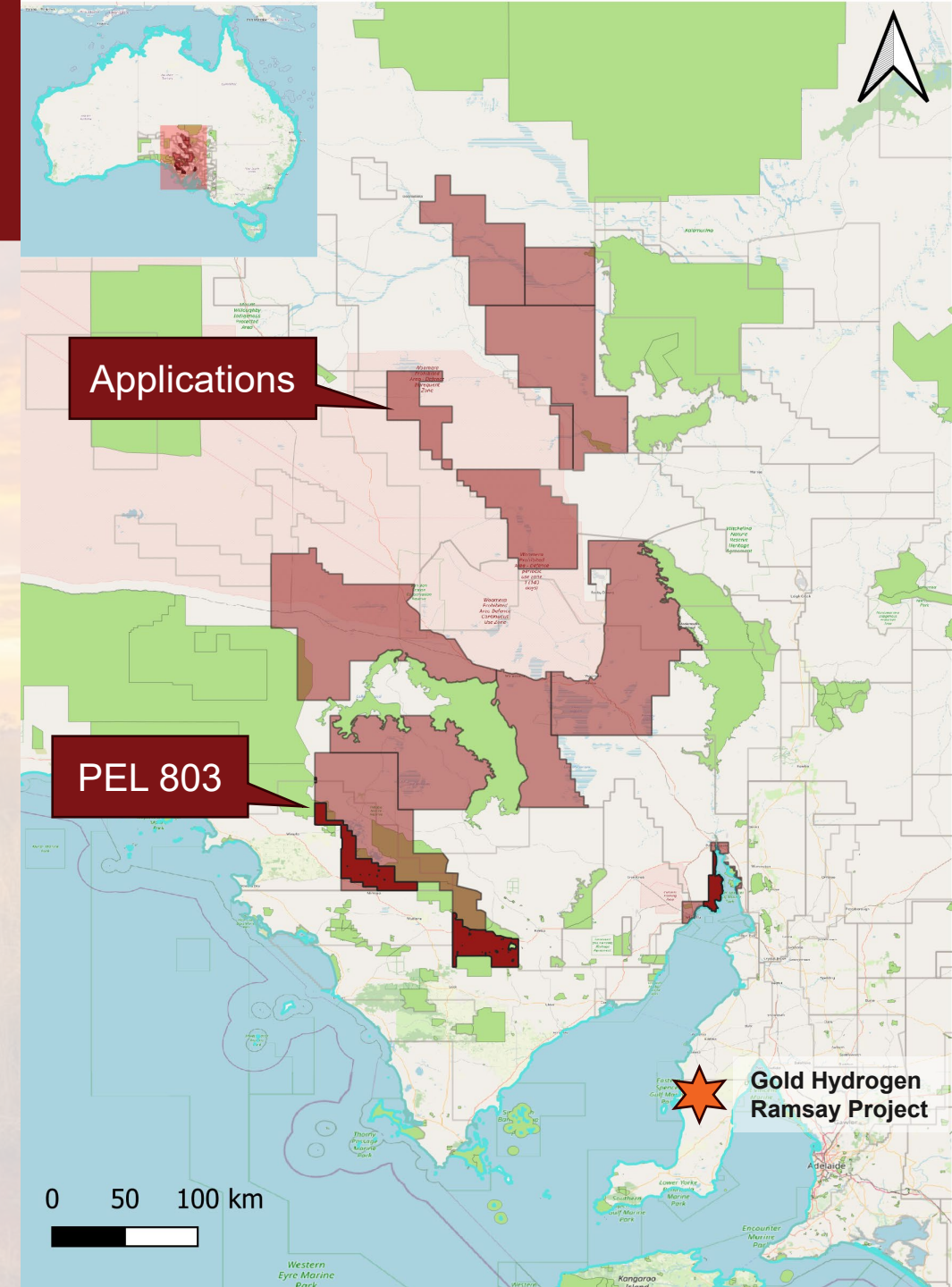
World class portfolio in proven natural hydrogen province

~64,000km² portfolio (1 PEL and 8 PELAs)

- Portfolio location onshore South Australia on the Gawler Craton
- Proven hydrogen charge systems identified – a world class exploration province
- Archean basement province also considered a potential source for Helium
- Diverse portfolio of play types with significant running room

Near term license awards across multiple project areas

- 100% WI and operatorship
- Initial focus on Eyre and Northern Hinge project areas
- Low near-term work program commitments

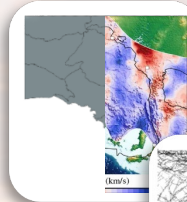


Play Based Analysis

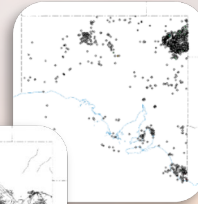
Prospectivity Modelling

- ❑ Play-based mapping is underway to assess the source, migration and accumulation potential across entire PRM acreage.
- ❑ Hierarchical hexagonal gridding was performed to combine multiple disparate datasets.
- ❑ **Prospective zones of natural hydrogen and helium generation and migration have been identified.**
- ❑ These high graded areas are the focus further exploration.

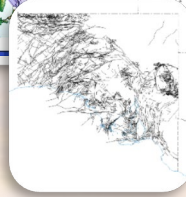
Raster



+



Points



Lines

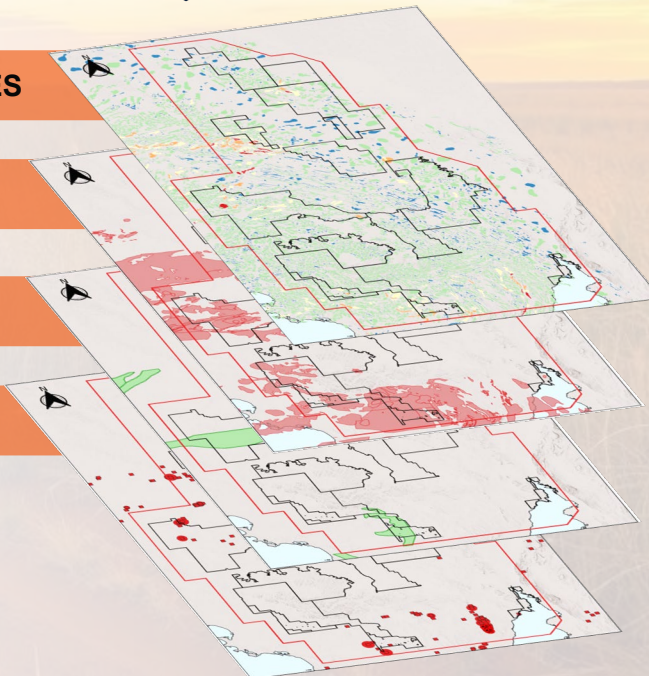


TMI ANOMALIES

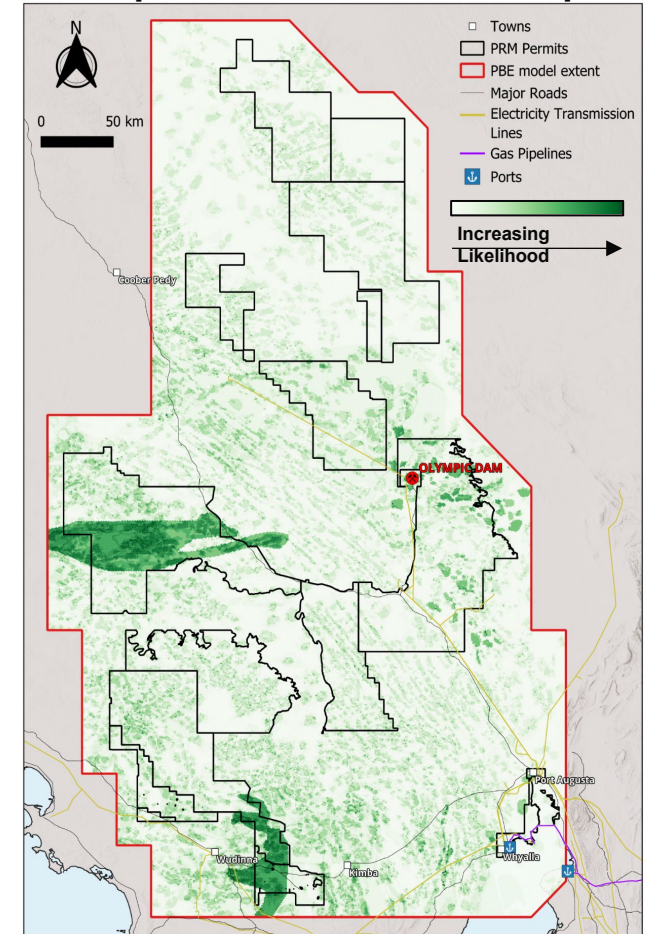
IRON RICH FORMATIONS

GREENSTONE BELTS

IRON MINES & DEPOSITS

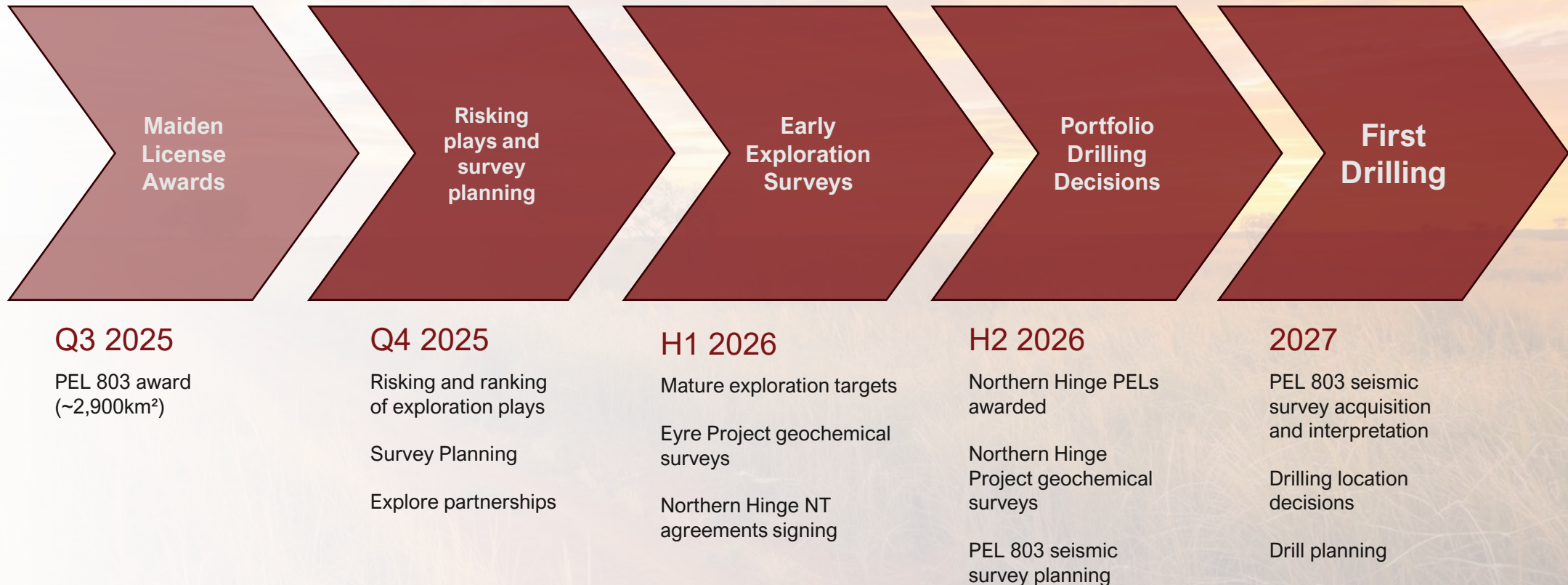


Serpentinization Source Map



Near term work plan

Gawler Hydrogen Project



Commercialization



Gas to power



Gas to pipeline

Partner Opportunities



**Joint Venture
Partner**



Strategic Investor

Our Team



Ian McCubbing

Non Executive Chair

Director & Chartered Accountant with over 30 years of Corporate Experience

Over 15 years with resource companies including Eureka Energy, Territory Resources, Swick Mining Services. He is currently a Director of Rimfire Pacific Mining Limited (ASX: RIM).



Mike Fischer, PhD

Non Executive Director (proposed)

40 years of international oil and gas upstream experience having held senior executive and director roles in both large and small cap energy companies. Currently a Non-Executive Director of OKEA ASA, Transitus Energy and Matahio Energy.



Troy Hayden

Non Executive Director

27 years experience in Oil & Gas including 12 years with Woodside. 2 ½ years based in Louisiana as VP of Woodside Gulf of Mexico portfolio. Small company experience with Tap Oil, Global Oil & Gas and Transborder Energy.



Krista Davies, PhD

Chief Operating Officer

Geoscientist with 30 years of experience in the energy sector including management and technical roles with Woodside Energy, Shell Australia and Ophir Energy Plc. Australia's first PhD in Natural Hydrogen Engineering.



Bevan Tarratt

Executive Director

Mr Bevan Tarratt is well experienced in executive and non-executive board roles with over 20 years of experience. He is currently the Executive Chair of Hartshead Resources NL (ASX.HHR) and Non-Executive Director of Viking Mines Pty Ltd (ASX.VKA) and Locksley Resources Limited (ASX: LKY).



Harvey Keon

Technical Advisor

Harvey Keon holds a Bachelor of Science in Applied Geology and Environmental Biology and First Class Honours in Earth and Planetary Science from Curtin University. He has three years experience working in Natural Hydrogen exploration.



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