



**SENSORE**

ASX: S3N

## **Melbourne Mining Club Cutting Edge Series Presentation**

Discovering more with AI-enhanced exploration

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8 March 2022

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This Presentation contains or may contain certain 'forward-looking statements' and comments about future events, including in relation to SensOre's business, plans and strategies and expected trends in the industry in which SensOre currently operates. Forward-looking statements can generally be identified by the use of words such as 'expect', 'anticipate', 'estimate', 'intend', 'believe', 'guidance', 'should', 'could', 'may', 'will', 'predict', 'plan' and other similar expressions. Indications of, and guidance or outlook regarding, future performance are also forward-looking statements. Forward-looking statements involve inherent risks, assumptions and uncertainties, both general and specific, and there is a risk that such predictions, forecasts, projections and other forward-looking statements will not be achieved. Forward looking statements are based on SensOre's good faith assumptions as to the financial, market, regulatory and other relevant environments that will exist and affect the Company's business and operations in the future. A number of important factors could cause SensOre's actual results to differ materially from the plans, objectives, expectations, estimates, targets and intentions expressed in such forward-looking statements, and many of these factors are beyond SensOre's control. Forward-looking statements may prove to be incorrect, and circumstances may change, and the contents of this Presentation may become outdated as a result. SensOre does not give any assurance that the assumptions will prove to be correct. Readers should note that any past performance is given for illustrative purposes only and should not be relied on as (and is not) an indication of the Company's views on its future financial performance or condition. Past performance of the Company cannot be relied on as an indicator of (and provides no guidance as to) future performance including future share price performance. Except as required by law or regulation, SensOre undertakes no obligation to provide any additional or updated information whether as a result of new information, future events or results or otherwise.

## Competent Person's Statement

Information in this Presentation that relates to exploration targets, exploration results and mineralisation is based on and fairly reflects information compiled by and conclusions derived by Mr Robert Rowe, who is a member of The Australasian Institute of Mining and Metallurgy (AusIMM) and a Registered Professional Geoscientist (RPG) in the field of Mineral Exploration with the Australian Institute of Geoscientists (AIG). Mr Rowe is a full-time employee and Chief Operating Officer of SensOre. Mr Rowe has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code). Mr Rowe consents to the inclusion in this Presentation of the matters based on his information in the form and context in which it appears.

## Authorisation

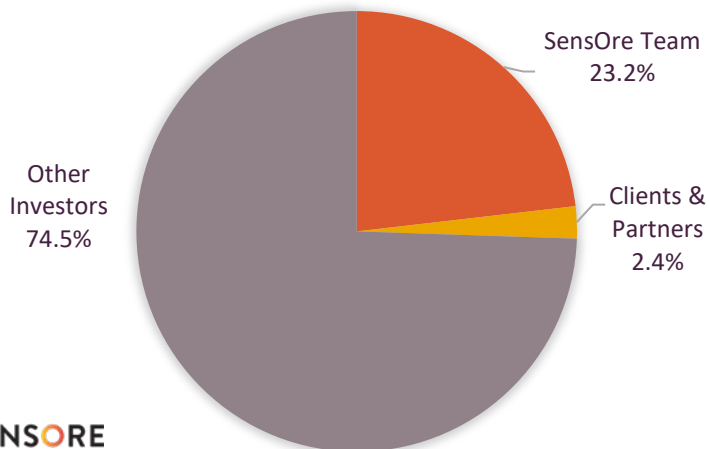
This Presentation has been authorised for release by the SensOre Board.

# Capital structure

## Corporate Snapshot – as at 4 March 2022

Shares on issue	64,780,323
Market capitalisation <sup>1</sup>	\$50.52 million
Cash and cash equivalents <sup>2</sup>	~\$7.5 million
Debt	Nil

## Shareholding structure



Top 10 Registered Holders	No. of Shares	% Held
Sasak Minerals Pty Ltd	10,118,000	15.62
Wanganui Pty Ltd	6,249,905	9.65
Oppenheimer S/F Pty Ltd	5,645,754	8.72
Stone Axe Pty Ltd	4,112,667	6.35
Parcan Pty Ltd	2,667,558	4.12
Silver Whiting Pty Ltd	2,391,734	3.69
CJ & M Gregory	2,253,200	3.48
Lograr Investments Pty Ltd	2,053,200	3.17
Jozem Pty Ltd	2,025,316	3.13
El Gaia Holdings Pty Ltd	2,000,000	3.09
<b>Top 20 as at 4 March 2022</b>	<b>48,798,424</b>	<b>75.33</b>

1. Based on 4 March 2022 closing price of \$0.78.

2. As at 28 February 2022.

# Advancing exploration success with our team of innovators



**Robert Peck AM**

Non-Executive Chairman  
*Founder Peckvonhartel Architects*



**Anthony O'Sullivan**

Non-Executive Director  
*CDO The Metals Company*



**Nic Limb**

Non-Executive Director  
*Former Chairman MDL & FAR*



**Adrian Manger**

Non-Executive Director  
*Chairman Pampa Metals*



**Richard Taylor**

CEO  
*Senior mining executive*



**Robbie Rowe**

COO  
*Former VP Exploration Barrick*



**Greg Bell**

CFO  
*CFO of ASX mining companies*



**Michaela Evans**

GM Corporate Affairs & CoSec  
*Senior mining executive*



**Alf Eggo**

CTO  
*Former Rio Tinto Research*



**Tom Whiting**

Adviser – Geophysics  
*Former Chief Geophysicist BHP*



**Chris Gregory**

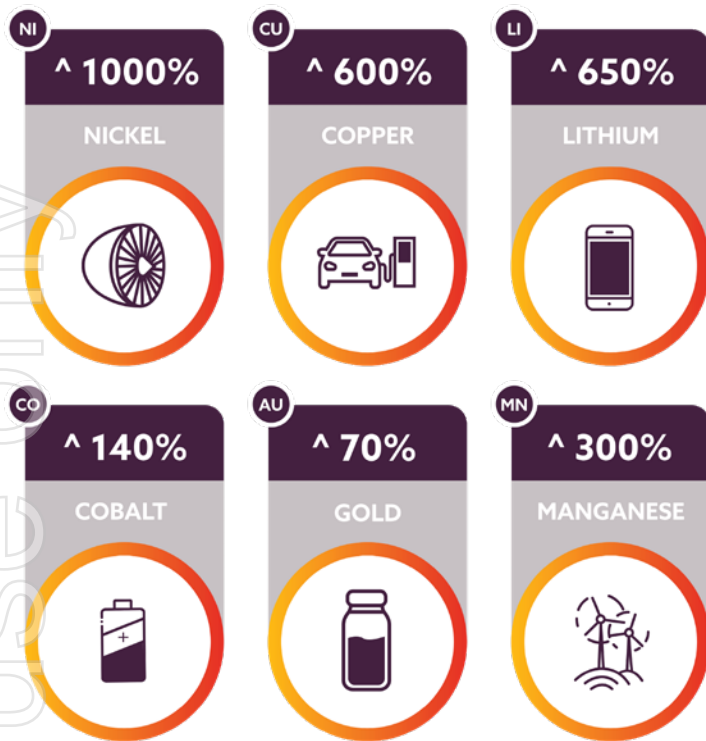
Adviser – Exploration  
*Former CRA/Rio Tinto Exploration*



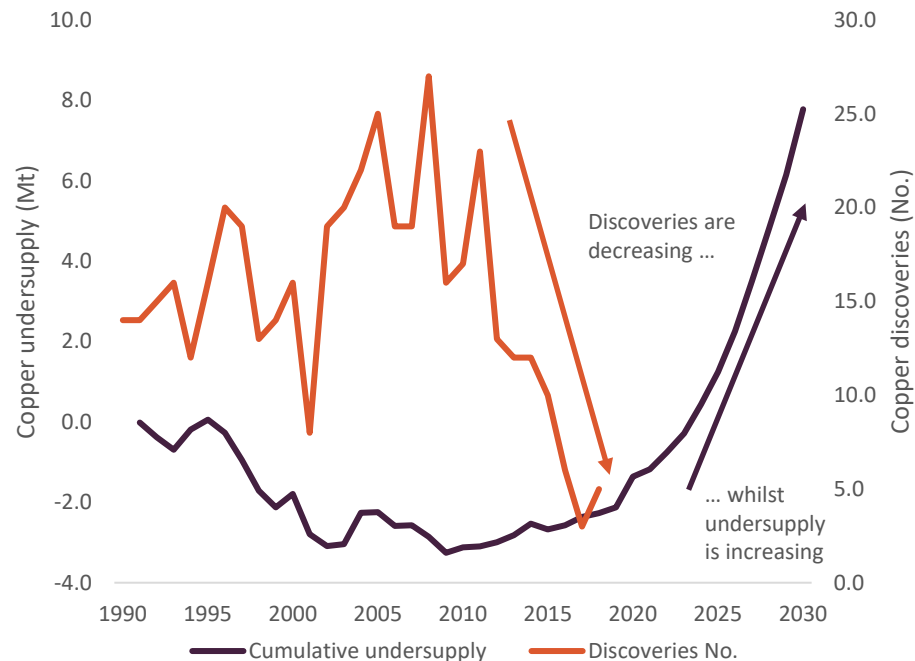
**Mike Oppenheimer**

Adviser – Strategy  
*Former President BHP Coal*

# Current exploration cannot keep up with tech metal demand to 2030



Copper discoveries v supply demand balance

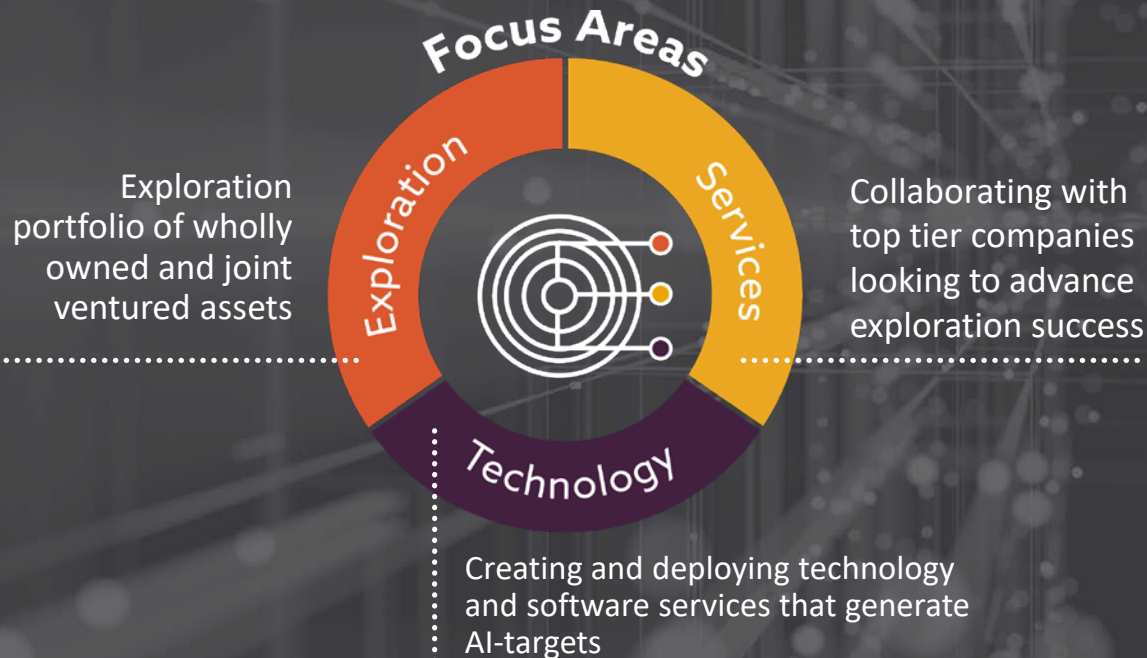


Sources: BloombergNEF Projected demand increases for Lithium-ion metals from 2020-2030; Department of Industry, Science, Energy and Resources, Commonwealth of Australia (2021) Resources and Energy Quarterly March 2021.

Sources: Department of Industry, Science, Energy and Resources, Commonwealth of Australia (2021) Resources and Energy Quarterly June 2021 11(2); Fitch Solutions Group Ltd (29 June 2021) Global Copper Overview: Solid Fundamentals Ahead; and S&P Global Market Intelligence.

## SensOre: Mintech focused on exposure to discovery & revenue

SensOre combines  
**proprietary technology,  
big data and technical  
excellence to advance  
exploration success**



# The solution is using AI to find the fingerprint of new deposits in big data

## Geochemistry

Surface

Drilling

## Geophysics

Gravity

Magnetics

AEM, Seismic, MT

## Geology

Text Data Mining

Map Data Ingestion



# The Data Cube solution to organising geoscience data

## SensOre multidimensional 'data cube'

+24 billion data points (data + derivatives) in +2,400 layers used for deposit data layer correlations and prediction

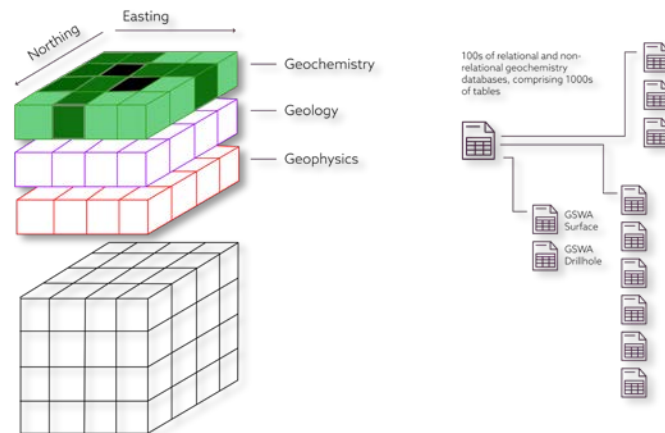
+10 year development, huge investment in data curation and cleaning

Seamless expansion using public, research and proprietary data

Inclusion of imputed 'infill' data using feature engineering.  
Application of optimum transformation techniques

Vast Western Australia industry legacy data acquired, extracted, cleaned and integrated

- +8.5 million surface samples
- +280 million drill hole samples



The Data Cube is a grid of 400x400m samples with a multidimensional feature vector for each cell

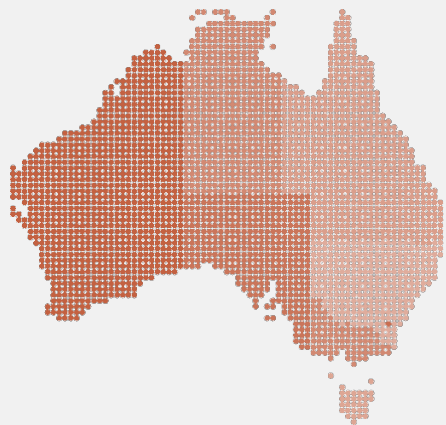


# SensOre product suite

## PREDICT



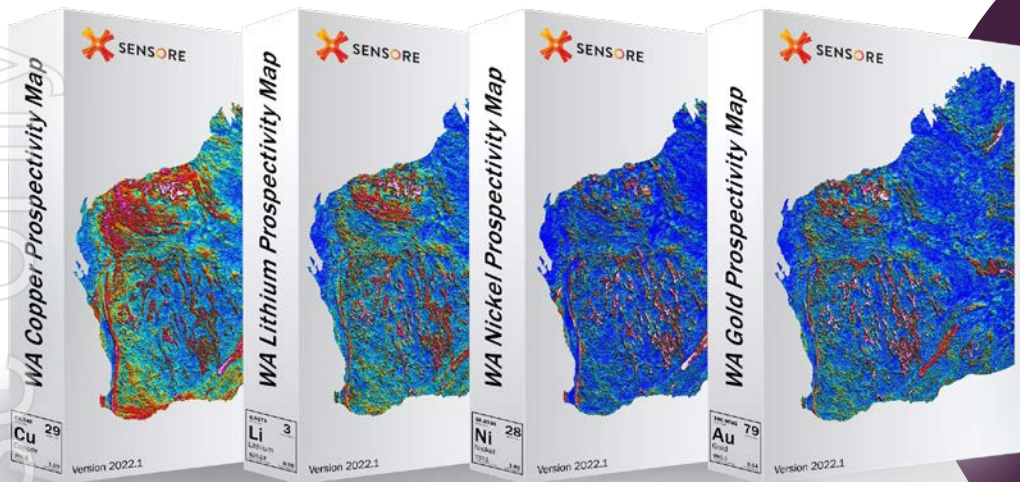
## KNOW



## LEARN



## New release of expanded prospectivity mapping products



Western Australia-wide  
prospectivity products  
completed

Gold, Nickel, Copper, Lithium  
commodities released

Incorporating:

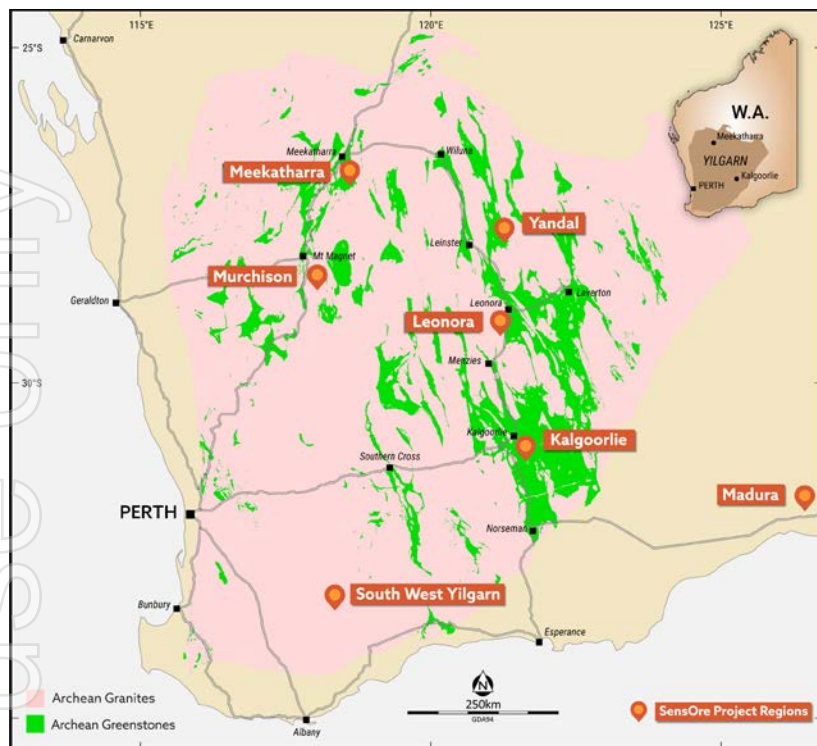
- New 2021 geophysics
- New 2020 release geology

# Multiple battery minerals opportunities generated



- SensOre technology has identified high potential nickel and battery minerals targets in WA
- Four targets acquired by SensOre
- Global training dataset used to inform machine learning system
- Thousands of layers of data informing decision-making
- High value targets needed to fill exploration pipeline for battery minerals
- Moving quickly to generate value from SensOre's proprietary data sets

# SensOre exploration assets

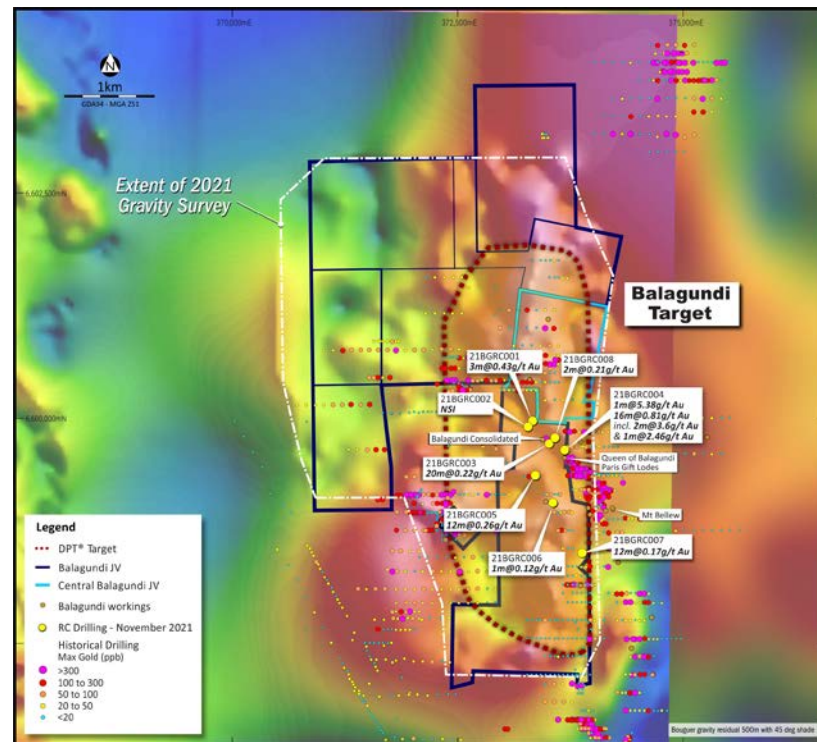


- \$6.1m invested in wholly-owned and joint ventured exploration assets<sup>1</sup>
- ~2,500km<sup>2</sup> of tenements in prospective areas
- 15 targets being developed
- Two significant gold endowed mineral systems
  - Mt Magnet North (Murchison Region)
  - Balagundi (Kalgoorlie Region)
- Three advanced exploration projects
  - North Darlot (Yandal Region)
  - Desdemona North (Leonora Region)
  - Tea Well (Meekatharra Region)
- Pipeline of new prospects
  - Boodanoo (Murchison Region)
  - Maynards Dam (Kalgoorlie Region)
  - Moonera (Madura Region)
  - Auralia (Madura Region)

1. As at 28 February 2021, SensOre subsidiary Yilgarn Exploration Ventures Pty Ltd (YEV) holds a number of exploration assets in joint venture with DGO Gold Limited (60% SensOre, 40% DGO). See DGO ASX release dated 16 July 2020 titled *DGO Gold acquires interest in 9 Tier 1 Yilgarn targets identified by AI/machine learning*. YEV is earning its interests in certain of its exploration assets via farm-in agreements. Other wholly owned SensOre subsidiaries hold exploration assets directly and via farm-in. Certain of the SensOre Group's exploration assets are licence applications. Refer to the Independent Technical Assessment Report (ITAR) (Appendix A to the Prospectus released by ASX on 9 February 2022) for additional information on the Company's projects.

# Balagundi JV

- First pass RC drilling program completed November 2021 identifies gold anomalism in central target<sup>1</sup>
- Best results 34m @ 0.54g/t Au from 96m, including:
  - 1m @ 5.4g/t Au from 96m
  - 2m @ 3.6g/t Au from 114m in a zone of 16m @ 0.8g/t Au from 114m
  - 1m @ 2.5g/t Au from 127m (reported in the 16m @ 0.8g/t Au above)
- Elevated multielement pathfinder elements within the mineralised corridors, indicative of a larger mineralised system nearby
- Drill rigs secured for follow-up drilling commencing in Q2 CY22
- Located in the gold-rich Norseman-Wiluna belt of the Yilgarn Block WA, east of Kalgoorlie and 73Moz KCGM Super Pit and 20km southeast of 7.8Moz Kanowna Belle mine<sup>2</sup>
- Farm-in May 2021<sup>3</sup>



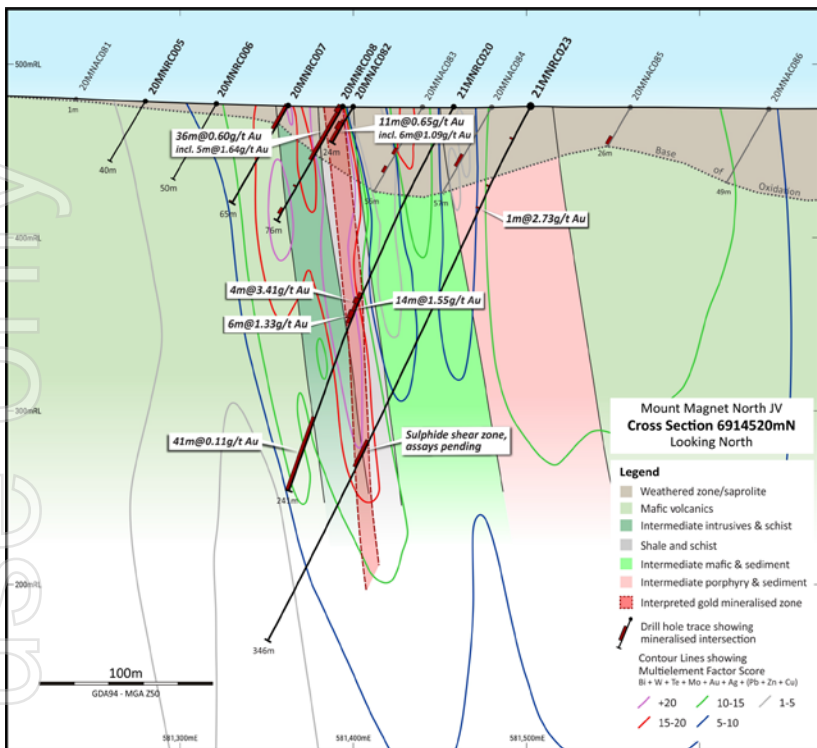
1. See S3N ASX announcement released 14 February 2022. SensOre confirms that it is not aware of any new information or data that materially affects the information included in the 14 February 2022 release and that all material assumptions and technical parameters underpinning the exploration results in the release continue to apply and have not materially changed. Refer to the ITAR (Appendix A to the Prospectus) for historical drilling summaries (ITAR Appendix E) and JORC Tables (ITAR Appendix M).

2. Northern Star Resources (ASX: NST) ASX announcement 17 December 2019.

3. YEV has the potential to earn up to 80% interest by expending \$4 million over four years on the larger farm-in and \$1.5 million over four years on the smaller farm-in, as well as contributing annual access payments on both.



# Mt Magnet North JV<sup>1</sup>



Mt Magnet North project geology and drilling

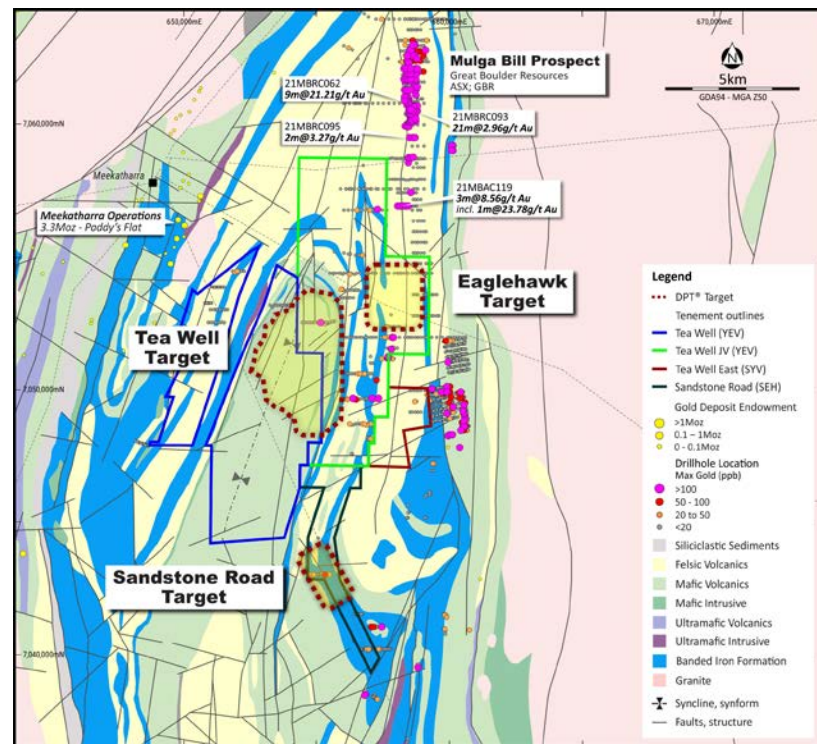
- First major AI-led discovery using SensOre's DPT<sup>®</sup> technology
- Gold mineralised corridor over 2.5km and +0.5g/t Au outlined over 1.2km of strike<sup>2</sup>
- Strong correlation of intrusive related signature in multielement values, specifically bismuth, tungsten, tellurium and molybdenum with gold
- Recently completed diamond drilling:
  - confirms structural continuity of sulphide bearing shear zone at depth below mineralisation in 2020/21 air core and RC drilling
  - 10m wide sulphide bearing shear zone hosted in altered sediment, basalt and intermediate intrusive sequence commencing at 200m (downhole)
  - gold and multielement assay results anticipated in April

1. YEV is earning an 85% interest in Mt Magnet North JV through expenditure of \$2.5 million over three years.

2. Refer to the ITAR (Appendix A to the Prospectus) for drilling summaries (ITAR Appendix A) and JORC Tables (ITAR Appendix H) and S3N announcement dated 17 February 2022 titled *Drilling targeting Mt Magnet North gold corridor commences*. SensOre confirms that it is not aware of any new information or data that materially affects the information included in the ITAR and that all material assumptions and technical parameters underpinning the exploration results continue to apply and have not materially changed.

# Greater Tea Well<sup>1</sup> – Eaglehawk prospect

- Results at Mulga Bill (ASX: GBR)<sup>2</sup> confirm potential of eastern Tea Well target – Eaglehawk
- Eaglehawk lies directly south of Mulga Bill and borders Great Boulder Resources' tenements
- Collaborative gravity survey with GBR completed late 2021
  - identified gravity low features within north-south trend, along strike from Mulga Bill, for drill testing
- Follow-up work underway to assess the effectiveness of historical drilling
- Air core program anticipated to commence in Q2 CY22



Greater Tea Well geology

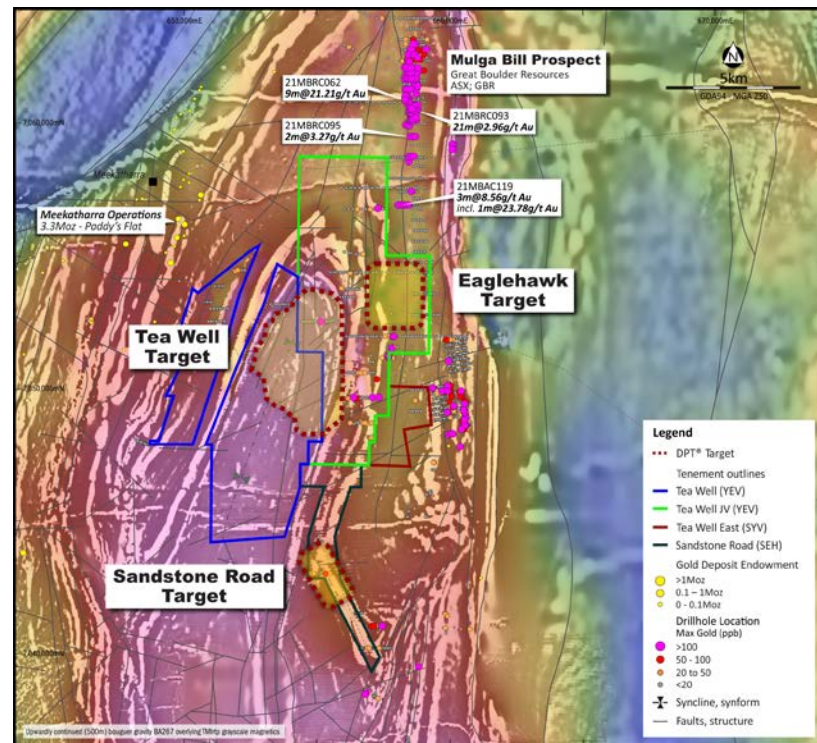
1. Greater Tea Well includes: Tea Well JV project tenements (6 tenements) held by a private prospector in which YEV may earn up to an 85% interest by expending \$2.5 million on exploration over three years; Tea Well project tenements (21 tenements) held by YEV; and Tea Well East project tenements (3 tenement applications held by a subsidiary of SensOre). Proximate to Greater Tea Well is the Sandstone Road project. SensOre acquired an interest in the Sandstone Road project via farm-in with a private prospector (SensOre earning 85% by expending \$2.5 million on exploration over three years).

2. See GBR ASX announcement titled *Bonanza gold in first assays from Mulga Bill phase 5 drilling* released to ASX 31 January 2022 for further information and Mulga Bill results shown in the Greater Tea Well map.



# Greater Tea Well<sup>1</sup> – Eaglehawk prospect

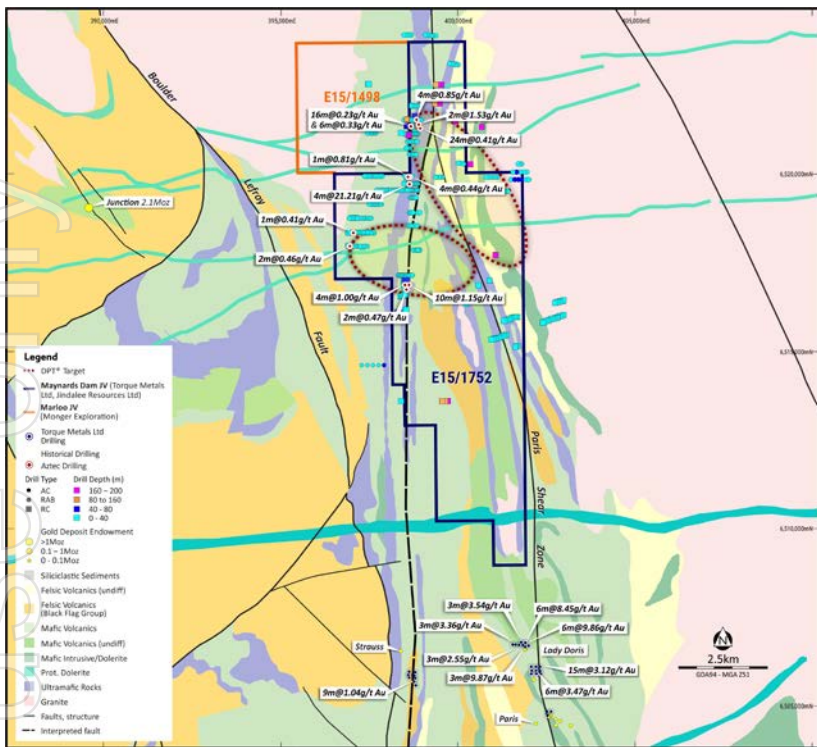
- Results at Mulga Bill (ASX: GBR)<sup>2</sup> confirm potential of eastern Tea Well target – Eaglehawk
- Eaglehawk lies directly south of Mulga Bill and borders Great Boulder Resources' tenements
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- Air core program anticipated to commence in Q2 CY22



Greater Tea Well combined geophysics, gravity bouguer residual 2km (colour) over TMIRTP 1vd (black and white)

1. Greater Tea Well includes: Tea Well JV project tenements (6 tenements) held by a private prospector in which YEV may earn up to an 85% interest by expending \$2.5 million on exploration over three years; Tea Well project tenements (21 tenements) held by YEV; and Tea Well East project tenements (3 tenement applications held by a subsidiary of SensOre). Proximate to Greater Tea Well is the Sandstone Road project. SensOre acquired an interest in the Sandstone Road project via farm-in with a private prospector (SensOre earning 85% by expending \$2.5 million on exploration over three years).
2. See GBR ASX announcement titled *Bonanza gold in first assays from Mulga Bill phase 5 drilling* released to ASX 31 January 2022 for further information and Mulga Bill results shown in the Greater Tea Well map.

# Maynards Dam JV



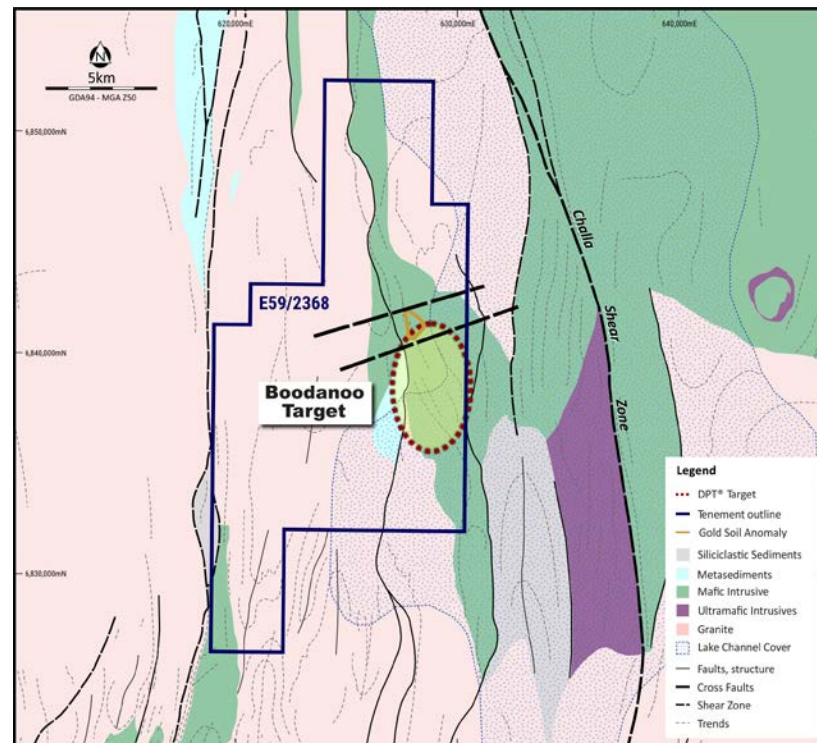
Maynards Dam interpreted geology and historical drilling

- Significant intercepts reported by Torque Metals Limited (ASX: TOR)<sup>1</sup> in close proximity to project area southern boundary
- Located near St Ives mining complex
- Joint venture with Torque Metals & Jindalee Resources<sup>2</sup>
- Significant historical drilling results<sup>3</sup>
- Two DPT targets – one open pit and one underground
- First pass drilling program planned Q2-Q3 CY22
- Recent farm-in E15/1498 with Lefroy Exploration (ASX: LEX) subsidiary, expanding footprint<sup>4</sup>
- Extended area seeks to increase tenure over Parker Domain and capitalise on north-south trend in emerging corridor

1. See TOR ASX announcement titled *New gold discovery at Paris Project* released to ASX 27 January 2022 for further information and Caruso prospect results shown in slide map.
2. Maynards Dam: SensOre has the potential to earn up to a 70% interest (51% by expending \$3 million within three years and 19% by delivering a preliminary feasibility study (PFS)) in the Maynards Dam project. TOR has a one-time option, open for 60 days from completion of the PFS, to reduce the transfer of interest from 19% to 9% by paying SensOre \$0.5 million. TOR has the right to acquire 80% of the beneficial interest in Maynards Dam from Jindalee Resources Ltd.
3. Refer to the ITR (Appendix A to the Prospectus) for historical drilling summaries (ITAR Appendix F) and JORC Tables (ITAR Appendix M).
4. Marlo: SensOre has the potential to earn up to a 70% interest by expending \$800,000 over four years. As at the date of this presentation the agreement is subject to satisfaction of conditions precedent.

# Boodanoo

- 100% SensOre Group project
- Drilling program commencing mid-March
- Early stage, highly ranked AI-target located on a major structure in an area previously unrecognised for its gold potential
- Gravity geophysics completed by SensOre in 2020 confirmed major and second order structures coincident with the AI-target
- Soil geochemistry completed by SensOre in 2020/21 located 2km long gold and broader multielement (silver, bismuth, tellurium) geochemical anomaly at north end of AI-target
- Heritage survey completed and ministerial consent to conduct early exploration drilling granted



Boodanoo interpreted geology, AI-target and gold-in-soil anomaly



**SensOre aims to become the top performing minerals targeting company in the world through deployment of AI technologies**

**Disrupting conventional exploration**

**Highly experienced technology development & exploration team**

**Building battery & critical minerals portfolio**

**Active exploration on wholly-owned & joint venture targets**

**Strategic partnerships Unico, BHP and DGO**

**Developing SaaS platform to expand client services potential**

**Expanding service offering to South Australia & Eastern Australia**

**International growth North America and Scandinavia 2022+**

**Listed ASX 11 February 2022**





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