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#### **Regulatory Information**

The Company does not suggest that economic mineralisation is contained in the untested areas, the information contained relating to historical drilling records have been compiled, reviewed and verified as best as the Company was able. As outlined in this presentation the Company is planning further drilling programs to understand the geology, structure and potential of the untested areas. The Company cautions investors against using this announcement solely as a basis for investment decisions without regard for this disclaimer.

#### **Competent Person Statement**

The information in this presentation that relates to Exploration Results is based on information compiled by Dr Ana Liza Cuison, MAIG, MSEG. Dr Cuison is a Member of the Australian Institute of Geoscientists and has sufficient experience which is relevant to the style of mineralisation and types of deposits under consideration and to the activity which she is undertaking 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. Dr Cuison is a full-time employee of the Company and consents to the inclusion in this report of the matters based on her information in the form and context in which it appears.

The information in this presentation that relates to Mineral Resource estimate and classification for the Chariot Gold deposit and Mauretania Gold deposit is based on information compiled by Justine Tracey. Justine Tracey is an employee of Optiro Pty Ltd, and a Member of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Justine Tracey has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and the activity she is undertaking 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 ('the JORC Code')". Justine Tracey consents to the inclusion in the report of the matters based on the information in the form and context in which it appears.

Information in this report that relates to Exploration Results has been extracted from the following Company ASX announcements:

- ASX: 8 December 2021 Stunning 117m at 338% copper drill hit at the Hermitage Project in Tennant Creek ends in mineralisation
- ASX: 28 March 2022 Follow up drilling of 116m at 3.4% copper and 0.88a/t gold at Tennant Creek set to commence
- ASX: 17 August 2022 Further high-grade copper-gold and cobalt-bismuth intersected at Hermitage
- ASX: 17 November 2022 High Grade Gold and Bismuth at Golden Forty Project in Tennant Creek
- ASX: 12 December 2022 Bonanza Gold from an emerging new ore zone at Tennant Creek
- ASX: 21 March 2023 Further High-Grade Precious and Base metal mineralisation at Tennant Creek

The Company confirms that it is not aware of any new information or data that materially affects the information that relates to Exploration Results included in previous market announcements. The Company confirms that the form and context in which the Competent Person's findings area presented have not been materially modified from the original market announcements.

Information in this report that relates to the Mineral Resource has been extracted from the following Company ASX announcements:

ASX: 22 December 2021 – Chariot high grade gold resource increased by 40%

The Company confirms that it is not aware of any new information or data that materially affects the information included in previous market announcements and, in the case of estimates of Mineral Resources that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings area presented have not been materially modified from the original market announcements.

The above announcements are available to view on the Company's website at www.emmersonresources.com.au

Authorised for release by the Managing Director, Mr Rob Bills.

## **Building Stakeholder Support: Bringing the Community on the Journey**

- Emmerson Resources acknowledge and pay our respects to the Traditional Custodians of the lands in which we explore - the Warumungu people
- We are very saddened by the recent loss of RP, the highly respected leader and elder of the Warramungu people
- RP had a big vision for his people direct equity participation in ERM projects, and sharing the many benefits of employment and training
- Emmerson continues to be a respected partner and has an unblemished 14-year track record of working with the Traditional Custodians. We are also the founding sponsor of Clontarf Tennant Creek where we provide training, employment opportunities and funding



This talk is dedicated to RP – with permission from his family, Rhonda and Marlene.



# ALL THE METALS WE MINED IN 2021

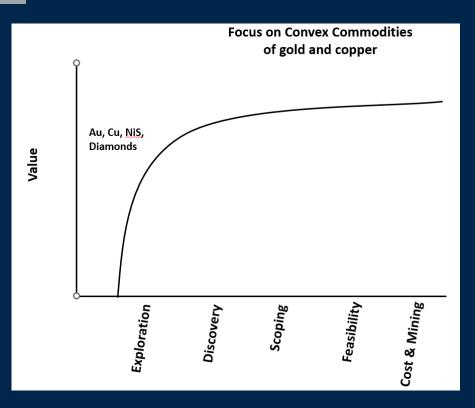
The world produced roughly **2.8 billion tonnes** of metals in 2021. Here are all the metals we mined, visualized on the same scale.

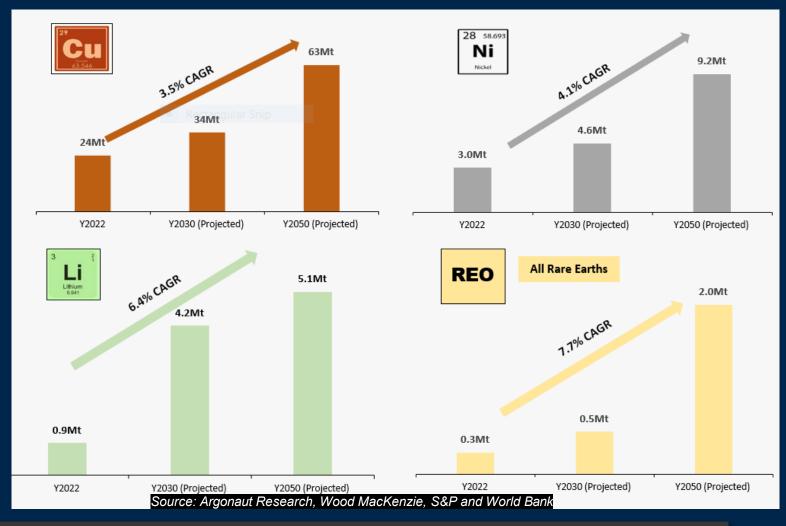


The Context for a Green Future: Multi Metal IOCG deposits - red and gold metals plus by-product silver, iron, cobalt & bismuth

### No electrification without commodities....but which ones?

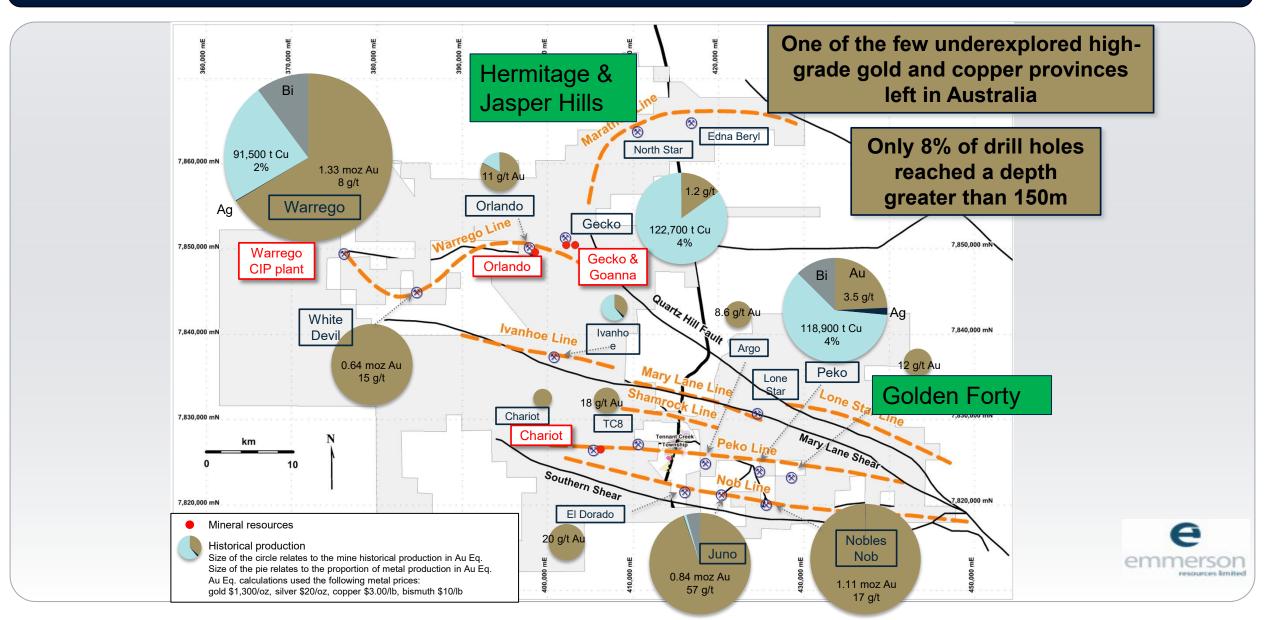






Convex commodities: accrue value early (Au, Cu, NiS, Mn, PGEs) = strategic long time-frame business! Concave commodities: accrue value later at mining/processing/sales (Ni laterite, bulk commodities, REE, Li, graphite)

### The Challenge and the Opportunity of the Tennant Creek Mineral Field



## The Challenge and Opportunity.....deploying the right tools at the right scale

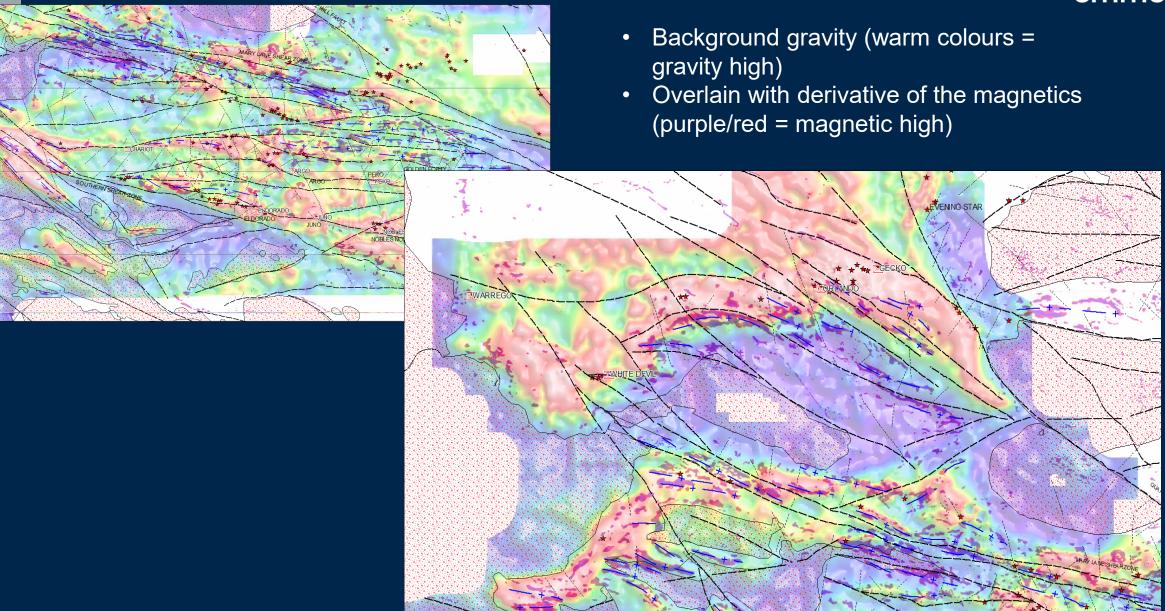
DEPOSIT		PLAN	CROSS SECTION	LONG SECTION
Warreg 6.9 Mt	O 1.46m oz Au 172 500 t Cu	<b>200</b> m	<u>200m</u>	200m
Nobles Nob				
2.14 Mt	1.14m oz Au		,	
Gecko Au	257 000 oz 320 000 t Cu			
White Devil 1.7 Mt 734 000 oz Au				171
Juno 0.46 Mt	864 000 oz Au	<b>*</b> ~	A	•
Argo 0.3 Mt	135 000 oz Au	-	•	•

- Tennant Creek Mineral Field... one of the highest-grade gold and copper fields in Australia
- Typically, tabular/pipelike bodies with a small cross-sectional area...but exceptionally high value deposits
- Our recent discoveries at Hermitage and Golden Forty on scale and still open

Emmerson have pioneered the exploration approach and tools to discover more of these high value, small footprint deposits

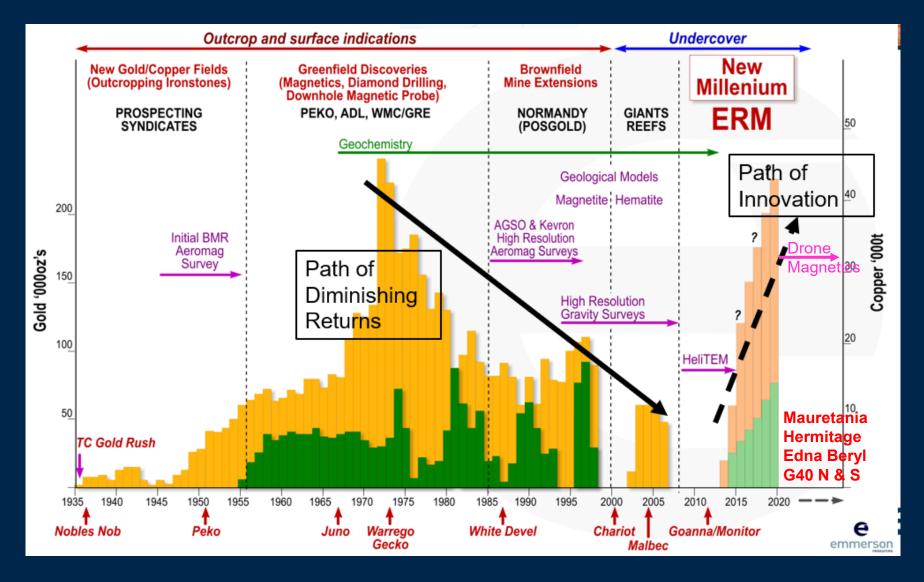
### A complex fold and thrust belt with multiple deformation and intrusion!





## Old tools and techniques - have a used by date!!

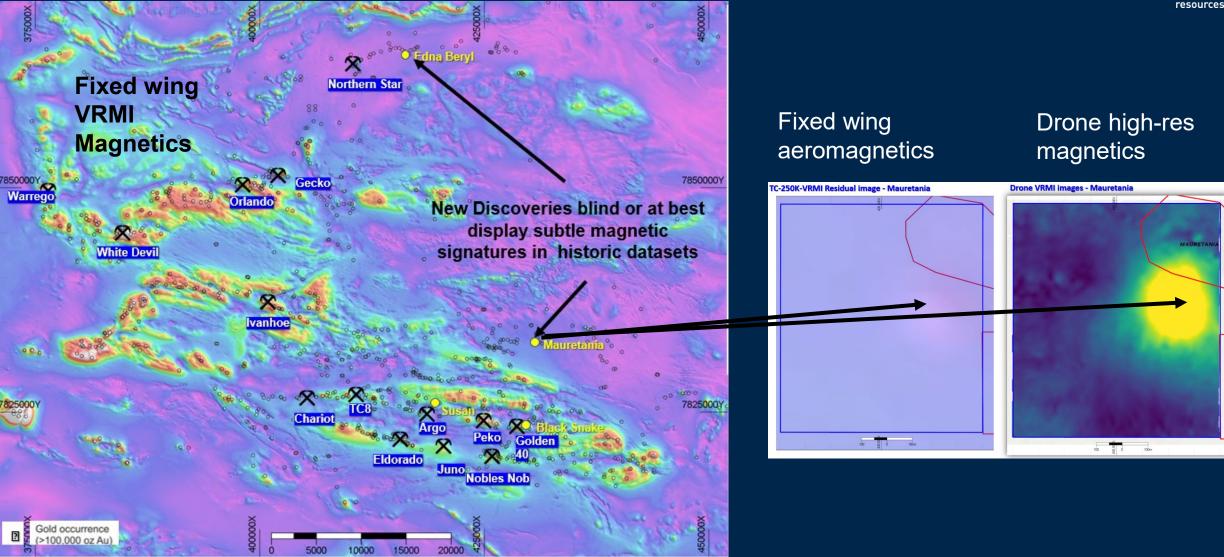




#### New tools and techniques.... **Predicting Detecting** Physical Rock Properties + Geochem: Remanence + Mineralogy and Processes - the hematite story **Ultra fine** Conductivity Geophysics: **Drone Magnetics** 3D Integration log fO2 Geology log fO2 log fO2 -25 log fO2 -30 Seismic Magnetite Northern log fO2 -35 (Jasper Hermitage, Pyr hotite Chlorite log fO2 pH10 pH12 Northern Thrust

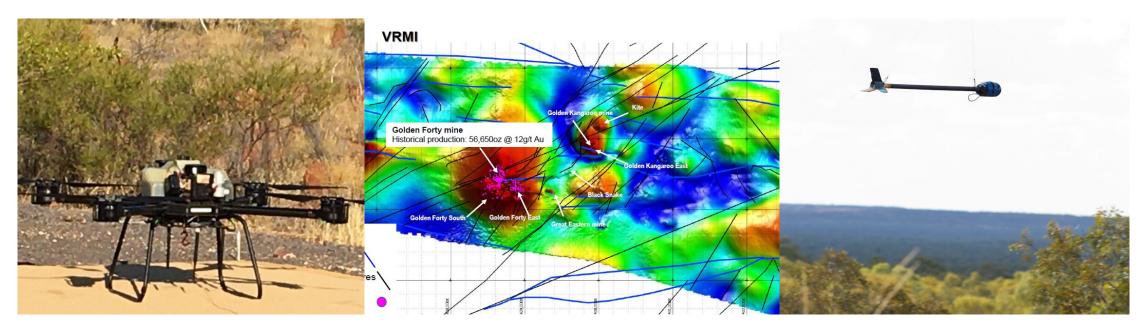
## Old Tools and Exploration Models versus the New





## New Tools and techniques - high Resolution Magnetics



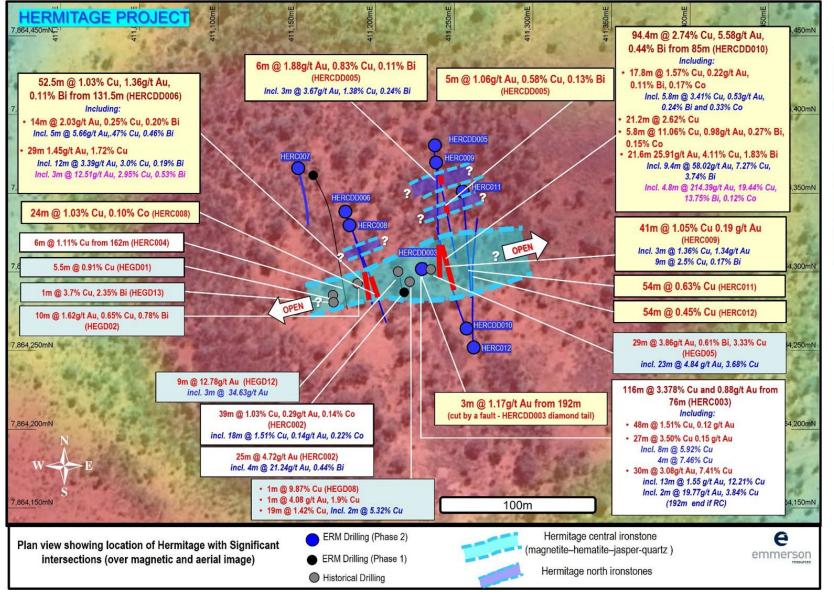


- 2 X 10,000km Drone magnetic surveys (Northern survey part of the cofunding collaboration with the NTGS)
- Providing a revised framework for structural and geological interpretation: important to refining the architecture of the D1 – fold and thrust belt, plus D3 mineralisation of the Tennant Event



## Phase 2 –first diamond drilling with an angled scissor hole beneath the discovery drill hole (August 2022)



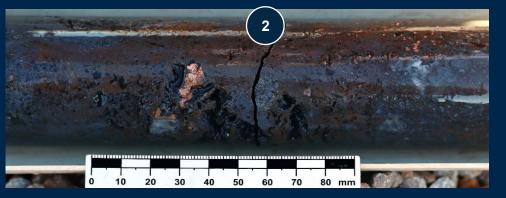


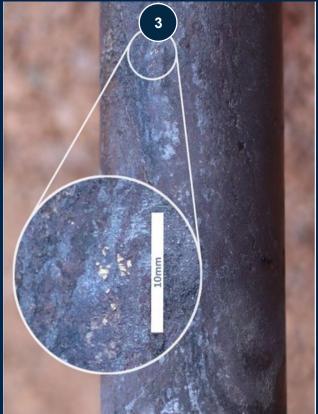


## First diamond drill hole intersects: 94m at 2.7% copper, 5.6g/t gold, 17.8g/t silver and 0.4% bismuth. Incl: 9.4m at 7.3% copper, 58g/t gold, 3.7% bismuth plus high grade cobalt (up to 0.3%) (ASX: 17 August 2022)











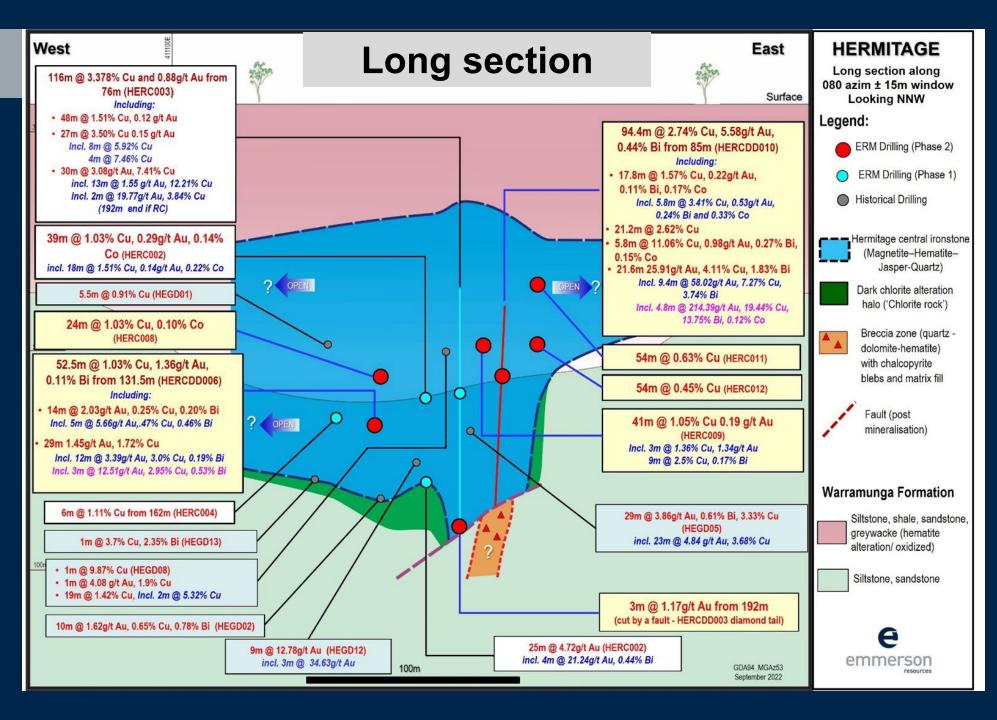
Four main zones of mineralisation in HERCDD010 (from shallow to deep):

Photo 1: malachite (copper carbonate) in hematite ironstone with voids/vugs (from 83m).

Photo 2: native copper (dark brown and brassy color) in hematite-magnetite ironstone and vugs (from 129.6m).

Photo 3: 4.8m at 19% copper, 214g/t gold, 103g/t silver, 13.7% bismuth and 0.12% cobalt from 164m

Photo 4: **new zone** (below the fault) of chalcopyrite (yellow) and bornite (purple/brown) in quartz stockwork veins (from 190m).





#### **Highlights**

Phase 1 drilling (ASX: 28 March 2022):

- 116m @ 3.4% Cu and 0.88g/t Au incl:
  - 2m @ 20g/t Au &
     3.8% Cu

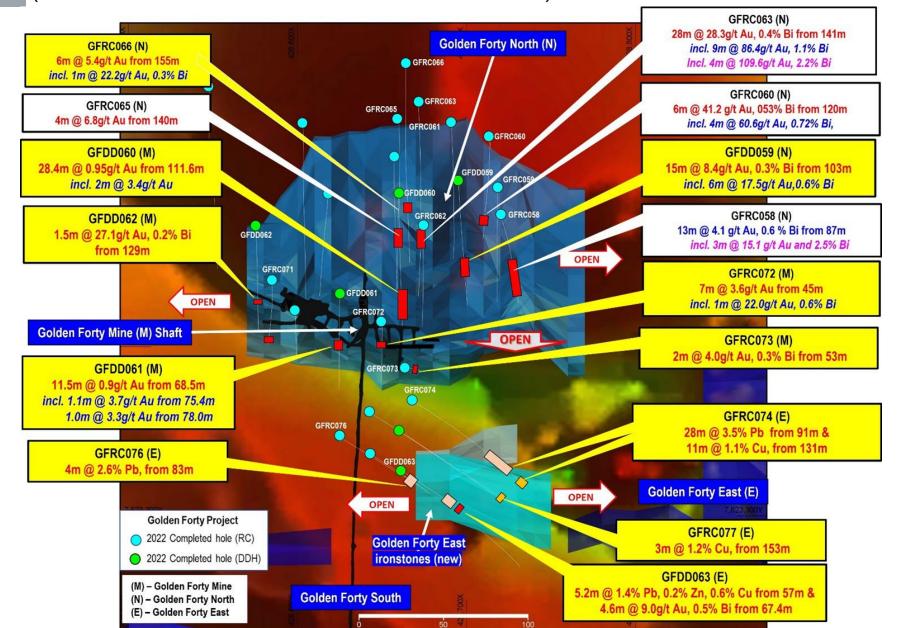
## Phase 2 drilling (ASX: 17 August 2022):

- 94m @ 2.7% Cu, 5.6g/t Au, 17.9g/t Ag, 0.44% Bi incl:
  - 21.6m @ 4.1% Cu,26g/t Au, 75g/t Ag &1.83% Bi
  - 9.4m @ 7.27% Cu,
     58g/t Au & 3.7% Bi

## Golden Forty North & East - new ore zones: 28m at 28g/t gold

(ASX: 12 December 2022 & 21 March 2023)





- Historic Golden Forty Mine ceased production in 1983 due to ground conditions
- Produced at head grade of 12g/t gold
- New ore zones and extensions to expand the historical resources
- Ore zones open and further drilling planned
- Scoping study and JORC
   GRE once in the Mining JV



# R & D drives new discoveries in a mature field



Unlocking stranded assets in Tennant Creek via Strategic Alliance



Emerging gold royalty business - aims to generate multiple low risk royalty streams



New tools provide the framework for revising both Prediction and Detection techniques



Unlocking new ground via partnerships with Traditional Owners



Building the Resource pipeline from a combination of brownfields and green fields



Systematic science based exploration eventually wins





## Contact:

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**ASX: ERM**