



# Discovering the Undiscovered

Rob Bills MD & CEO



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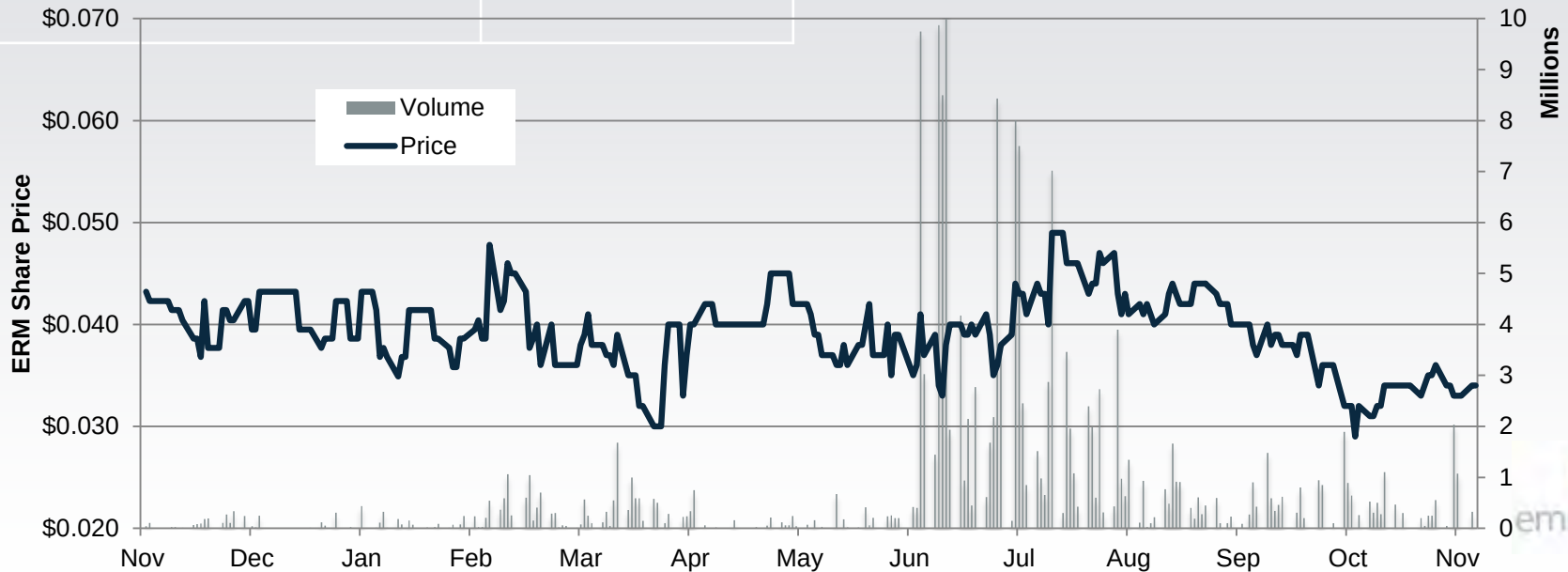
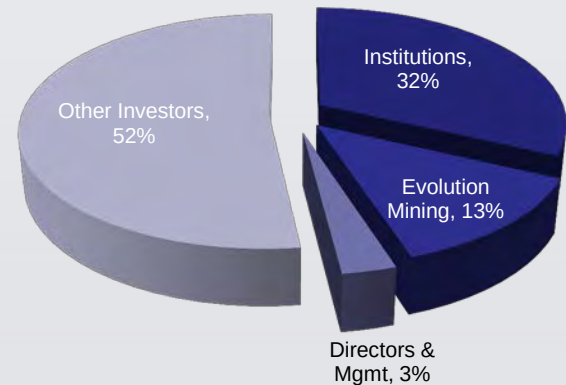
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# Emmerson Resources Capital Structure

| ASX code                                | ERM            |
|-----------------------------------------|----------------|
| Shares on issue                         | 376,842,704    |
| Performance rights                      | 2,162,500      |
| Market capitalisation (@ \$0.035)       | \$13.2 million |
| Cash (31/10/2014)                       | \$3.1 million  |
| Enterprise value                        | \$10.1 million |
| Listed investment (EVN)<br>(31/10/2014) | \$1.5 million  |
|                                         |                |
| \$0.070                                 |                |



# Board of Directors



**Mr. Andrew McIlwain** B.Eng (Mining)  
**Non-Executive Chairman**

Mining Engineering. 25 years experience in operational, senior management and executive roles (MIM, WMC, others). Managing Director of Unity Mining



**Mr. Robert Bills** B.Sc, M.Sc  
**Managing Director and Chief Executive Officer**

Geologist with over 25 years experience in exploration and mining with Western Mining Corporation, then BHP Billiton. Joined Emmerson Resources in late 2007 as the Managing Director and CEO.

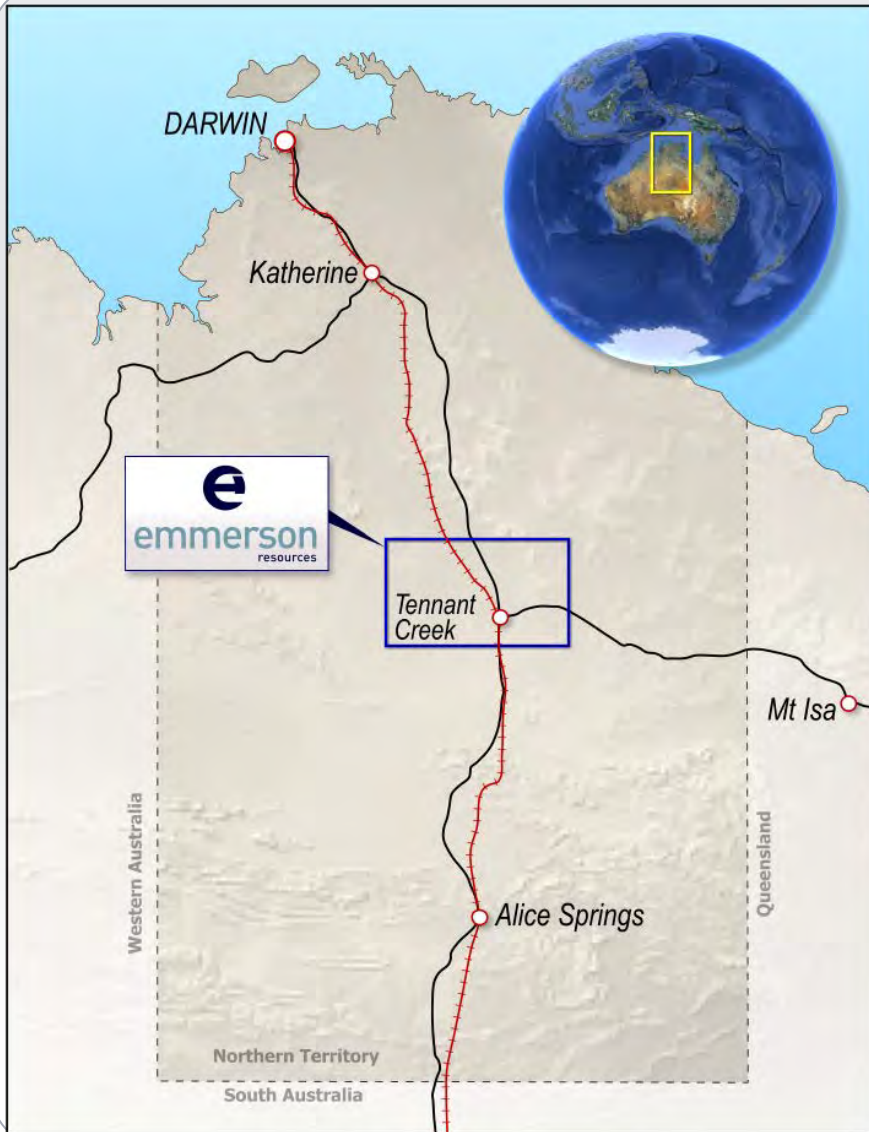


**Mr. Simon Andrew** B.Sc (Honours)  
**Non-Executive Director**

Chemistry. Extensive experience in corporate financing transactions



# Key Investment Features



## Dominant ground position

- 2,500 km<sup>2</sup> or 95% of the Tennant Creek Mineral Field

## New JV with Evolution (up to ~\$28m)

## High grade gold & copper

- Historically **15-20 g/t Au, 2-4% Cu**

## Processing plant

- Only gold mill in the region on care and maintenance, next to road, rail, power & gas pipeline

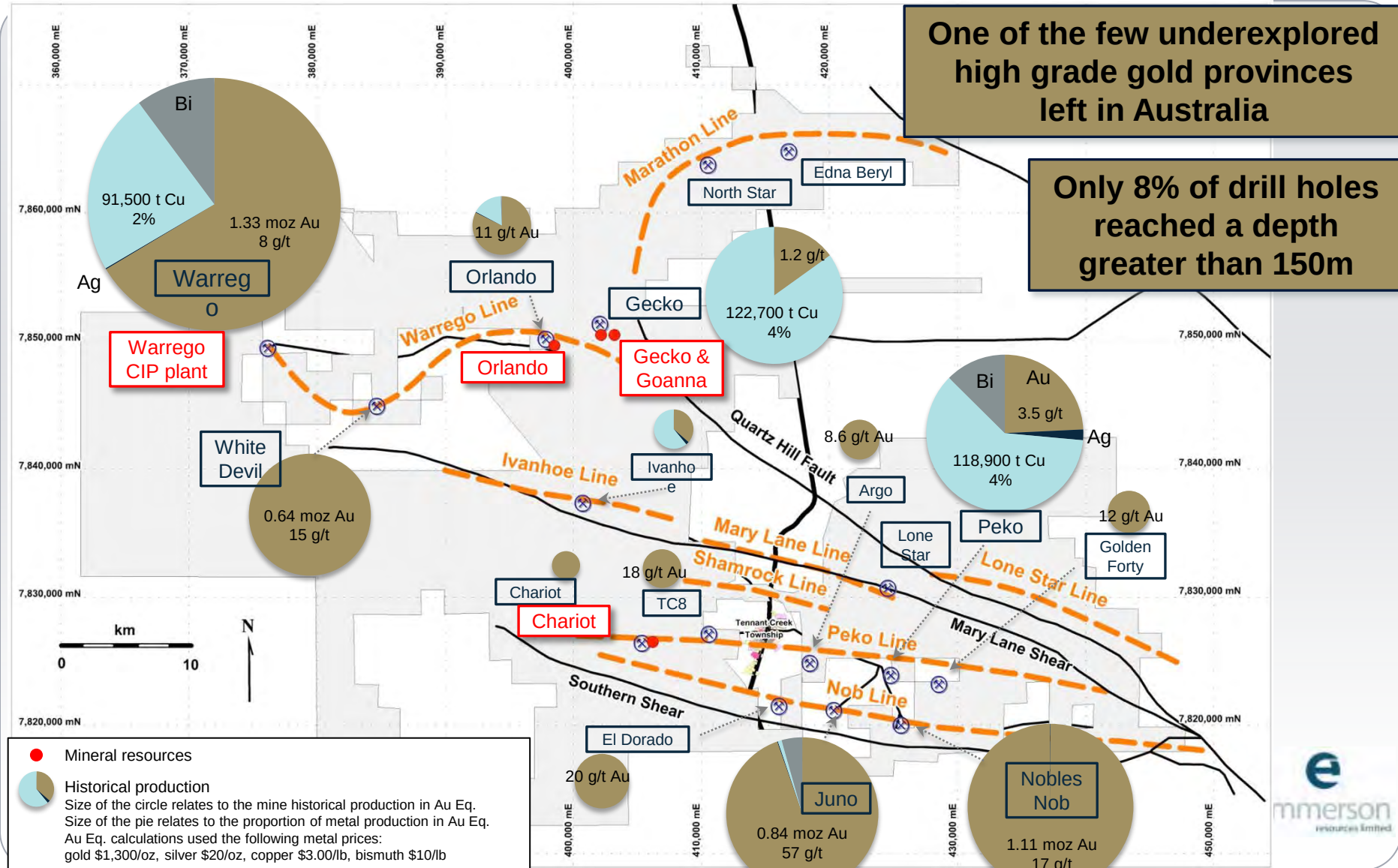
## Mineral resources

- 6.6mt at 1.8% Cu & 1.1 g/t gold for 122,000t copper & 245,000 oz gold
- Including 100,000 oz gold at **17 g/t**

## Strategy

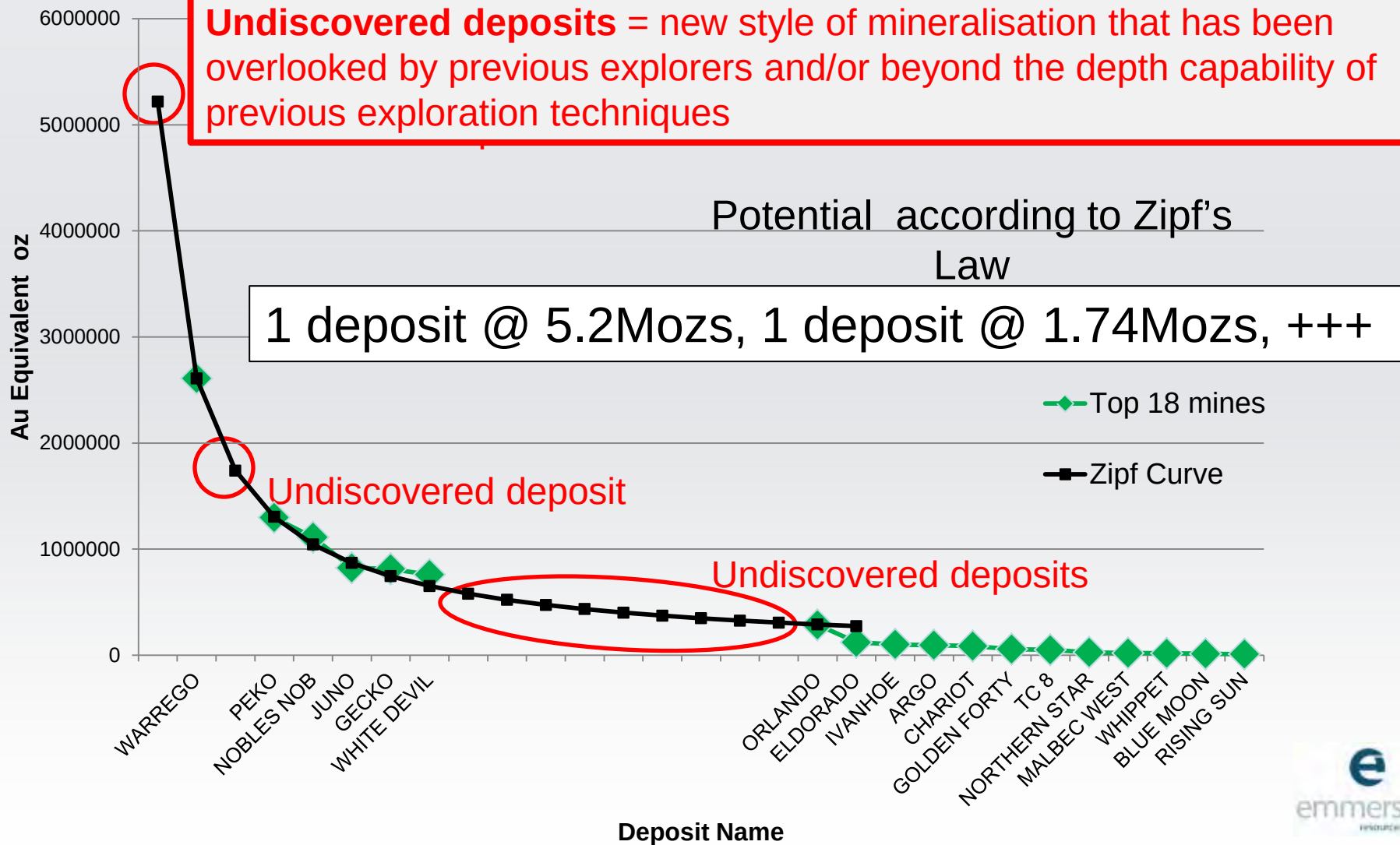
- ❑ Rapidly growing resources ahead of production
- ❑ Discovering a new generation of gold and copper deposits

# The hunting ground



# The prize.....

**Undiscovered deposits** = new style of mineralisation that has been overlooked by previous explorers and/or beyond the depth capability of previous exploration techniques

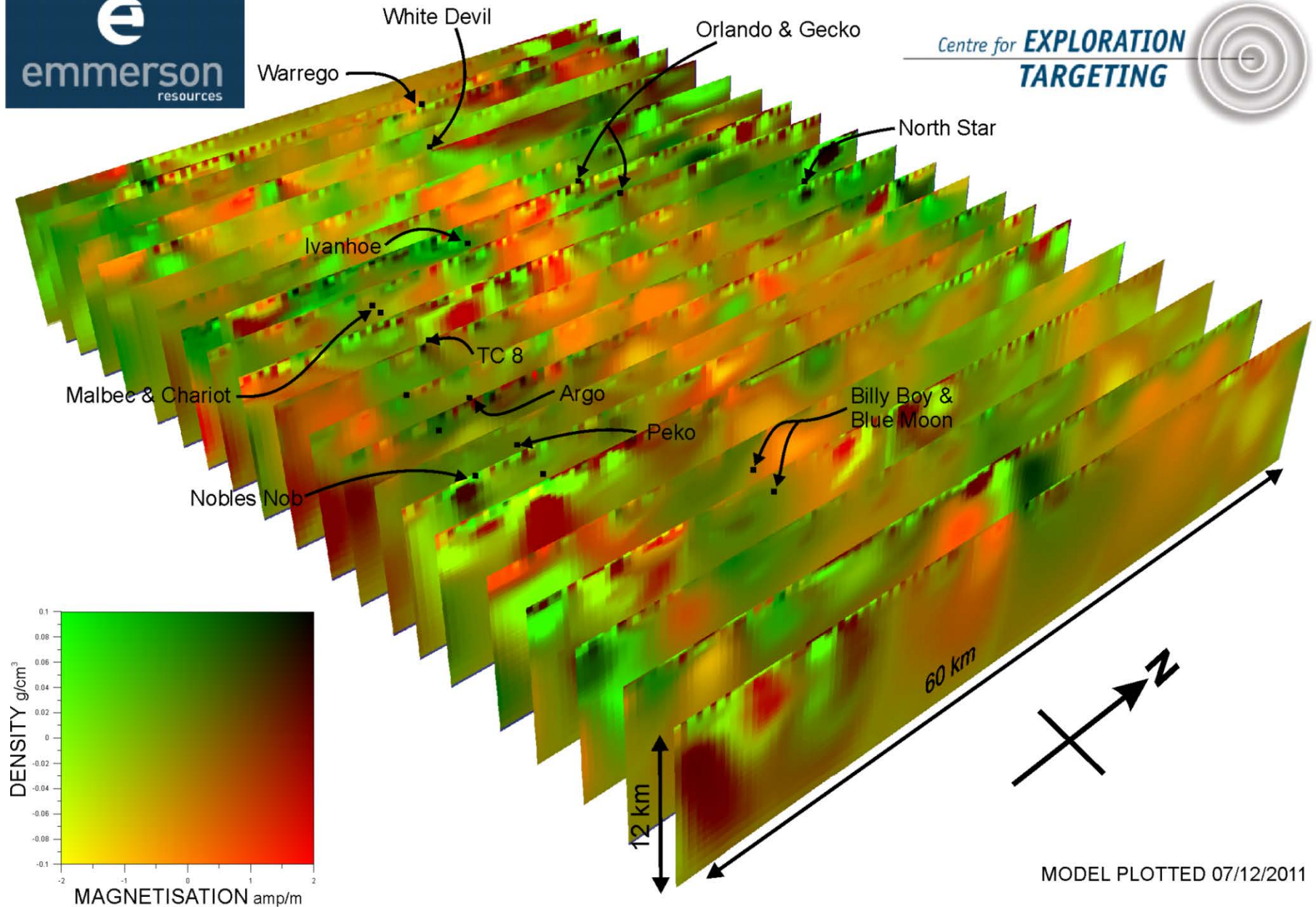
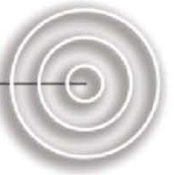




# Predicting the Undiscovered – looking at depth....



Centre for **EXPLORATION  
TARGETING**





# Growing Resources – Chariot Mine

Optiro 2013 Optimized Pit Outline

Chariot Pit

## Latest Drill Results

- 4m at 11.8g/t gold from 111m including **2m at 22.7g/t gold & 0.17% bismuth** (CHRC287)
- 7m at 3.14g/t gold from 130m including **1m at 10.5g/t gold & 0.41% bismuth** (CHRC 288)
- 2m @ 7.36 g/t gold from 130m including **1m @ 13.5g/t gold** (CHRC286).

Chariot Underground Development

| Optiro 2013<br>Chariot Estimate | Category     | Tonnes<br>(kt) | Gold grade<br>(g/t) | Ounces<br>(koz) |
|---------------------------------|--------------|----------------|---------------------|-----------------|
| Within Optimised<br>Pit Shell   | Indicated    | 13.3           | 11.1                | 4.7             |
|                                 | Inferred     | 59.4           | 19.2                | 36.7            |
|                                 | <b>Total</b> | <b>72.7</b>    | <b>17.7</b>         | <b>41.4</b>     |
| Below 1180 mRL                  | Indicated    | 51.8           | 16.0                | 26.6            |
|                                 | Inferred     | 53.0           | 18.4                | 31.4            |
|                                 | <b>Total</b> | <b>104.8</b>   | <b>17.2</b>         | <b>58.0</b>     |
|                                 | <b>Total</b> | <b>178.0</b>   | <b>17.4</b>         | <b>99.5</b>     |

Note: Inconsistencies in total tonnage reporting are due to rounding

Chariot block model > 1g/t Au

Gram X True Width

- 15 - 100 gram metres
- 8 - 15 gram metres
- 4 - 8 gram metres
- 1 - 4 gram metres

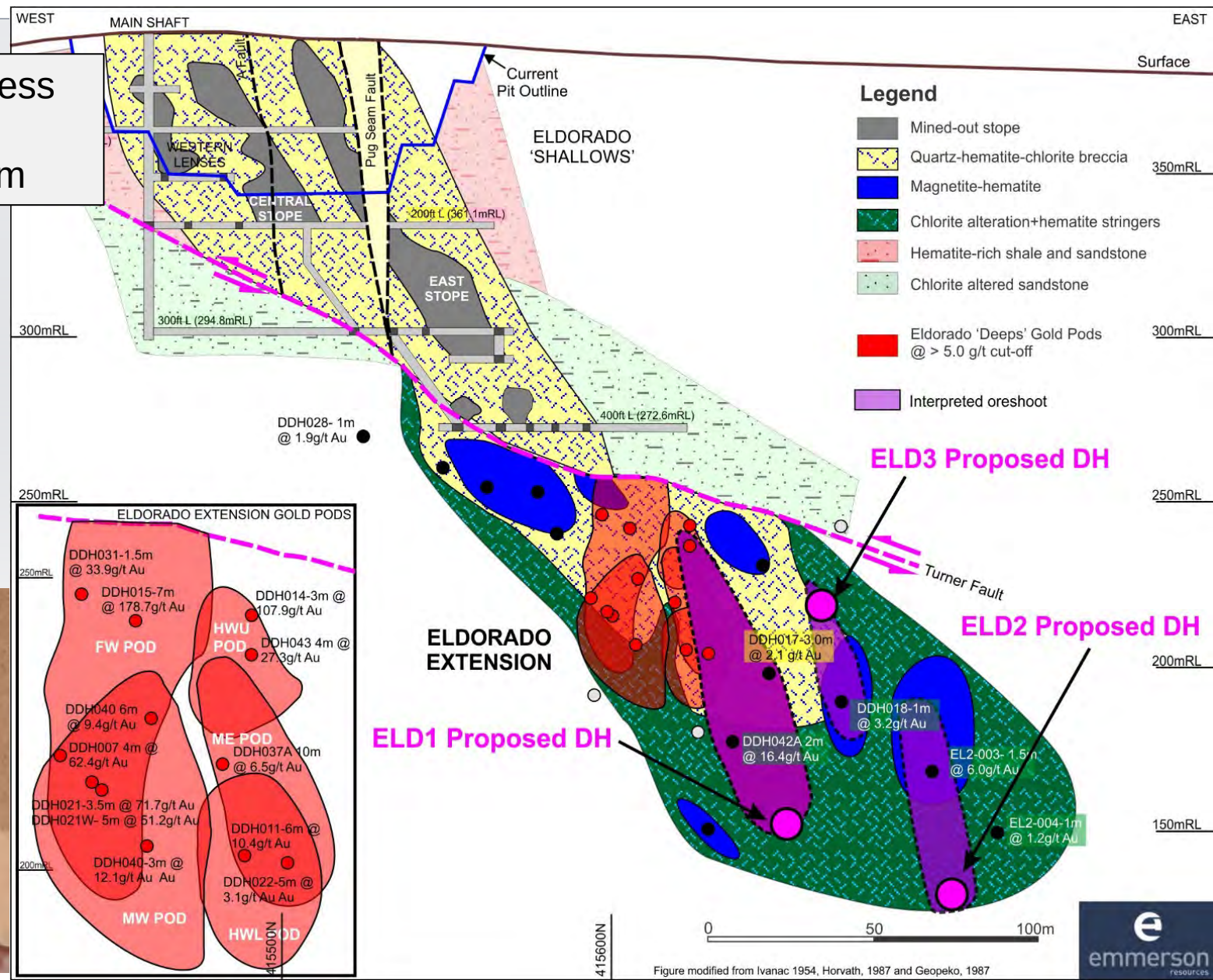
0 100m 200m



# Growing Resources - Eldorado

## Drilling in Progress

- ELD2 at ~200m



# New Technology finds a new generation of deposits

## HelITEM:

Most powerful in the world

Designed for deep exploration

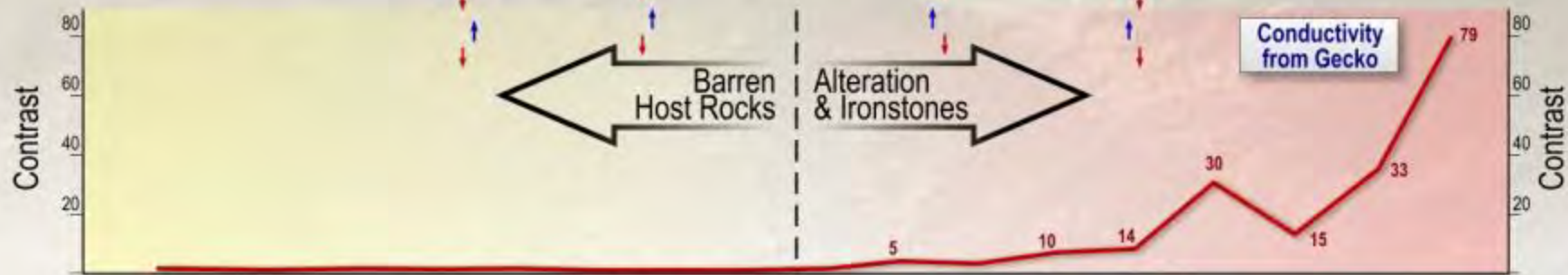
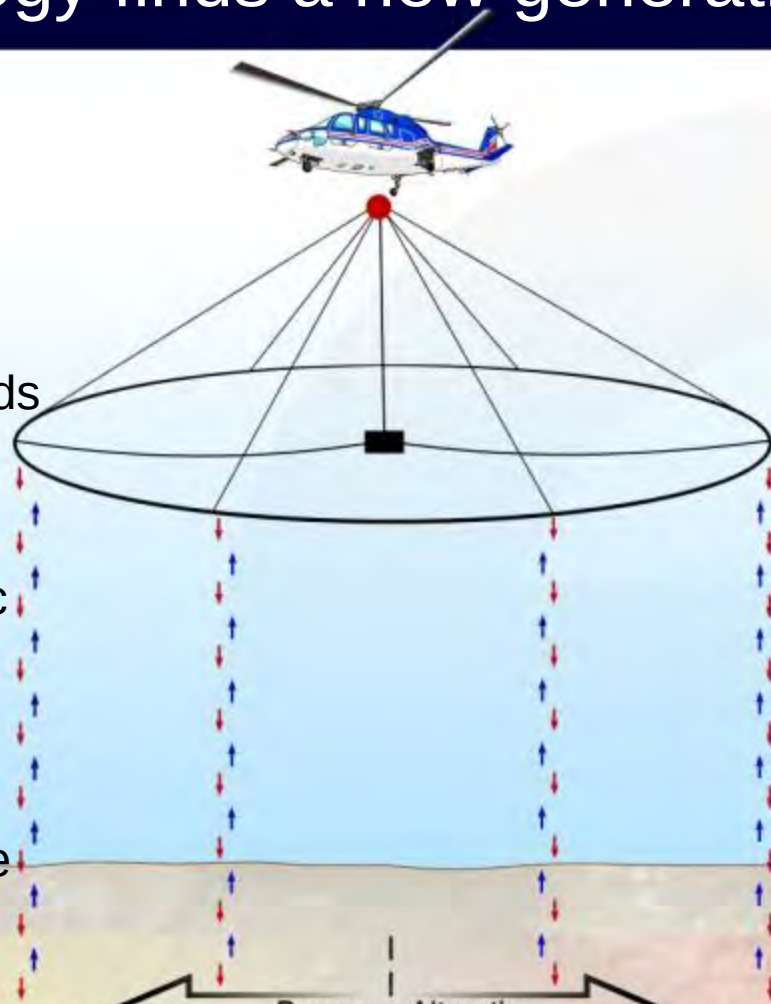
Only system with XYZ fields

Flown on 100m lines, 30-50m above ground

Measures electromagnetic field

TC deposits variably conductive

Barren host rocks resistive

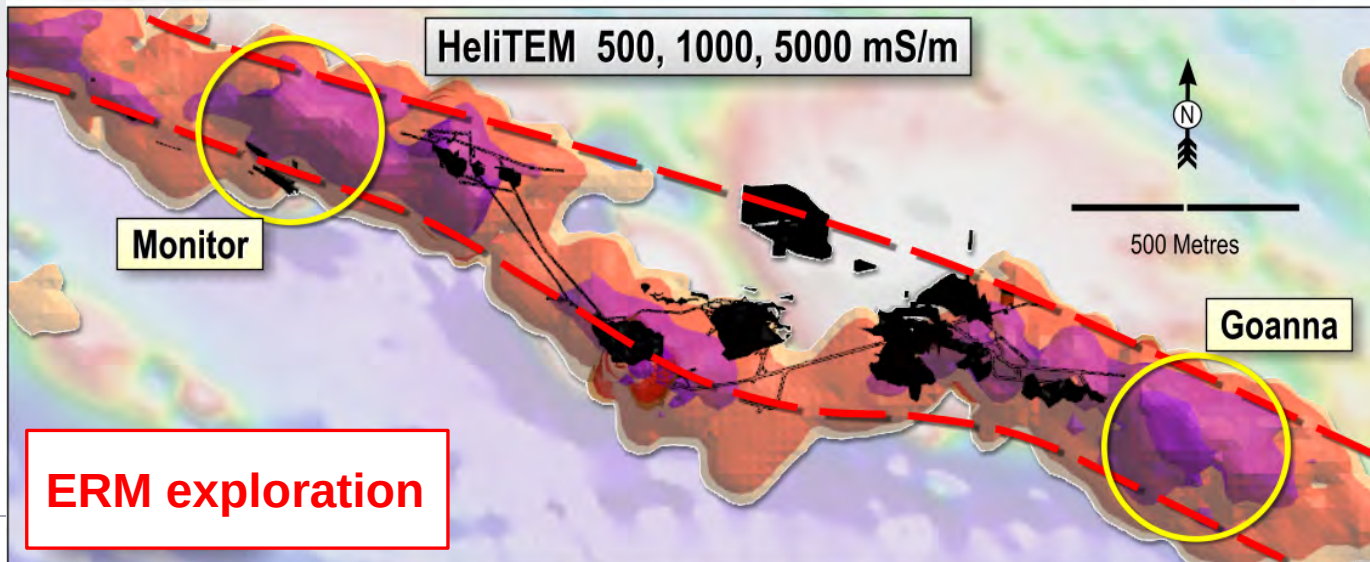
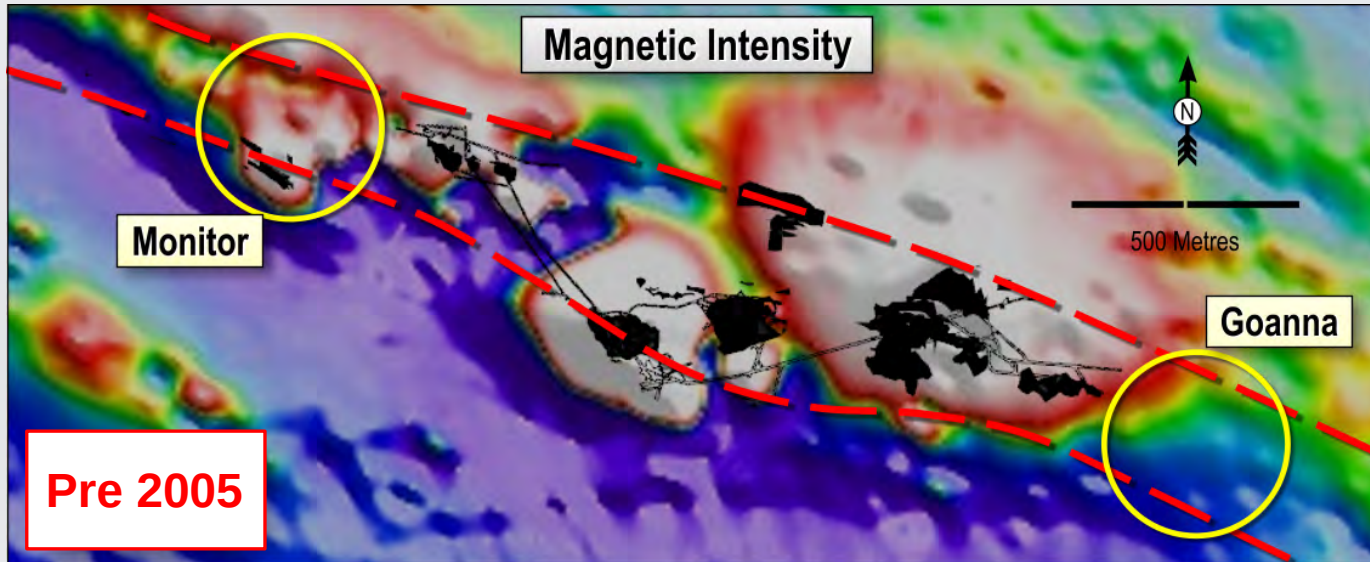


Conductivity of drill core from various deposits in the ERM tenements



# New Technology Leads to Discoveries

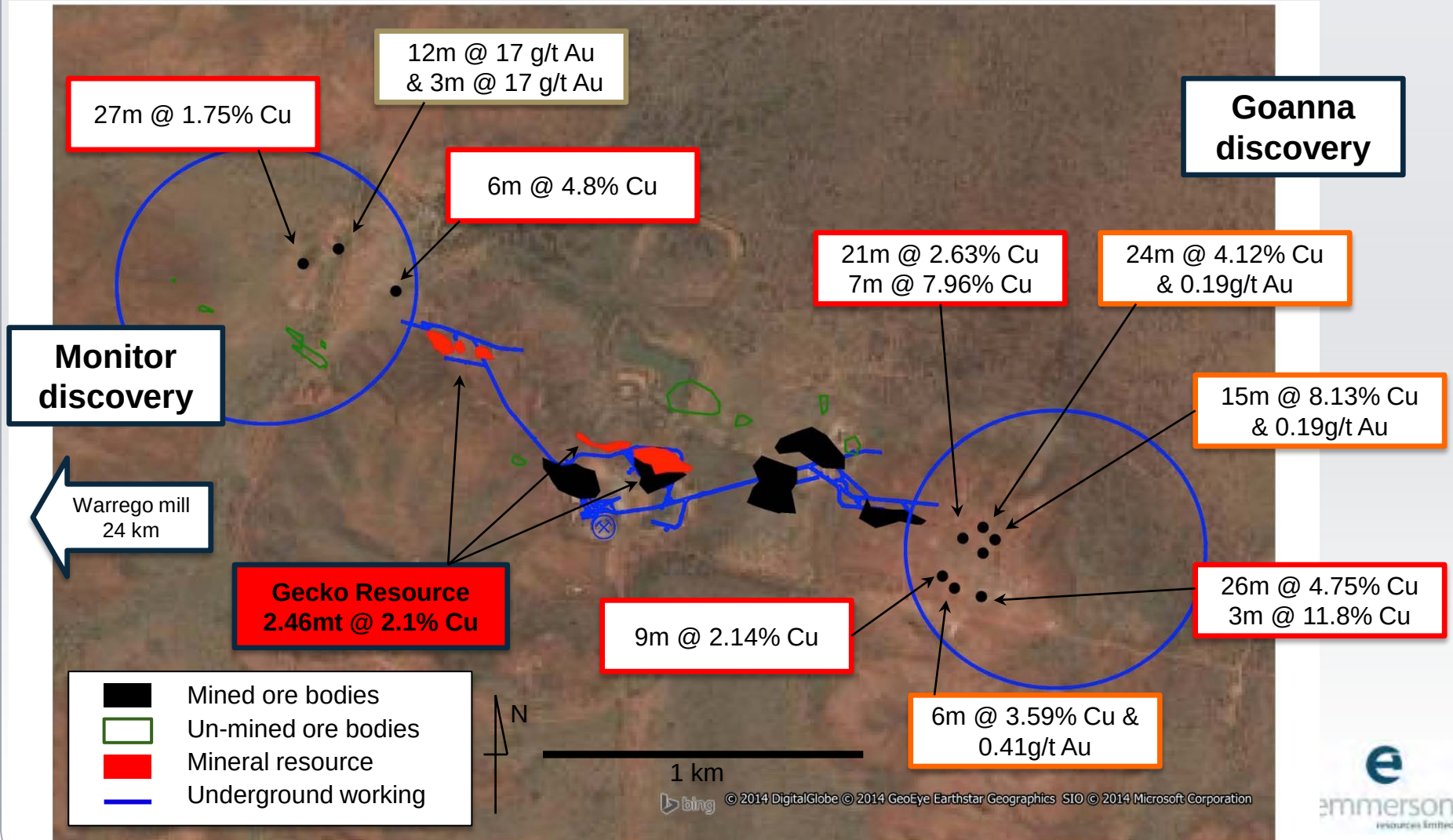
*The HeliTEM identified new targets, which lead to the discovery of two new deposits*





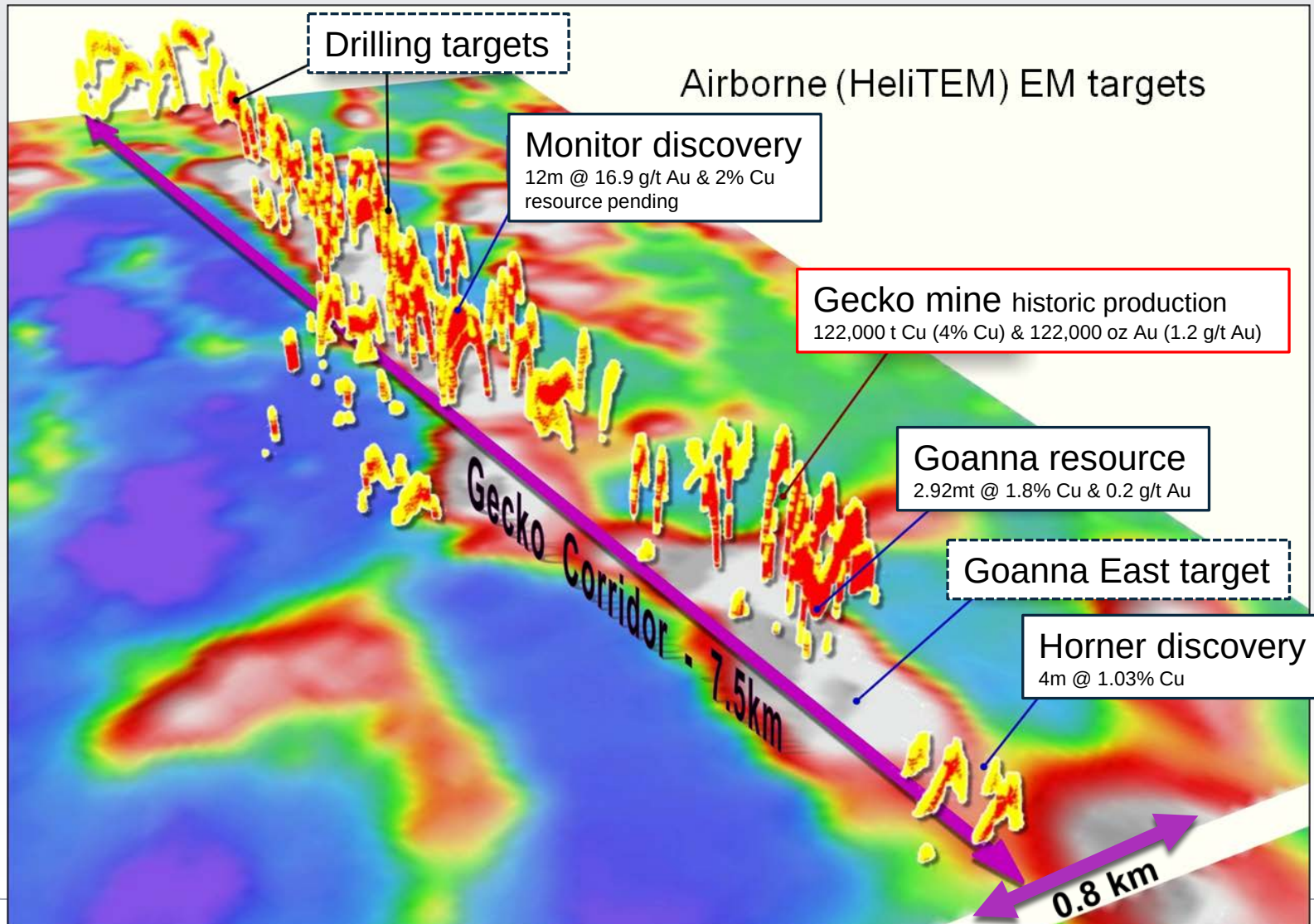
# The undiscovered Discovered!!

*Drilling confirmed the new multi-disciplinary exploration technique*



# Regional airborne electrical geophysics...undiscovered?

*Drilling confirmed the new exploration technique: Monitor, Goanna*





# New technology - a Seismic shift in Exploration.....

## Typical Solution (Drilling)

- Detect point locations of contacts and structures
- (Resolution of conventional minerals geophysics degrades rapidly with depth)
- Each hole tests a small area and can provide limited context for further exploration
- ~1 x 1km hole per month
- ≈ \$300K per km

## Problem (Deep Exploration)

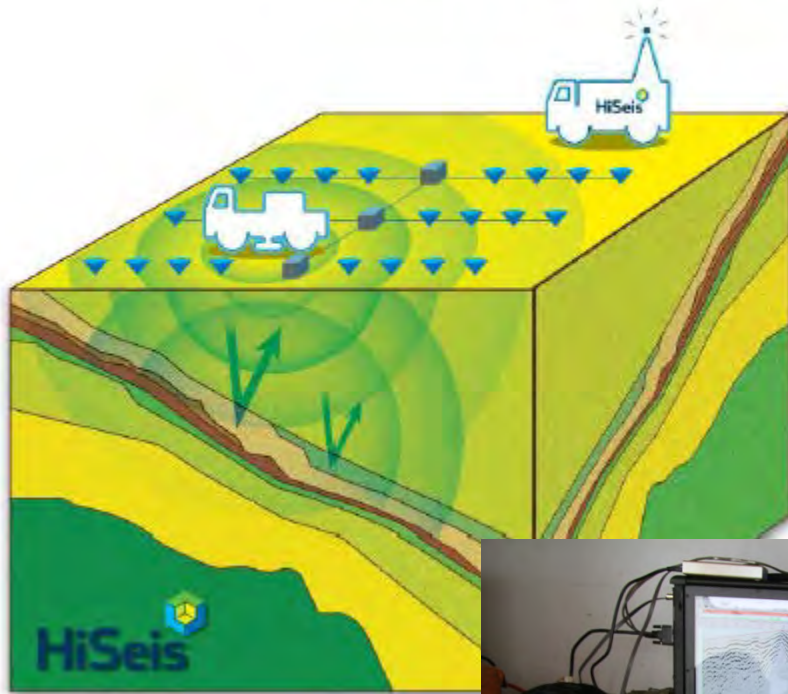
## Seismic Solution (Seismic +Drilling)

- Map contacts and structures in 3D
- Resolution is maintained at depth
- Each 3D seismic survey screens multiple km<sup>3</sup> and provides framework for subsequent exploration
- 10km<sup>2</sup> acquired and processed data in 3 months
- ≈\$200K/km<sup>2</sup> (0→2km<sup>+</sup>)
- **Cost effective!**



# First application of seismic in Tennant Creek .....

Acquire as 2D or 3D



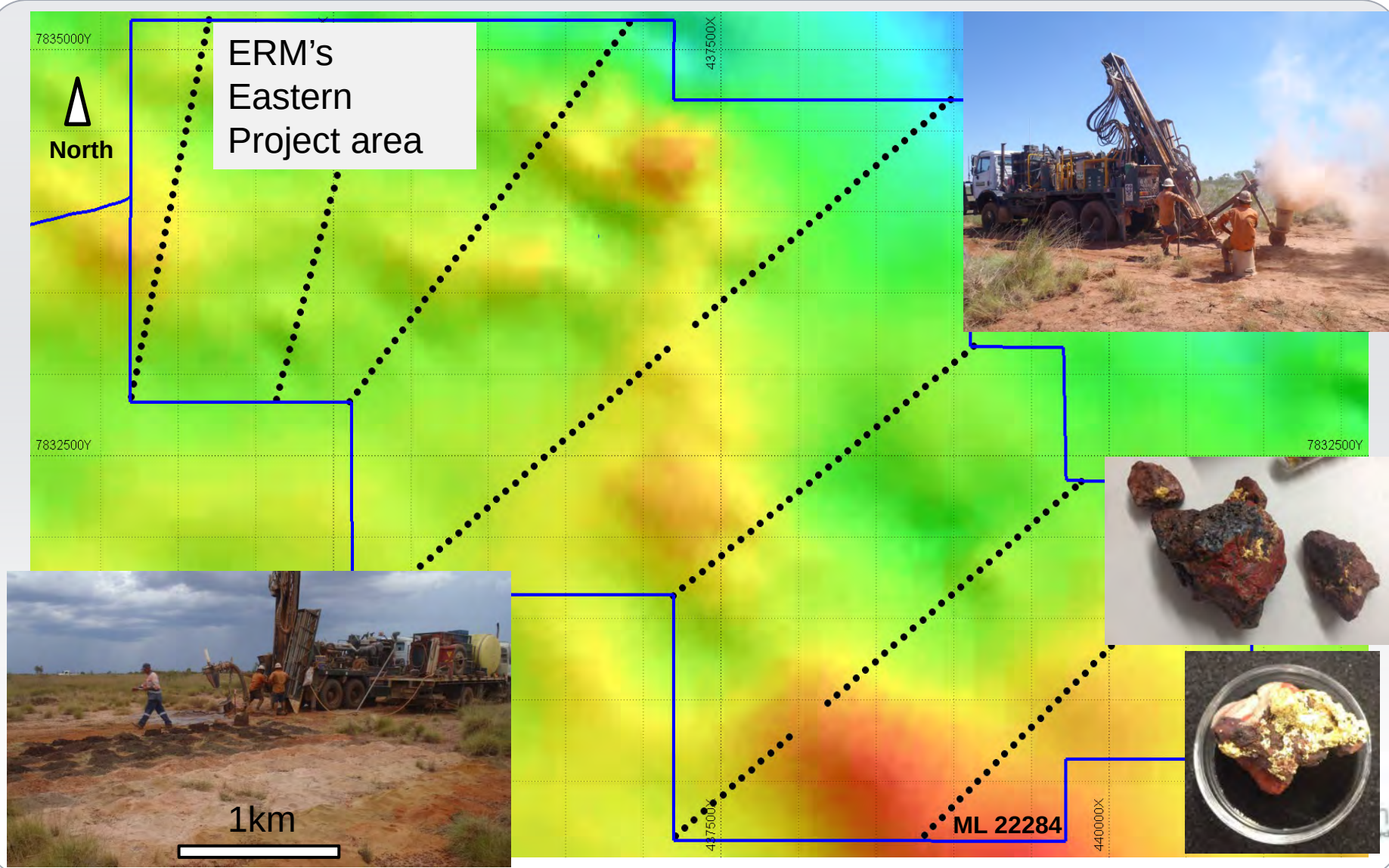
- based on sound waves
- reflections occur at changes in acoustic impedance
- resolution maintained with depth



19.09.2012



# and some conventional RAB exploration.....



# Investment Highlights

- ☑ **Well funded via the JV with Evolution Mining**
- ☑ **Dominant position in one of Australia's premier high grade goldfields**
- ☑ **Drilling underway to expand existing gold (and copper) resources**
- ☑ **New exploration techniques to discover the missing ~7mozs of gold  
( two discoveries to date!)**
- ☑ **New drill targets to test in 2015**
- ☑ **Stable and experienced Management and Exploration team**
- ☑ **Gold processing plant ,infrastructure, power and roads nearby =  
lower hurdle rate to production**



# The Emmerson Exploration Team



[www.emmersonresources.com.au](http://www.emmersonresources.com.au)

# Competent Person Statements

The information in this report which relates to Exploration Results is based on information compiled by Mr Steve Russell BSc, Applied Geology (Hons), MAIG, MSEG. Mr Russell 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 he is undertaking to qualify as a Competent Person as defined in the 2004 edition and the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Russell is a full time employee of the Company and consents to the inclusion in this report of the matters based on his information in the form and context in which it appears. Mr Russell holds an interest in the following securities in the Company: 387,500 Shares and 225,000 Performance Rights.

The information in this report which relates to Mineral Resources is based upon information compiled by Mr Ian Glacken, who is a Fellow of the Australasian Institute of Mining and Metallurgy. Ian Glacken is an employee of Optiro Pty Ltd and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 edition and the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Ian Glacken consents to the inclusion in this report of a summary based upon his information in the form and context in which it appears.

Gecko, Goanna & Orlando Mineral Resource: see details in ASX announcement “New High Grade Drill Results & Upgrade to Resource Inventory” released on 18 October 2013.

Chariot Mineral Resource: see details in ASX announcement “High Grade Chariot Gold Resource’ released on 28 November 2013.

The information was first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code 2012 on the basis that the information has not materially changed since it was last reported.

The gold equivalent calculation assumes a gold price of US\$1,363/oz for gold and US\$3.31/lb for copper and makes no allowance for metallurgical recoveries.