



**eclipse**  
METALS LTD

ASX | EPM

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**8,600 sqkm**

19 quality mineral tenements in the Northern Territory and Queensland.

ECLIPSE METALS

URANIUM


GOLD

PALLADIUM

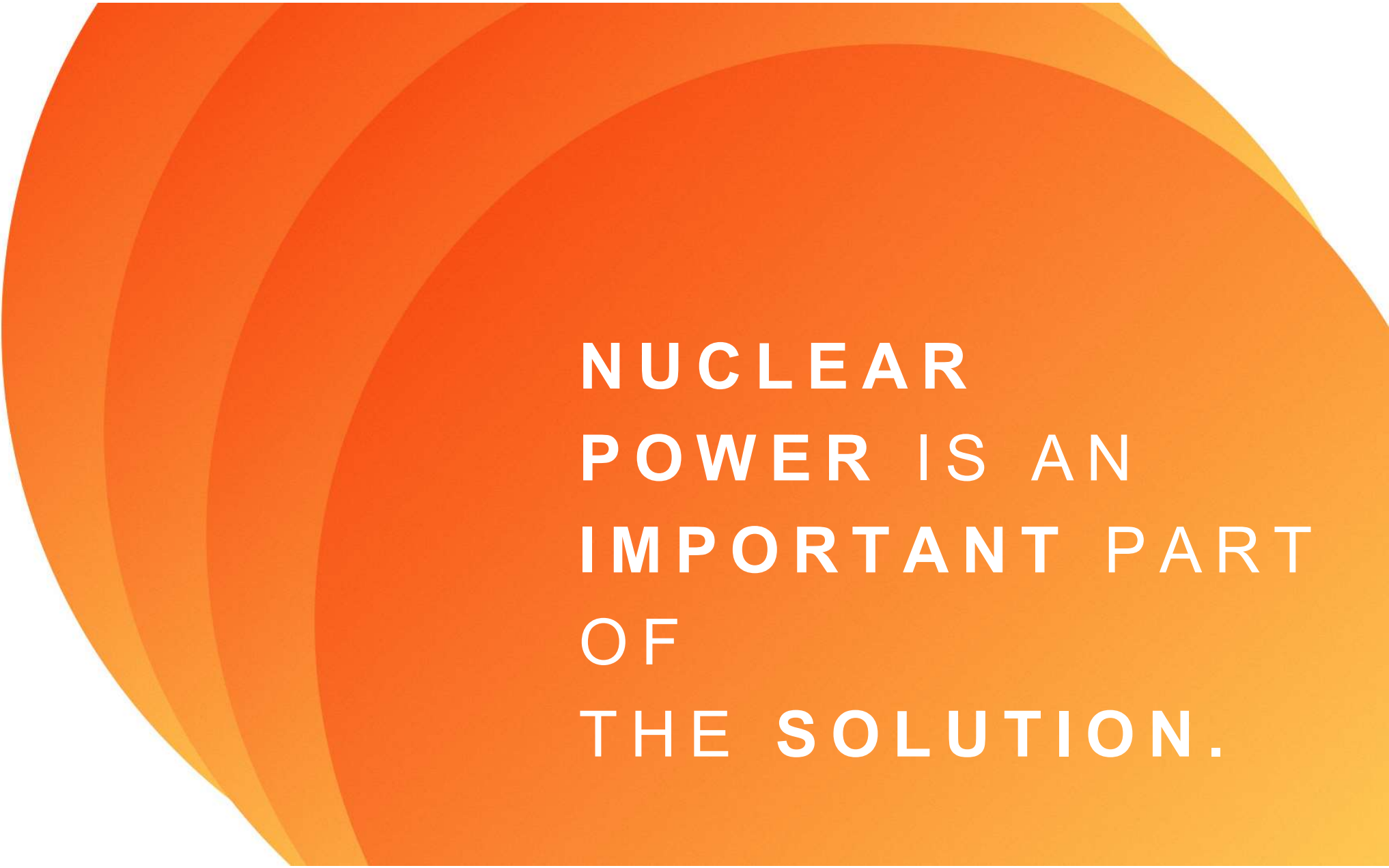
VANADIUM

MANGANESE

*OPPORTUNITIES.*

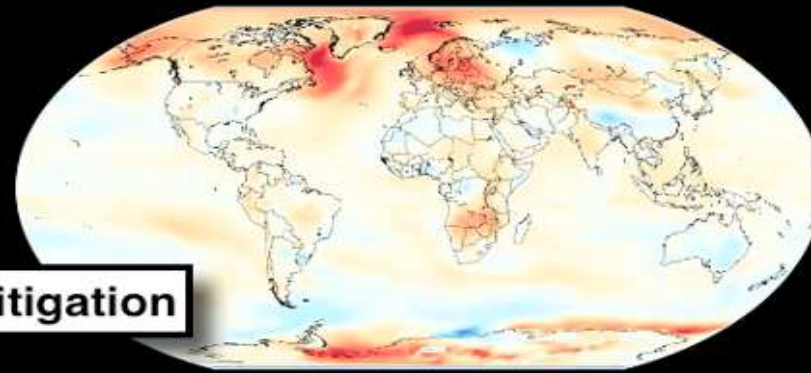


DEMAND FOR CLEAN  
ENERGY  
WORLDWIDE.



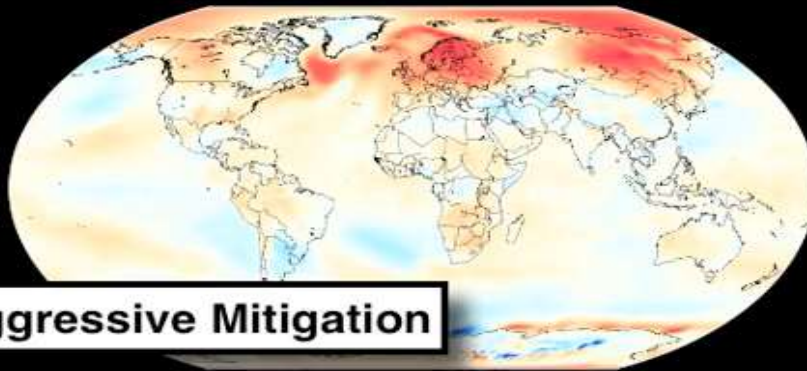
**NUCLEAR  
POWER IS AN  
IMPORTANT PART  
OF  
THE SOLUTION.**

# 21st Century projections

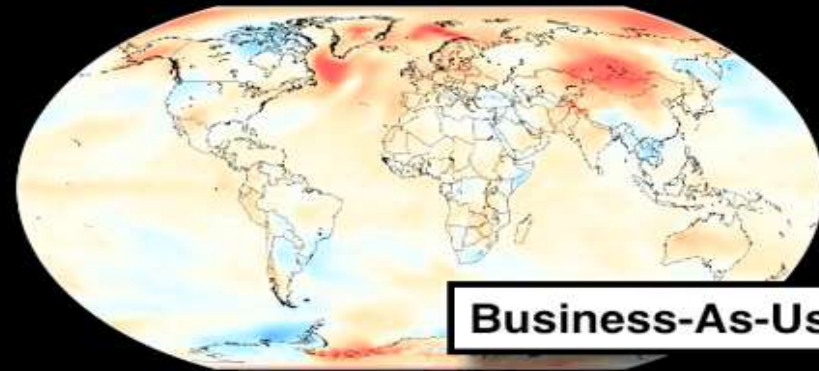


Years: 2006

**Serious Mitigation**



**Aggressive Mitigation**



**Business-As-Usual**



COUNTRIES AROUND THE  
WORLD ARE MOVING TO  
NUCLEAR POWER.

THIS IS CREATING AN  
INCREASE IN DEMAND FOR  
URANIUM

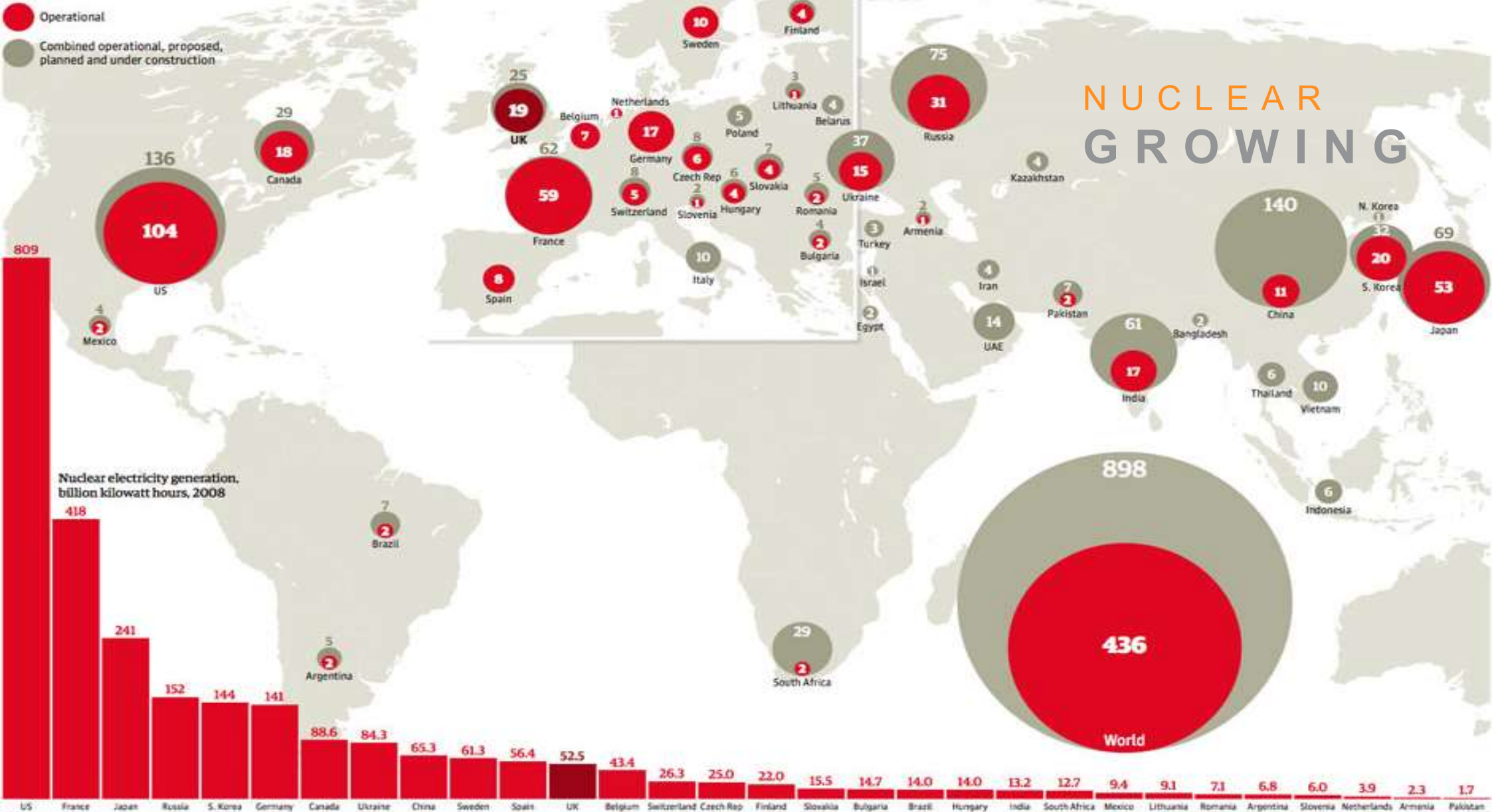
COUNTRY	UNITS	MWE (NET)	CONSTRUCTION START	GRID CONNECTION
CHINA	28	27,756	2008-2013	2014-2018
RUSSIA	9	7,273	1983-2019	2014-2019
INDIA	6	3,907	2002-2011	2014-20116
SOUTH KOREA	5	6,320	2008-2013	2014-2018
USA	5	5,633	1972-2013	2015-2019
BELARUS	2	2,218	2013-2014	2019-2020
PAKISTAN	2	630	2011	2016-2017
SLOVAKIA	2	880	1985	2014-2015
UAE	2	2,690	2012-2013	2017-2018
UKRAINE	2	1,900	1986-1987	2015-2016
ARGENTINA	1	25	2014	2018
BRAZIL	1	1,245	2010	2016
FINLAND	1	1,600	2005	2016
FRANCE	1	1,600	2007	2016
<b>TOTAL</b>	<b>67</b>	<b>63,677</b>	<b>1972-2014</b>	<b>2014-2020</b>

NUCLEAR REACTORS "UNDER CONSTRUCTION"

(AS OF 1 JULY 2014)

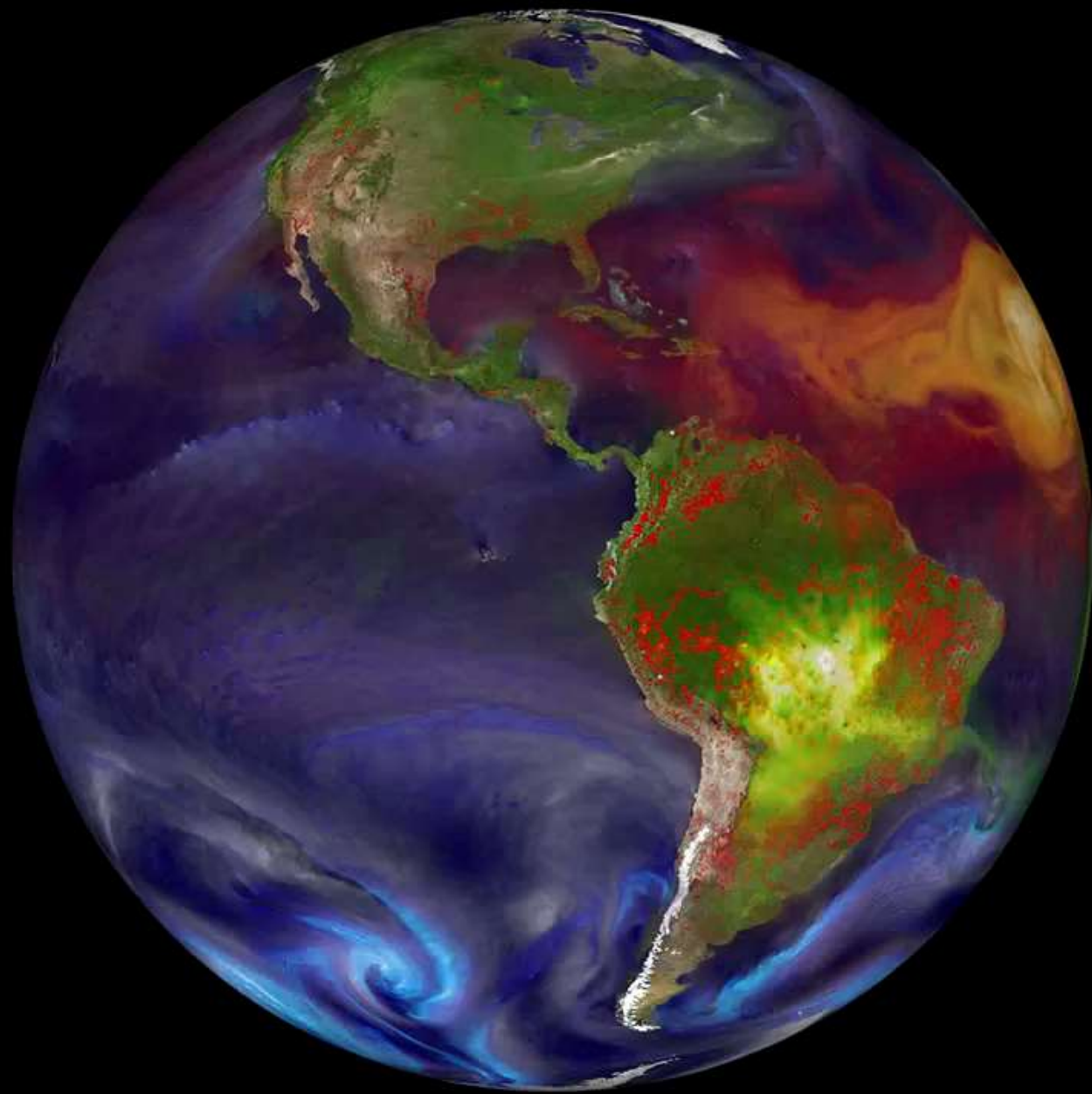
The world's nuclear reactors, October 2009

SOURCE: WORLD NUCLEAR ASSOCIATION



NUCLEAR  
GROWING





DEMAND

VS

SUPPLY

“

*THERE IS AN ENERGY  
GAP IN WHAT IS  
SUPPLIED AND WHAT IS  
REQUIRED*

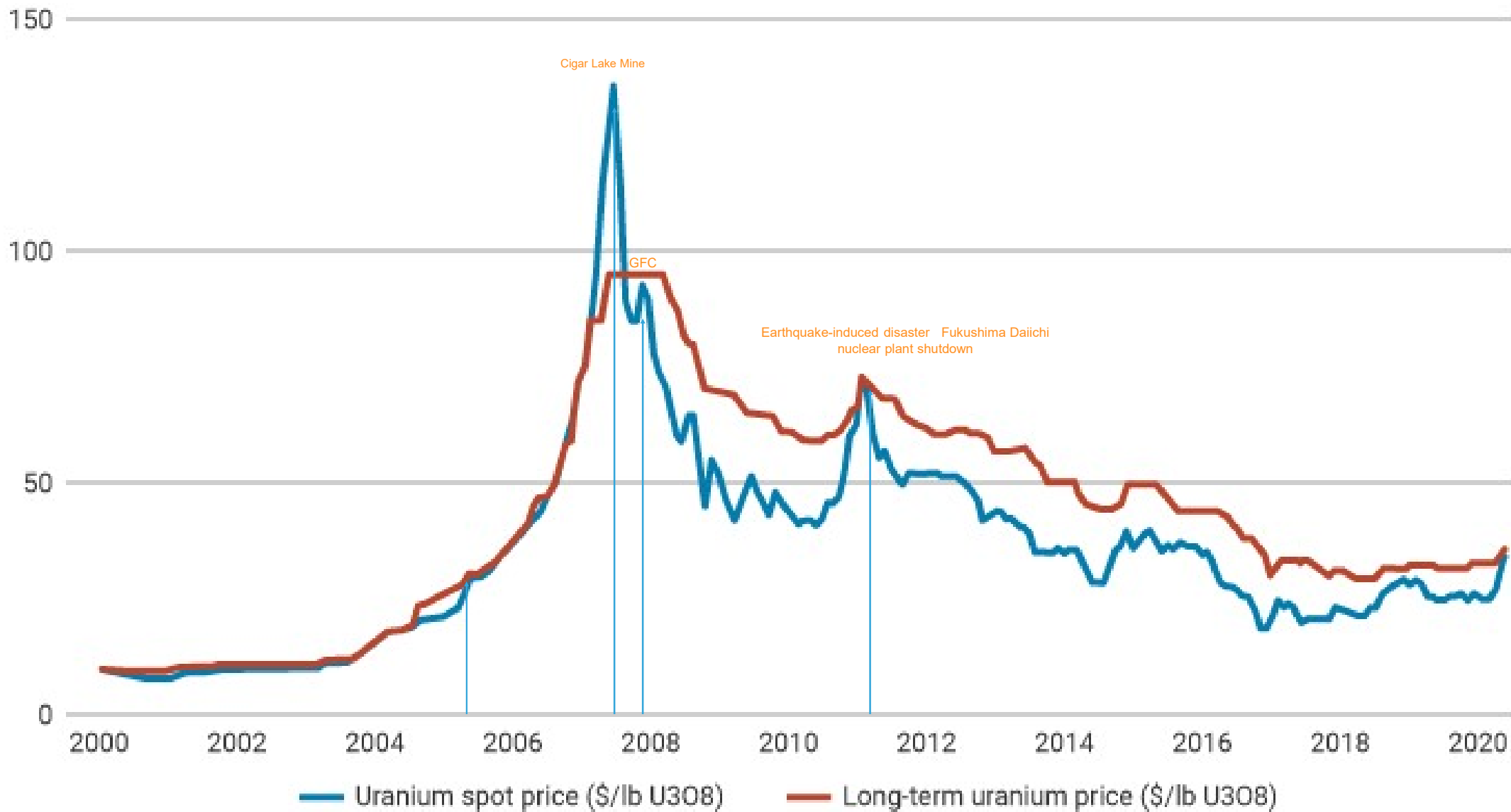
”



PRICE IS

***RISING!***

PRICE OF URANIUM



ECLIPSE METALS  
URANIUM  
PROSPECTS



The logo features a stylized map of the Northern Territory of Australia, rendered in a gradient of orange and yellow tones. The map is positioned on the left side of the image, with its right edge forming a semi-circle. The text "NORTHERN TERRITORY AUSTRALIA" is centered within this semi-circular area.

NORTHERN  
TERRITORY  
*AUSTRALIA*

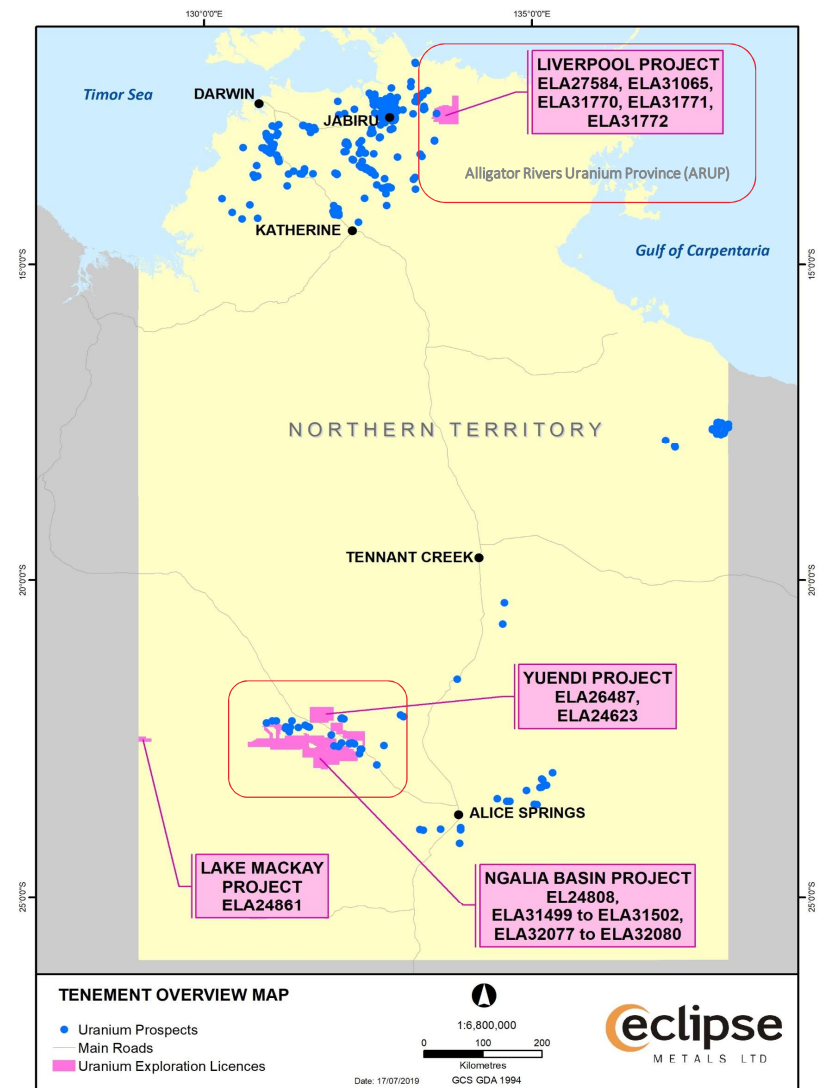
# ECLIPSE NT PROJECTS URANIUM PORTFOLIO

Eclipse Metals Ltd currently holds 8,570 km<sup>2</sup> of highly prospective uranium ground in Northern Territory, covering areas within West Arnhem (Alligator Uranium Fields) and Ngalia Basin in Central Australia.

Within the tenement package, prospects includes the **Devil's Elbow** uranium-gold-palladium prospect (**Part of the Liverpool Project**) located within EL 27584, which yielded high grade surface uranium assays of 3.2% U<sub>3</sub>O<sub>8</sub>, 4.4% U<sub>3</sub>O<sub>8</sub> and 5.8% U<sub>3</sub>O<sub>8</sub>, with 38.1 g/t Au and 28g/t Pd. Unconformity style uranium mineralisation is related to fractures within altered amygdaloidal basalt of the Nungbalgarri Volcanics

The Eclipse Uranium Project areas within Ngalia Basin are highly prospective for Sandstone/Calcrete palaeo-channel uranium / vanadium mineralisation. The Project tenements are in the early stages of exploration.

**(Afghan Swan Uranium / Cusack's Bore)**



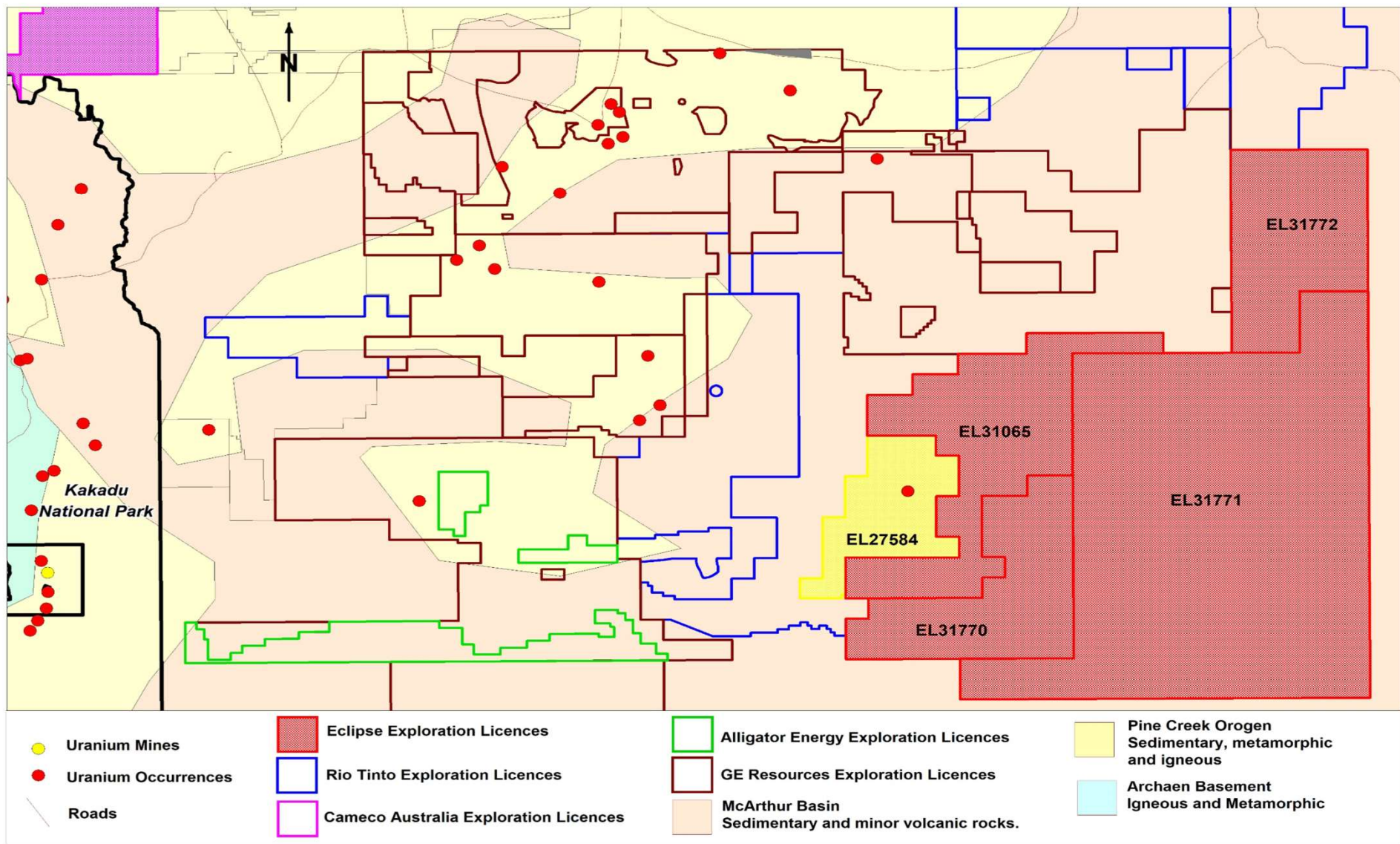


## **LIVERPOOL** GROUP TENEMENTS

*Over 1,400 km<sup>2</sup> of highly prospective Uranium, Gold, Palladium Ground in Australia's Northern Territory near to Ranger, Naberlek and Jabiluka Uranium mines.*

## **DEVILS ELBOW**

YIELDED HIGH GRADE SURFACE URANIUM ASSAYS OF **3.2% U<sub>3</sub>O<sub>8</sub>**, **4.4% U<sub>3</sub>O<sub>8</sub>** AND **5.8% U<sub>3</sub>O<sub>8</sub>**, with **38.1 g/t Au** AND **28g/t Pd**. RELATED TO FRACTURES WITHIN ALTERED AMYGDALOIDAL BASALT OF THE NUNGBALGARRI VOLCANICS.



NEAR  
**WORLD  
CLASS**  
DEPOSITS

## DEVIL'S ELBOW

### URANIUM-GOLD-PALLADIUM

(LIVERPOOL PROJECTS) EL27584.

HISTORIC EXPLORATION YIELDED HIGH  
GRADE SURFACE ASSAYS OF:

**3.2% U<sub>3</sub>O<sub>8</sub>, 4.4% U<sub>3</sub>O<sub>8</sub> AND 5.8% U<sub>3</sub>O<sub>8</sub>, - 38.1 g/t Au AND 28g/t Pd.**

RELATED TO FRACTURES WITHIN ALTERED  
AMYGDALOIDAL BASALT OF THE  
NUNGBALGARRI VOLCANICS.

ECLIPSE PROJECT AREAS ARE PROSPECTIVE  
FOR UNCONFORMITY STYLE URANIUM  
DEPOSITS, IN A SIMILAR GEOLOGICAL  
SETTING TO THE WORLD CLASS RANGER,  
NABARLEK, AND JABILUKA URANIUM  
DEPOSITS.



LIVERPOOL GROUP PROJECTS.  
Alligator Rivers Uranium Field  
McArthur Basin



**NABARLEK URANIUM**  
SURFACE DEPOSIT MINED JUNE-OCTOBER 1979  
TOTAL PRODUCTION 546,437 T OF ORE @1.84%

**JABILUKA  
URANIUM DEPOSIT**

LIVERPOOL URANIUM PROJECT IN  
ALLIGATOR RIVERS URANIUM FIELD  
**ECLIPSE METALS**  
DEVILS ELBOW PROJECT

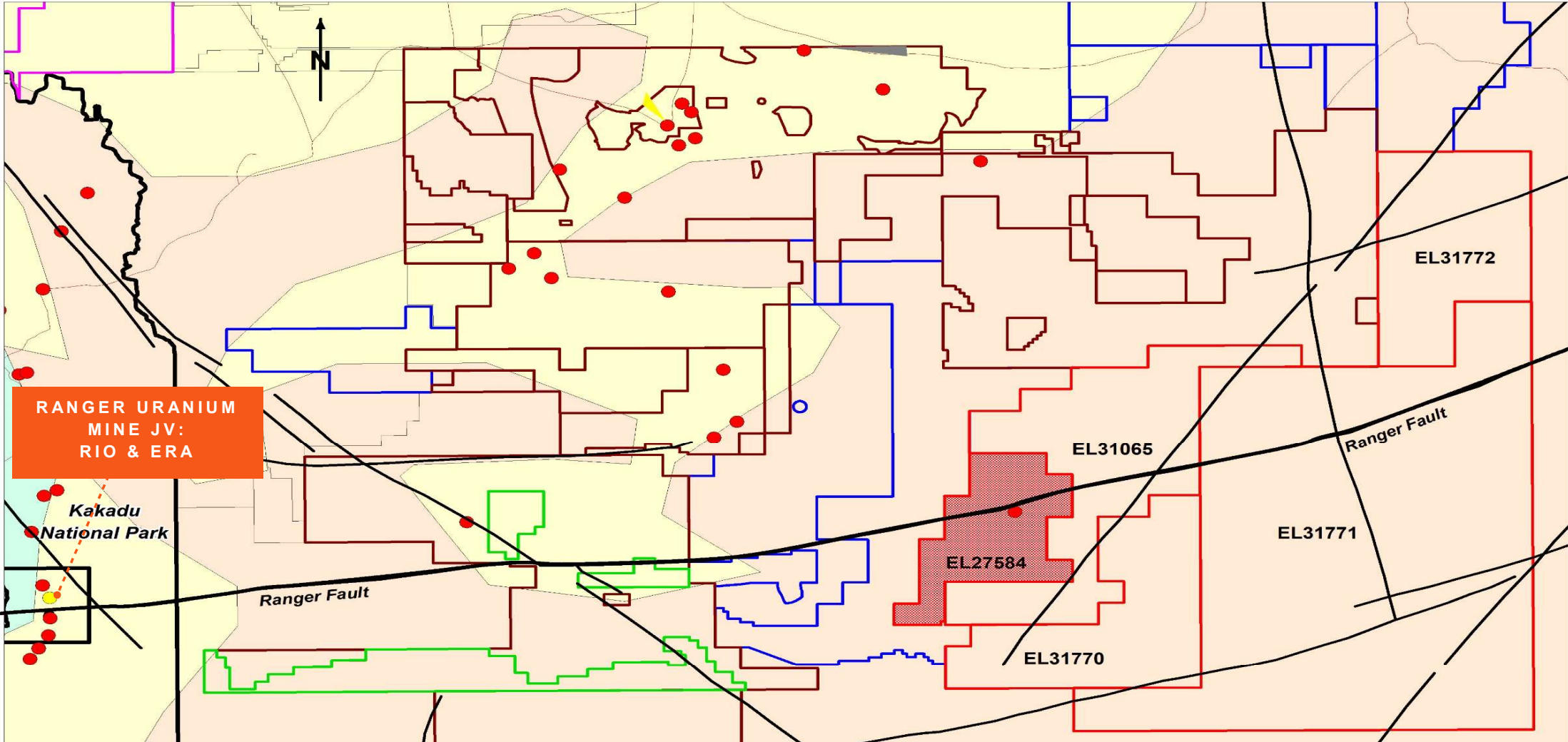
**RANGER URANIUM  
MINE JV:  
RIO & ERA**

ALLIGATOR RIVER

GOOMADEER RIVER

Alligator Rivers Uranium Field

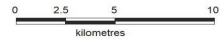




**Eclipse Metals Ltd**

West Arnhem Uranium Project Map showing current Resource Company's surrounding Eclipse Metals Exploration Licences

Date: 20/11/2019  
 Author:  
 Office: Darwin  
 Drawing:  
 Scale: 1:400000  
 Projection: (GDA94) Zone 53



**Nabarlek Uranium Mine**  
 24 MIbs @ 1.84% U<sub>3</sub>O<sub>8</sub>  
 (Production)

**U40 U-Au-Cu Prospect**  
 6.3m @ 7.2% U<sub>3</sub>O<sub>8</sub>, 1.9% Cu, 0.7 g/t Au  
 12.3m @ 0.7% U<sub>3</sub>O<sub>8</sub>, 2.0% Cu, 1.8 g/t Au

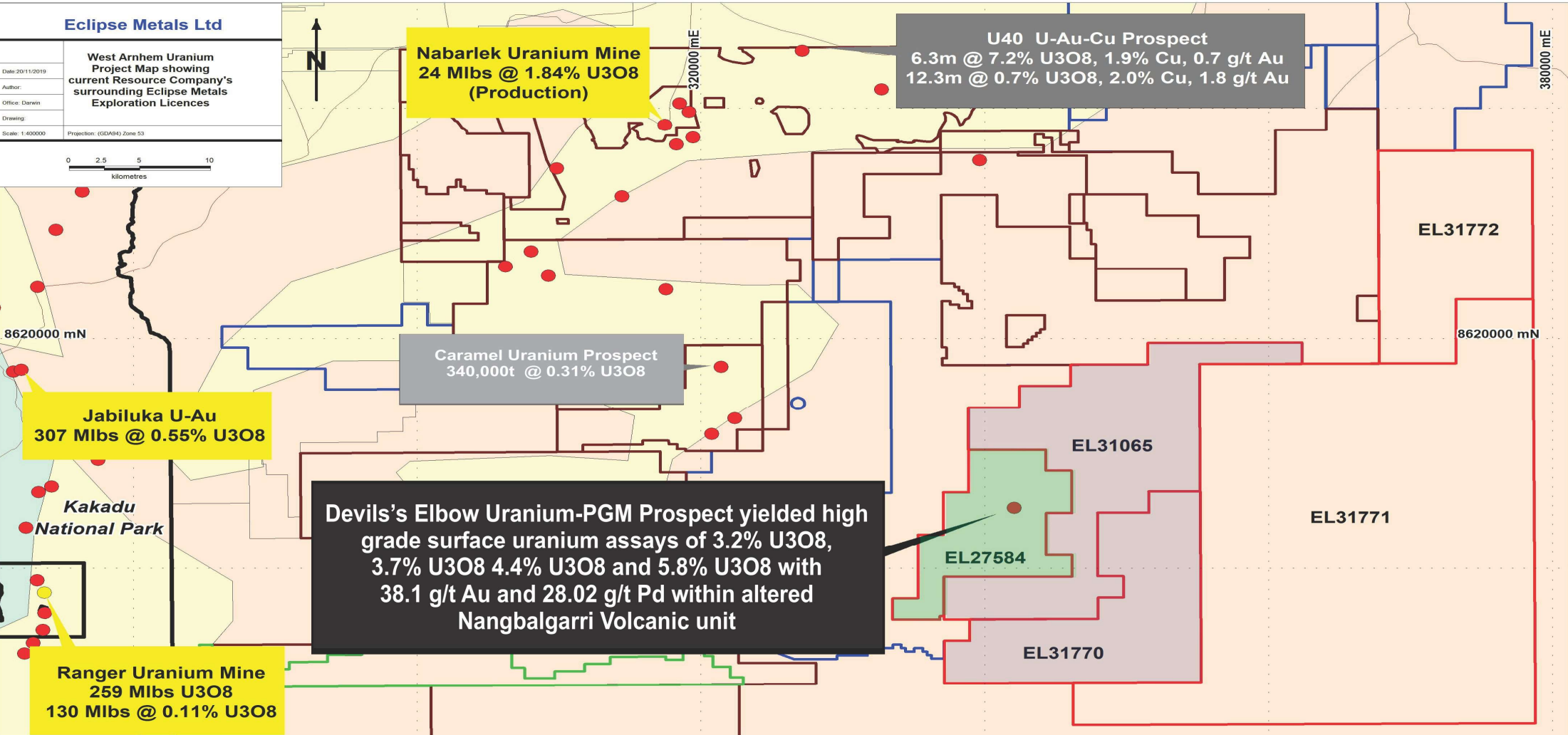
**Caramel Uranium Prospect**  
 340,000t @ 0.31% U<sub>3</sub>O<sub>8</sub>

**Jabiluka U-Au**  
 307 MIbs @ 0.55% U<sub>3</sub>O<sub>8</sub>

**Devil's Elbow Uranium-PGM Prospect yielded high grade surface uranium assays of 3.2% U<sub>3</sub>O<sub>8</sub>, 3.7% U<sub>3</sub>O<sub>8</sub> 4.4% U<sub>3</sub>O<sub>8</sub> and 5.8% U<sub>3</sub>O<sub>8</sub> with 38.1 g/t Au and 28.02 g/t Pd within altered Nangbalgarri Volcanic unit**

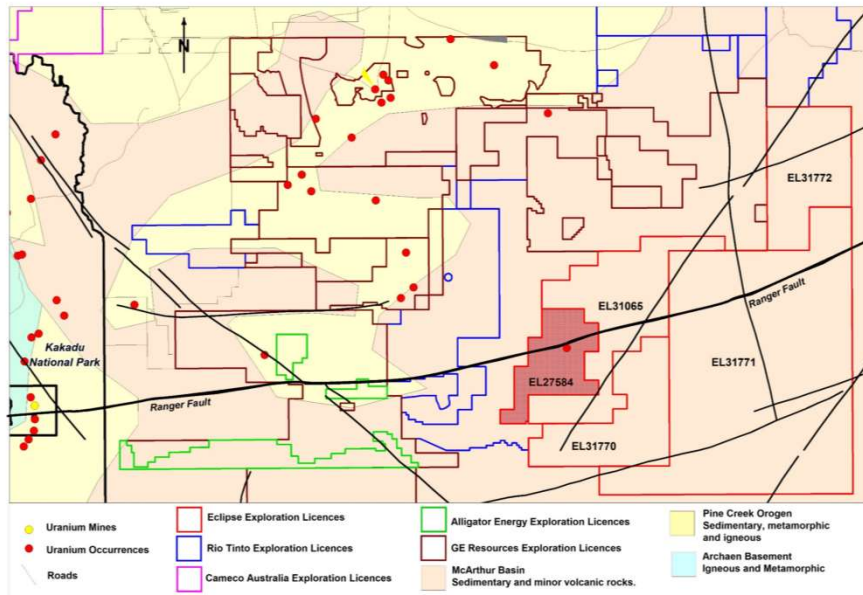
**Ranger Uranium Mine**  
 259 MIbs U<sub>3</sub>O<sub>8</sub>  
 130 MIbs @ 0.11% U<sub>3</sub>O<sub>8</sub>

*Kakadu National Park*



## DEVILS ELBOW

UNCONFORMITY STYLE URANIUM DEPOSITS, IN A SIMILAR GEOLOGICAL SETTING TO THE WORLD CLASS RANGER, NABARLEK, AND JABILUKA URANIUM DEPOSITS.



The major deposits in the area (Ranger, Jabiluka, Koongarra and Nabarlek) appear to have a common position relative to the base of the Kombolgie Subgroup i.e. Palaeoproterozoic unconformity, or to its erosional margin, ideal to serve as exploration targets.



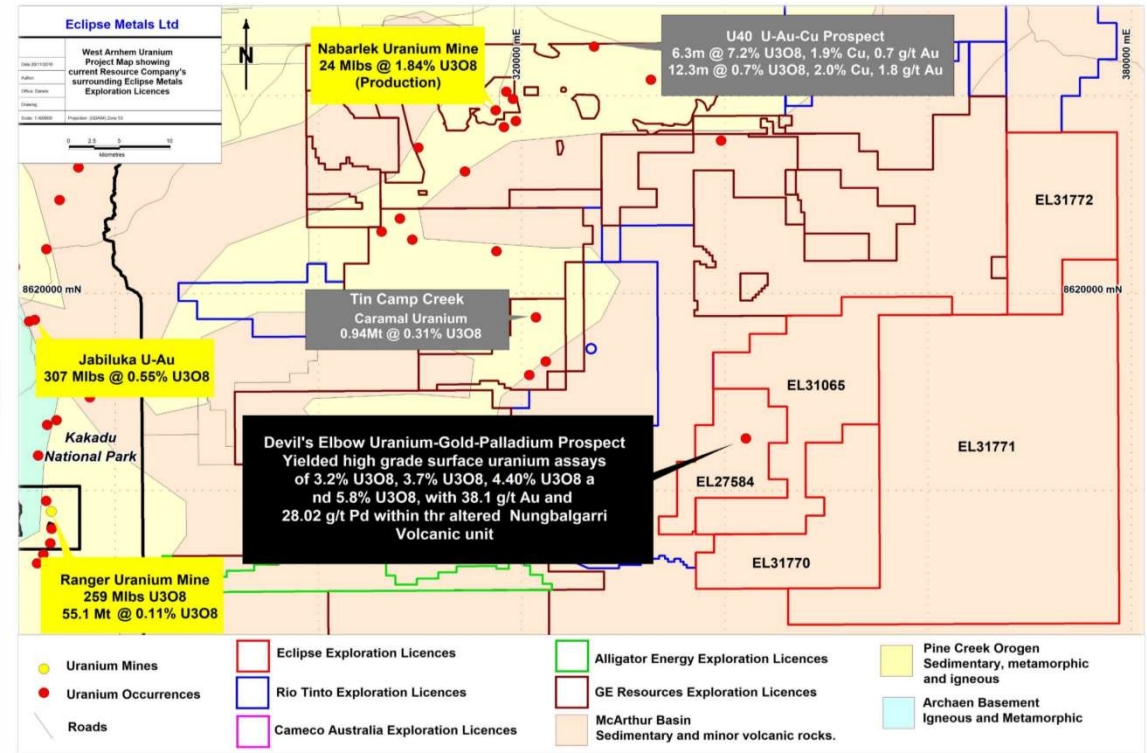


# DEVILS ELBOW

URANERZ &  
CAMECO  
NORTH OF RANGER FAULT

- URANERZ DISCOVERED DEVIL'S ELBOW
- CAMECO EXPLORED AND DRILLED 2002-2009

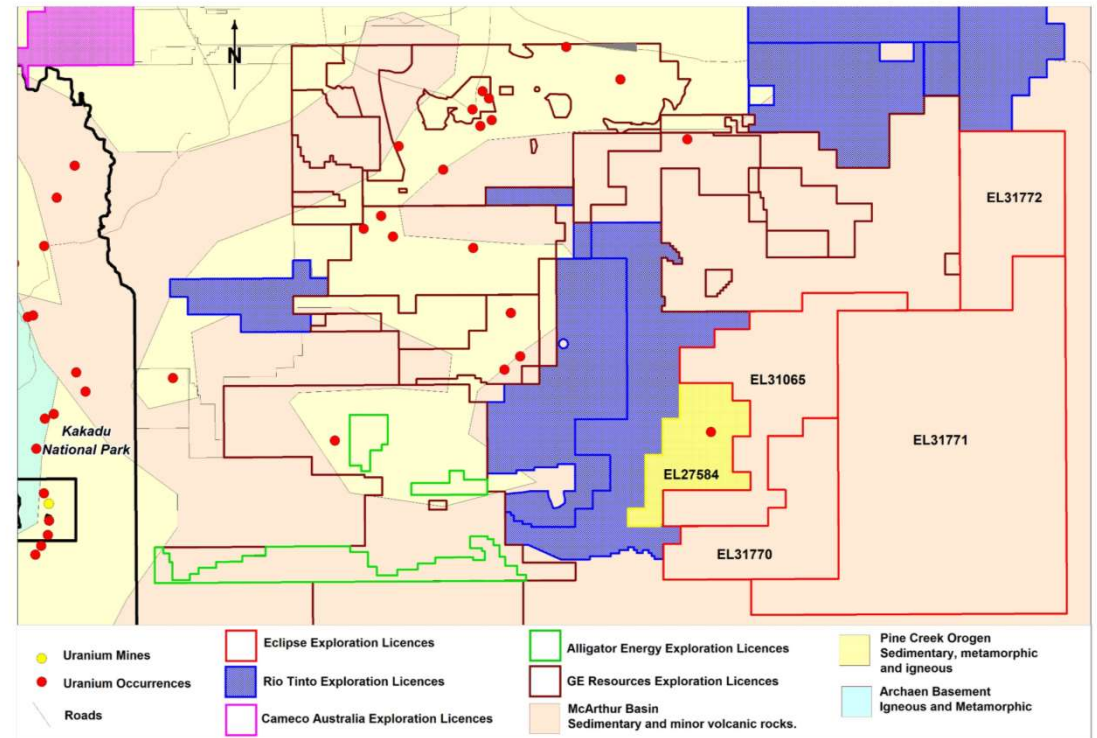
SOUTH OF RANGER FAULT  
UNEXPLORED



# RIO TINTO STORY 2016

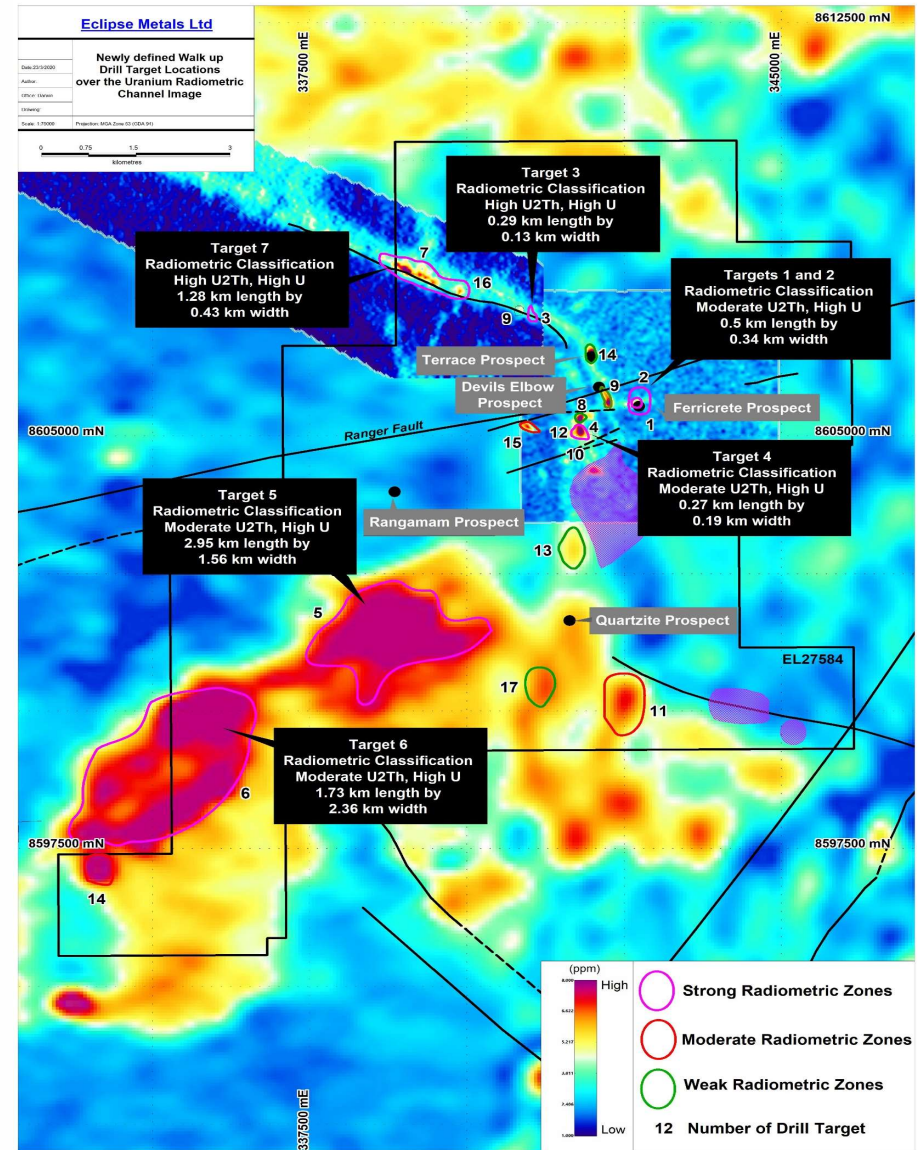
FARM IN & JV WITH ECLIPSE METALS

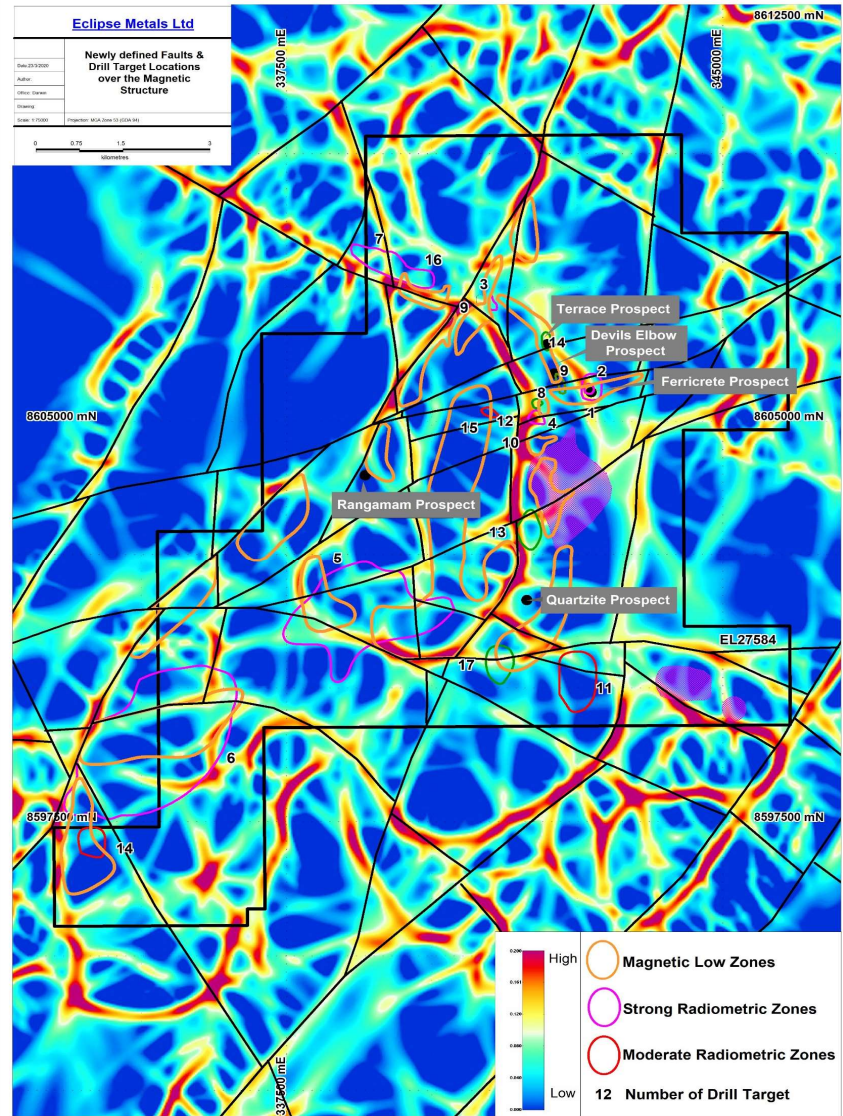
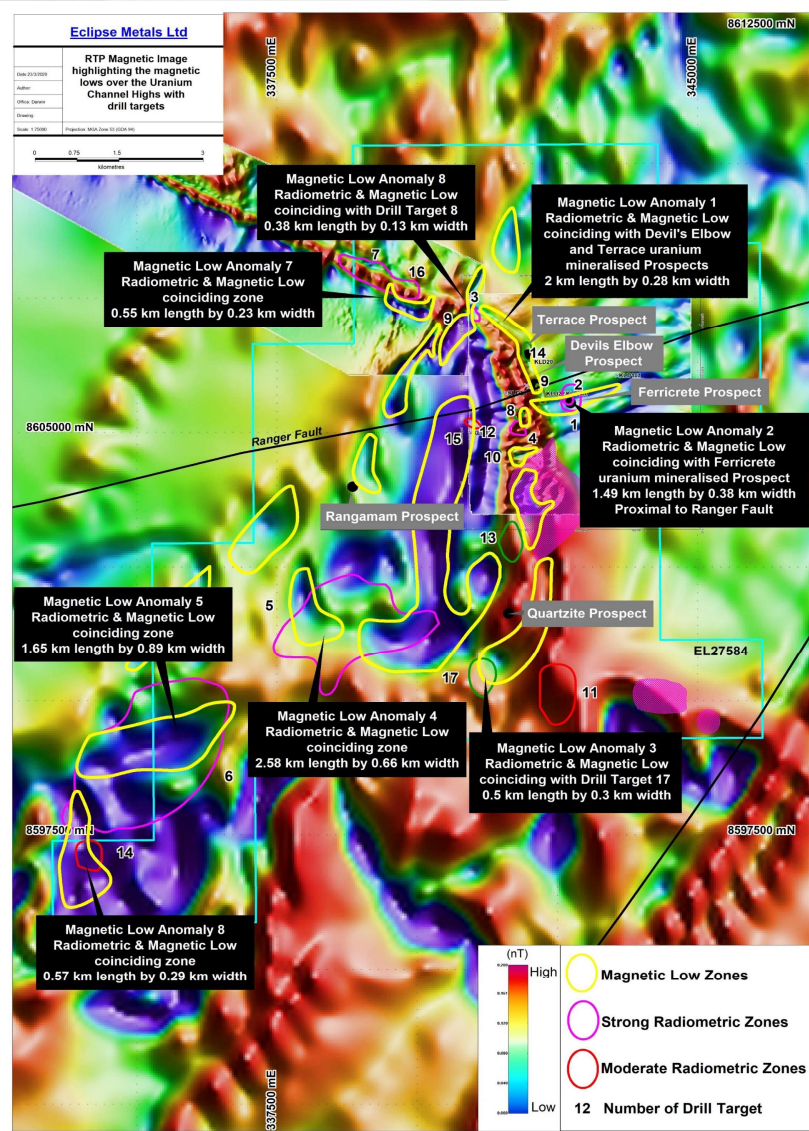
BIG PLAYERS KNOW THE VALUE  
OF MAKING STRATEGIC  
TENEMENT ACQUISITIONS AND  
MAKING INFORMED EARLY STAGE  
DECISIONS TO MAXIMISE THEIR  
PROFITS.



# DEVILS ELBOW

Ground investigation over the Devil's Elbow area has found radioactive boulders with counts up to 24,100cps. Samples taken from the radioactive volcanic boulders assayed 1,720ppmU (0.172% U), 1,210ppmU (0.121% U) with a highest value of 3,300ppm U (0.33% U).





Refer to ASX Announcement - 17 Aug 2020 - Walk Up Drill Targets Defined within Devils Elbow Project

# ACHIEVEMENTS DEVILS ELBOW

**2019 –** SUCCESSFULLY NEGOTIATED A.L.R.A AGREEMENT TO EXPLORE AND MINE ON DEVILS ELBOW

**2020 –** EL27584 GRANTED AND COMMENCEMENT OF EXPLORATION

- 30 SEP 2015 -** LANDMARK DECISION WITH TRADITIONAL LANDOWNERS FOR EXPLORATION MINING OVER DEVIL'S ELBOW URANIUM-GOLD PROJECT
- 22 AUG 2016 -** ENTER INTO JOINT VENTURE FARM-IN WITH RIO TINTO
- 07 DEC 2018 -** JV & FARM-IN CONDITION PRECEDENT NOT SATISFIED BY RIO TINTO, AGREEMENT TERMINATED.
- 18 DEC 2019 -** SUCCESSFULLY NEGOTIATED ABORIGINAL LAND RIGHT AGREEMENT
- 22 JAN 2020 -** MINISTERIAL CONSENT TO GRANT DEVILS ELBOW
- 20 APR 2020 -** WALK UP DRILL TARGETS DEFINED WITHIN DEVIL'S ELBOW PROJECT TENEMENT (AQUIRED GEOPHYSICAL DATA FROM COMECCO)
- 04 JUN 2020 -** DEVILS ELBOW GRANTED BY N.T DEPARTMENT OF FOR PRIMARY INDUSTRY AND RESOURCES
- 16 JUL 2020 -** COMMENCEMENT OF ONSITE EXPLORATION PROGRAM AT DEVILS ELBOW.
- 30 JUL 2020 -** ANOTHER LANDMARK DECISION WITH TRADITIONAL LANDOWNERS FOR EXPLORATION & MINING OVER 2 ADDITIONAL TENEMENTS ELA's 31065 and 31770 ADJOINING SOUTH, EAST AND NORTH OF DEVILS ELBOW.

Refer to ASX Announcement as per above dates.

The logo for Eclipse Metals Ltd features the word "eclipse" in a bold, lowercase sans-serif font. The letter "e" is stylized with an orange crescent shape on its left side. Below "eclipse" is the text "METALS LTD" in a smaller, uppercase, spaced-out sans-serif font.

**eclipse**  
METALS LTD



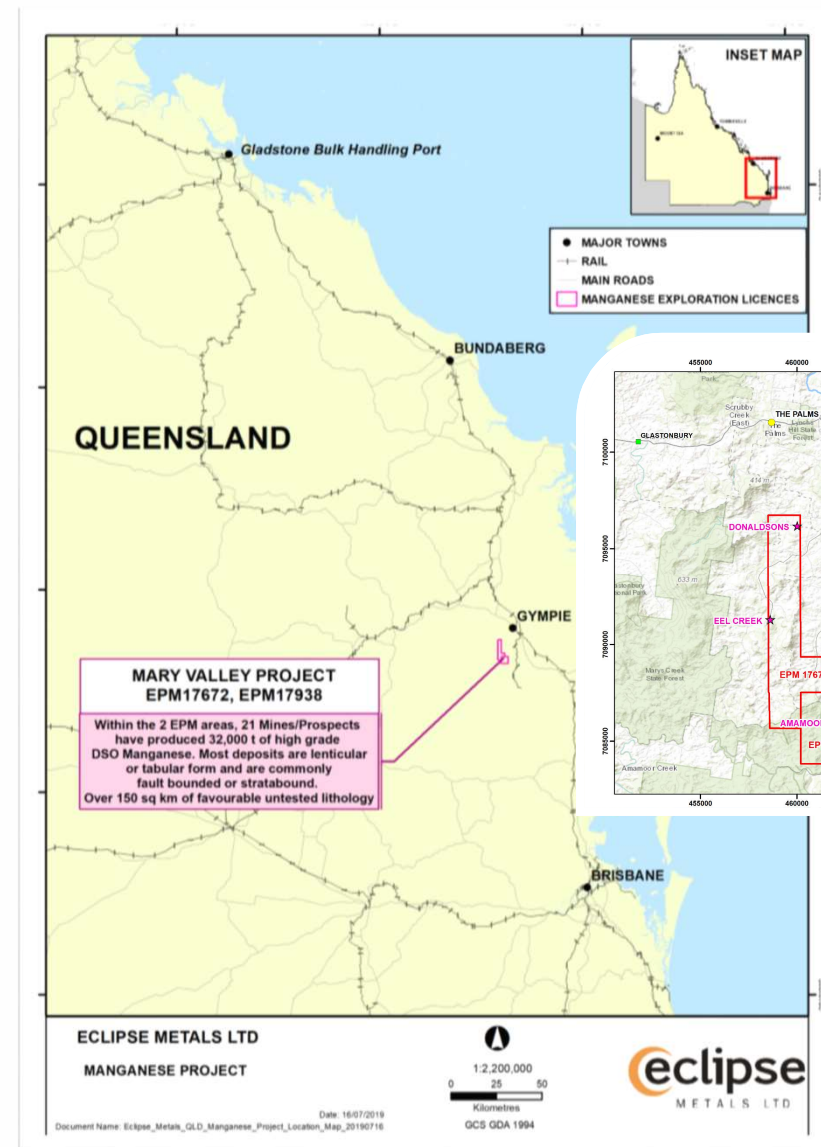
ECLIPSE METALS

**MANGANESE**

**DEPOSITS**

**QUEENSLAND**

# ECLIPSE MANGANESE DEPOSITS



Refer to ASX Announcement and Company website



# WHAT IS MANGANESE?

- Manganese - a silvery-gray metal - resembling iron.
- Manganese is primarily used to improve steel quality, workability and other important pyrometallurgical properties.
- Steel making accounts for between 80-90% of total manganese demand.
- Manganese also finds uses in the manufacture of electrical components, fertilizers, animal food, batteries and non-ferrous alloys (particularly aluminum).
- Widely used in several types of battery.
- Steel containing 8% to 15% of manganese can have a high tensile strength of up to 863 Mpa (Mega Pascals)



# MANGANESE FUN FACT

MANGANESE WAS ADDED BY THE  
SAMURAI TO GIVE THEIR SWORDS  
THE ULTIMATE STRENGTH.



# AMAMOOR MANGANESE





A M A M O O R

# M A N G A N E S E

S T A G E 1

D R I L L / E X P L O R A T I O N

E S T A B L I S H E D

P O T E N T I A L F O R

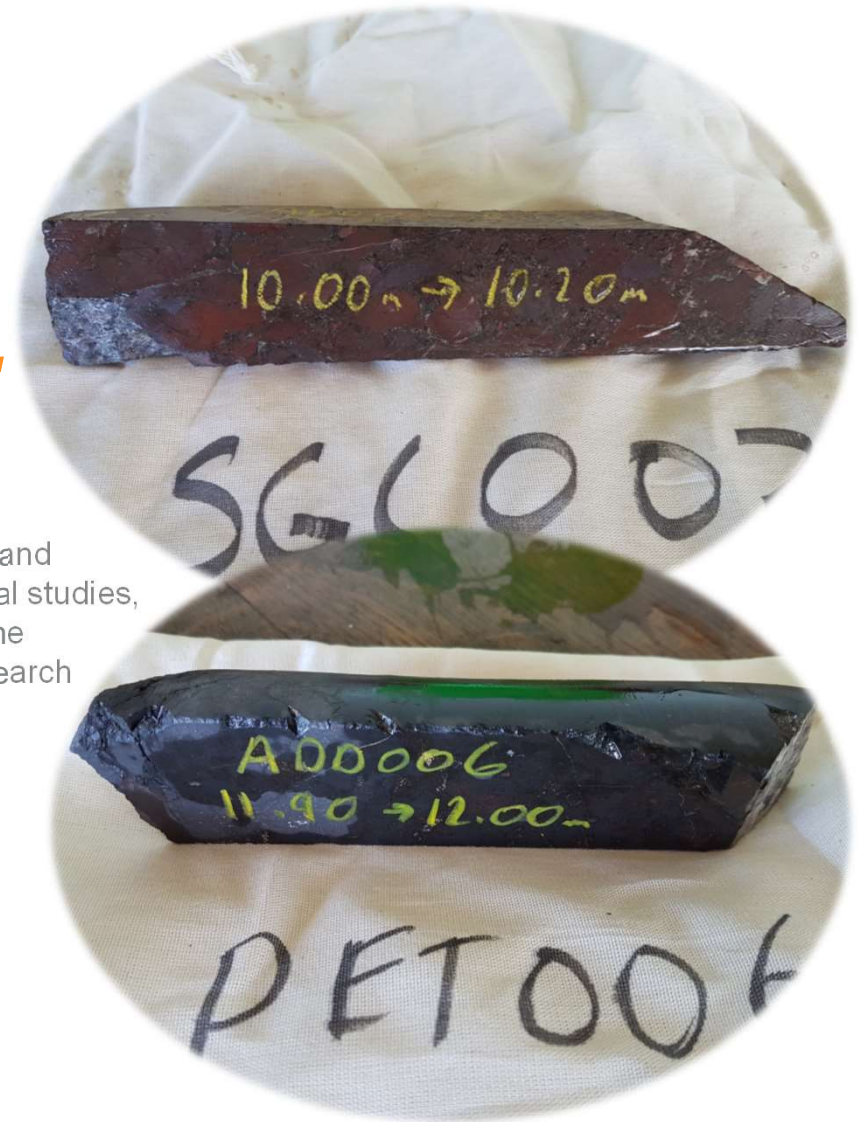
S U B S T A N T I A L N E A R

S U R F A C E R I C H L O D E S

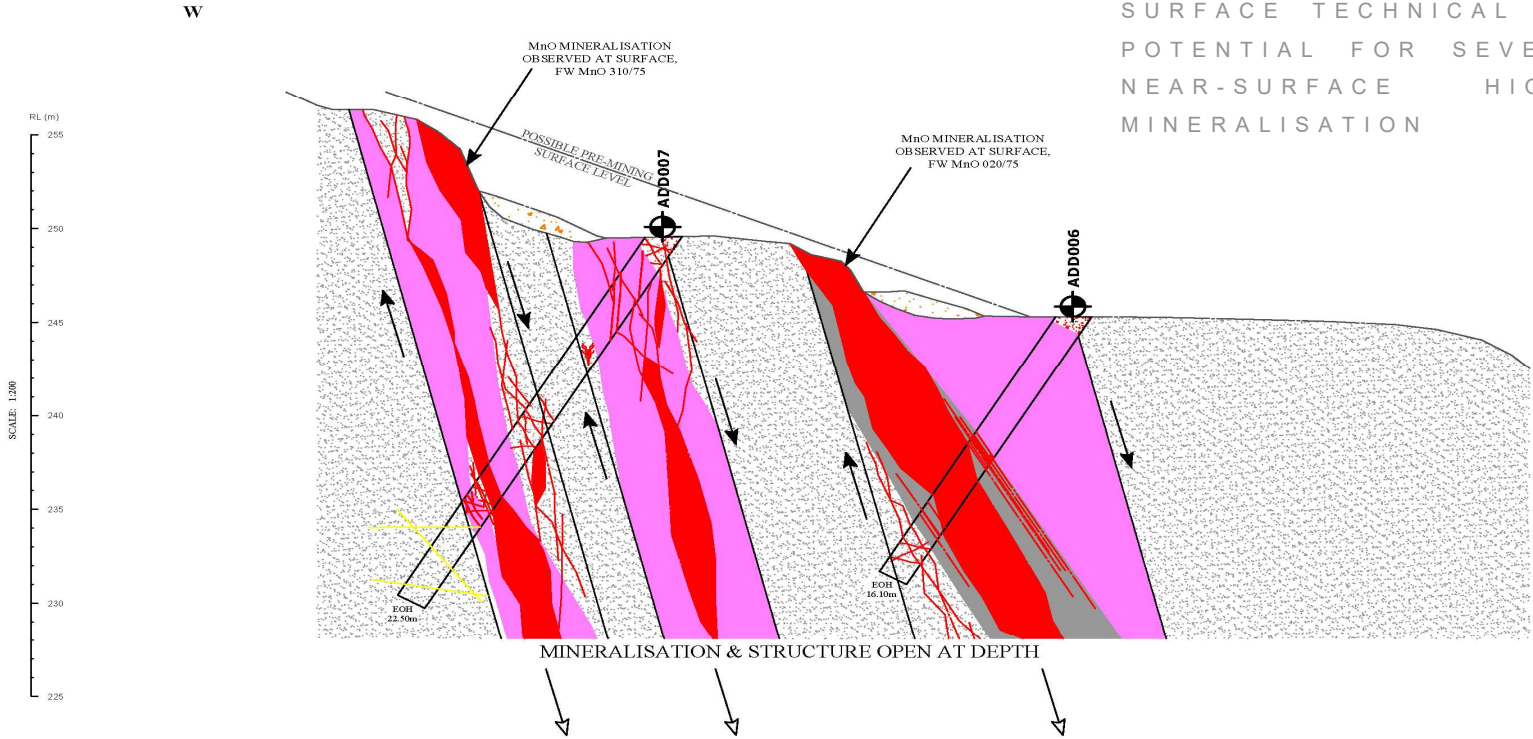


# AMAMOORITE

Predominant manganese minerals identified in drill-core include hausmannite and braunite and a new species of manganese mineral identified during petrological studies, named after this location as **Amamoorite**. This name has been accepted by the International Mineralogical Association (IMA) after study by several senior research establishments.



THE LARGEST MINE ON EPM17938 WAS AT AMAMOOR NO.1 MANGANESE DEPOSIT (Historical production 19,630T @ 51% MN) SURFACE TECHNICAL EVALUATION INDICATED THE POTENTIAL FOR SEVERAL THOUSAND TONNES OF NEAR-SURFACE HIGH GRADE MANGANESE MINERALISATION



UPTO 62% MANGANESE OXIDE

FIGURE 7. ADD006 - ADD007 CONCEPTUAL GEOLOGICAL MODEL

N.B CROSS-SECTION ADAPTED FROM SPITALNY, 2015



LEGEND					
	FLOW BANDED INTERMEDIATE VOLCANIC UNIT		MnO DENDRITES		MnO / Fe2O3 BANDS
	MnO / Fe2O3 FRACTURES		COLLUVIUM / MnO RUBBLE		PRENHITE DOMINANT STRINGERS WITH MINOR CHLORITE / CARBONATE / EPIDOTE (ADAPTED FROM R.TOWNEND, 2018)
	HEMATITIC QUARTZ / CARBONATE ALTERED COARSE ANDESITE WITH mm SIZE PRENHITE VEINS (SUMMARISED FROM R.TOWNEND, 2018)		MASSIVE MnO MINERALISATION WITH HAUSMANTITE, Ca Mn SILICATE AND MANGANOVESUVIANITE (SUMMARISED FROM R.TOWNEND, 2018)		MANGANESE ORE VENED ALTERED VOLCANIC BRECCIA WITH CALCITE, BARTITE, BUSTAMITE AND Mn SILICATE VEINS (SUMMARISED FROM R.TOWNEND, 2018)

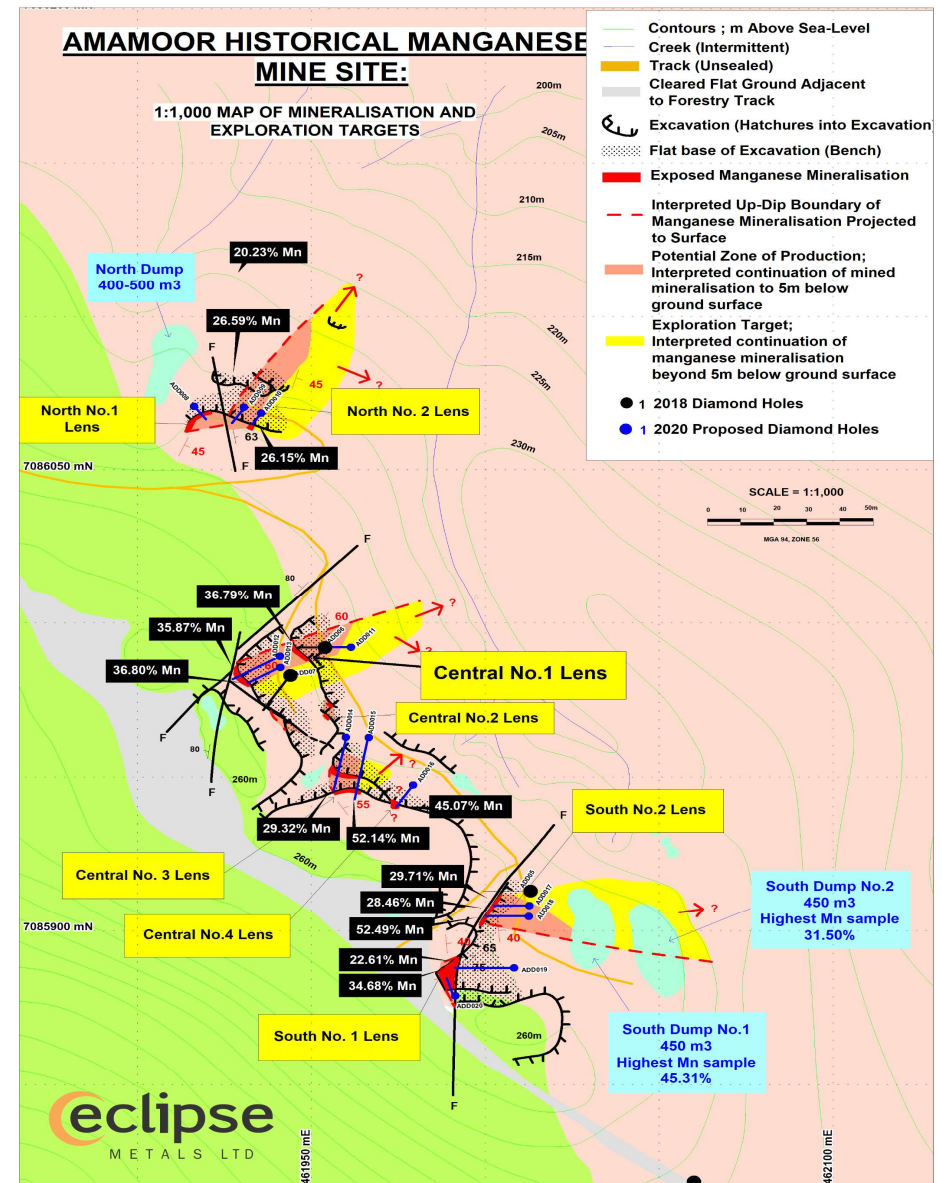
SCALE: 1:200 @ A3	PREPARED FOR:
DRAWING: FIGURE 7	ECLIPSE METALS LTD
DATE: 13/6/2018	
APPROVED BY: RD	LOCATION:
DRAWN BY: KB	AMAMOOR MANGANESE WORKINGS
PROJECT: AMAMOOR	

# STAGE TWO

## DIAMOND DRILLING

2020

- **Stage 1 drilling** - Shallow high grade intersections indicate multiple lenses open in all directions at Amamoor
- 500m diamond drilling program will target extensions of known high grade manganese mineralisation concentrated within the historically mined Amamoor district (historical production 19,630t @ 51% Mn).
- Target areas will be drilled based on previous identification of surface high-grade manganese mineralisation and initial drilling results.



Refer to ASX Announcement - 17 Aug 2020 - STAGE TWO DIAMOND DRILLING COMMENCING IN MARY VALLEY



# MANGANESE

## OUTCROP

AREA IS COVERED WITH  
*EXOTIC WEED* VEGETATION  
COVERING OUTCROP OF  
MANGANESE.

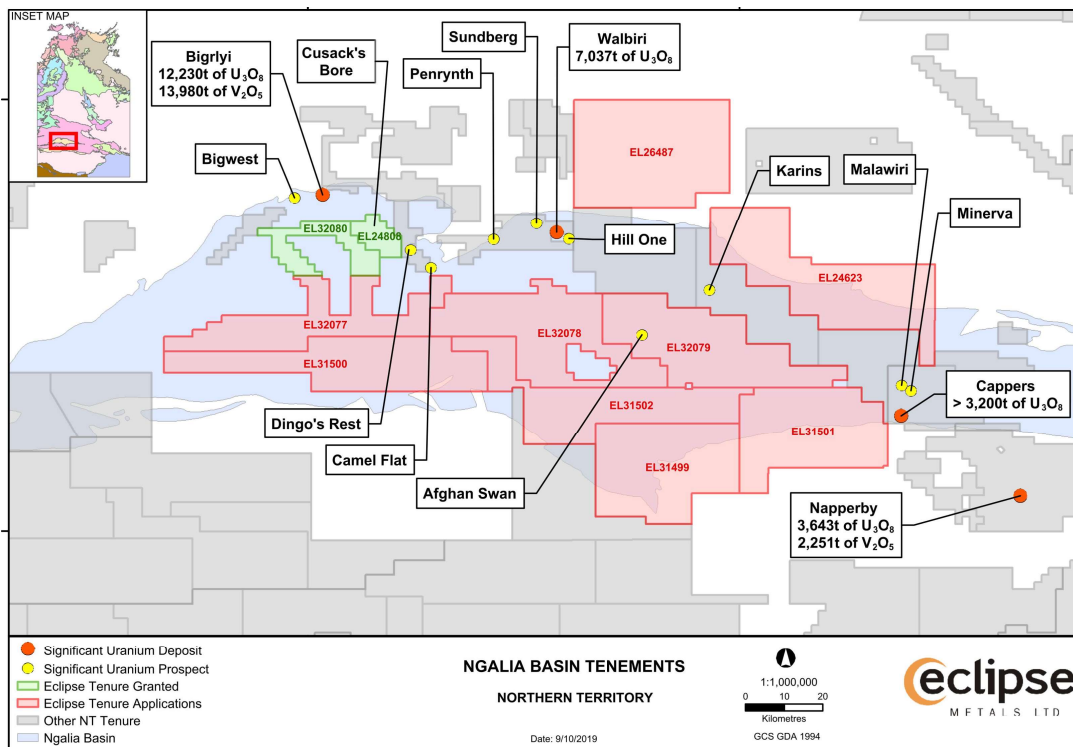
*Exotic Weed*





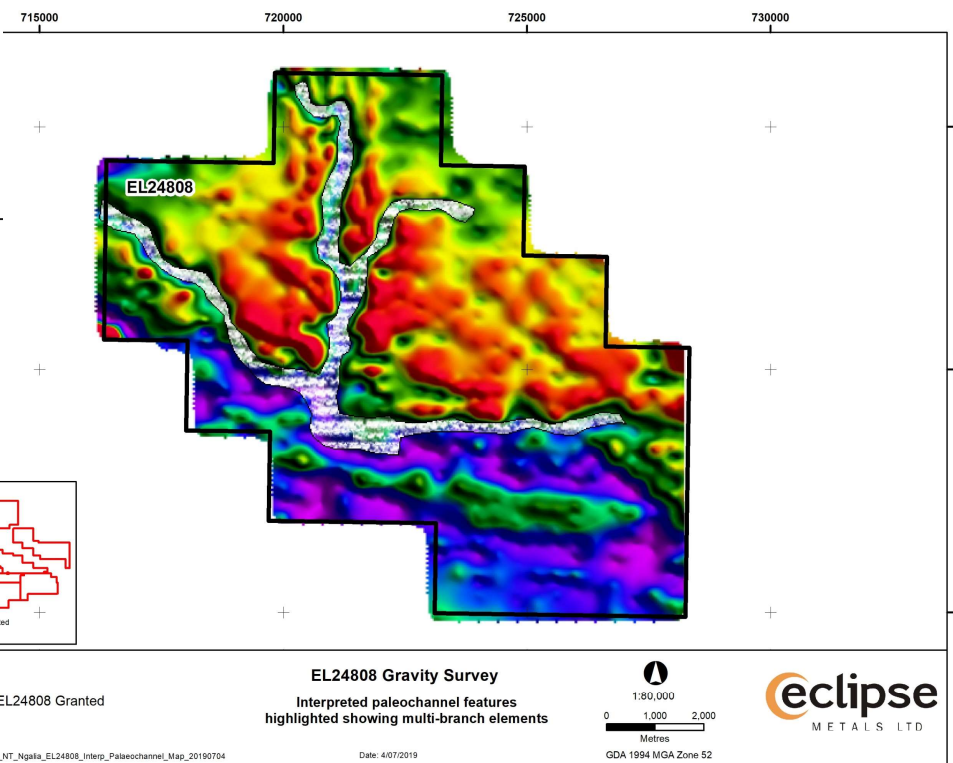
ECLIPSE METALS

**URANIUM/VANADIUM  
NGALIA BASIN – N.T**



### POSITIVE RESULTS FROM GRAVIMETRIC SURVEY ON (CUSACK'S BORE) EL 24808

- MULTI-BRANCH PALEOCHANNEL FEATURE IDENTIFIED WITHIN EL24808\* OBVIOUS TARGET FOR ASSOCIATED URANIUM AND POTENTIAL VANADIUM MINERALISATION
- PREVIOUS EXPLORERS DISCOVERED ANOMALOUS URANIUM VALUES WHILE DRILLING A 15KM LONG SECTION OF PALEOCHANNEL AT THE "AFGHAN SWAN" PROSPECT.



## NGALIA BASIN

THE NGALIA BASIN PROJECT TENEMENTS COVER AN AREA OF 7,150SQKM OF TERRAIN CONSIDERED PROSPECTIVE FOR SANDSTONE PALEOCHANNEL STYLE URANIUM MINERALISATION LOCATED WITHIN AND MARGINAL TO THE NGALIA BASIN, 300KM WEST-NORTHWEST FROM ALICE SPRINGS.

Refer to ASX announcement - 11 Jan 2019 - Positive Progress on Gravimetric Survey over EL24808



An Australian publicly listed exploration and development company, Eclipse Metals Ltd has an impressive portfolio of strategic mineral prospects for uranium, manganese, gold, palladium, vanadium, and base metals.

With multiple projects at different stages of exploration targeting a range of minerals, Eclipse is well positioned to advance despite commodity price cycles.

Exploration of the Company tenements is the primary focus for our highly regarded technical team, and Eclipse is alert to opportunities to acquire additional prospective projects which complement existing assets.

Eclipse boasts a Board with experience, talent and integrity, whose interests are well-aligned with those of its shareholders. Individual Board members significant shareholdings in the Company they manage.



BRIGHT FUTURE

ECLIPSE

CAPITAL RAISING

# OUR MISSION

The Company's mission is to increase Shareholder wealth through capital growth and ultimately, dividends.

Eclipse plans to achieve this goal by exploring for and developing viable mineral deposits to generate mining or joint venture income.



THANK YOU

Eclipse Metals Limited confirms it is not aware of any new information or data that materially affects the exploration results that have been included in this Updated Investor Presentation.