

# NORTHERN<sup>N127</sup> CoBALT

AGM Presentation

24<sup>th</sup> NOVEMBER 2017

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Mr Michael Schwarz is a full-time employee of the company and 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 'Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' and is a member of the Australian Institute of Geoscientists. Mr Michael Schwarz consents to the inclusion in the report of the matters based on his information in the form in which it appears. The information relating to estimates of Mineral Resources and Exploration Targets is extracted from the Northern Cobalt Prospectus created on the 30<sup>th</sup> June 2017 and is available on [www.northerncobalt.com.au](http://www.northerncobalt.com.au). The company confirms that it is not aware of any new information or data that materially affects the information included in the original document and, in the case of Mineral Resources and Exploration Targets, that material assumptions in the relevant documents continue to apply and have not materially changed. The company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original document. This report contains historical exploration results announced on 20 September 2017 as "Prospectus" (historical estimate). The Company confirms it is not in possession of any new information or data relating to the historical estimate that materially impacts on the reliability of the estimates or the Company's ability to verify the historical estimate. Supporting information provided in the announcement of 20 September 2017 continues to apply and has not materially changed.

# CORPORATE OVERVIEW

## Len Dean *Chairman*

Metallurgist, experienced ASX Chairman BHP Marketing Director Iron Ore and Group General Manager Minerals Marketing. MD of India's largest listed Iron Ore Company. Over 50 years industry experience.



## Michael Schwarz *Managing Director*

Michael has over 20 years' senior experience in mineral exploration spanning industry and government as a geologist and in senior management. Michael was previously Managing Director of Monax Mining (ASX:MOX) and has held Directorships with several ASX listed exploration companies.



## Duncan Chessell *Director*

Project Vendor representative non-executive Director of Coolabah Group) with 20+ years experience in business and oil, gas and mineral exploration. BSc, MAusIMM, GAICD.



## Andrew Shearer *Director*

Resource Analyst with PAC Partners (Lead Manager on IPO), Corporate Advisor, Geophysicist with a technical and corporate background. BSc (Hons), MBA



## Capital Structure

Ordinary Shares (m)	36.1
Market Capitalisation (A\$m)	\$18.0
Cash (A\$m) ( <i>raised at IPO 22 September 2017</i> )	\$4.2
Options (\$0.20/sh, 14/9/19) (m)	10.2
Options (\$0.25/sh, 6/9/21) (m)	5.8
Options (\$0.25/sh, 21/03/21) (m)	6.5
Performance Shares - Class A (m)	9.6
Performance Shares - Class B (m)	3.6

## *Performance Shares on JORC Code Project Milestones*

*Class A: upon 6,000t contained Co equivalent*

*Class B: upon 15,000t contained Co equivalent*

# THE COBALT ISSUE

= THE COBALT OPPORTUNITY

The price of cobalt has increased  
from US\$25,000/t in 2016 to  
US\$62,500/t in September 2017\*

But is still HALF of the 2008 High of  
\$115,000/t

\*Source: [www.infomine.com](http://www.infomine.com)

27

Co

58.933

Cobalt

# COBALT DEMAND DRIVER

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The Tesla Model S Source: [www.tesla.com](http://www.tesla.com)

**COBALT'S  
PLACE IN THE  
EXPANDING  
"GREEN  
ECONOMY"**

**ELECTRIC VEHICLE INVESTMENT IS RAMPING UP** – another key driver of demand. Li-ion (cobalt) batteries are also suited to electric vehicles, where weight and energy density are important factors

- Electric vehicles are a key driver for cobalt-based lithium-ion batteries
- Tesla has pledged to build 1 million EV's a year by 2020
- Auto giant Volkswagen has recently stated its intention to become a leader in EV's by 2025
- Chinese government has stipulated that no less than 30% of new vehicles purchased by the government or the public service will be new energy vehicles
- Global demand for EV's estimated to reach ~7 million units in 2020 (compared to 800,000 in 2015)

COMPANIES INVESTING INTO  
ELECTRIC VEHICLES



Mercedes-Benz



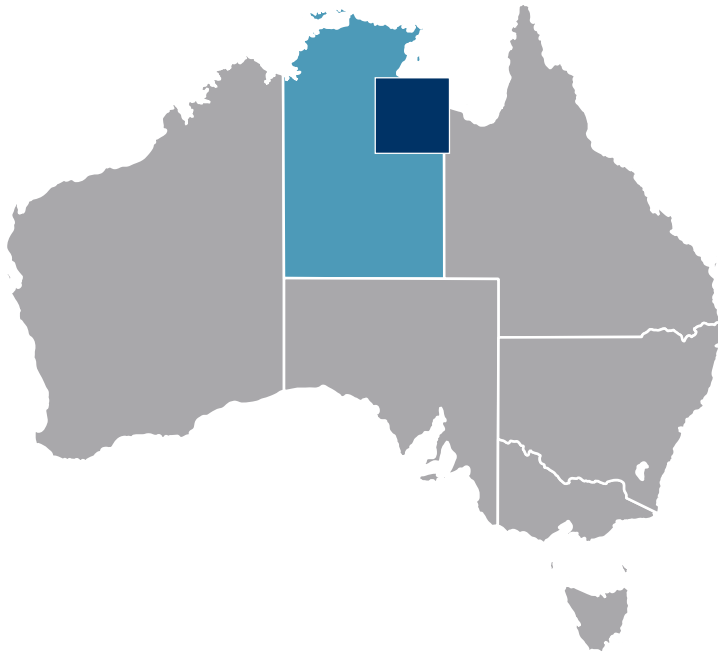
Volkswagen



Google

# ETHICAL COBALT

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Stanton Cobalt Deposit, Northern Territory

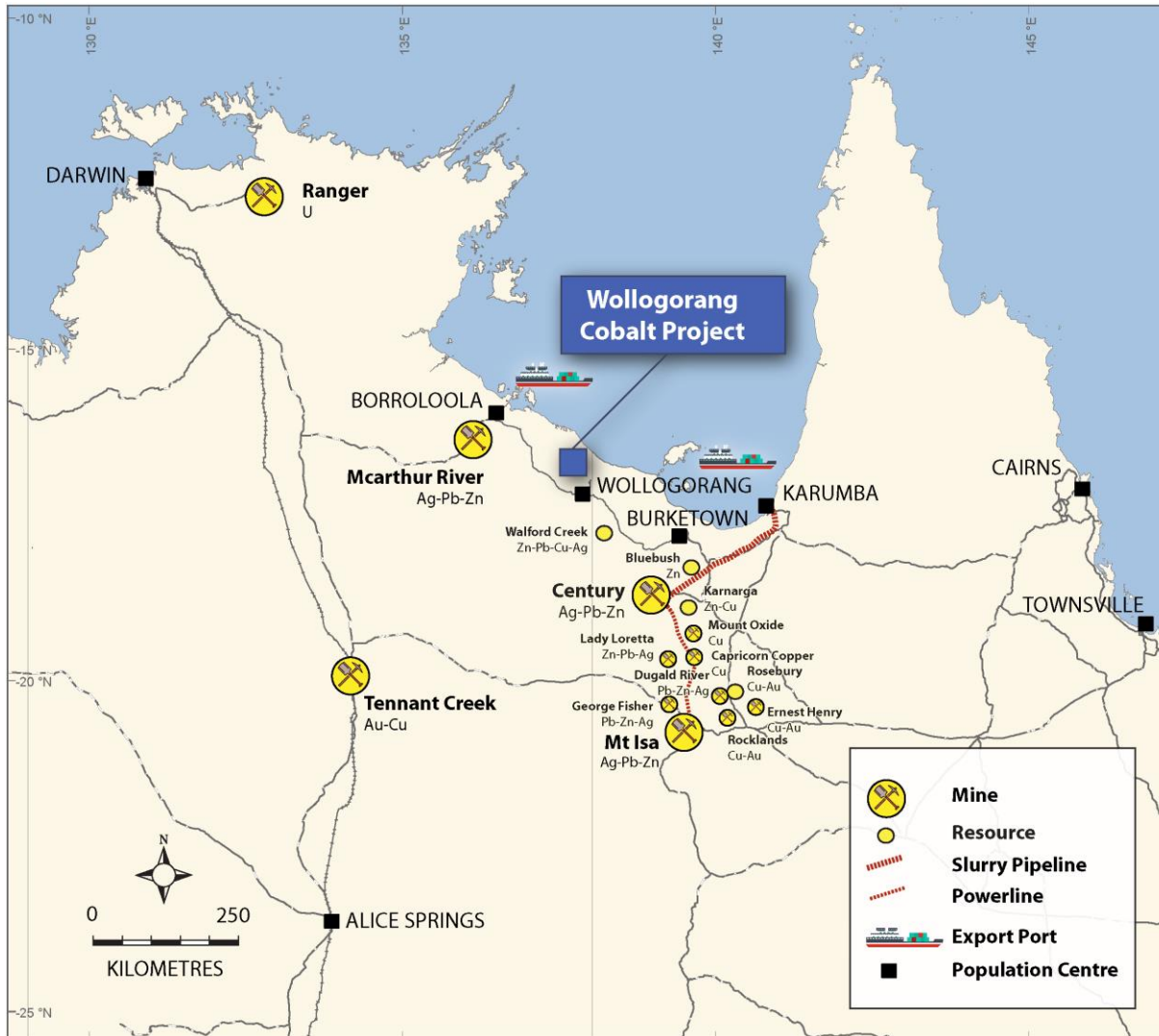
THE STANTON  
COBALT DEPOSIT IS  
IN THE NORTHERN  
TERRITORY,  
AUSTRALIA

- Over 50% of the world's cobalt is currently mined from the Democratic Republic of the Congo (DRC)
- It is a potential recipe to cause instability and volatility in supply and demand, particularly through political instability, such as in 2008, when the price rose to over \$52/lb
- The DRC is also under scrutiny due to the use of child labour and poor working conditions – particularly with artisanal cobalt production
- Organisations such as Tesla and Apple have indicated their preference for using ethically mined cobalt from other countries, which could create a large supply deficit

NORTHERN COBALT has recognised the growing importance of cobalt sourced from developed world jurisdictions

# WOLLOGORANG COBALT PROJECT

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## STANTON COBALT DEPOSIT

- New JORC 2012 compliant Inferred mineral resource of: **500,000 t @ 0.17% Co, 0.09% Ni and 0.11% Cu**
- Mineralisation is
  - **cobalt dominant,**
  - at surface,
  - open in number or directions
- Sulphide concentrate produced via conventional flotation in historic testing

## EXPLORATION TARGET ESTIMATED

An Exploration Target (JORC 2012) of

- 2 Mt grading 0.03 % Co, 0.008 % Ni and 0.5 % Cu to **10 Mt grading 0.12 % Co, 0.06 % ppm Ni and 0.3 % Cu** in the immediate vicinity of Stanton Resource.
- The Exploration Target quantity and grade is highly conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource in any of the prospects.

# PROJECT & PLAN

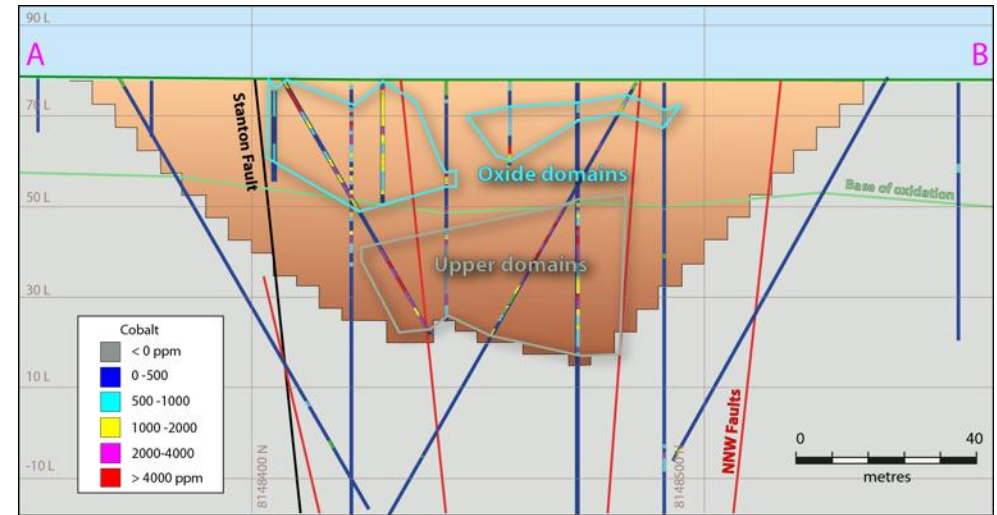
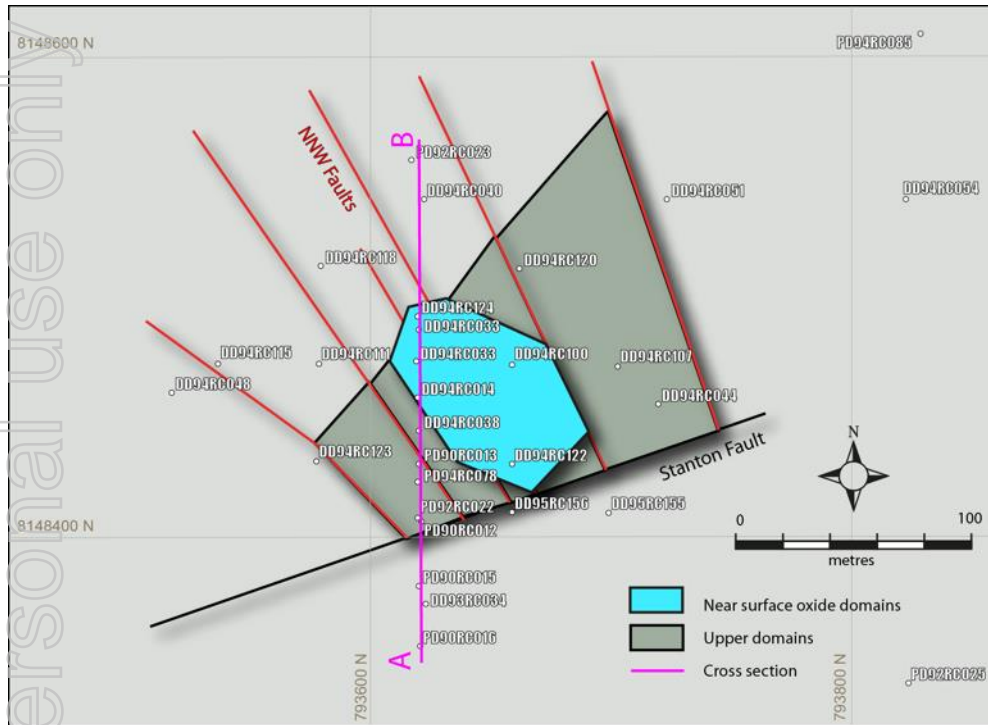
**EXPERIENCED – SKILLED – MOTIVATED –  
PASSIONATE - CONNECTED**





# WOLLOGORANG PROJECT - GEOLOGY

Cross Section Showing Drilling, Domains and Open Pit Optimisation

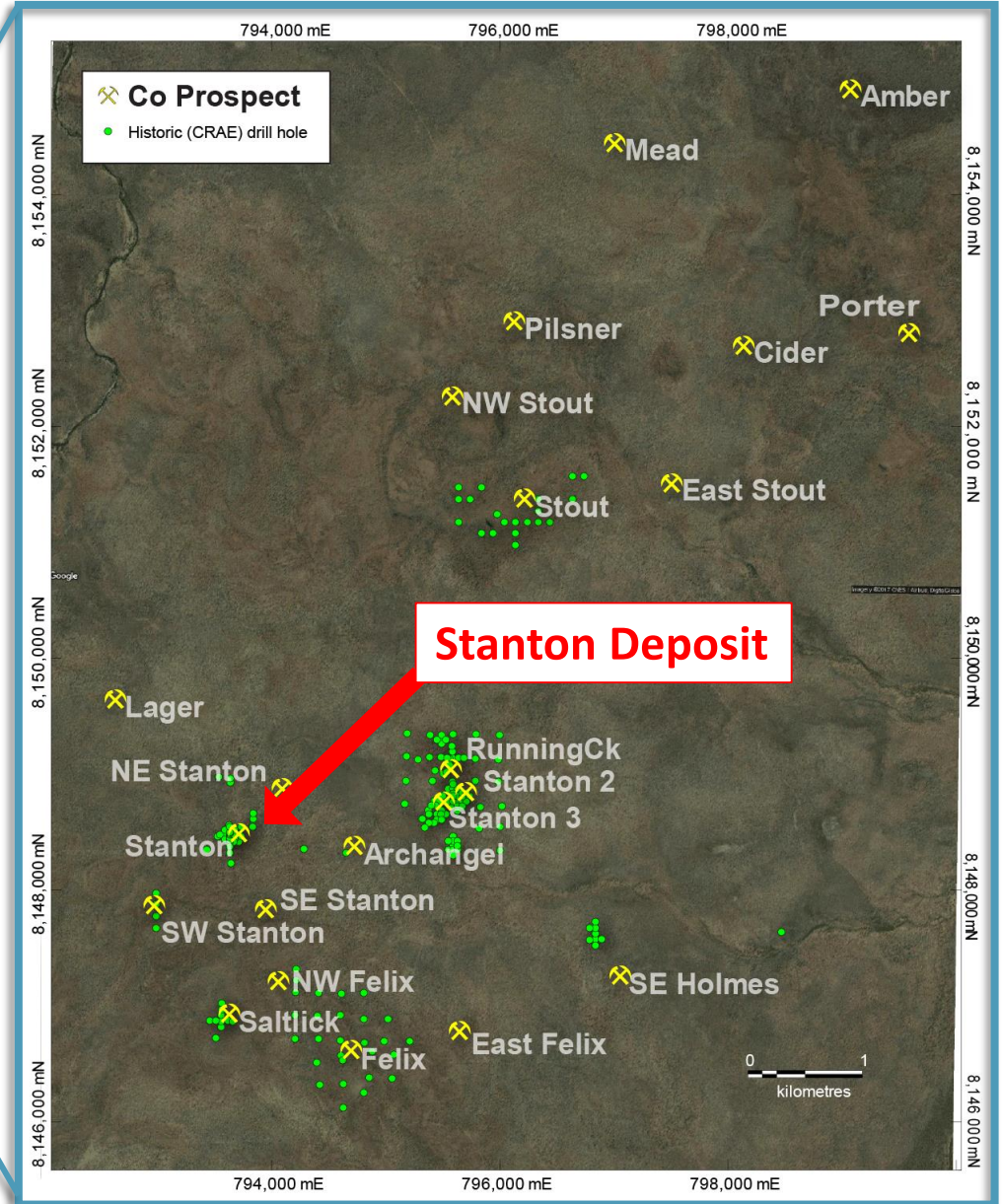
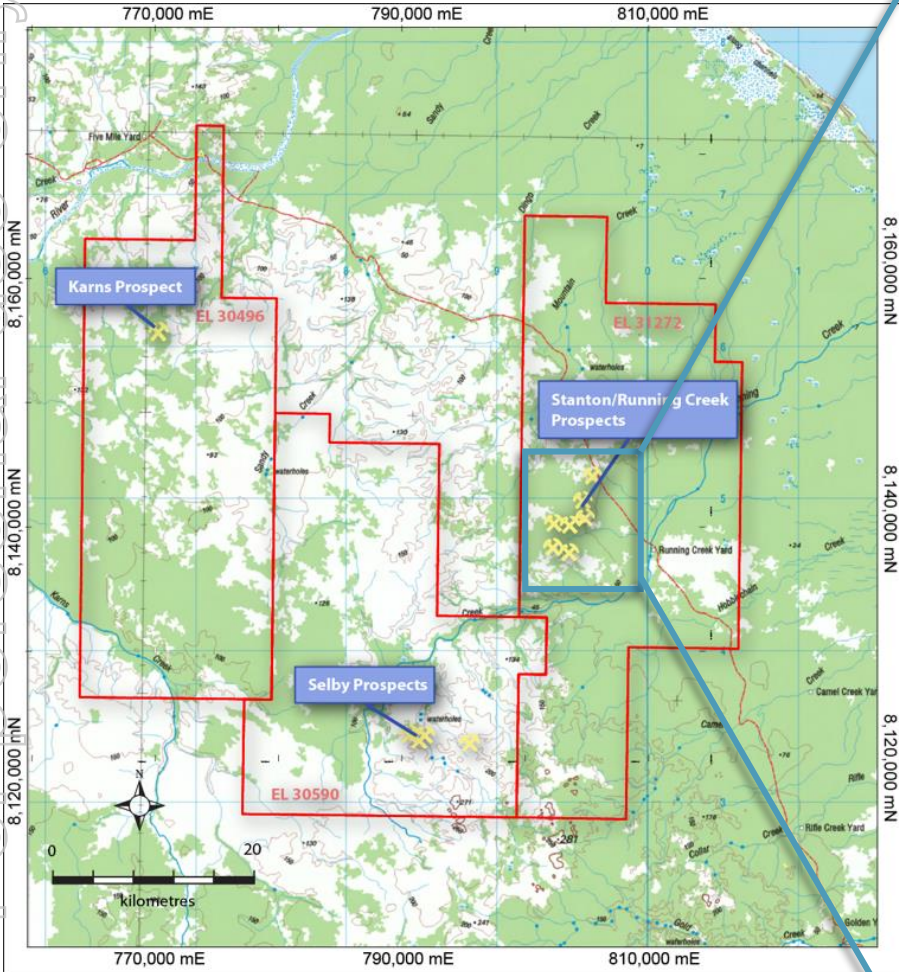


**New JORC 2012 compliant resource of:  
500,000t @ 0.17% Co, 0.09% Ni and 0.17% Cu**

Plan of Stanton Deposit Drilling, Interpreted Faults and Domains

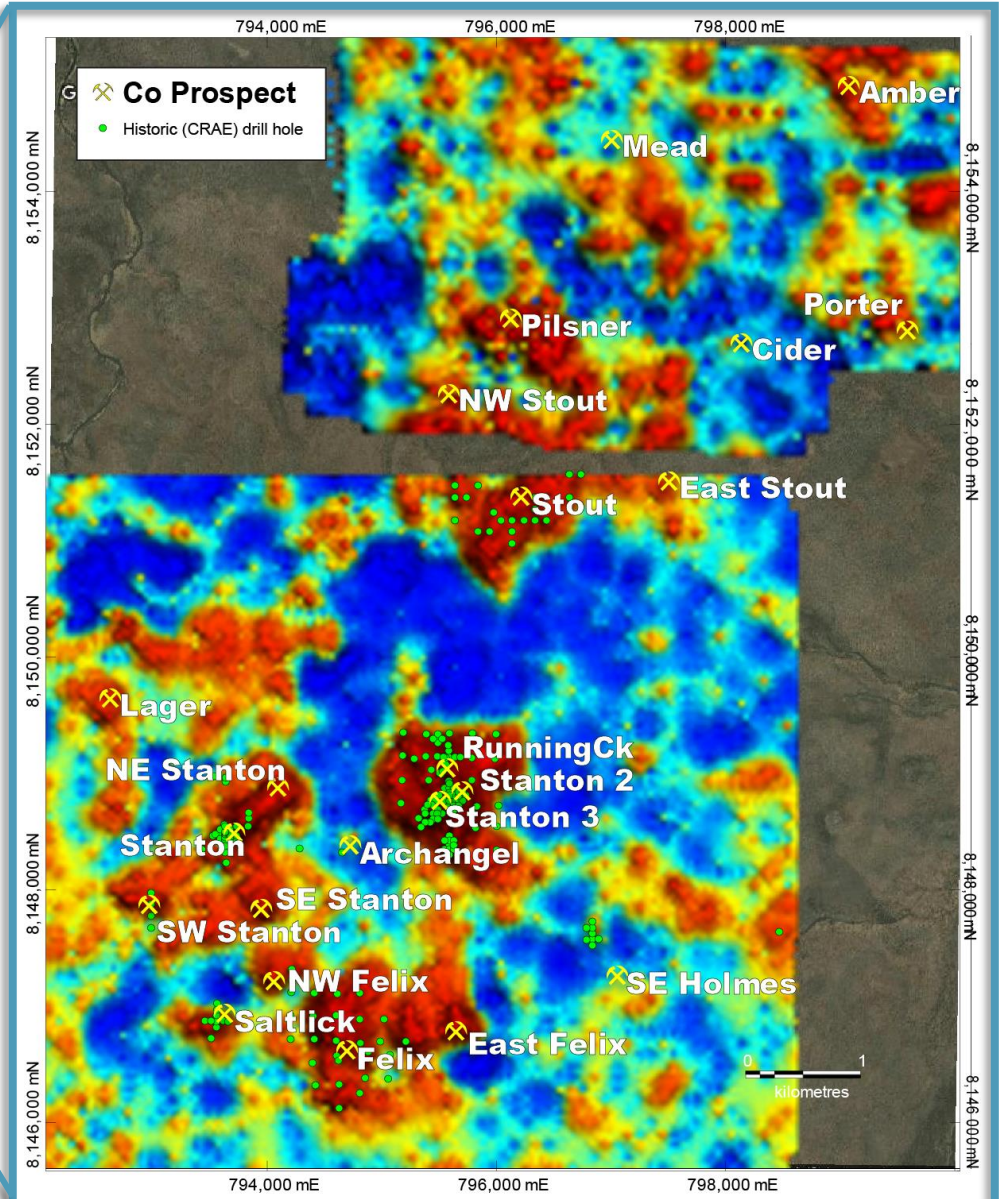
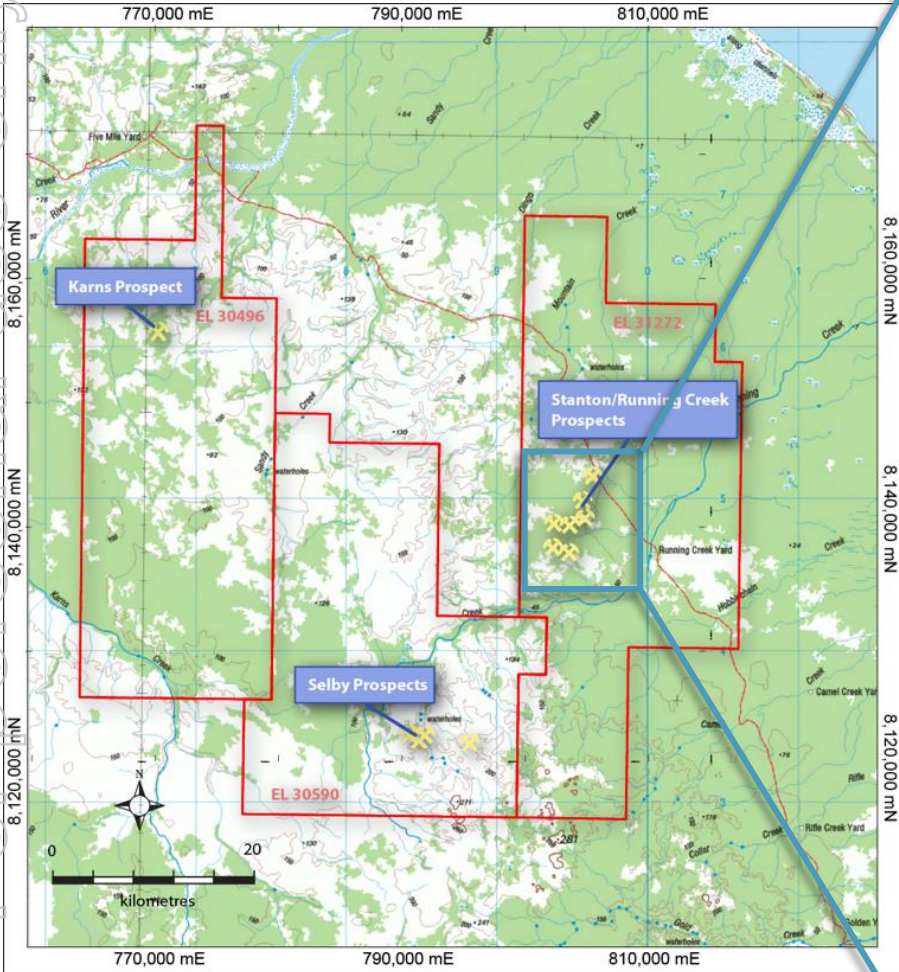
- Several drill holes ended in cobalt mineralisation and have therefore not defined the lower depth of the mineralised sequence.
- Stanton drill hole RC22 terminated in 0.3% Co at 65m at the bottom of a 22m intersection from 43m.
- Opportunity exists in this area to further extend the mineralised system which could lead to conversion into additional resources.

# EXPLORATION POTENTIAL – CRAE Drilling



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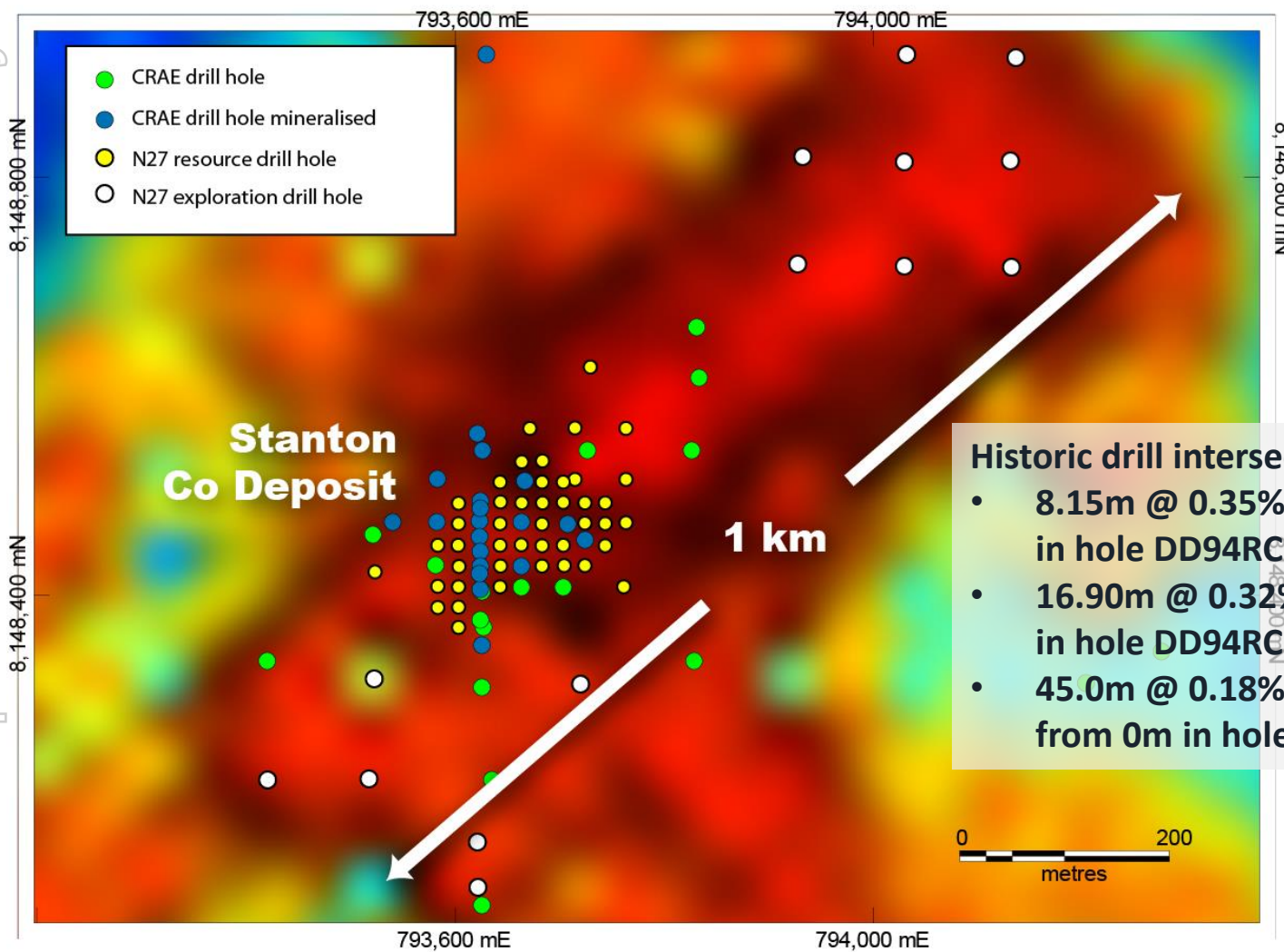
# EXPLORATION POTENTIAL – Surface Geochemistry



Stanton Index =  
Co+Ni+Cu+Mo+Bi+As

# EXPLORATION POTENTIAL – Stanton Co Deposit

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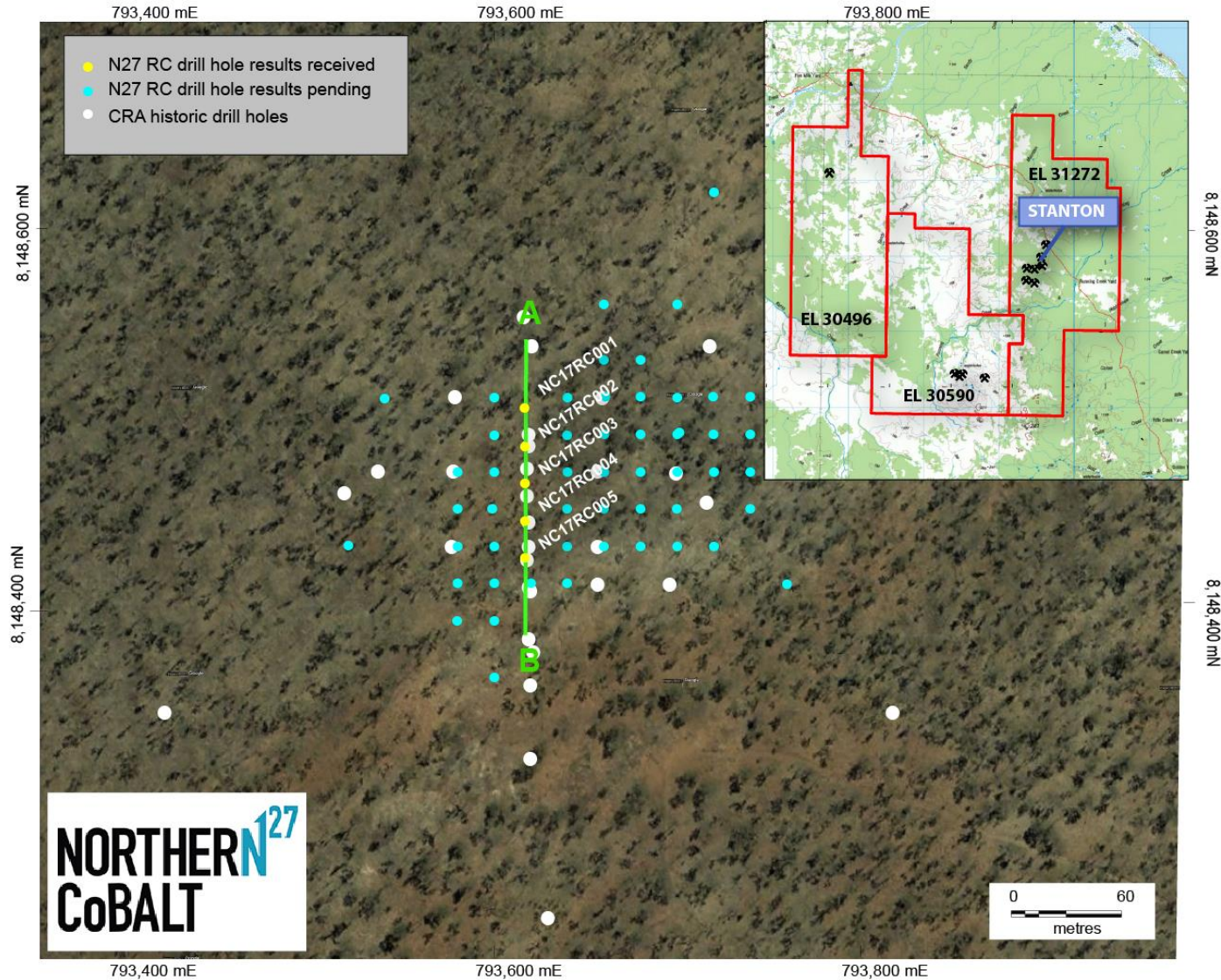
**Historic drill intersections**

- 8.15m @ 0.35% Co, 0.20% Ni from 31.85m in hole DD94RC39
- 16.90m @ 0.32% Co, 0.13% Ni from 19.1m in hole DD94RC100
- 45.0m @ 0.18% Co, 0.17% Ni, 0.23% Cu from 0m in hole DD94RC122

# RESOURCE DRILLING– Stanton Co Deposit

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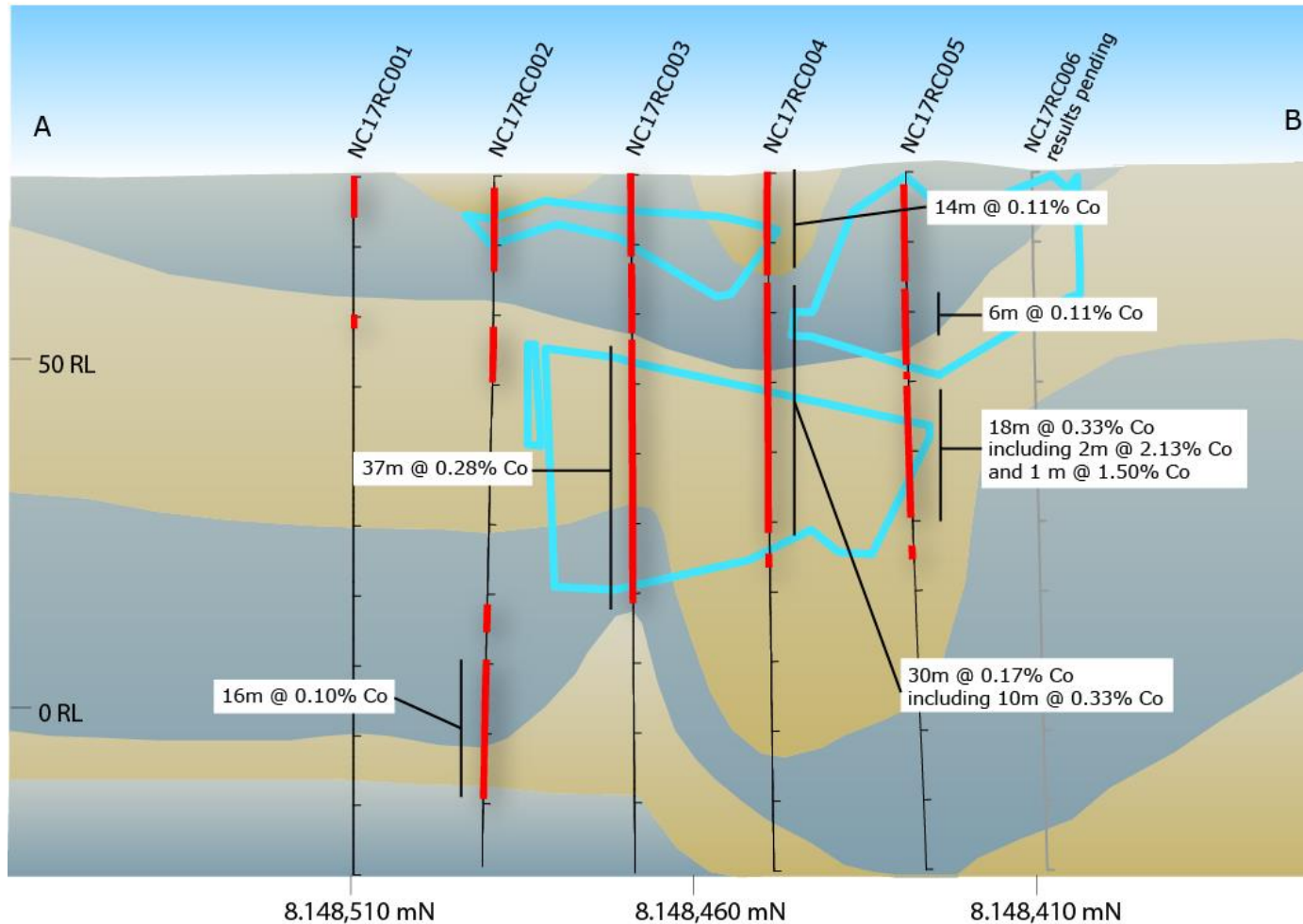
Stanton Cobalt Deposit Northern Cobalt and historic drill hole locations



# RESOURCE DRILLING – Stanton Co Deposit

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Cross section showing Northern Cobalt drill holes without historic drill holes



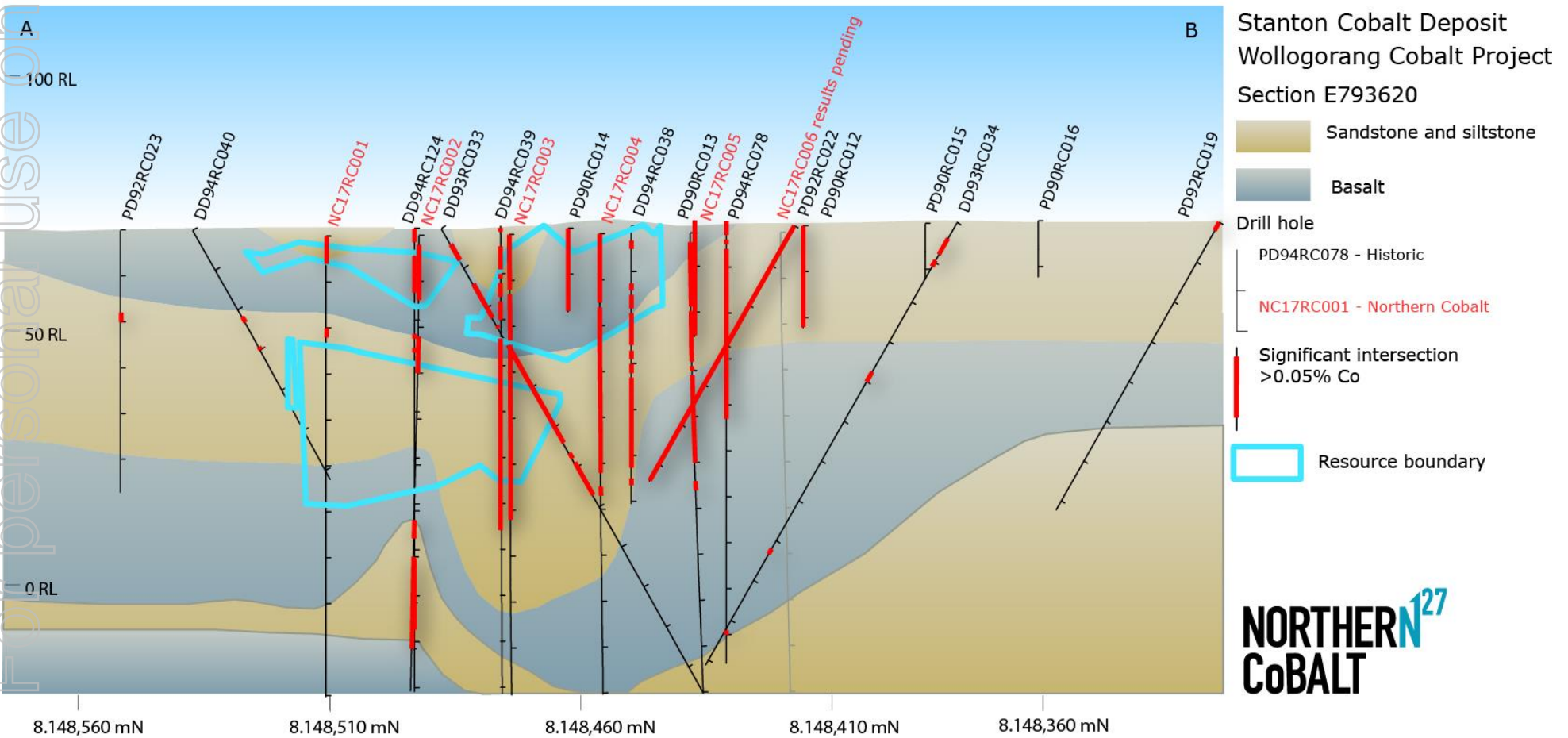
Stanton Cobalt Deposit  
Wollogorang Cobalt Project  
Section E793620

- Sandstone and siltstone
- Basalt
- Drill hole
- Significant intersection >0.05% Co
- Resource boundary

**NORTHERN<sup>127</sup>**  
**CoBALT**

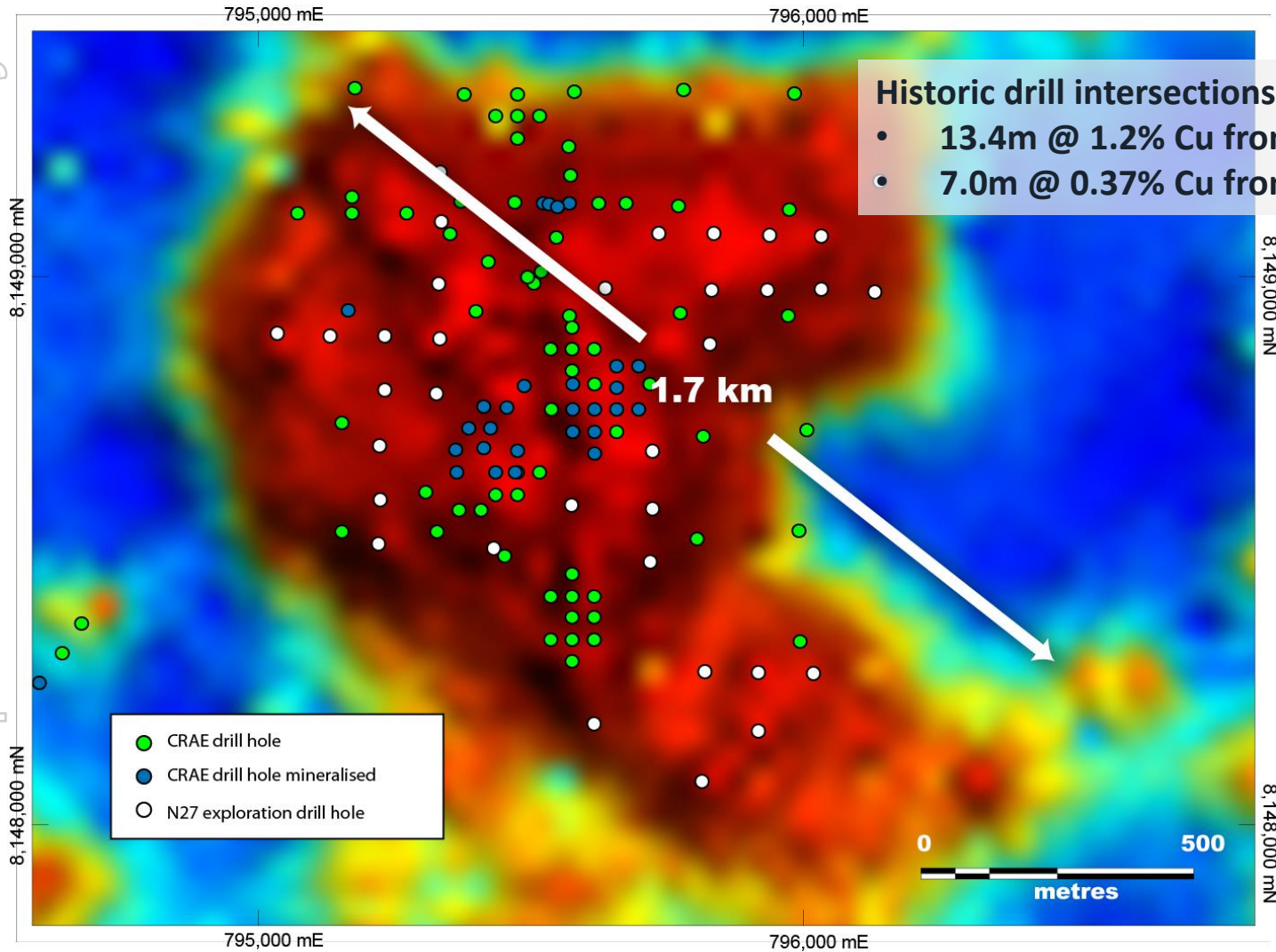
# RESOURCE DRILLING – Stanton Co Deposit

Cross section showing Northern Cobalt drill holes with historic CRA drill holes



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# DRILLING COMPLETED– Running Creek Prospect



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# EXPLORATION POTENTIAL – Wologorang Project

230 drill holes to test cobalt prospects

Current Drilling – NE and SW Stanton

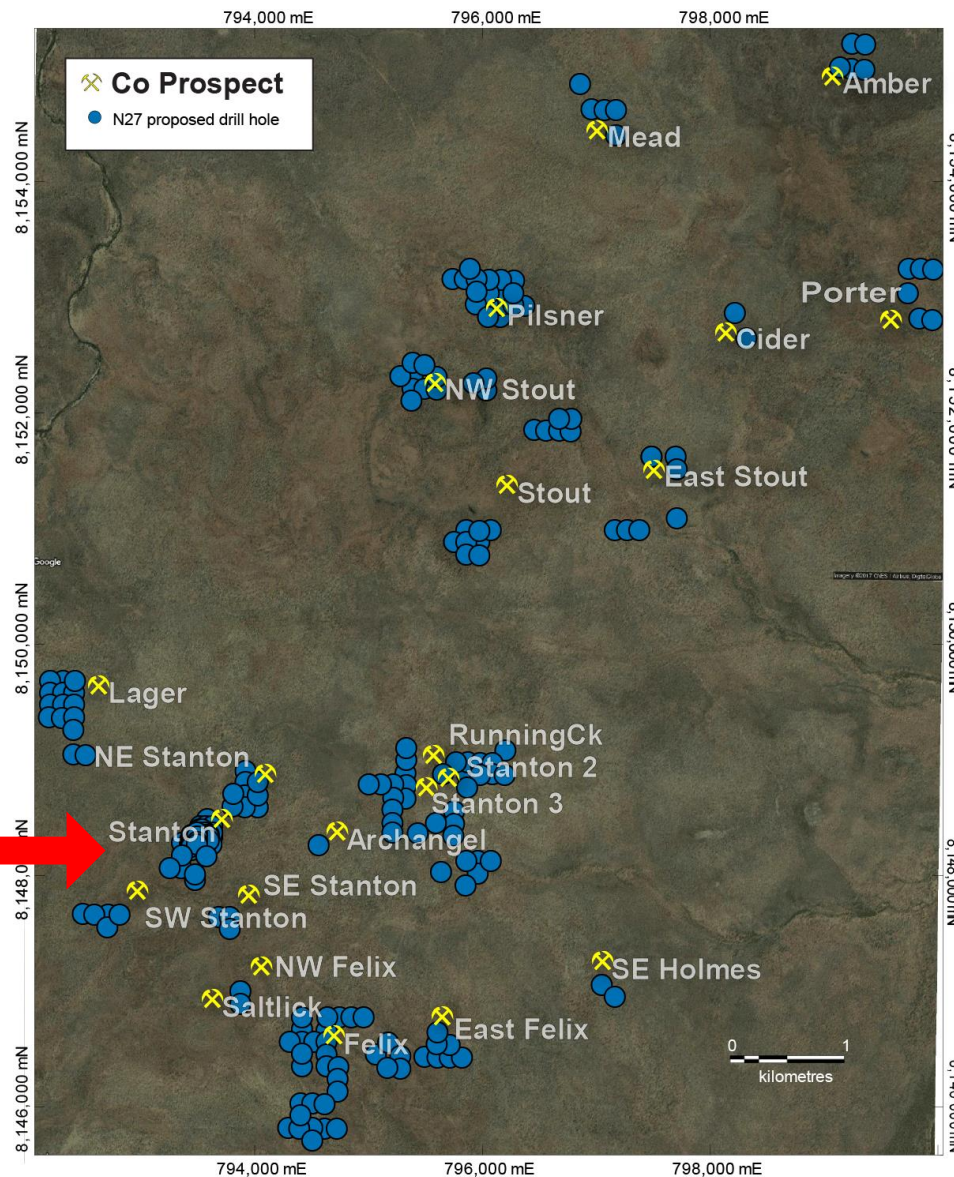
Next Targets

- Felix

and

**Another 17 targets to test  
- within a 10km radius**

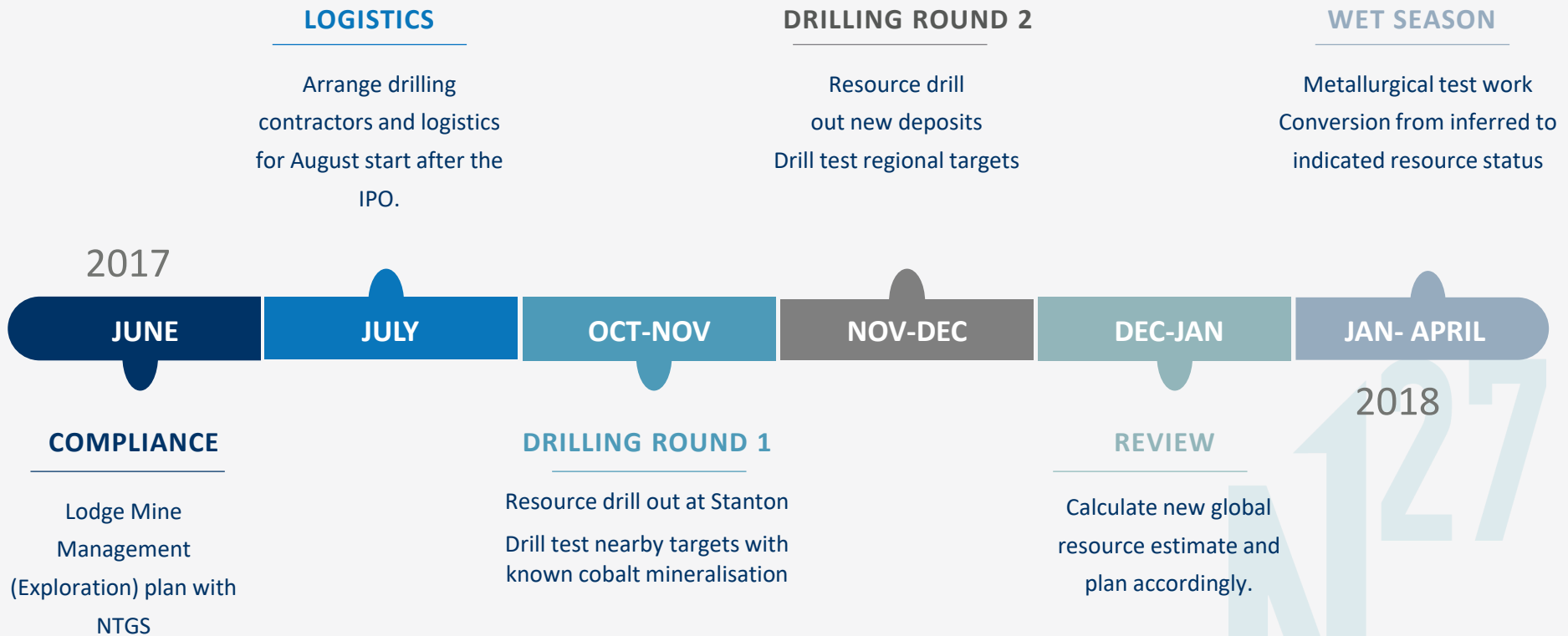
**Stanton Deposit**



# EXPLORATION PLAN

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## YEAR ONE EXPLORATION PLAN



# THANK YOU

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## WEBSITE

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

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**NORTHERN<sup>N127</sup>  
CoBALT**

# SIGNIFICANT DRILL INTERSECTIONS

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Hole_ID	Easting (MGAZ53)	Northing (MGAZ53)	RL (MGAZ53)	Dip	Azimuth (mag)	Total depth (m)	Intercept From (m)	Intercept To (m)	Interval (m)	Co (%)	Cu (%)	Ni (%)
NC17RC001	793620	8148511	75.7	-90	360	100	2	6	4	0.05	0.05	0.03
NC17RC001	793620	8148511	75.7	-90	360	100	20	22	2	0.05	0.33	0.03
NC17RC002	793620	8148490	75.9	-90	360	100	10	14	4	0.05	0.06	0.03
<b>NC17RC002</b>	793620	8148490	75.9	-90	360	100	70	86	<b>16</b>	<b>0.10</b>	<b>0.09</b>	<b>0.06</b>
NC17RC003	793620	8148470	76.1	-90	360	100	5	12	7	0.15	0.24	0.10
NC17RC003	793620	8148470	76.1	-90	360	100	15	16	1	0.19	0.24	0.11
NC17RC003	793620	8148470	76.1	-90	360	100	19	20	1	0.12	0.27	0.17
NC17RC003	793620	8148470	76.1	-90	360	100	22	23	1	0.05	0.13	0.03
<b>NC17RC003</b>	793620	8148470	76.1	-90	360	100	25	62	<b>37</b>	<b>0.28</b>	<b>0.12</b>	<b>0.16</b>
NC17RC004	793620	8148450	76.3	-90	360	100	0	14	<b>14</b>	<b>0.11</b>	<b>0.18</b>	<b>0.06</b>
<b>NC17RC004</b>	793620	8148450	76.3	-90	360	100	20	50	<b>30</b>	<b>0.17</b>	<b>0.07</b>	<b>0.11</b>
<b>including</b>							34	44	<b>10</b>	<b>0.33</b>	<b>0.10</b>	<b>0.17</b>
NC17RC004	793620	8148450	76.3	-90	360	100	55	56	1	0.18	0.00	0.01
NC17RC005	793620	8148430	76.4	-90	360	100	5	9	4	0.08	0.27	0.04
NC17RC005	793620	8148430	76.4	-90	360	100	13	15	2	0.14	0.41	0.05
NC17RC005	793620	8148430	76.4	-90	360	100	17	20	3	0.08	0.10	0.06
<b>NC17RC005</b>	793620	8148430	76.4	-90	360	100	22	28	<b>6</b>	<b>0.11</b>	<b>0.09</b>	<b>0.06</b>
<b>NC17RC005</b>	793620	8148430	76.4	-90	360	100	32	50	<b>18</b>	<b>0.33</b>	<b>0.07</b>	<b>0.08</b>
<b>including</b>							32	33	<b>1</b>	<b>2.13</b>	<b>0.15</b>	<b>0.18</b>
<b>and</b>							44	45	<b>1</b>	<b>1.50</b>	<b>0.15</b>	<b>0.17</b>
NC17RC005	793620	8148430	76.4	-90	360	100	54	55	1	0.08	0.00	0.01

ASX announcement 24 November 2017