SIRIUS RESOURCES NL

TO NOVA AND BEYOND



Mark Bennett, Australian Resources Conference, 14th November 2012, Perth

ASX code: SIR

www.siriusresources.com.au



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The information in this report that relates to Exploration Results and Mineral Resources is based on information compiled by Dr. Mark Bennett, who is an employee of the company. Dr. Bennett is a Member of the Australasian Institute of Mining and Metallurgy and a Fellow of the Australian Institute of Geoscientists and has sufficient experience of relevance to the styles of mineralisation and the types of deposits under consideration, and to the activities undertaken, to qualify as a Competent Person as defined in the 2004 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Dr. Bennett consents to the inclusion in this report of the matters based on information in the form and context in which it appears. Exploration results are based on standard industry practices, including sampling, assay methods, and appropriate quality assurance quality control (QAQC) measures. Reverse circulation (RC), aircore (AC) and rotary air blast (RAB) drilling samples are collected as composite samples of 4 or 2 metres and as 1 metre splits (stated in results). Mineralised intersections derived from composite samples are subsequently re-split to 1 metre samples to better define grade distribution. Core samples are taken as half NQ core or quarter HQ core and sampled to geological boundaries where appropriate. For soil samples, PGM and gold assays are based on an agua regia digest with Inductively Coupled Plasma (ICP) finish and base metal assays may be based on agua regia or four acid digest with inductively coupled plasma optical emission spectrometry (ICPOES) or atomic absorption spectrometry (AAS) finish. In the case of reconnaissance RAB, AC, RC or rockchip samples, PGM and gold assays are based on lead or nickel sulphide collection fire assay digests with an ICP finish, base metal assays are based on a four acid digest and inductively coupled plasma optical emission spectrometry (ICPOES) and atomic absorption spectrometry (AAS) finish, and where appropriate, oxide metal elements such as Fe, Ti and Cr are based on a lithium borate fusion digest and X-ray fluorescence (XRF) finish. Sample preparation and analysis is undertaken at Genalysis Intertek and Ultratrace laboratories in Perth, Western Australia. The quality of RC drilling samples is optimised by the use of riffle and/or cone splitters, dust collectors, logging of various criteria designed to record sample size, recovery and contamination, and use of field duplicates to measure sample representivity. The quality of analytical results is monitored by the use of internal laboratory procedures together with certified standards, duplicates and blanks and statistical analysis where appropriate to ensure that results are representative and within acceptable ranges of accuracy and precision. Exploration results obtained by other companies and quoted by Sirius have not necessarily been obtained using the same methods or subjected to the same QAQC protocols. These results may not have been independently verified because original samples and/or data may no longer be available. Where quoted, nickel-copper intersections are based on a minimum threshold grade of 0.5% Ni and/or Cu and gold intersections are based on a minimum gold threshold grade of 0.1g/t Au unless otherwise stated. Intersections are calculated using standard industry practice length and density weighting methods. All sample and drillhole co-ordinates are based on the GDA/MGA grid and datum unless otherwise stated.



KEY CORPORATE METRICS

ASX Code	SIR
Shares on issue	191.4 m
Share options (Ave Ex Price ~58.8c)	48.5 m
Performance Shares (unlikely to vest)	2.2 m
Cash (as of end Sep 2012 – excluding subsequent option exercise income & exploration expenditure)	A\$17.3 m
Market Cap (at \$2.60, fully diluted)	A\$623 m
Enterprise Value (ditto)	A\$606 m





Substantial Shareholder - Mark Creasy (~24%)

With a further 8 million 60 cent December 2012 options yet to be exercised (ie, A\$4.8 million of potential income), Sirius is fully funded to drill Nova to JORC Resource status, to drill the adjacent EM anomalies, and to explore its other targets at Fraser Range



WHO WE ARE & WHAT WE DO

Board of Directors

Mr Steve Lowe Non-Executive Chairman	Accountant, tax specialist, business manager for Mark Creasy (Sirius' major shareholder)
Dr Mark Bennett Managing Director & CEO	Geologist, former exploration manager of LionOre, discoverer of the Thunderbox gold mine, and the Waterloo nickel mines. Involved in discovery of Lounge Lizard and Banfora. 2003 Prospector of the Year
Mr Terry Grammer Non-Executive Director	Geologist, co-discoverer of Jubilee's Cosmos nickel mine, founder of Western Areas. Chairman of South Boulder Mines. 2000 Prospector of the Year
Mr Jeff Foster Technical Director	Geologist, former WMC diamond specialist, BHP nickel specialist, co-founder of Geodiscovery Group, consultant to Anglo American plc, Associate Professor at Univ. of Tasmania

Director/Company Officer

Anna Neuling	Accountant, former auditor (Deloittes) and financial controller and Chief Financial Officer of various ASX listed
Non-Executive Director, CFO and	companies
Company Secretary	

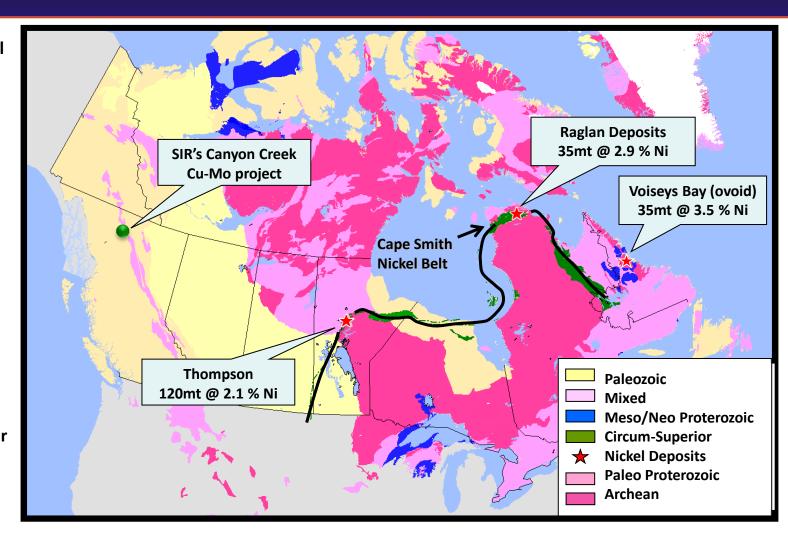
JV Partner

	Prospector, entrepreneur, discoverer of the Bronzewing gold mine, 1993 inaugural Australian Prospector of the
Mr Mark Creasy	Year
JV partner & major shareholder	Joint Venture provides Mark Creasy with a 30% free carried interest in Sirius' projects through to completion of a BFS



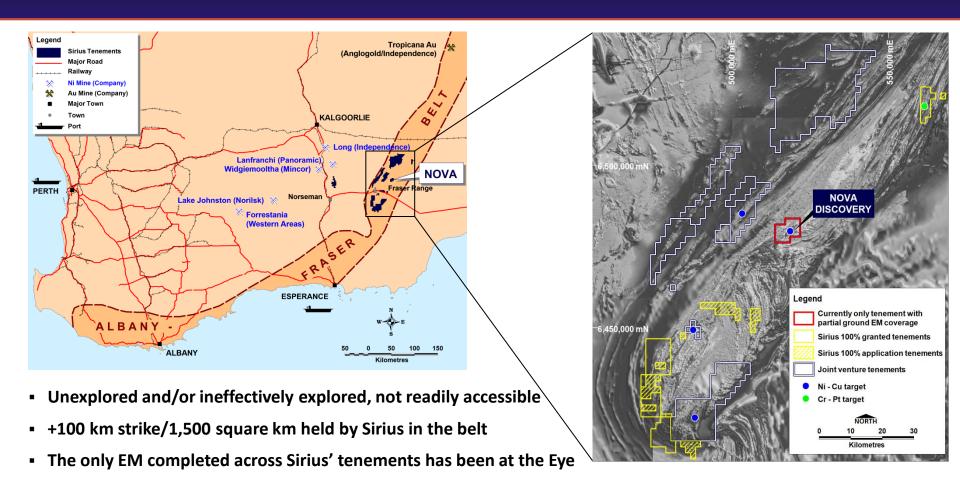
OUR CANADIAN COUSINS

- Three giant nickel mining centres
- Each one is a cluster of several deposits
- The circum-Superior belt fringes the Archaean craton
- Just like the
 Proterozoic Fraser
 Range Complex
 fringing the SE
 margin of the
 Archaean Yilgarn
 craton in Australia





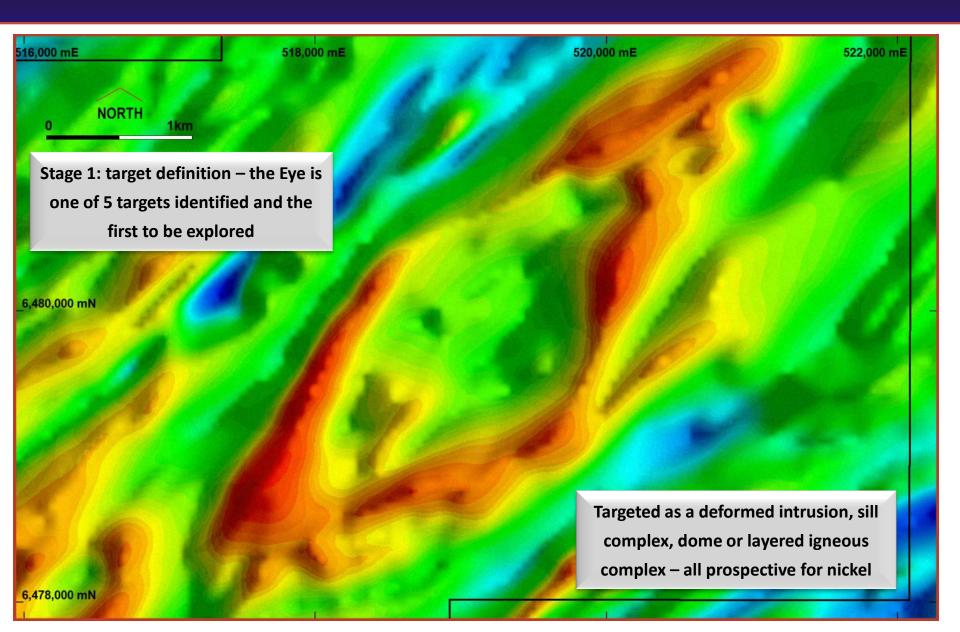
FRASER RANGE JOINT VENTURE



- 70% interest through a JV with Mark Creasy (30%) who is free carried to completion of BFS
- Majority of this new nickel-copper province held by Sirius and its major shareholder and JV partner, Mark Creasy
- Prospective for Proterozoic circum-cratonic intrusive-associated magmatic Ni-Cu deposits like those in Canada
- Only 30km to the sealed Eyre Highway and then to export port of Esperance



DISCOVERY - THE EYE





DISCOVERY – NO FRILLS, LOW BUDGET

Stage 2: soil sampling

Crack soil sampling team - 2 vacation students: Chris Thaus and Shaun Hocking

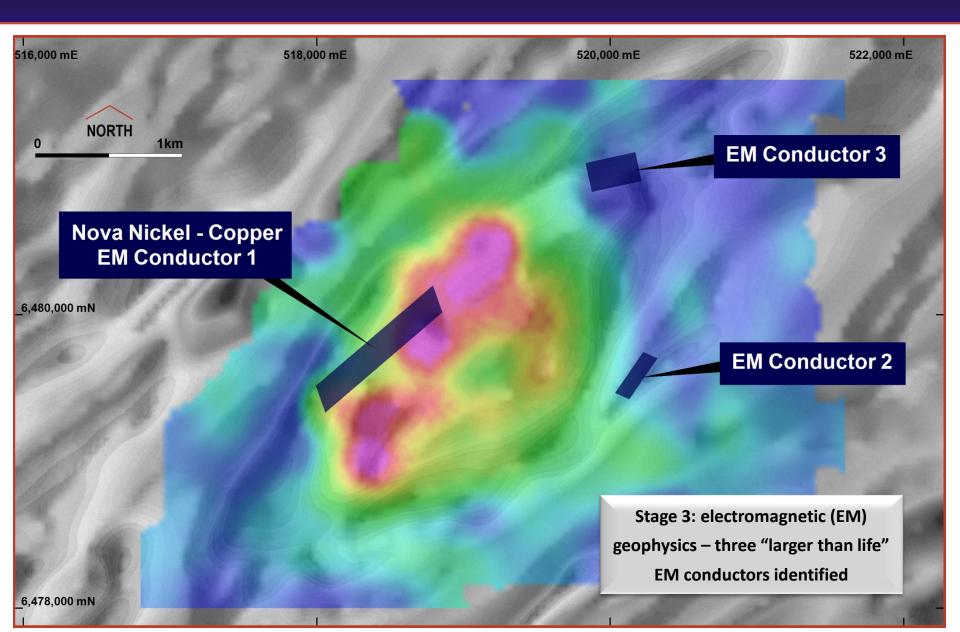




The 8km walk through the woods to start soil sampling



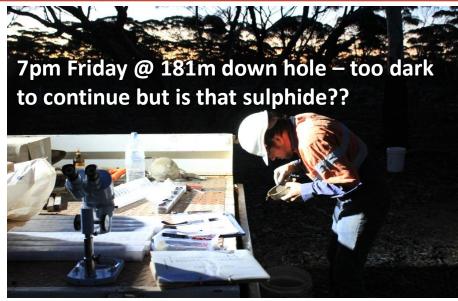
DISCOVERY – SOILS AND EM





DISCOVERY – THE DAY OF RECKONING







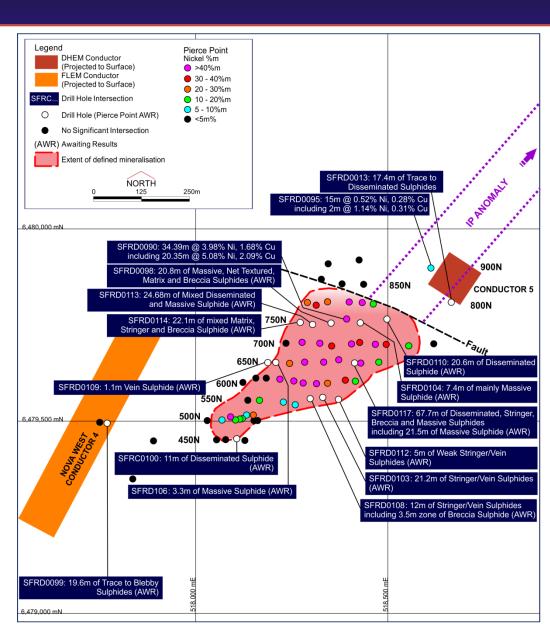




NOVA – 3 MONTHS ON

- 3 months since discovery straight to resource drillout with 90 holes drilled
- Now defined mineralisation 500m down plunge, 400m wide and up to 60m thick
- Infill and metallurgical drilling underway
- Drilling underway at conductor 5, next to disseminated mineralisation in SFRD0095 (15m @ 0.52% Ni, incl. 2m @ 1.14% Ni)
- Follow up hole on conductor 4 (SFRD0115

 80 metres down dip from SFRD0099)
 intersected minor disseminated sulphides
 and minor graphite at target depth, but
 has not yet explained the EM anomaly –
 drilling is ongoing

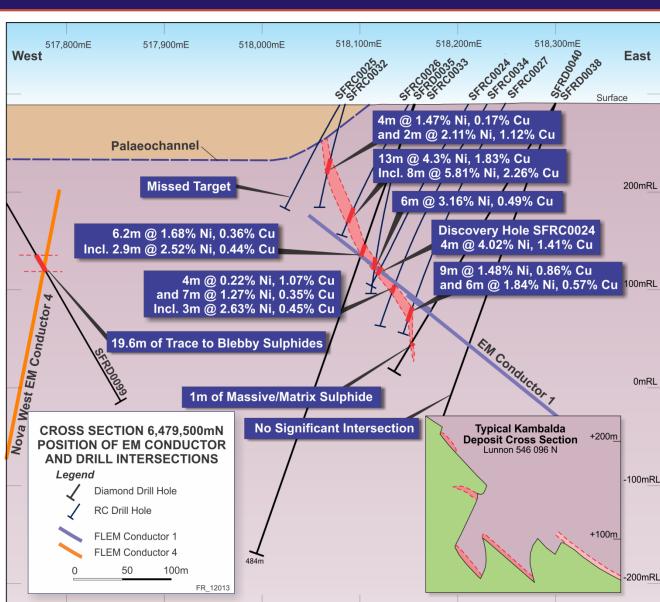




NOVA - 500N

- Discovery hole intersected 4m
 @ 4.02% Ni, 1.41% Cu
- Then 13m @ 4.3% Ni, 1.83%
 Cu incl. 8m @ 5.81% Ni, 2.26%
 Cu
- 200 metres of dip extent defined
- Starts at ~50 metres below surface



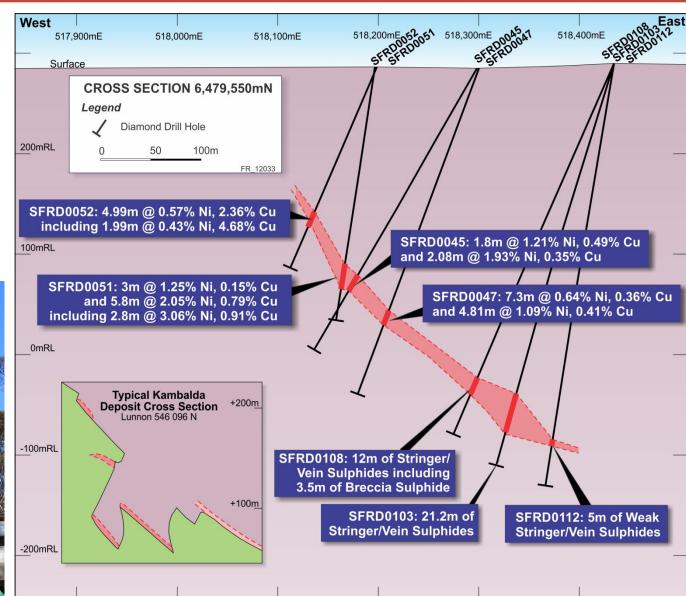




NOVA - 550N

- Drilling has extended the mineralisation a further 150 metres down dip on this section
- Another infill hole is underway
- 350 metres of dip extent defined



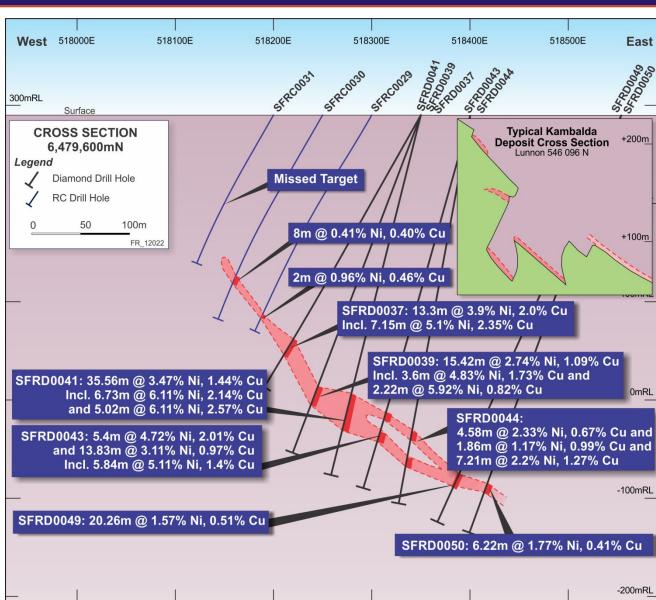




NOVA - 600N

- Thick zones of massive and breccia textured sulphides intersected - eg, 35.56m @
 3.47% Ni, 1.44% Cu
- Thickness in centre is the height of a 12 storey building
- 350m of dip extent defined



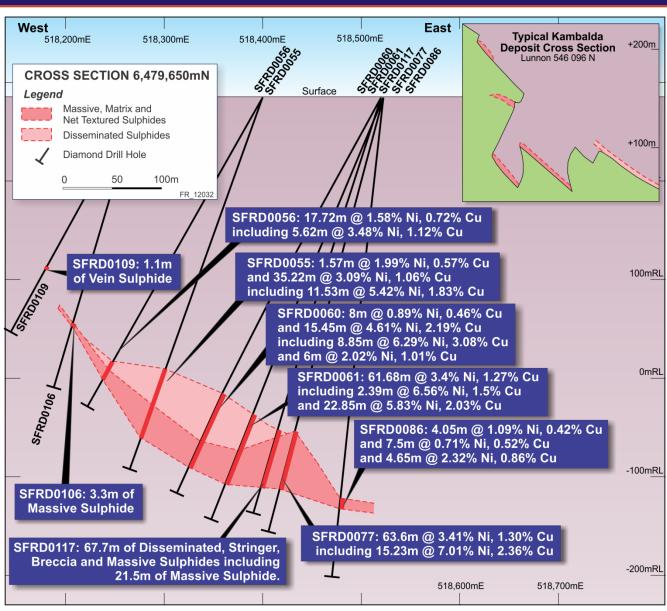




NOVA – 650N

- Thick massive, matrix and disseminated sulphides eg,
 61.7m @ 3.4% Ni, 1.27% Cu this is the height of a 20 storey building
- 350m of dip extent defined
- Infill hole SFRD0117 confirms continuity







NOVA - 700N

518,600mE

518,700mE

East

Surface

200mRL

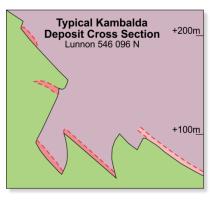
100mRL

0mRL

-100mRL

-200mRL

 Thick zones of massive, matrix, net textured and disseminated sulphides intersected – eg, 38.9m @ 3.23% Ni, 1.46% Cu



West

518,200mE

CROSS SECTION 6,479,700mN Legend Massive, Matrix and **Net Textured Sulphides Disseminated Sulphides** Diamond Drill Hole 50 100m FR_12017 SFRD0046W1: 20.25m @ 1.94% Ni, 0.53% Cu Incl. 2.61m @ 7.45% Ni, 0.98% Cu and 2.27m @ 5.18% Ni. 1.63% Cu SFRD0053: 7.3m @ 2.2% Ni, 0.6% Cu including SFRD0042: 22.7m @ 0.91% Ni, 0.73% Cu 1.1m @ 7.45% Ni, 1.06% Cu and and 20.93m @ 1.56% Ni, 0.65% Cu 17m @ 3.68% Ni, 3.82% Cu including 11.1m @ 4.31% Ni, 5.03% Cu SFRD0094: 3.1m @ 1.32% Ni, 0.23% Cu and 0.5m @ 6.53% Ni, 1.14% Cu and 1.4m @ 0.67% Ni, 1.6% Cu SFRD0076: 3.6m @ 4.43% Ni, 1.42% Cu SFRD0058: 47.2m @ 1.86% Ni, 0.57% Cu including 36m @ 2.23% Ni, 0.65% Cu including 3.05m @ 6.1% Ni, 1.31% Cu

518,400mE

518,500mE

518,300mE

SFRD0054: 12.63m @ 2.57% Ni, 1.85% Cu

400m of dip extent defined

SFRD0066: 8.45m @ 4.19% Ni, 1.6% Cu

0.34% Cu

SFRD0079: 1.6m @ 0.85% Ni,

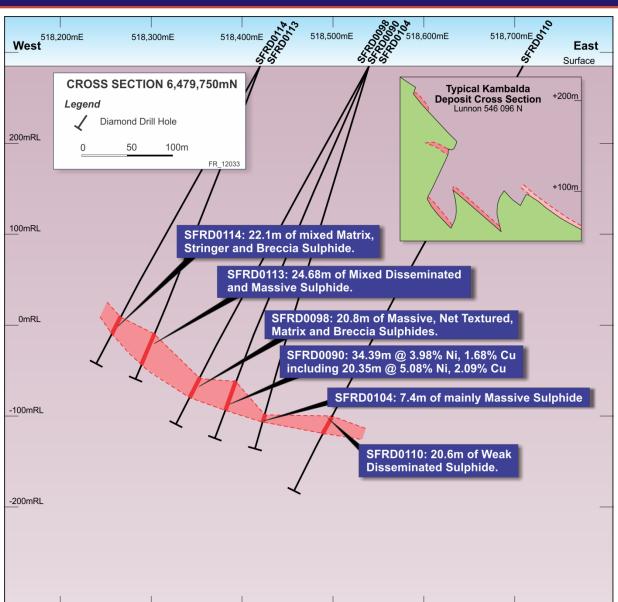
SFRD0057: 38.9m @ 3.23% Ni, 1.46% Cu including 24.86m @ 4.26% Ni, 1.77% Cu including 10.11m @ 6.0% Ni, 2.75% Cu



NOVA - 750N

- Infill line for resource estimation
- Visual intersections of mineralisation exactly where expected
- Further evidence of good internal continuity
- First assay received: 34.39m @3.98% Ni and 1.68% copper inSFRD0090



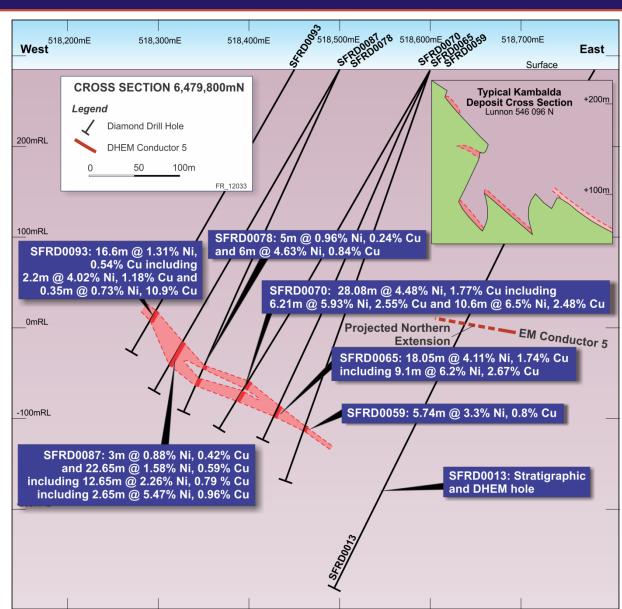




NOVA - 800N

- Northernmost section of mineralisation at Nova
- 250m of dip extent defined and open up dip and down dip
- Intersections of up to 28.08m @4.48% Ni and 1.77% Cu (SFRD0070)











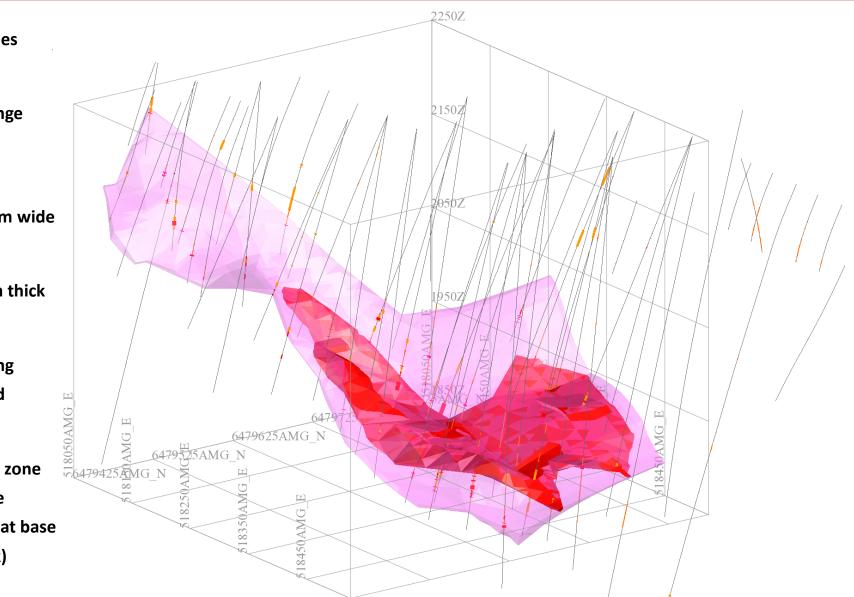
500m plunge extent

• Up to 400m wide

Up to 60m thick

Edges being delineated

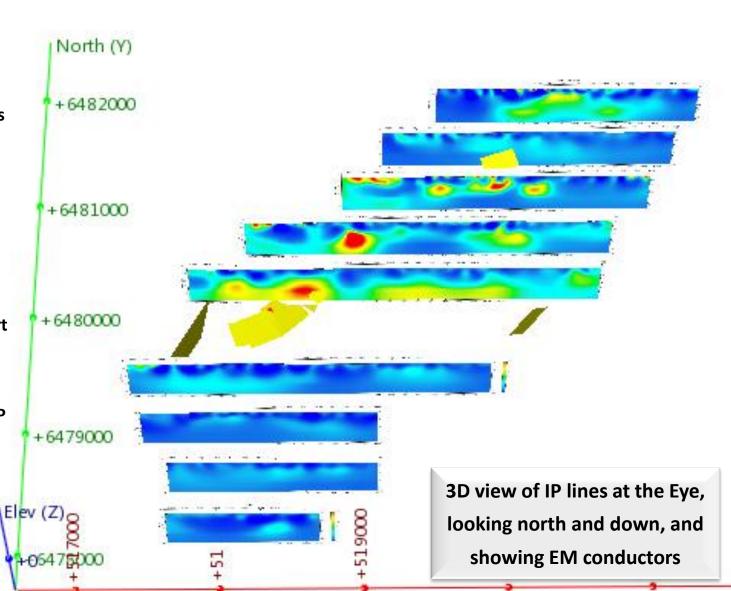
Extensive zone
 of massive
 sulphides at base
 (dark pink)





NEXT AT NOVA - IP ANOMALIES

- IP shows strong anomalies over Nova, the northern projection of Nova, and conductors
 2, 3 and 4
- IP anomalies may indicate disseminated sulphides
- Provides further support for EM conductors
- A 2km long consistent IP anomaly between Nova and conductor 3





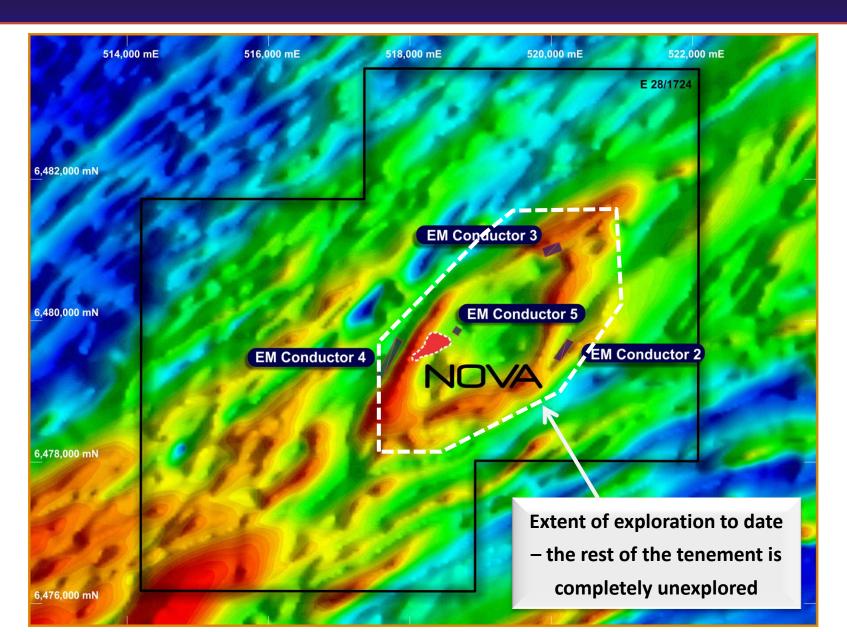
NEXT AT NOVA – MET & GEOTECH

- Preliminary metallurgical work indicates:
 - No arsenic, no problematic high MgO minerals
 - No nickeliferous pyrrhotite (all Ni in pentlandite)
 - Very coarse grain size sulphides and silicates
 - Potential for a good recovery and good quality concentrate
- Geotechnical logging indicates:
 - Hostrock is crystalline and competent (unlike most WA nickel mines)
 - Good RQD and rock mass properties
 - Very few late brittle fractures
 - Potential for good mining conditions





NEXT AT THE EYE





SUMMARY

Nova is a MAJOR nickel-copper discovery

The Nova deposit has been delineated in 3 months with 90 holes drilled

Current drilling at the Nova deposit comprises infill drilling for resource estimation and metallurgical testwork samples

A second drillhole at conductor 4 (SFRD0115) has intersected minor disseminated sulphides and minor graphite - follow up drilling is continuing to determine the source of the conductor

Drilling of conductor 5 has commenced

Drilling of conductor 2 will commence following this drilling and as soon as drill access and site preparations permit

Drilling of conductor 3 will commence following completion of drilling at conductor 2

EM surveying of the remainder of the Nova tenement and other regional targets has commenced

