



PepinNini
Minerals limited

Investor Presentation

June 2012

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The information in this presentation that relates to Exploration Results and Mineral Resources is based on information compiled by Norman Kennedy BSc MAusIMM. Norman Kennedy is the Managing Director of PepinNini Minerals Limited and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration to qualify as a Competent Person as defined in the 2004 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Norman Kennedy consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Corporate Summary

PepinNini Minerals Limited is a diversified explorer with multiple mineral deposits and significant exploration upside.

Musgrave – Nickel/Copper – NW South Australia

- 10 tenements covering 9,601 km², exploring for world class Ni-Cu sulphide mineralisation
- JV alliance with Rio Tinto in 3 tenements
- New EM drill ready targets identified following 1,300 kms of SkyTEM surveys – drilling to commence in July 12 through to Dec.12

Curnamona – Uranium/Base Metals/Magnetite – NE South Australia

- 40% interest in 5 tenements covering 3,778km², in JV with Sinosteel
- JORC compliant resource of 11.66 Mlbs Uranium - BFS on hold awaiting improvement in A\$ Uranium price
- Significant Braemar Ironstone Magnetite potential as well as Rare Earths and Base Metals potential
- Sinosteel committed to spend \$2.5m for evaluation of other minerals – more than 30 Gold and Base Metal targets – drilling in progress

Robinson Range – Iron Ore – Western Australia

- PepinNini is the operator for 7 tenements covering 700km² - 50% interest in 3 tenements and 40% interest in others
- JORC Inferred resource of 18MT @ 50% Fe, 4MT @ 55% Fe, DSO grades, low phosphorous
- Exploration is ongoing with Resource and other Prospect definition drilling for Q3 + Q4 subject to JV

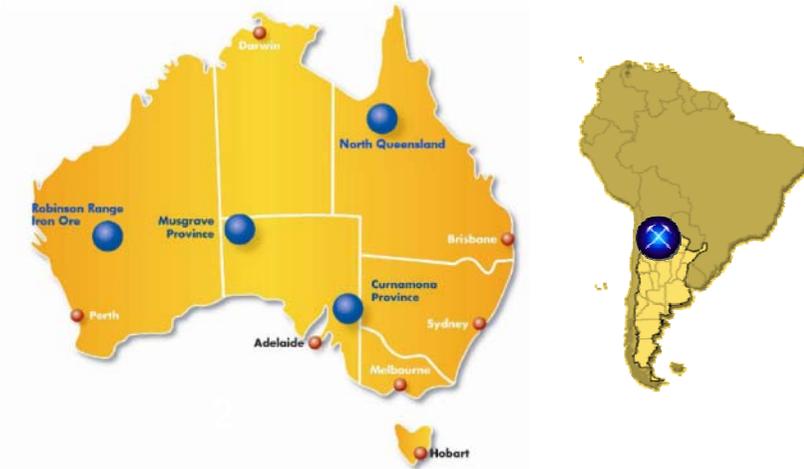
Nth Queensland – Copper/Gold - Woolgar Goldfield / Georgetown Inlier

- 100% in 14 tenements covering 1,086km² - high grade thin seam gold / silver discoveries
- Evaluation of the viability of thin seam mining to be undertaken before additional drilling to define a JORC resource.

Argentina – Copper/Gold/Silver – Salta Province

- 100% in 7 tenements covering 280km²
- Santa Ines lies between BHP's giant Escondida Cu-Au porphyry and the Lindero Gold porphyry (2.2Moz Au)
- Surface samples include up to 21% Cu, 26% Fe, 0.9 g/t AU and 34.9 g/t Ag
- Surface geophysical surveys and drilling planned for Q4.

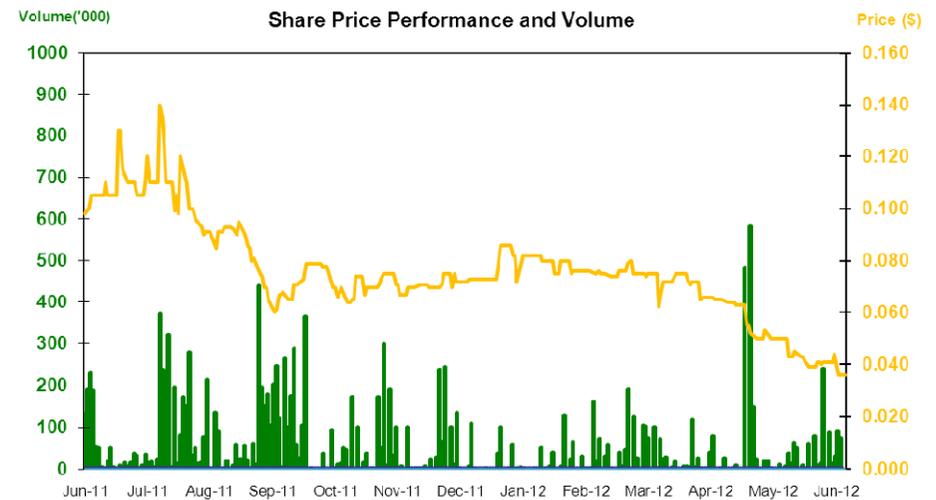
Value Proposition



Capital Structure (as at 25th June, 2012)

ASX Code	PNN
Shares on Issue	89,702,499
Shareholders	1,781
1 Month VWAP	A\$0.048
Mkt. Capitalisation	A\$3.2m
Cash	A\$2m
Top 20 Shareholders	49% of capital

Current Projects have an implied market value of negative \$1.3m



Experienced Directors and Management



Norman Kennedy B.Sc., MAusIMM - Chairman and Managing Director
Geologist with more than 30 years experience in the Australian and International Resources Sector.



Rebecca Holland-Kennedy B.Sc., B.Arts, MAusIMM
Administration Director and Company Secretary
Geologist with more than 30 years experience in administration and data management. Ex BHP, Amax, AGL, CRA, Macquarie University



Robert (Wei) Sun M.Econ(Commerce), M.Econ(IEM) - Non-Executive Director
A resource investment analyst with over 10 years experience in international trade and the resource industries of China, Canada and Australia



Chris Lambert - Non-Executive Director
More than 20 years experience in commodities based financial and corporate sectors. Ex Elders Finance Group, Barclays Bank, Prudential

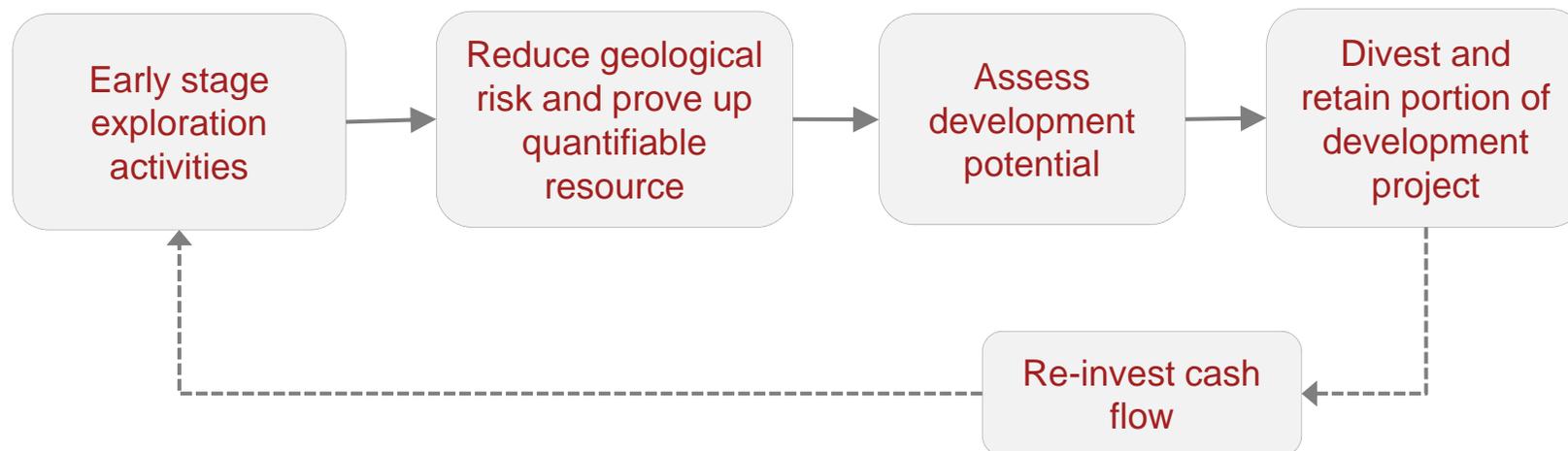


Phil Clifford B.Sc., MAusIMM - Exploration Consultant
Geologist with more than 20 years experience in Exploration Management within Australia including 15 years with Rio Tinto before joining PepinNini in 2004

Company Growth Strategy

PepinNini is focussed on discovering and maturing diverse exploration plays with high potential.

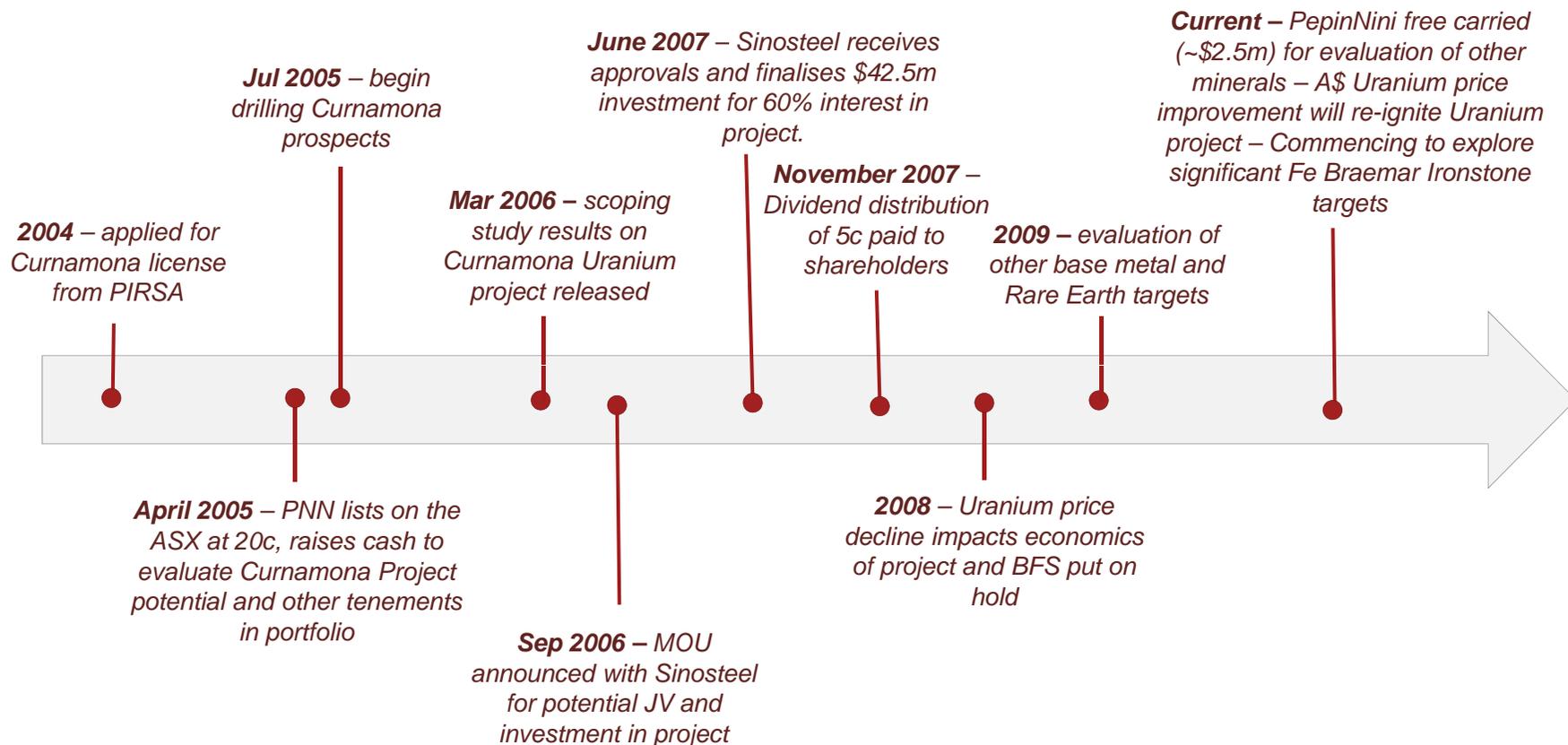
Development of projects will be pursued within an appropriate structure or suitable JV partner so as to enhance eventual project delivery success. In doing so, PepinNini retains its core focus on adding value through early stage discoveries.



Curnamona project demonstrates ability of company to execute on this strategy... sold 60% of project for \$31.5million cash plus \$11million exploration expenditure and returned value to shareholders by way of a 5 cent dividend.

Project History – Curnamona

The Curnamona uranium project demonstrates PepinNini's ability to add significant shareholder value through early stage acquisition, exploration and subsequent partial divestiture of the project. The asset currently provides PepinNini shareholders low cost exploration opportunities with significant upside through further base metal evaluation, Braemar Ironstone Magnetite potential, Uranium price recovery and a JV partner with significant capital.



Recent Highlights

Robinson Range (Iron Ore)

- RC drilling program of 98 boreholes for a total 5,607m completed in March 2012. Encouraging intersections reported including
 - ◆ 24m @ 64.2% Fe from surface and 15m @ 60.7% Fe from 56m in borehole RC12RR082
 - ◆ 57m @ 56% Fe in borehole RC12RR075 from a depth of 3m, (including an interval of 33m @ 61.8% Fe from 25m)
- June 12 Revised JORC Inferred Mineral Resource for PNN Area C of 4.3MT @ 55.2% Fe and 17.7MT @ 49.7% Fe
- Ongoing resource and other Prospect definition drilling for Q3 + Q4 subject to JV.

Curnamona (Uranium/Base Metals/Magnetite)

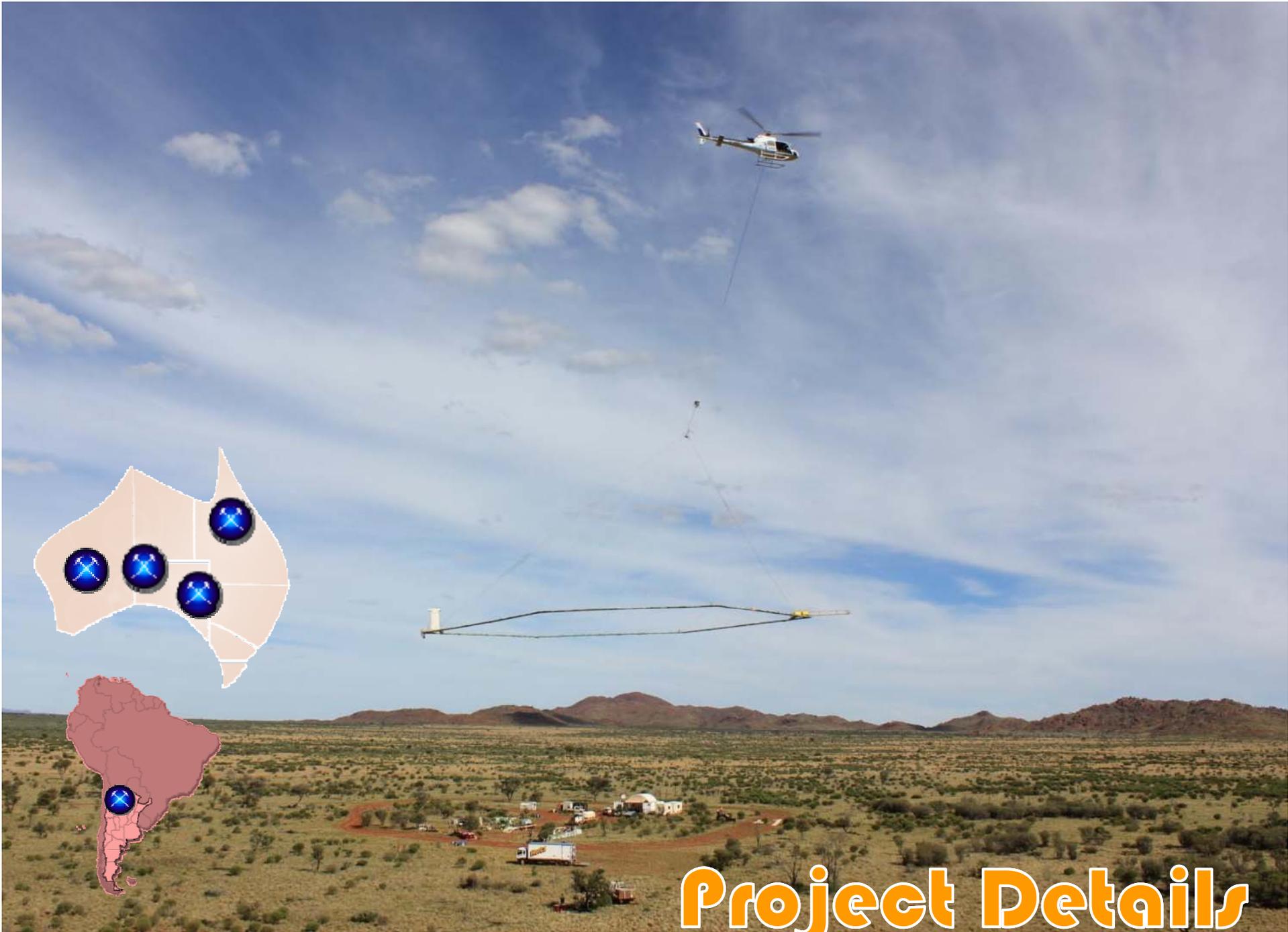
- Identification of REE, base metal and Fe potential
- Results from 10 RC boreholes completed at the Macdonald Corridor Prospect in February 2012 confirm the potential for a very large magnetite iron ore resource which could be beneficiated to a high grade blast furnace feed product
- Potential new copper/gold prospect being investigated north of the Dome Rock Mine
- Drilling at Dome Rock, geophysical surveys and drilling on Braemar Magnetite Q3 +Q4

Musgrave (Nickel/Copper)

- SkyTEM⁵⁰⁸ airborne electromagnetic surveys over 1,300 line kms completed during March 2012
- New Priority Drill Targets Identified
- 14 strong EM conductive responses interpreted as representing massive magmatic Ni-Cu sulphide accumulations have been identified
- Drilling to commence Q3 following completion of Heritage Clearance Surveys

Argentina (Copper/Gold/Silver)

- Assay results for surface grab samples collected in April 2012 from a historic mine working confirms potential for high grade copper and gold mineralization within the Santa Ines Project Area
- Up to 21.7% copper, 0.91g/t gold and 34.9g/t silver reported
- Santa Ines Project lies within the same structural corridor as a number of developing projects and the giant Escondida copper gold porphyry deposit
- Ground geophysics and drilling to commence Q4



Project Details

Robinson Range Iron Ore

The Robinson Range Iron Ore Project is situated in the Midwest Region of Western Australia approximately 550kms north east of the Oakajee Port and Rail development at Geraldton. The Midwest Region has emerged as Western Australia's next major iron ore province (second to the Pilbara).

The project covers part of the Bryah-Padbury Basin and contains approximately 40km strike length of Robinson Range Formation considered highly prospective for iron ore. The sequence includes banded iron and granular iron formation units which variably outcrop within the licences. Supergene enriched Hematite and Hematite-Goethite mineralisation associated with these units form the primary target of the project.



Robinson Range Iron Ore

Project Key Points

- 7 tenements covering 700km² Fe prospective ground in Midwest Province of WA
- PepinNini has a 50% interest in the iron ore rights of three tenements and 40% interest in an additional four tenements
- PepinNini manages exploration on behalf of other JV participants (Grosvenor Gold 40% and FE Limited 20%)
- DSO hematite grades, >55%Fe, low phosphorous and other contaminants
- 98 RC borehole program completed in March 2012 with revised JORC compliant Inferred Mineral Resource Estimate for PNN Area C reported in June 2012
- On going exploration to further investigate current iron ore resource at PNN Area C as well as investigate other prospects identified within the Project tenements for 2012 subject to JV

Million Tonnes	Cut Off %Fe	Density SG	Fe %	SiO ₂ %	Al ₂ O ₃ %	P %	S %	TiO ₂ %	LOI %
17.7	45	3.6	49.7	13.3	8.5	0.06	0.04	0.29	5.4
4.3	52	3.8	55.2	8.5	6.5	0.06	0.05	0.21	4.7

Inferred Mineral Resource Estimate for PNN Area C – Robinson Range Project (June, 2012)

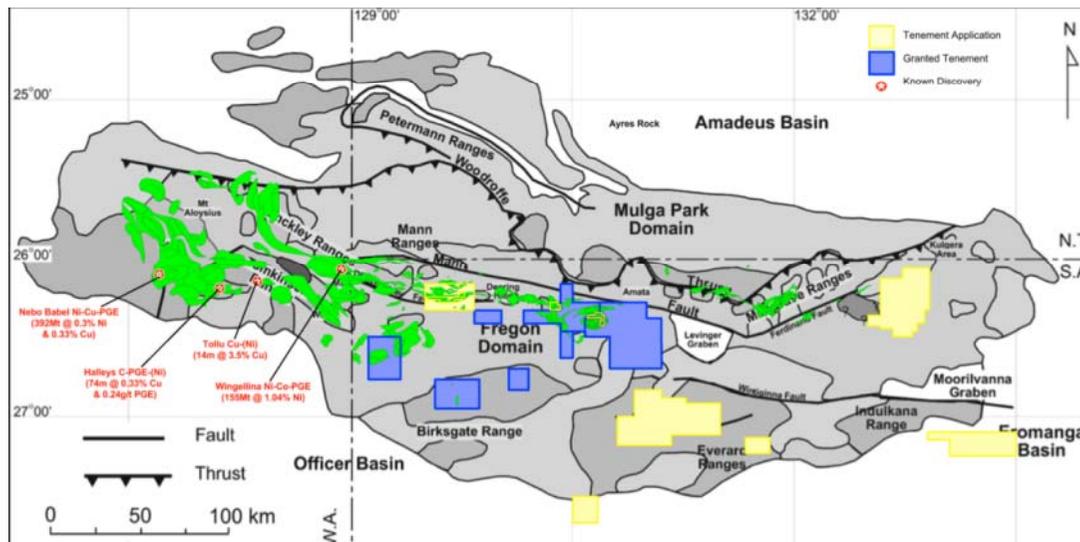
Musgrave

PepinNini Minerals is targeting nickel-copper sulphide mineralisation and base metal mineralisation in the Musgrave Province located in the northwest of South Australia.

The Musgrave Province is the least explored Proterozoic Block in Australia and its mineral prospectivity presents an exciting exploration opportunity.

Drilling by PepinNini has intersected sulphide-bearing mafic/ultramafic rocks with concentration of nickel and copper mineralisation confirming the geological environment exists for the potential development and accumulation of Voisey's Bay style mineralisation (136Mt @ 1.6% Ni, 0.8% Cu).

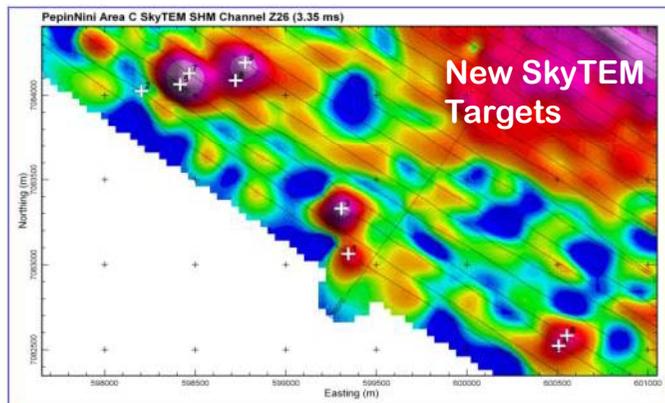
The presence of mixed sulphide mineralisation assaying up to 0.46% Cu and 0.33% Ni provides encouragement that the geology within tenements held by PepinNini could host significant nickel-copper sulphide mineralisation.



Musgrave

Project Key Points

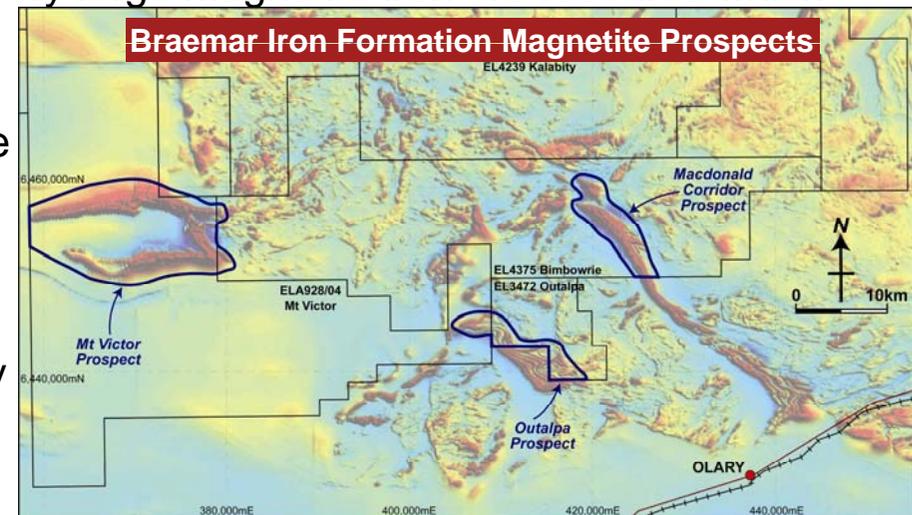
- 10 tenements covering 9,601 kms²
- Extensive exploration potential for world class size mineral deposits
- Targeting Giles Complex mafic-ultramafic intrusions – prospective for Ni-Cu sulphide & PGE mineralisation
- JV alliance with Rio Tinto to explore potential for large nickel copper sulphide deposits in three tenements
- Cost effective exploration with company owned drilling rigs, support equipment and field camp
- New Priority Drill Targets identified from SkyTEM⁵⁰⁸ airborne electromagnetic surveys covering approximately 1,300 line kms completed during March 2012
- Heritage clearance survey planned to be completed by early July 2012 and drilling of new SkyTEM targets in the Cooperinna Block July to December 2012



Curnamona Project

Project Key Points

- 40% interest in 5 tenements covering 3,778 kms², JV alliance with Sinosteel Corporation
- JORC compliant uranium resource of 11.66million lbs. (Indicated 8.27 Mlbs, Inferred 3.39 Mlbs). BFS currently on hold until there is an improvement in the uranium price and US dollar
- More than 30 Base Metal (Copper/Lead/Zinc) and Gold targets ready to drill
 - \$2.5 million expenditure commitment by Sinosteel under JV agreement
 - Commenced investigation of new copper/gold prospect at North Dome Rock
- Three Braemar Iron Formation Magnetite Prospects have been prioritized for investigation
Geophysical surveys and drilling magnetite prospects Q3 + Q4
- Each prospect has the potential to host a very large magnetite iron ore resource which could be beneficiated to a high grade blast furnace feed product at a very competitive cost relative to other magnetite prospects under development in Australia.
- Preliminary DTR results produced a sample concentrate with low impurities (SiO₂ < 5%), relatively high mass recovery (average 20%) and high Fe content (average 68% Fe)



North Queensland Project

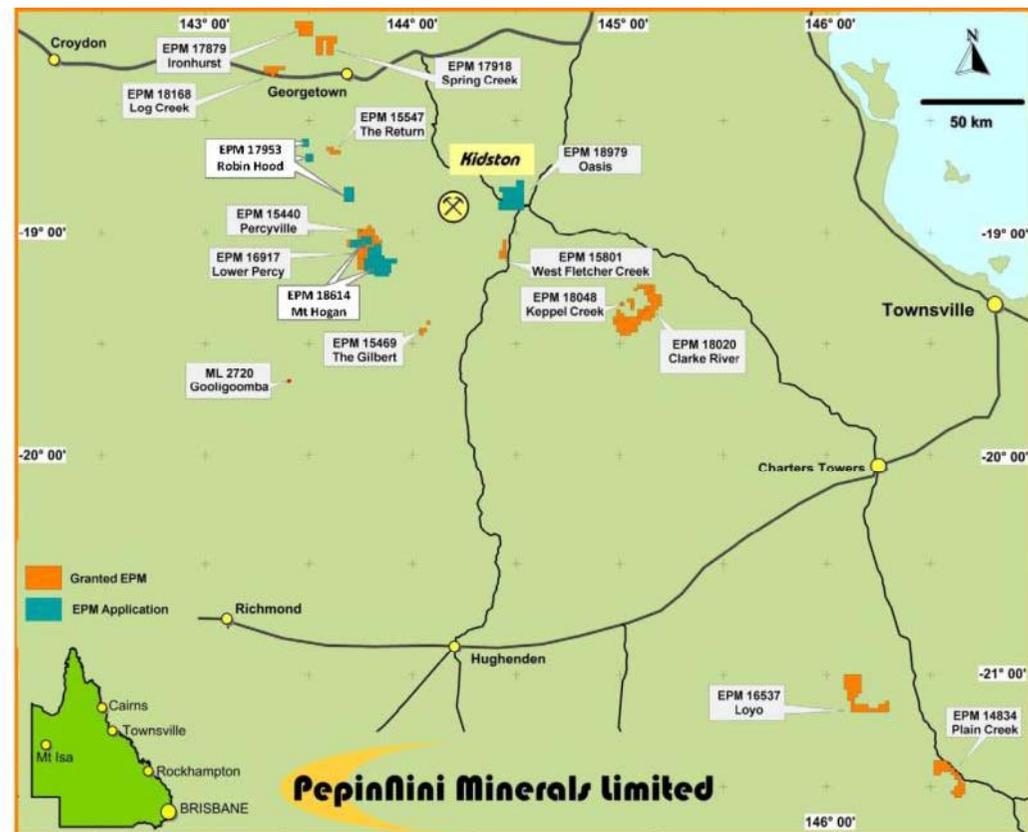
North Queensland project includes a 100% interest in 14 tenements covering 1,086km². The tenements are prospective for gold, silver, copper, base metals and uranium. PepinNini is currently focusing on high grade copper/gold/silver targets identified in EPM15547 and EPM15440.

Project Key Points

- Encouraging results from 2011 drilling program investigating high grade shallow gold, silver and copper targets
- Economic viability of thin seam mining to be assessed by a Scoping Study
- Uranium potential largely untested by previous explorers

High Grade Seam Intersections

2 metres @ 10.1g/t gold and 33g/t silver
1 metre @ 20.3 g/t gold and 35g/t silver
3 metres @ 7.2 g/t gold and 13g/t silver
1 metre @ 14.9g/t gold and 223g/t silver
4 metres @ 4.7g/t gold and 70g/t silver
2 metres @ 3.5g/t gold and 4.7g/t silver



Argentina

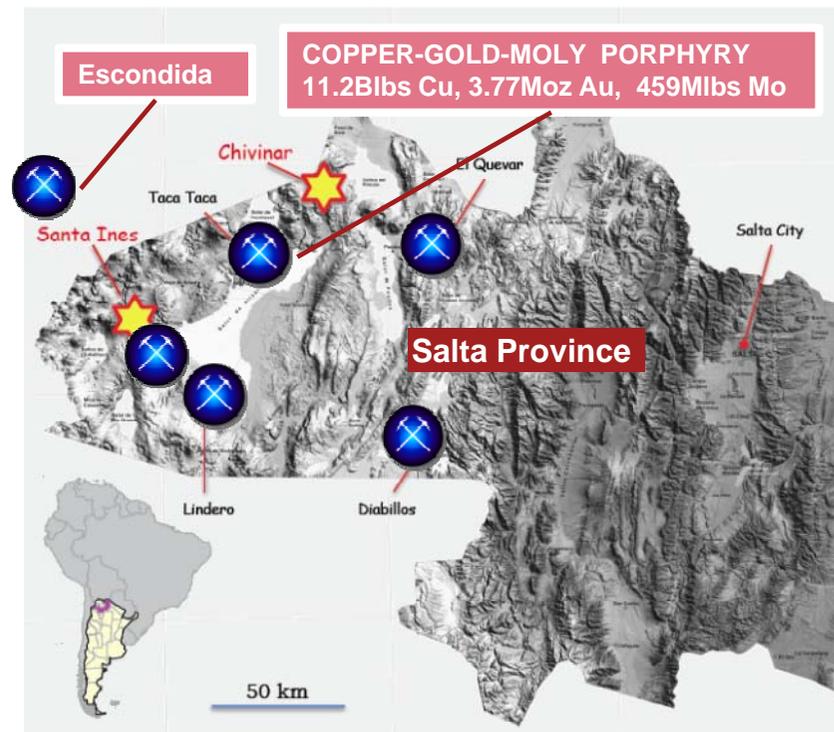
2 projects located in Salta Province called Santa Ines and Chivinar, 100% owned by PepinNini.

Salta is a mining friendly province with well regulated mining rights.

A number of recently discovered major deposits are being rapidly advanced in the vicinity of the projects. BHP's giant Escondida Cu-Au porphyry deposit (~5 billion tonnes @ 1% Cu and 0.25 g/t Au) is situated 80kms to the NW along the same lineament as the Santa Ines Project.

The geology is prospective for major copper-gold porphyries; precious and base-metal epithermal systems and breccia-complexes associated with the Andean volcanic belt.

The region is traversed by a gas pipeline, high-transmission power lines and the Salta-Antofagasta railway, which is currently partially operational.



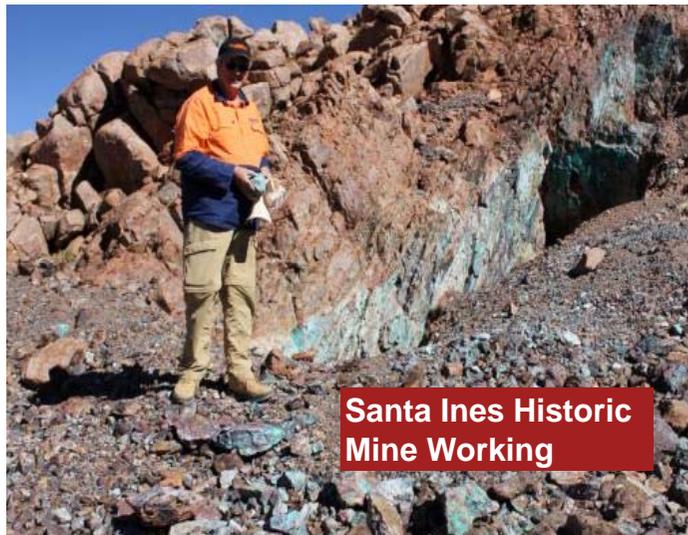
Four surface grab samples were collected in April 2012 from around the opening of a historic mine on the Santa Ines tenement.

Sample	Cu%	Fe%	Au g/t	Ag g/t
1	21.7	26.4	0.91	34.9
2	13.7	23.7	0.17	17.5
3	10.6	10.8	0.12	1.6
4	1.7	8.0	-	3.4

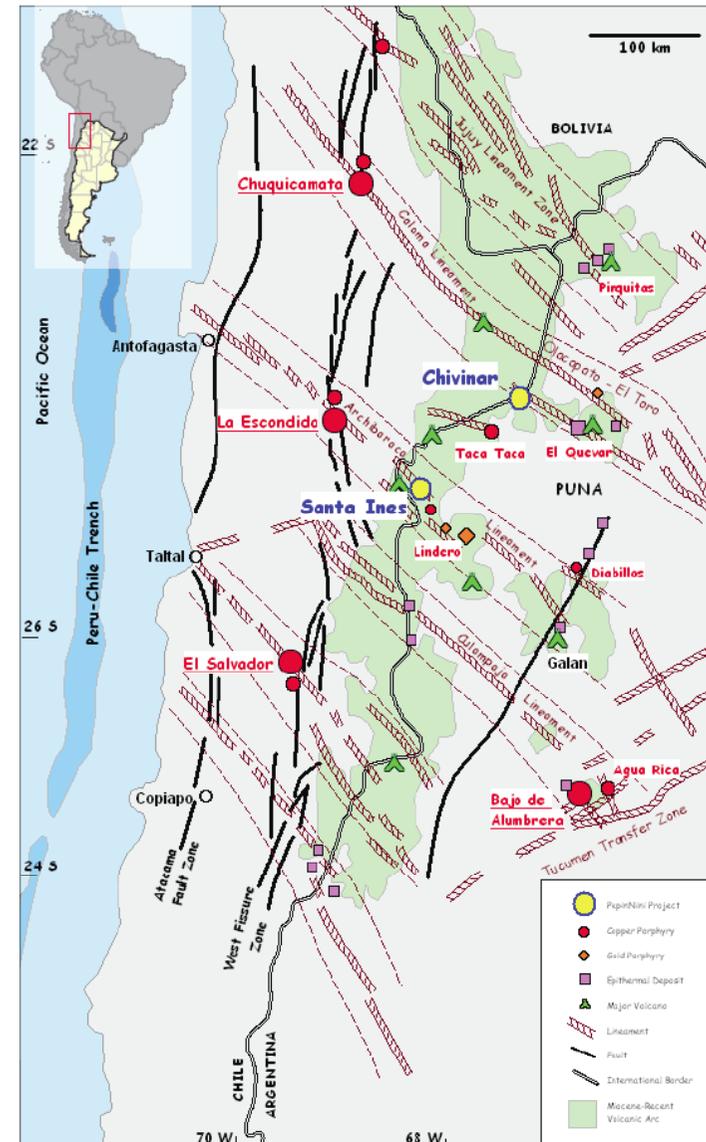
Argentina

Project Key Points

- 7 tenements covering 280 kms² in proven location for recent discoveries of major mineral deposits
- Targeting: Copper-Gold-Moly Porphyry Deposits
High Grade Epithermal Silver Deposits
Iron Ore
- High grade copper, gold and silver surface samples confirm potential for mineralisation within the Santa Ines Project Area
- Ground geophysics and drilling planned for Q4/12



Santa Ines Historic Mine Working



Low Cost Exploration

PepinNini has invested in its own equipment and infrastructure to enable low cost of exploration across its portfolio

- Company owns a diamond drilling rig capable of drilling to 1,000m and a vacuum rig for geochemical sampling
- Field camp, backhoe, water truck and all ancillary equipment required for drilling
- Currently working at the Musgrave Project site
- Asset ownership reduces risk of waiting for contractors and industry cost escalation
- Ability to move infrastructure to different locations as required
- Ability to contract out and earn approx. \$150,000/month (revenue of ~\$800,000 in 2011/12)

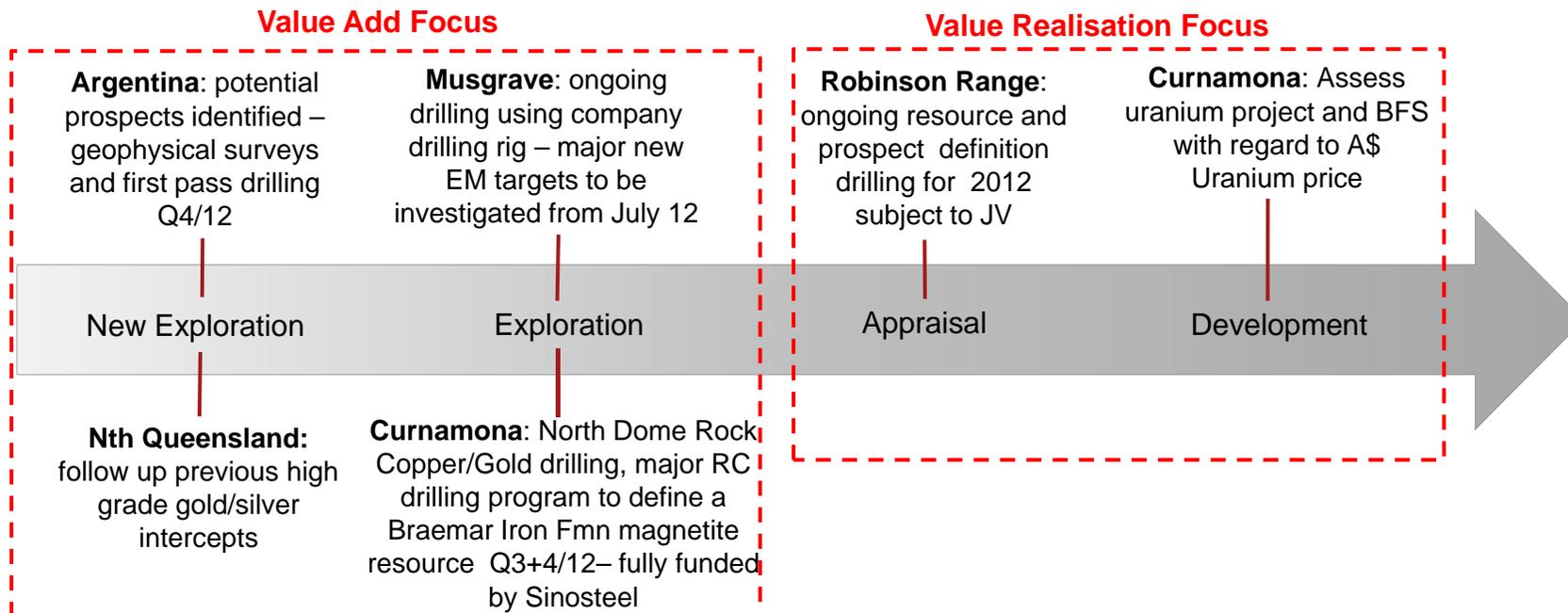


2012/13 Work Program

Exploration across all Projects, with a focus on discovering a major Nickel/Copper deposit in the Musgrave Province and a major Copper/Gold Porphyry prospect in Argentina. Regular news flow from multiple projects

PepinNini has an active but low cost program for 2012/13 underpinned by:

- \$2.5 million Free Carry JV spend by Sinosteel in the Curnamona prospects
- Low cost exploration in Musgrave using company's own equipment
- Argentina – geophysical surveys and initial drilling
- Total Company spend to be in the order of \$3m for 18 months





Why PepinNini?

- ***Diversified minerals exposure***
- ***Existing deposits with high quality exploration targets***
- ***Significant JV partners (Rio Tinto, Sinosteel)***
- ***Existing Iron Ore and Uranium JORC Resources***
- ***Active and low cost exploration program (own drilling rigs)***
- ***Regular news flow from multiple projects***
- ***Several near term prospective company transforming opportunities***
- ***Experienced team and management, track record of success***
- ***Proven business strategy that rewards shareholders***