



Pepinini
Minerals Limited

Investor Presentation

March 2011

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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, ASX listed Exploration Company focused on developing and discovering major new Australian mineral deposits.

Capital Structure (as at 4th March)

ASX Code	PNN
Shares on Issue	89,702,499
Shareholders	1,940
1 Month VWAP	A\$0.226
Mkt. Capitalisation	A\$20.3m
Cash	A\$6m
Top 20 Shareholders	48% of capital



The Company has secured strategically located exploration tenements in the Musgrave and Curnamona Provinces of South Australia, the Woolgar Goldfield/Georgetown Inlier of North Queensland and the Robinson Range Iron Ore Province of Western Australia.

Focus of Recent Capital Raised

Funds raised to accelerate the delineation of an initial JORC resource in the Robinson Range Iron Ore project – targeting DSO hematite

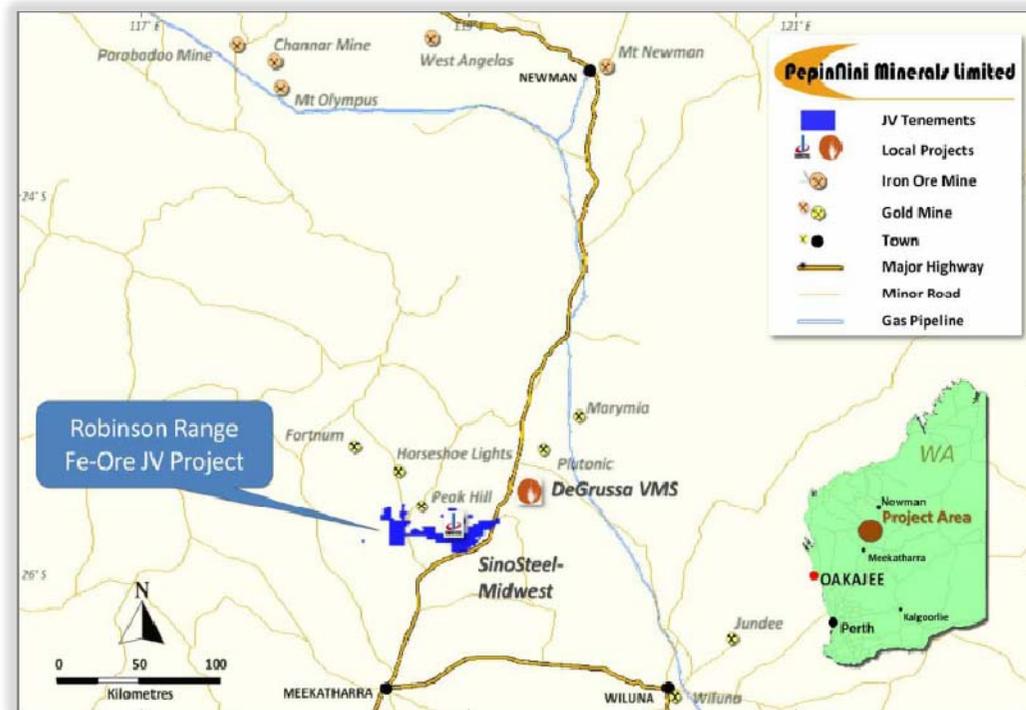
Project is located adjacent to significant developments and operators (Sandfire Resources – DeGrussa, Sinosteel – Midwest, Talisman Mining, Alchemy Resources and Montezuma Mining)

JV signed August 24th 2010,
12 outcropping prospects

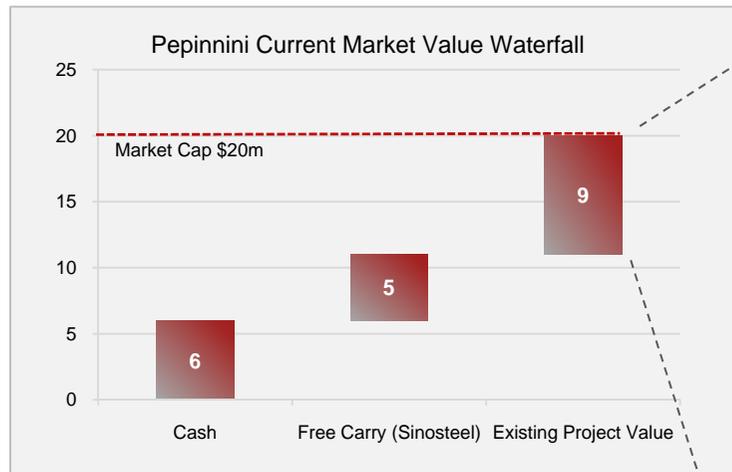
70 RC boreholes for 5,000m
2011

Initial inferred JORC target
10 million tonnes

Delineate resource potential
of 100 million tonnes



Value Proposition



PepinNini has an interest in 43 exploration tenements covering 16,000 km² across four projects, with an implied market value of \$9m:

Robinson Range – Iron ore

- 7 tenements covering 700km² and operator
- 50% interest in 3 tenements and 40% interest in others
- DSO grades, low phosphorous, 12 outcropping prospects at up to 67.3% Fe

Nth Queensland – Copper/Gold

- 100% in 21 tenements covering 1,895km²
- Recent RC drilling program completed
- High grade thin seam gold / silver discoveries

Musgrave – Nickel/Copper

- 10 tenements covering 9,601 km²
- Exploring for world class Ni-Cu sulphide mineralisation
- JV alliance with Rio Tinto in 3 tenements

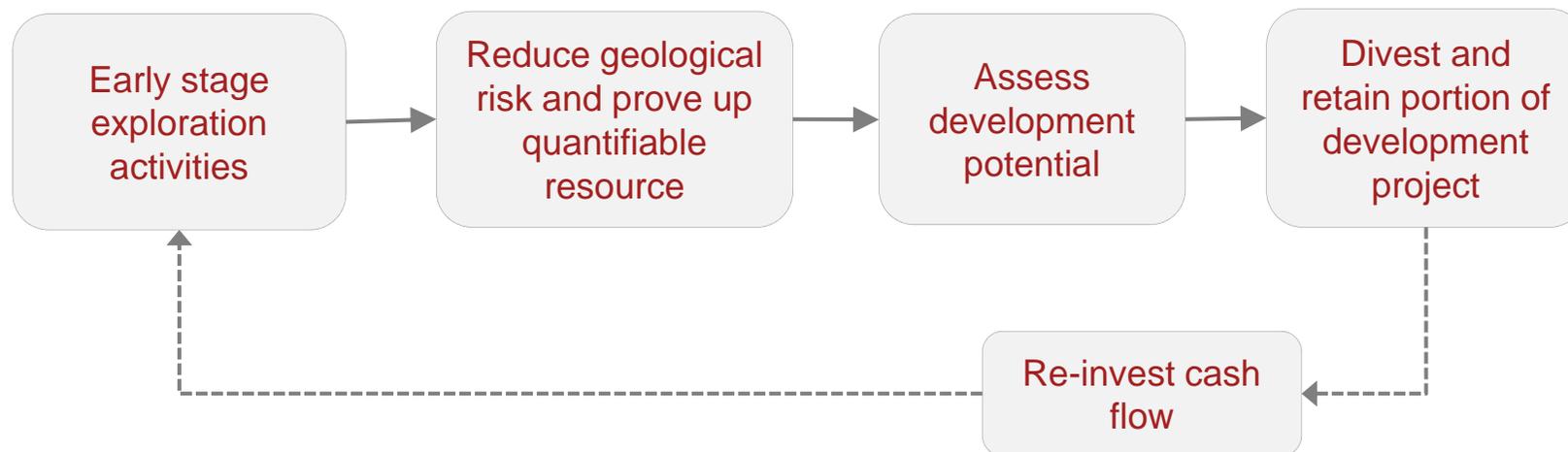
Curnamona – Uranium/Base Metals

- 40% interest in 5 tenements covering 3,778km², in JV with Sinosteel
- JORC resource of 11.66 Mlbs Uranium
- BFS on hold awaiting improvement in A\$ Uranium price
- Rear Earths Element (REE), Fe and Base Metals potential

Company Growth Strategy

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

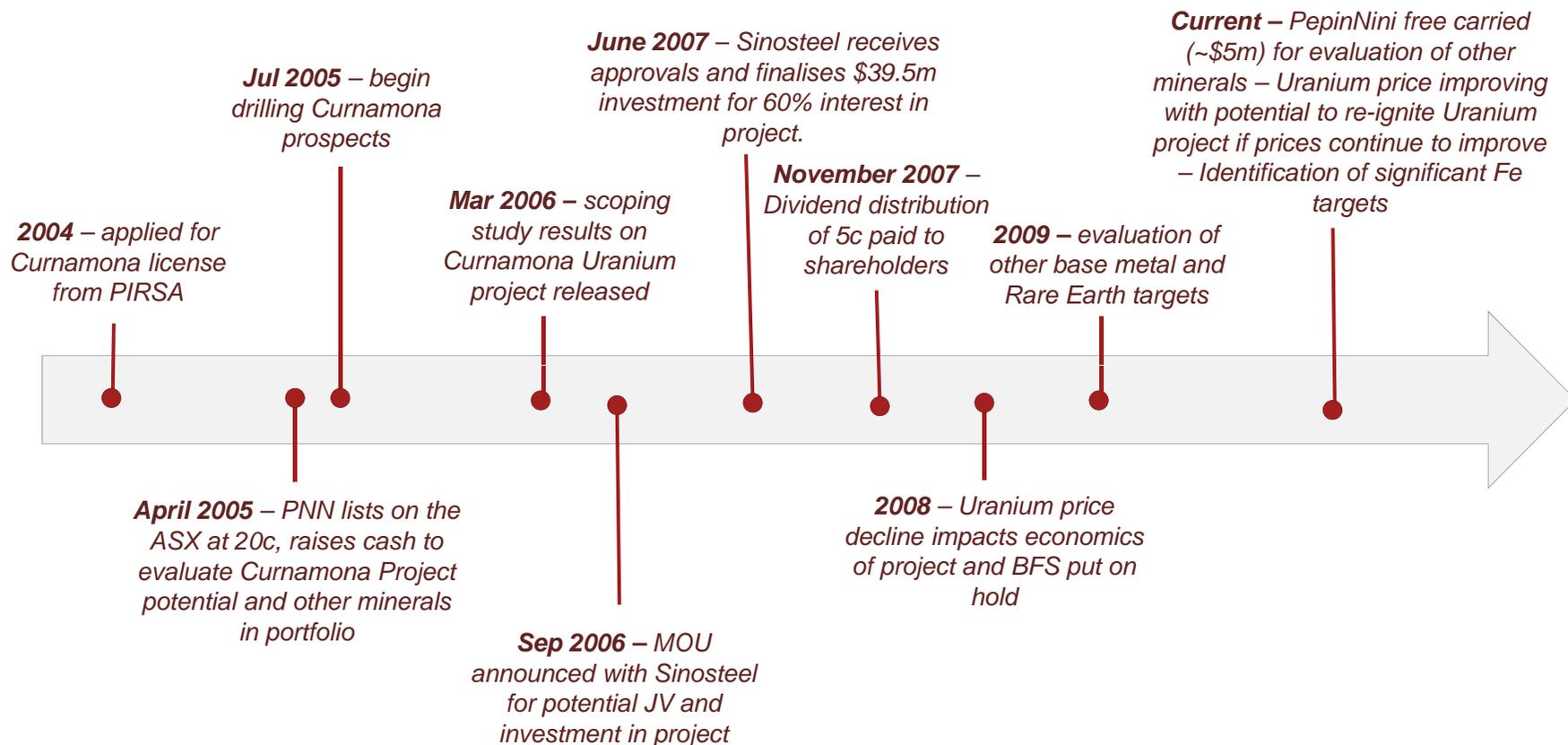
Development of projects will be pursued within an appropriate structure or suitable JV partner so as to enhance eventual project delivery success. In doing so, PepinNini retains its core focus on adding value through early stage discoveries.



Curnamona project demonstrates ability of company to execute on this strategy....

Curnamona – Project History

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, Uranium price recovery and a JV partner with significant capital.

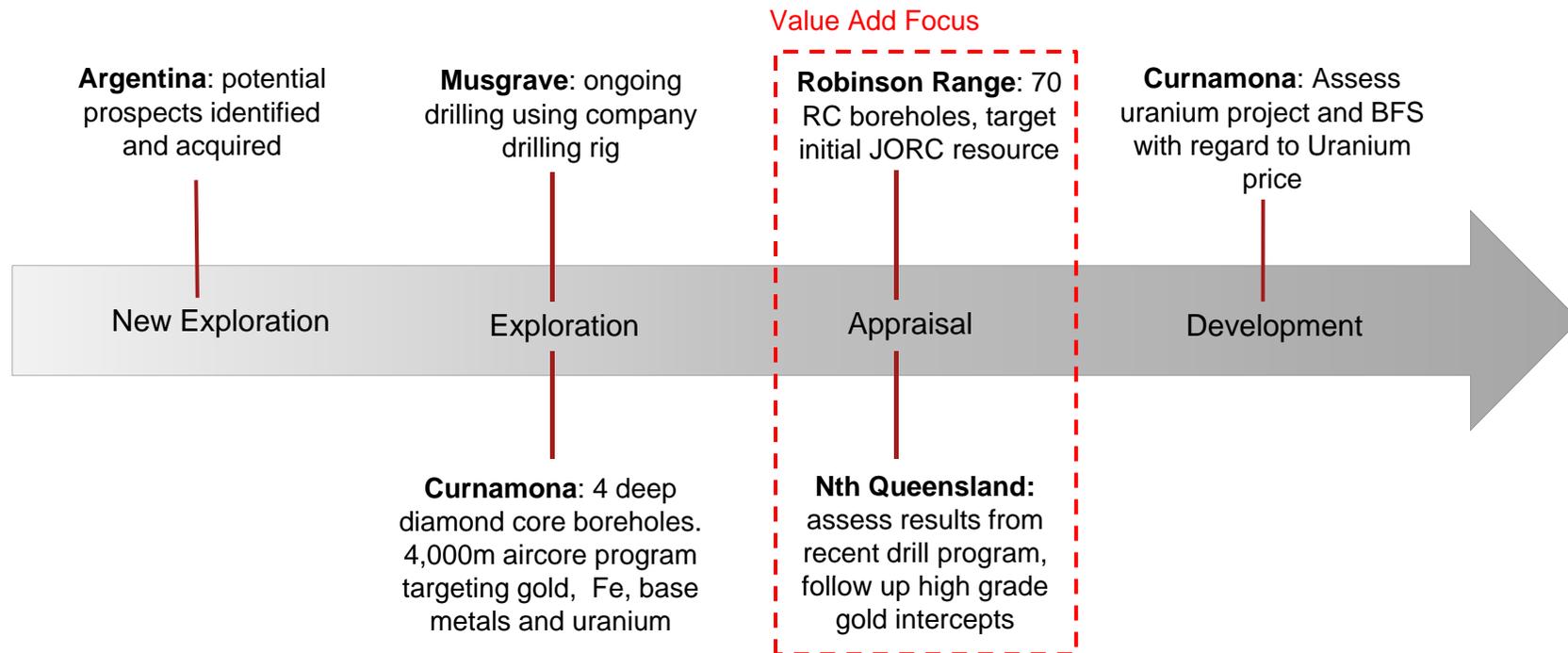


2011 Work Program

Exploration and development across the company's prospects, with a focus on resource definition in the Robinson Range and Nth Queensland projects

PepinNini has an active but low cost program in 2011 underpinned by:

- Free carry JV spend by Sinosteel in the Curnamona prospects
- Low cost exploration in Musgrave using company's own equipment
- Total Company spend to be in the order of \$2.5 - \$3m for calendar year



Low Cost Exploration

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

- Company currently owns a diamond drilling rig with the capability 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 located at the Musgrave and Curnamona project sites
- 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. \$200,000/month



2010 Highlights

Robinson Range (Iron Ore)

- Completion of Farm-in obligations to earn a 50% interest in 3 tenements and a 40% interest in 4 tenements with iron ore potential in the Midwest of WA
- Execution of a JV Agreement to explore and develop the identified Direct Shipping Ore (DSO) potential. Substantial iron mineralisation identified in outcrop at 12 prospect sites with surface sample grades of up to 67.3% Fe

Musgrave (Nickel/Copper)

- Awarded an additional two exploration licence applications in the Musgrave Province through a tender process conducted by Primary Industries & Resources South Australia (PIRSA)
- The areas are considered highly prospective as they are dominated by Giles Complex mafic-ultramafic which is prospective for Ni-Cu sulphide mineralisation

North Queensland Project (Gold/Copper)

- Drilling program of 25 RC boreholes completed on Queensland tenements targeting high grade gold and copper. Encouraging early results including:
 - 2 metres @ 10.1g/t gold, 33g/t silver
 - 1 metre @ 20.3 g/t gold, 35g/t silver
 - 3 metres @ 7.2 g/t gold, 13g/t silver
 - 1 metre @ 14.9g/t gold, 223g/t silver
 - 4 metres @ 4.7g/t gold and 70g/t silver
 - 2 metres @ 3.5g/t gold and 4.7g/t silver

Curnamona (Uranium/Base Metals/REE)

- Completion of an independent JORC compliant estimate of the mining recoverable uranium resources of the Crocker Well Uranium Project.
- At a cutoff grade of 150ppm U_3O_8 the combined deposits at Crocker Well consists of an Indicated Resource totalling 13,250,000 tonnes at 283 ppm U_3O_8 for 3,750 tonnes (8.27 Mlbs) contained U_3O_8 , and an Inferred Resource totalling 5,590,000 tonnes at 275 ppm U_3O_8 for 1,537 tonnes (3.39 Mlbs) contained U_3O_8 .
- Identification of REE, base metal and Fe potential



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.



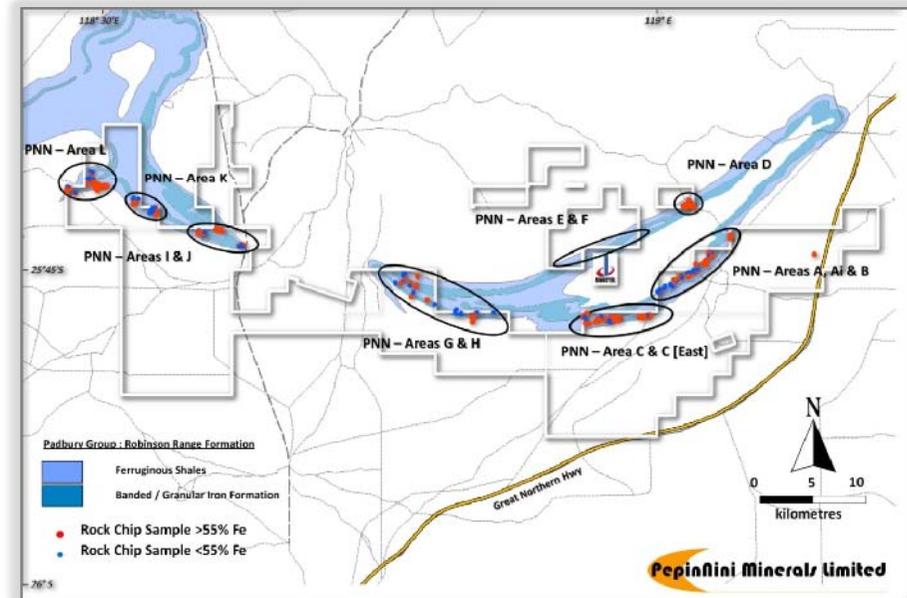
Robinson Range Iron Ore

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 will manage exploration on behalf of other JV participants (Grosvenor gold 40% and FEL 20%)
- DSO grades, >60%Fe, low phosphorous and other contaminants
- At least 12 outcropping iron ore prospects identified

2011 Program

- 70 RC boreholes for 5,000 metres about to commence
- Initially targeting an Inferred JORC resource of at least 10 million tonnes DSO grade hematite and delineation of the potential for a resource of at least 100 million tonnes

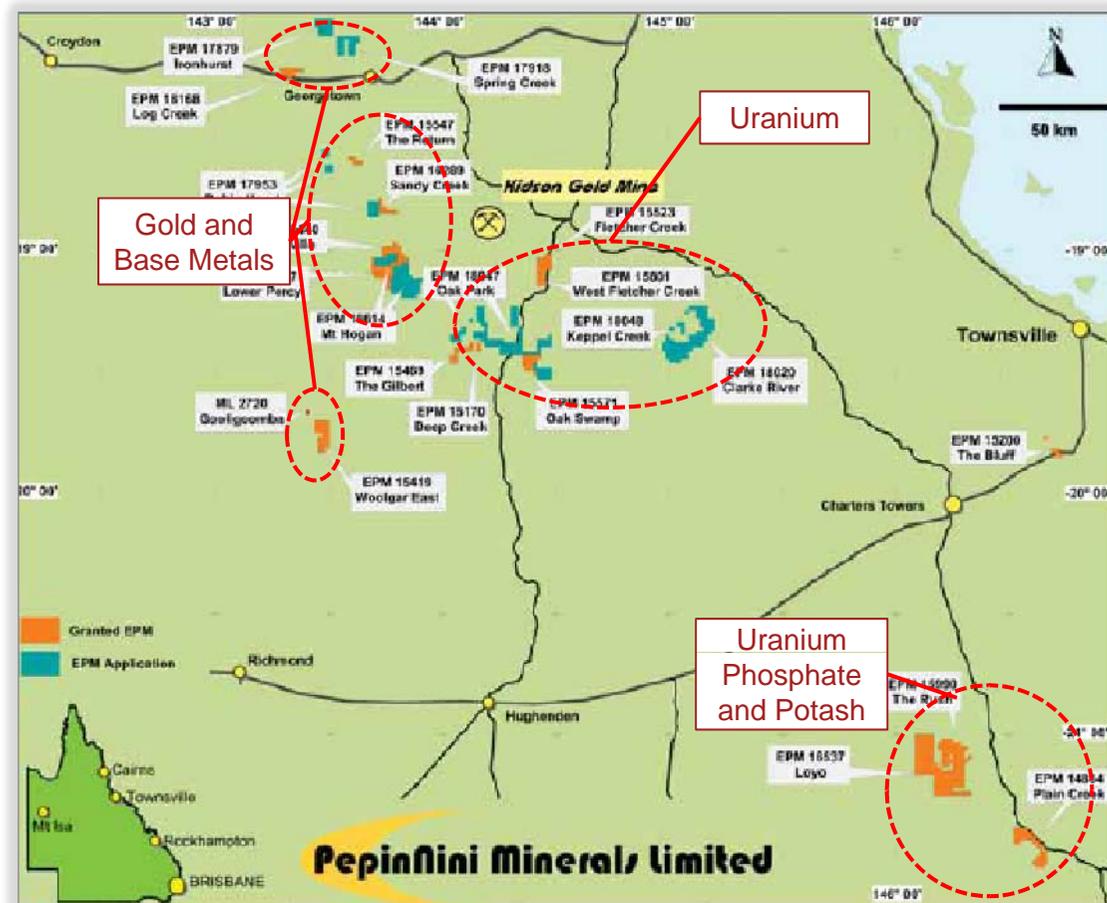


North Queensland Project

North Queensland project includes a 100% interest in 21 tenements covering 1,895km². The tenements are prospective for gold, silver, copper, base metals, uranium, phosphate and potash. PepinNini is currently focusing on high grade copper/gold/silver targets identified in EPM15547 and EPM15440.

Project Key Points

- Encouraging early results from recent drilling program investigating high grade shallow gold and copper targets
- Economic viability of developing the mineralisation recently intersected to be assessed by a Scoping Study
- Uranium potential largely untested by previous explorers
- Phosphate and potash potential



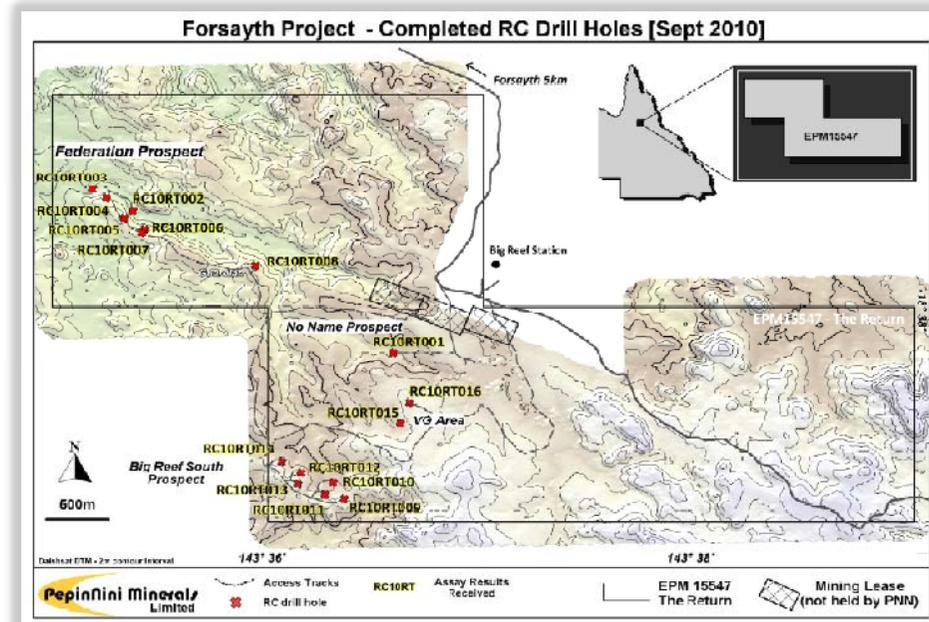
North Queensland Project

High grade gold, silver and copper targets across EPM15547 'The Return' and EPM15440 'Percyville'. PepinNini will be assessing the potential for thin seam development.

North Queensland region has been active with a number of Gold Exploration companies raising money for exploration - regional activity will be increasing

High Grade Seams

- 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



Curnamona Project

- 40% interest in 5 tenements covering 3,778 kms², Joint Venture alliance with Sinosteel Corporation
- JORC compliant uranium resource of 11.66million lbs. 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 (\$6million expenditure commitment by Sinosteel under JV agreement)
- Rare Earths Element (REE) and Iron (Magnetite) potential identified

Uranium Resource

Category	Pounds (U ₃ O ₈)	Tonnes (U ₃ O ₈)	Cut-off Grade	Ave. Grade
Indicated	8,270,000	3,750	150ppm	283ppm
Inferred	3,390,000	1,537	150ppm	275ppm

Base Metals Potential



Encouraging drill intersections by previous explorers include 10m @ 2.07g/t Au, 0.74% Cu, 5.6m @ 8.5% Cu and 32m @ 0.66% Zn

Musgrave

- 10 tenements covering 9,601 kms²
- Long term commitment to explore 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 3 tenements
- Cost effective exploration with company owned drilling rigs, support equipment and field camp.



Argentina

PepinNini is currently incorporating an Argentinean entity to acquire exploration tenure and assessing opportunities in Argentina and other South American countries.

A portfolio of projects is to be established through the application for prospective exploration tenure and the acquisition of quality existing projects

Initially targeting copper, gold and silver





PepinNini

Minerals Limited

- *Diversified minerals exposure*
- *Significant JV partners*
- *Low cost exploration*
- *Experienced team and management*
- *Extensive 2011 work program*