



**Pepinini**  
Minerals Limited

**Investor Update Presentation  
July 2013**

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The information in this presentation that relates to Exploration Results and Mineral Resources is based on information compiled by Phil Clifford BSc MAusIMM. Phil Clifford is the Technical 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". Phil Clifford consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

# Company Summary

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

## **Musgrave Province – Nickel/Copper – NW South Australia**

- 10 tenements covering 9,601 km<sup>2</sup>, exploring for world class Ni-Cu sulphide mineralisation
- JV alliance with Rio Tinto on 3 tenements
- Multiple New EM drill ready targets identified – Encouraging massive to semi-massive matrix and disseminated sulphides intersected in recent drilling
- Analogous geological setting to the recent Nova magmatic Ni-Cu discovery by Sirius Resources

## **Curnamona Province – Uranium/Base Metals/Magnetite – NE South Australia**

- 40% interest in 5 tenements covering 3,778km<sup>2</sup>, in JV with Sinosteel
- BFS for Crocker Well Uranium Deposit on hold until A\$ uranium price improves
- Significant Braemar Ironstone Magnetite drilling results, Coarse Magnetite intersections
- Numerous Gold and Base Metal targets yet to be investigated

# Company Summary

## Robinson Range – Iron Ore – Western Australia

- PepinNini is the operator for 7 tenements covering 700km<sup>2</sup> - 50% interest in 3 tenements and 40% interest in others
- JORC Inferred resource of 18MT @ 50% Fe, 4MT @ 55% Fe, DSO grades, low phosphorous

## Nth Queensland – Copper/Gold, Uranium - Woolgar Goldfield / Georgetown Inlier

- Asset divestment program is underway. Have sold 6 tenements for \$850,000.
- Three of the remaining six tenements are very prospective for uranium. Oasis Project contains shear hosted uraninite mineralisation over a strike extent of 300m with an average grade of 0.1% U<sub>3</sub>O<sub>8</sub>. (Queensland Government lifted its uranium mining ban on 22nd October, 2012).

## Argentina – Copper/Gold/Silver – Salta Province

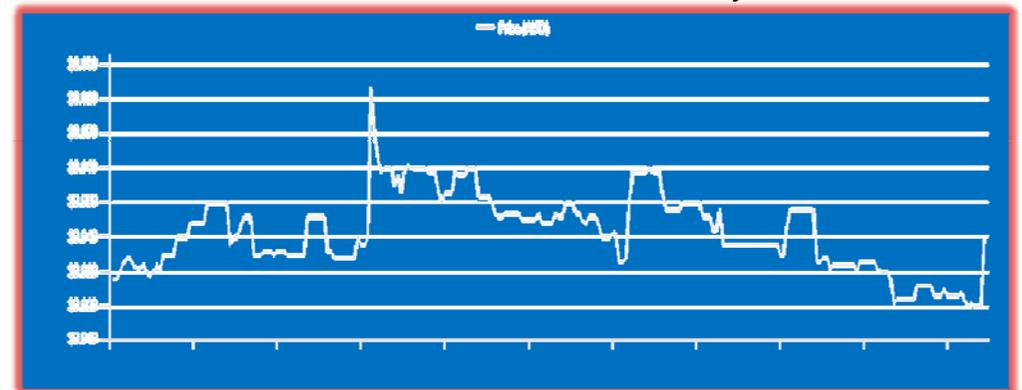
- 100% in 7 tenements covering ~300km<sup>2</sup>
- Santa Ines lies between BHP's giant Escondida Cu-Au porphyry and the Lindero Gold porphyry (2.2Moz Au)
- Surface samples include up to 21% Cu, 0.9 g/t Au and 34.9 g/t Ag

# Corporate Snapshot – 4 July, 2013

ASX Code	PNN
Shares on Issue	115,177,993
Options on Issue	6,600,000 (Employee)
Shareholders	1,727
Share price	A\$0.04
Market Capitalisation	A\$4.6m
Cash	~A\$1.0m (+ \$1m expenditure from Sinosteel JV)
Enterprise Value	~A\$3.6m
Debt	A\$0
Top 20 Shareholders	56.2% of capital



Share Price 12 months to 4 July 13



# Experienced Directors & Management



**Rebecca Holland-Kennedy** B.Sc., B.Arts, MAusIMM , MAICD

**Managing Director** Geologist with more than 30 years experience in exploration and management. Ex BHP, Amax, AGL, CRA, Macquarie & Sydney University, NSW Mines Dept

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**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

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**Phil Clifford** B.Sc., MAusIMM - **Technical Director – Exploration Manager**

Geologist with more than 23 years experience in Exploration Management within Australia including 15 years with Rio Tinto before joining PepinNini in 2004

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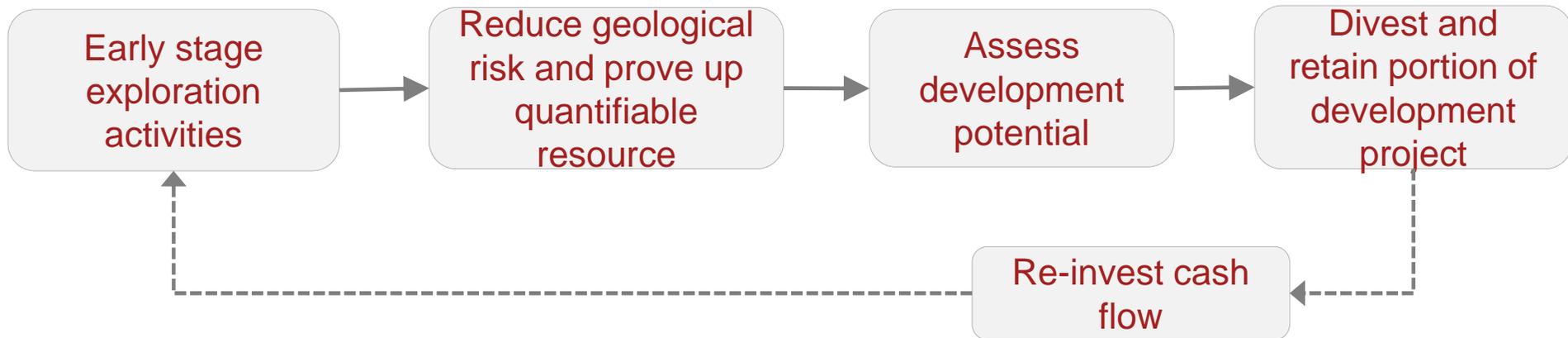
**Justin Nelson** B.Arts(Jurisprudence), LLB - **Company Secretary**

Lawyer who was ASX's State Manager, SA and Manager, Listings (Adelaide). He has extensive knowledge of ASX listing rules and is a Special Counsel with DMAW Lawyers.

# Company Growth Strategy

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

*Development of projects are pursued within an appropriate structure or with a 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 in 2008.*

# Musgrave Field Camp – South Australia



# Project Summaries

# Robinson Range Iron Ore Project Key Points

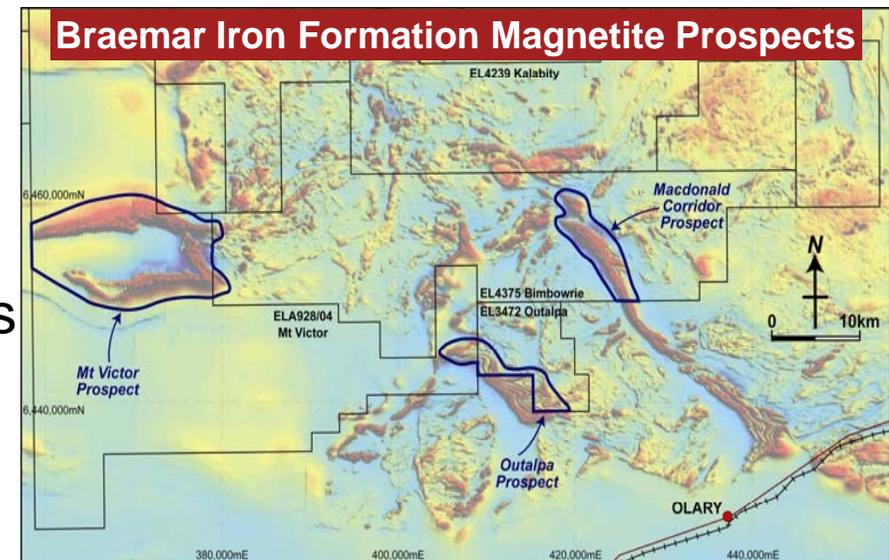
- 7 tenements covering 700km<sup>2</sup> Fe prospective ground in Midwest Province of WA
- PepinNini has a 50% interest in the iron ore rights of three tenements and 40% interest in an additional four tenements
- PepinNini manages exploration on behalf of other JV participants (Grosvenor Gold 40% and 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

Million Tonnes	Cut Off %Fe	Density SG	Fe %	SiO <sub>2</sub> %	Al <sub>2</sub> O <sub>3</sub> %	P %	S %	TiO <sub>2</sub> %	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)

# Curnamona Project Project Key Points

- 40% interest in 5 tenements covering 3,778 kms<sup>2</sup>, JV alliance with Sinosteel Corporation
- The asset currently provides PepinNini shareholders with fully funded exploration opportunities with significant upside through further base metal evaluation, Braemar Ironstone Magnetite potential and Uranium price recovery
- \$1 million expenditure commitment by Sinosteel under JV agreement
- BFS on Crocker Well Uranium Deposit currently on hold until there is an improvement in the uranium price and US dollar
- Drilling intersections for Braemar Iron Formation Magnetite Project of up to 181 metres  
25.7% Fe (total Iron)



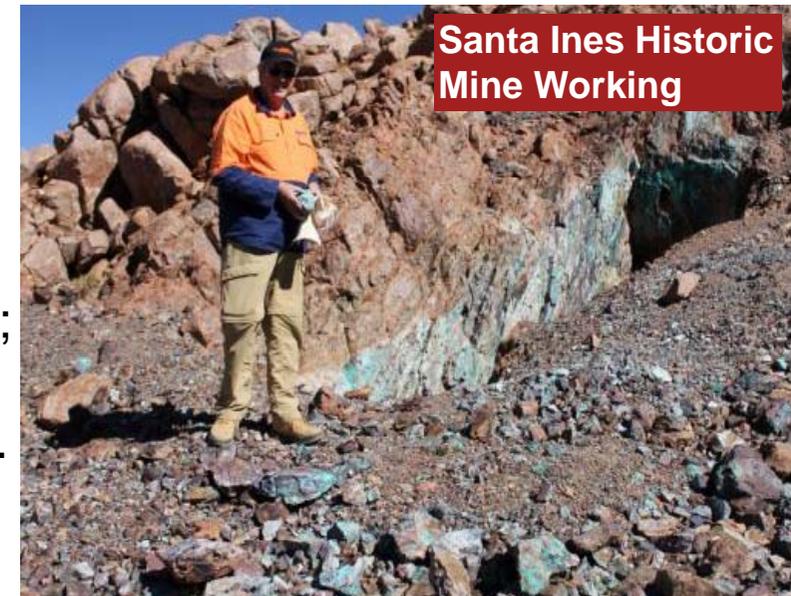
# North Queensland Project Project Key Points

- As part of a strategy to divest non-core assets the Company has sold six tenements it currently holds in North Queensland for a total consideration of \$850,000.
- Three of the remaining six tenements held by PepinNini in North Queensland cover 415km<sup>2</sup> and are prospective for uranium. The Oasis Project contains shear hosted uraninite mineralisation over a strike extent of 300m with an average grade of 0.1% U<sub>3</sub>O<sub>8</sub> as delineated by Esso Exploration and Production Australia Inc (1977-1979) and Glengarry (2005/2006).
- The Company is considering divestment options regarding these tenements in view of the Queensland Government lifting it's ban on uranium mining on 22<sup>nd</sup> October, 2012.

Oasis Uranium Deposit Significant Intersections (lower cut-off 0.05%, down-hole depths as true widths are not known)								
Hole_No	Easting	Northing	Total Depth (m)	From (m)	To (m)	Interval (m)	U <sub>3</sub> O <sub>8</sub> %	U <sub>3</sub> O <sub>8</sub> (lbs/t)
05LYD001	230573	7918732	100	54	64	10	0.12	2.64
incl				61	62	1	0.25	5.50
05LYD002	230588	7918685	65	34	41	7	0.17	3.74
incl				36	37	1	0.38	8.36
and				39	41	2	0.21	4.62
06LYD003	230536	79187182	101	92	97	5	0.15	3.30
incl				93	94	1	0.26	5.65
06LYD004	230469	79187123	195	170	172	2	0.15	3.30
incl				170	171	1	0.21	4.62

# Argentina Project

- 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.



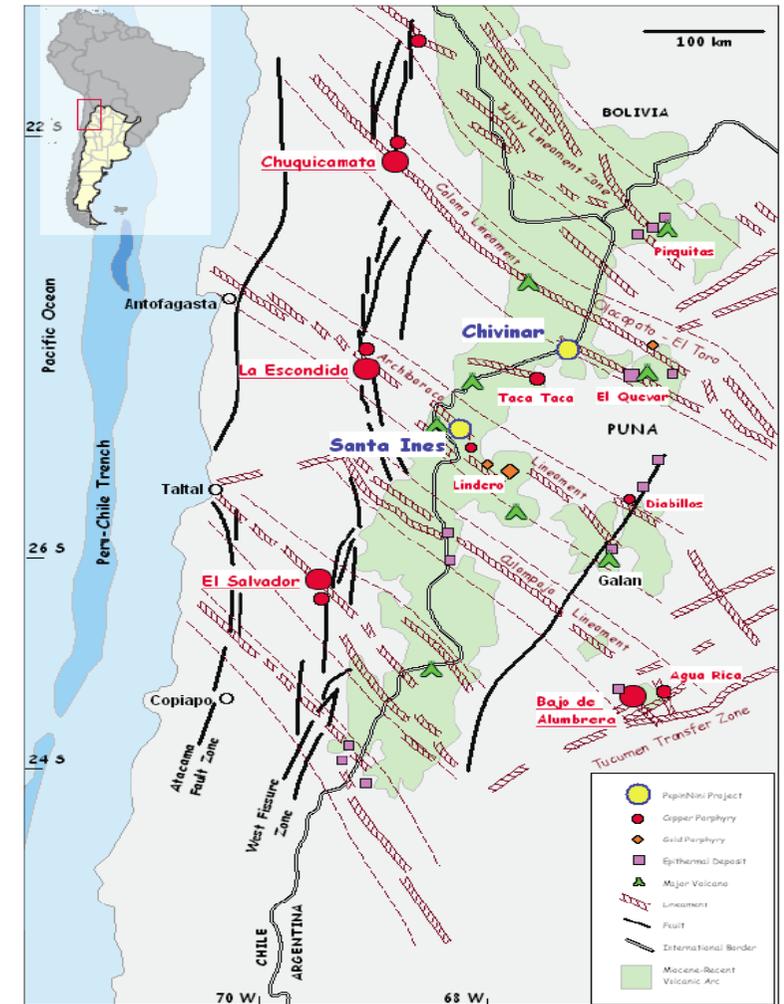
Four surface grab samples were collected in April 2012 from around the opening of a historic mine on the Santa Ines tenement.

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

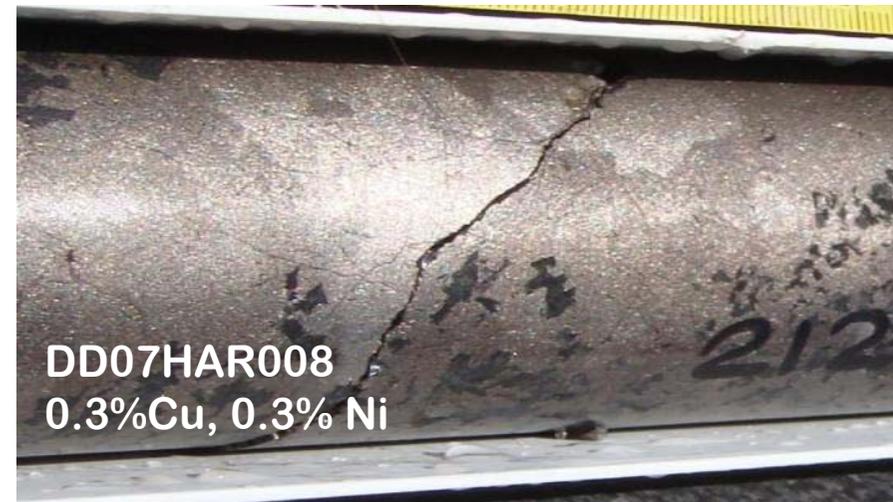
## Project Key Points

- 7 tenements covering ~300 kms<sup>2</sup> 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 (21%), gold (0.91g/t) and silver (34.9g/t) surface samples confirm potential for mineralisation within the Santa Ines Project Area.
- Ground geophysics planned for later in 2013.



# Musgrave Province Project – Current Exploration Focus

- PepinNini Minerals is targeting nickel-copper sulphide mineralisation and base metal mineralisation in the Musgrave Province located in the northwest of South Australia.
- 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.
- Airborne EM surveying identified a number of high priority conductivity targets which have recently been followed up by ground EM surveying and confirmed as encouraging drill targets
- Vacuum drilling, geochemistry and mapping supports the interpretation of concealed layered mafic intrusives within the Cooperinna Project area
- Diamond drilling at the Byron, Venus and Alma Prospects has encountered disseminated to massive magmatic sulphides bearing mafic/ultramafic rocks within favourable geological settings



# Musgrave Province Project - Project Key Points

- 10 tenements covering 9,601 kms<sup>2</sup> in NW South Australia
- Extensive exploration potential for world class size mineral deposits
- Analogous geological setting to the recent Nova magmatic Ni-Cu discovery by Sirius Resources
- 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
- Airborne and ground electromagnetic surveys have provided a number of quality magmatic sulphide targets that are currently being systematically drill tested.
- Encouraging intersections of sulphide bearing mafic intrusive breccia at the Alma Prospect support the current geological model and confirm the potential for significant magmatic sulphides within the target area.

# 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 revenue (revenue of ~\$800,000 in 2011/12)



# 2013 - 2014 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 2013 underpinned by:**

- \$1 million Free Carry JV spend by Sinosteel for the Curnamona Project - RC and diamond drilling programs
- Low cost exploration for the Musgrave Project using company's own equipment – vacuum and diamond drilling
- Argentina – geophysical surveys & initial drilling
- Total Company spend to be in the order of \$2.5m for 12 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*

# Pepinini

Minerals Limited



*Thank you*



**Pepinini**