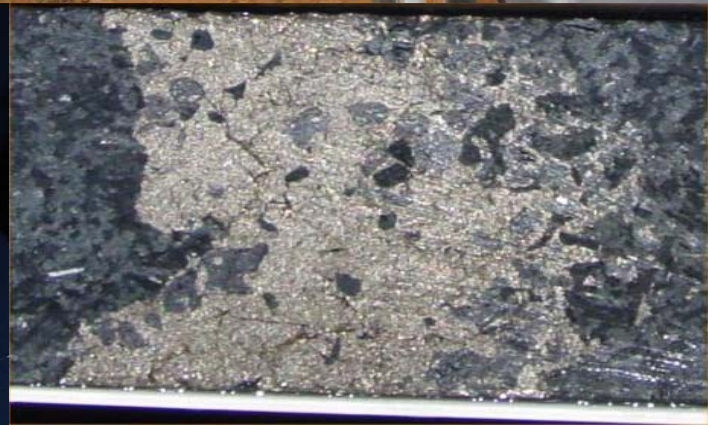


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PepinNini Minerals Ltd

The Robust, Resourceful Explorer

Presentation to AGM
Rebecca Holland Kennedy, Managing Director
6 November 2014



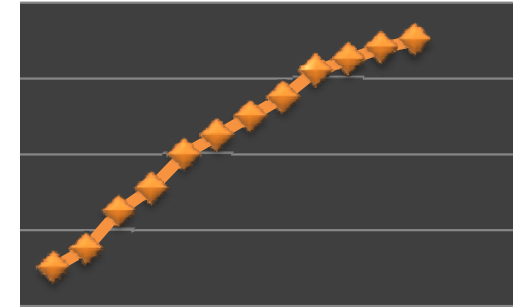
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2014 - Highlights

Strengthened balance sheet

- \$0.94m raised in entitlements issue, 62% subscribed
- Completed sale of Curnamona Project assets for \$2.3m
- Cash balance \$2.5m at end of September



Invested in new assets - West Musgrave (WA)

- Purchased option for up to 80% of Manchego Project
- Strong Ni-Cu and PGE prospects

Existing assets

- **Central Musgrave** – Evidence of massive to strongly disseminated sulphides (up to 0.25% Cu)
- **Argentina** – Anomalous Cu and Au found at El Obsequio Prospect

R&D collaboration – CSIRO

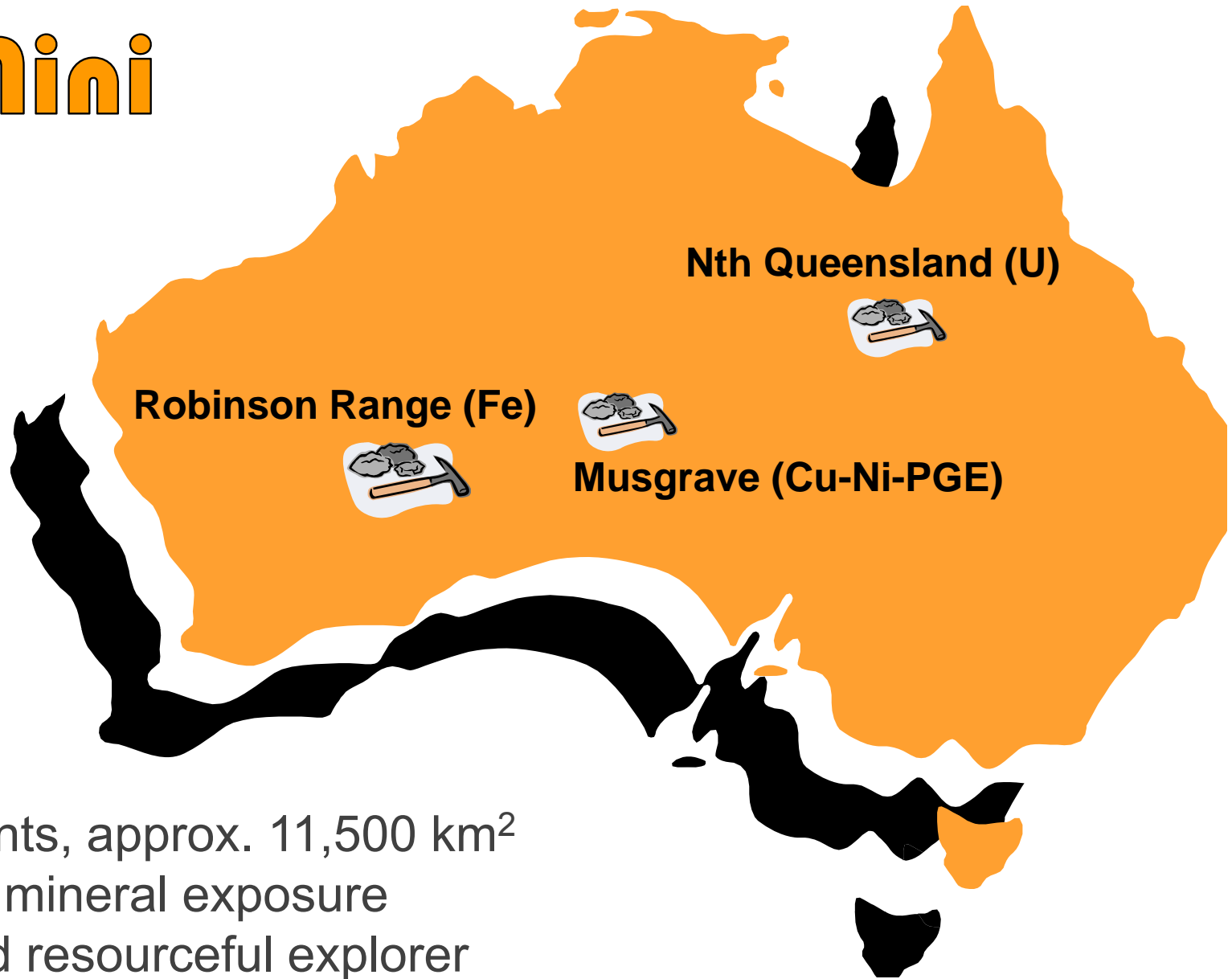
- Co-funding to \$0.5m of airborne data collection and modelling in central Musgrave

Revitalised PNN now poised for a significant discovery

Corporate Snapshot (November 2014)

ASX Code	PNN
Shares on Issue	170,047,389
Options on Issue	41,158,105
Shareholders	1,629
Share price	A\$0.02
Cash	A\$2.3m
Top 20 Shareholders	66.2% of capital
Revenue (drilling and field operations) - FY14	A\$0.81m
Exploration expenditure - FY14	A\$1.55m

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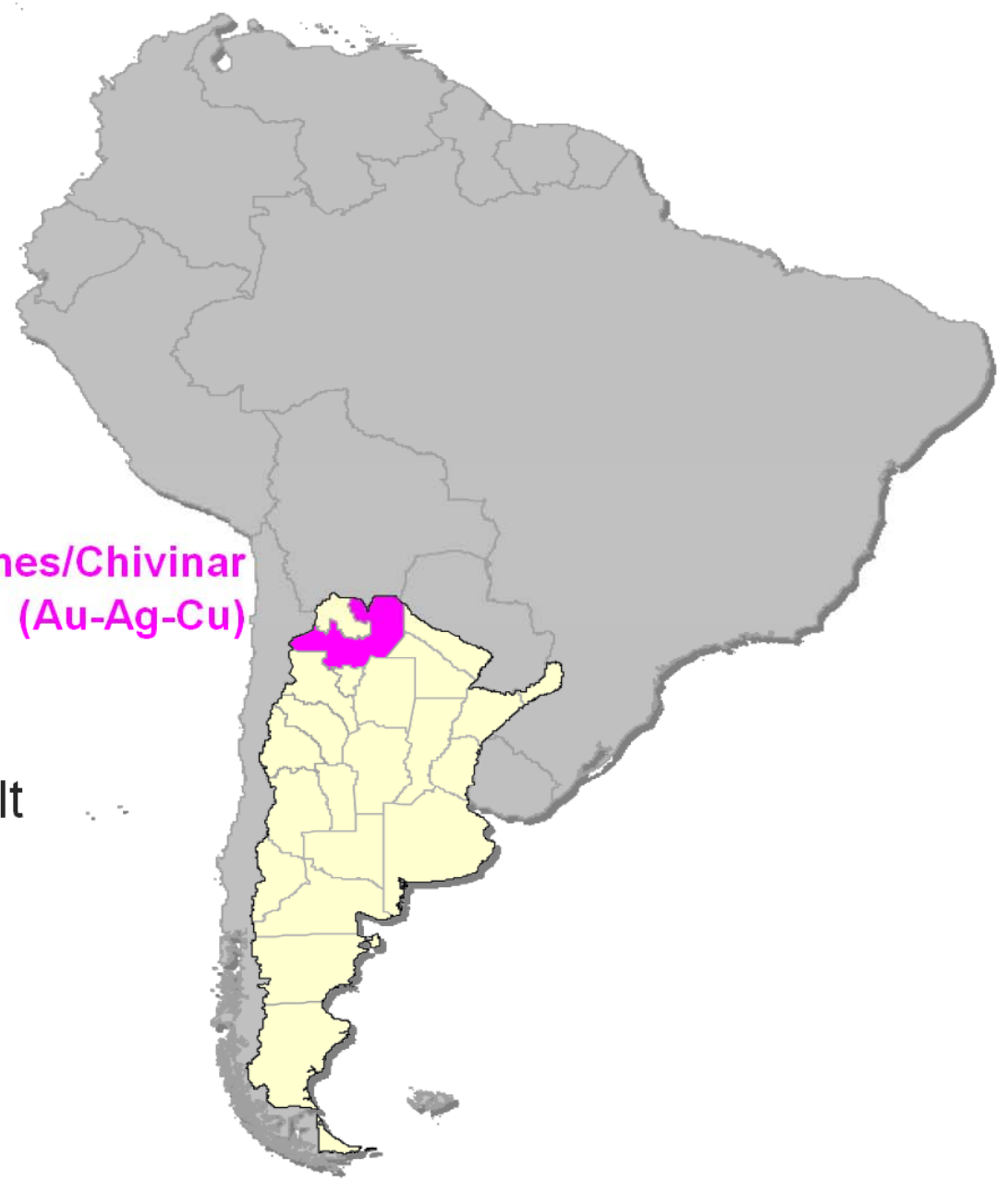
- 24 tenements, approx. 11,500 km²
- Diversified mineral exposure
- Robust and resourceful explorer

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Argentina (Salta Province)

- 5 mining leases
- 1 exploration licence
- 6 conversion applications
- 287km² in total
- Blue-ribbon terrain in Andean belt

Santa Ines/Chivinar
(Au-Ag-Cu)



Musgrave Project (SA)

Overview

- Last remaining untapped geological province in Australia

- 10 tenements, 9,600 km²

- JV with Rio Tinto on 3 tenements

- Evidence of Ni-Cu sulphide mineralisation

- Magmatic sulphide intersections at Marrawah, Woodroffe (JV tenement)
- Cu grades up to 0.25%
- Success validates target modelling technique

- Field camp, PNN drill rig in place → cost-effective exploration

Recent developments

- R&D collaboration with CSIRO
 - Airborne EM collection and interpretation of geophysical data
 - Accelerated, cost-effective targeting
 - CSIRO co-funding of up to \$0.5m, Q1 2015

Musgrave Project (WA)

A significant new exploration opportunity that extends PNN's footprint into West Musgrave (WA)

- JV with Phosphate Australia (ASX:POZ)
- 2-year option for up to 80% of 2 tenements in Manchego Prospect, covering 785 km² (cost \$150k) – Spinifex Range Project
- Highly prospective for Ni-Cu-PGE mineralisation
- PNN committed to spend \$500k in exploration over period of option
- Within two years, can acquire up to 80% of project for further \$500k
- Tenement adjacent to the Nebo Babel Deposit of Cassini Resources (ASX:CZI), infrastructure development planned

Spinifex Range - unique potential for a world-class discovery

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Argentina Project

Overview

Santa Ines and Chivinar Projects

- 12 tenements, 286 km²; 100% owned

Strategic location

- Andean belt, blue-chip pedigree
- BHP Escondida Cu-Au deposit 80km to northwest
- Close to gas, power, rail connections

Promising mineralisation

- Cu-Au-Mo porphyry deposits (very high grades evident)
- High-grade epithermal Ag deposits
- Iron ore

Recent developments

- Early mapping, sampling, geophysics at Santa Ines
- Two target models defined:
 - El Obsequio (The Gift)
 - La Recompensa (The Reward)
- Anomalies detected at El Obsequio
 - Cu 228 ppm
 - Au 39.1 ppb

Nth Queensland Project

Overview

- Six tenements sold in FY13 for \$0.85m
- Five remaining tenements prospective for uranium, gold
- Oasis Uranium Prospect
 - Shear hosted uranite mineralisation over 300m
 - Grades of 0.1% U_3O_8

Recent developments

- Divestment program ongoing
- Positives for sale prospects
 - Uranium exploration and mining ban lifted in Qld
 - Price recovery

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Robinson Range Project (WA)

Overview

- Iron ore prospect, seven tenements, 700 km², adjacent to Pilbara
- PepinNini:
 - 50% share of iron ore rights for three tenements
 - 40% share of remaining four tenements
 - Manages exploration on behalf of other JV participants (Grosvenor Gold, FE Ltd)
- Encouraging prospects, delineated JORC 2004 inferred resource
 - DSO hematite grades > 55% Fe with low phosphorous

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)

Recent developments

- Maintenance and rehabilitation program
- Will consider whole or part divestment

2015 Program

Musgrave SA – Caroline Project

- CSIRO collaboration on airborne geophysical assessment
- Follow-up ground geophysics and drilling

West Musgrave - Spinifex Range Project

- Airborne and ground geophysics for target modelling
- Follow-up drilling

Argentina

- Evaluate exploration data from Santa Ines
- Mapping, sampling and geophysics at Chivinar

Portfolio Strategy – FY15 and Beyond

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North Queensland
Explore divestment options; Assess uranium potential

Musgrave (SA)
Active Exploration

West Musgrave
Active exploration

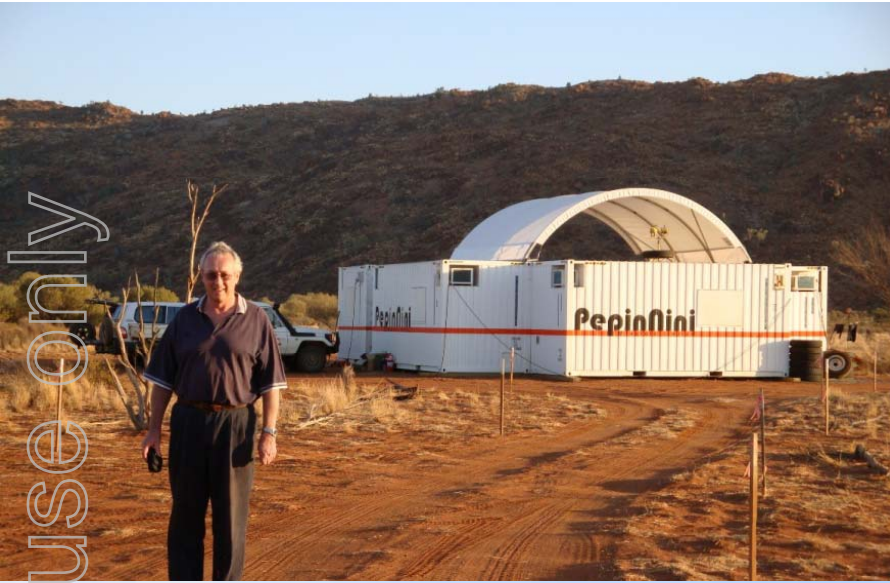
Robinson Range
Maintenance, consider options for asset consolidation

Argentina
Active exploration; evaluate project



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Thank you

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- The information for Robinson Range, WA in slide 11 was prepared and first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code 2012 on the basis that the information has not materially changed since it was last reported.
- The information in this presentation that relates to Exploration Results and Mineral Resources is based on information compiled by Philip Clifford BSc MAusIMM. Mr 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 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Clifford consents to the inclusion in the report of the matters based on his information in the form and context in which it appears