



# **PepinNini Minerals Ltd**

## *The Robust, Resourceful Explorer*

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



ABN 55 101 714 989  
**Pepinini**  
Minerals Limited



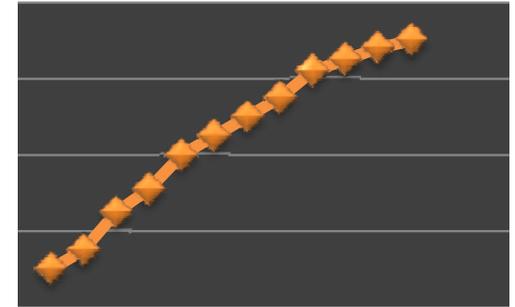
# ANNUAL REPORT 2014

A DIVERSIFIED AUSTRALIAN MINERAL EXPLORATION COMPANY

# 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

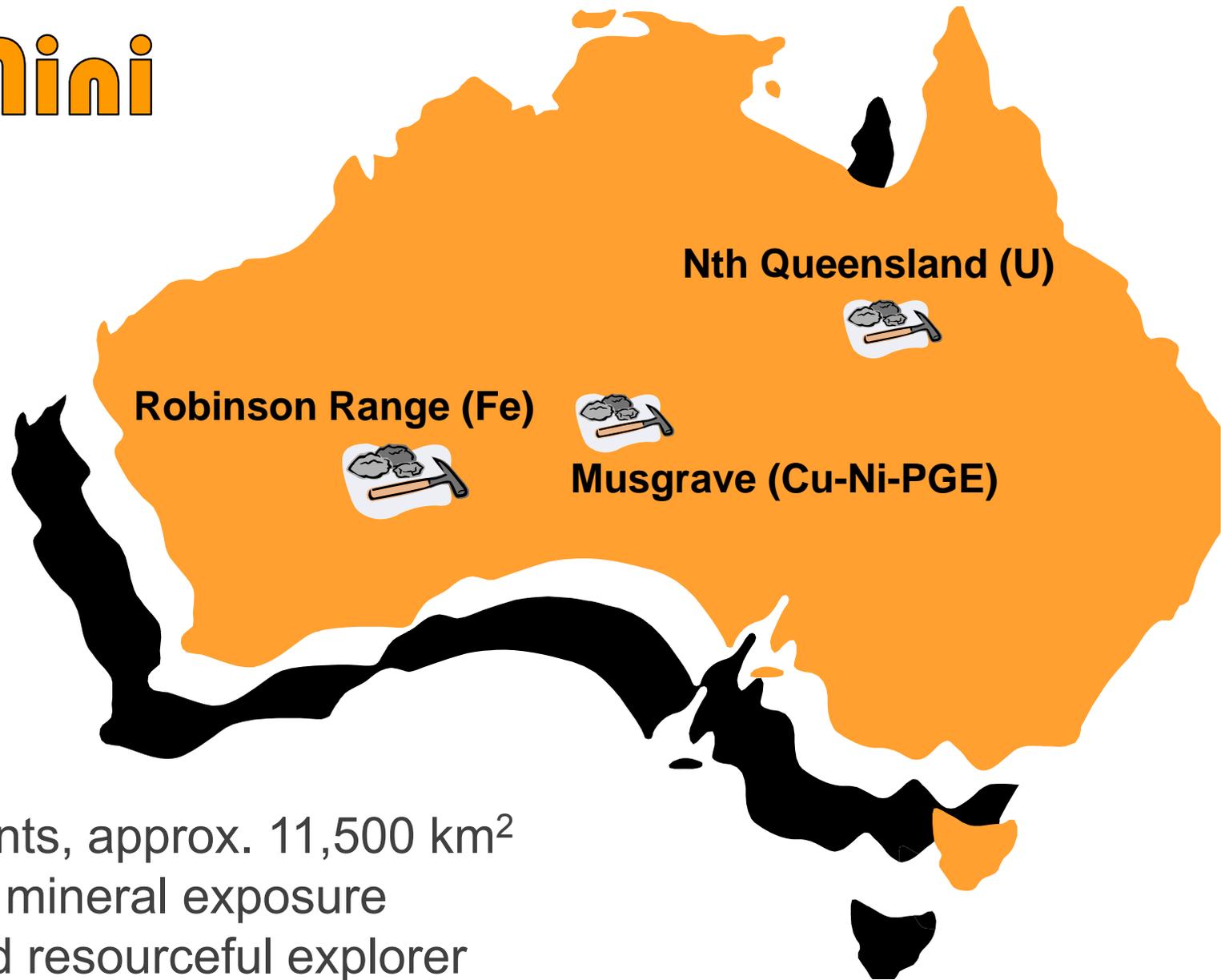
- Co-funding to \$0.5m of airborne data collection and modelling in central Musgrave

***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

# Pepinini



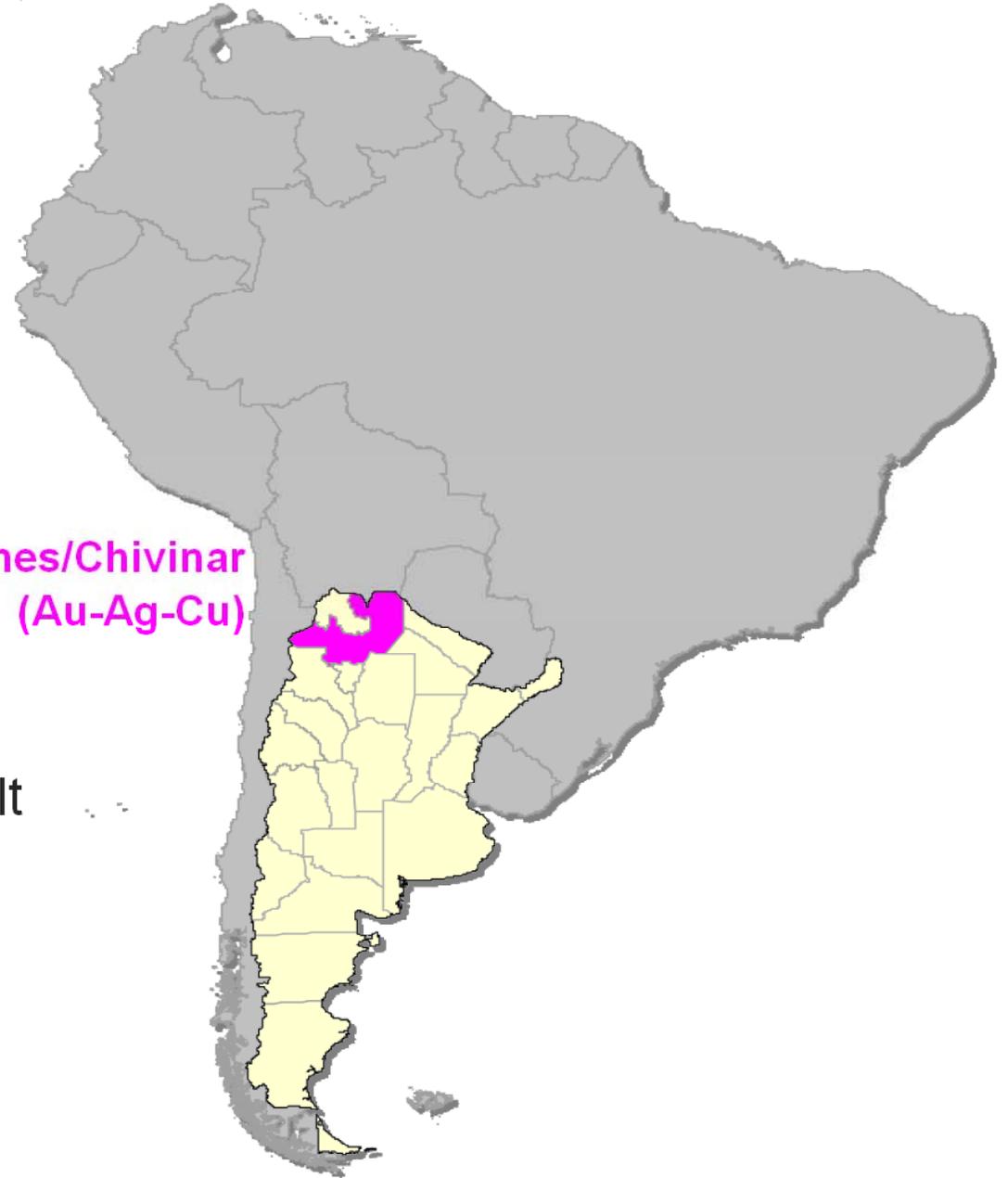
- 24 tenements, approx. 11,500 km<sup>2</sup>
- Diversified mineral exposure
- Robust and resourceful explorer

# Pepinini

## Argentina (Salta Province)

- 5 mining leases
- 1 exploration licence
- 6 conversion applications
- 287km<sup>2</sup> 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 km<sup>2</sup>
  - 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 km<sup>2</sup> (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*

**Pepinini**

# Argentina Project

## Overview

### Santa Ines and Chivinar Projects

- 12 tenements, 286 km<sup>2</sup>; 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

**PepinMini**

# Robinson Range Project (WA)

## Overview

- Iron ore prospect, seven tenements, 700 km<sup>2</sup>, 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 <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)

## 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

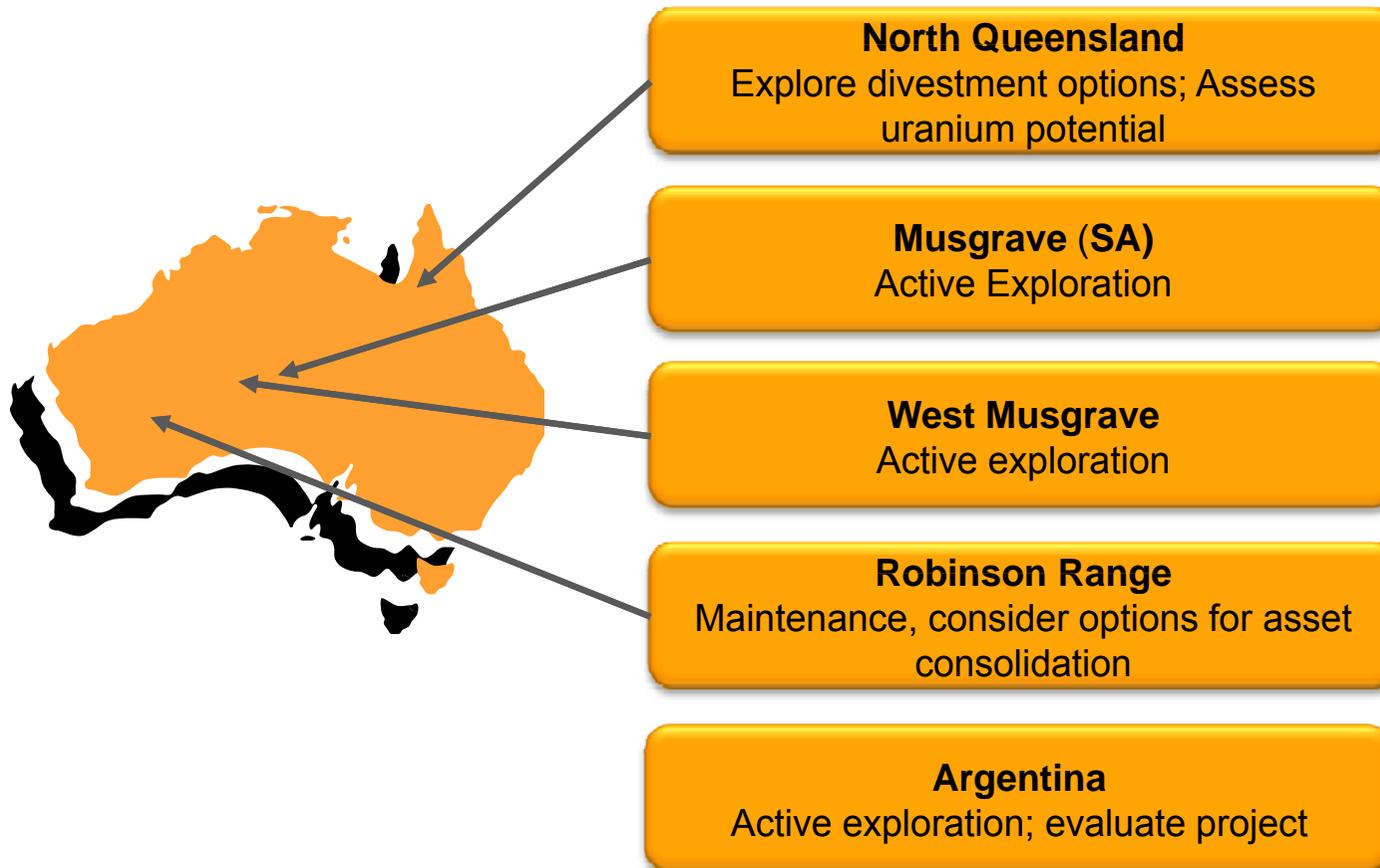
## West Musgrave - Spinifex Range Project

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

## Argentina

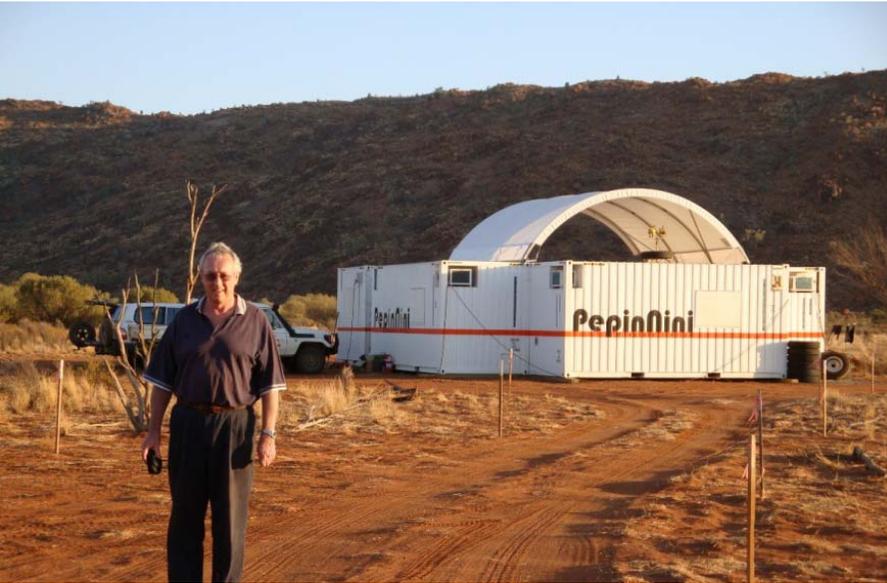
- Evaluate exploration data from Santa Ines
- Mapping, sampling and geophysics at Chivinar

# Portfolio Strategy – FY15 and Beyond



# Thank you

# PepinNini



## Disclaimer and Competent Persons Statement

- ❑ The information in this presentation is published to inform you about PepinNini Minerals Limited and its activities. All reasonable effort has been made to provide accurate information, but we do not warrant or represent its accuracy and we reserve the right to make changes to it at any time without notice.
- ❑ To the extent permitted by law, PepinNini Minerals Limited accepts no responsibility or liability for any losses or damages of any kind arising out of the use of any information contained in this presentation. Readers are advised to consult a stockbroker or professional adviser before making any investment decisions.
- ❑ 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