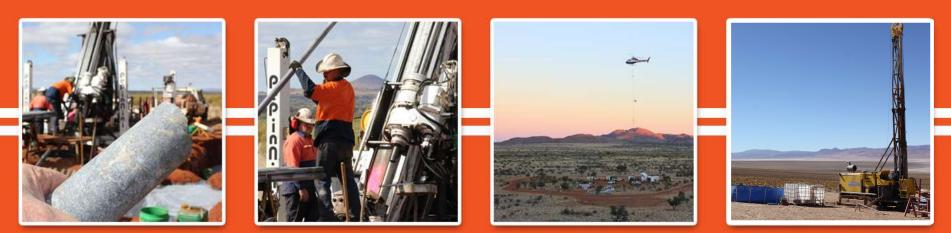
# PepinNini Minerals Investor Presentation A diversified explorer pursuing world-class discoveries

**ASX:PNN** 



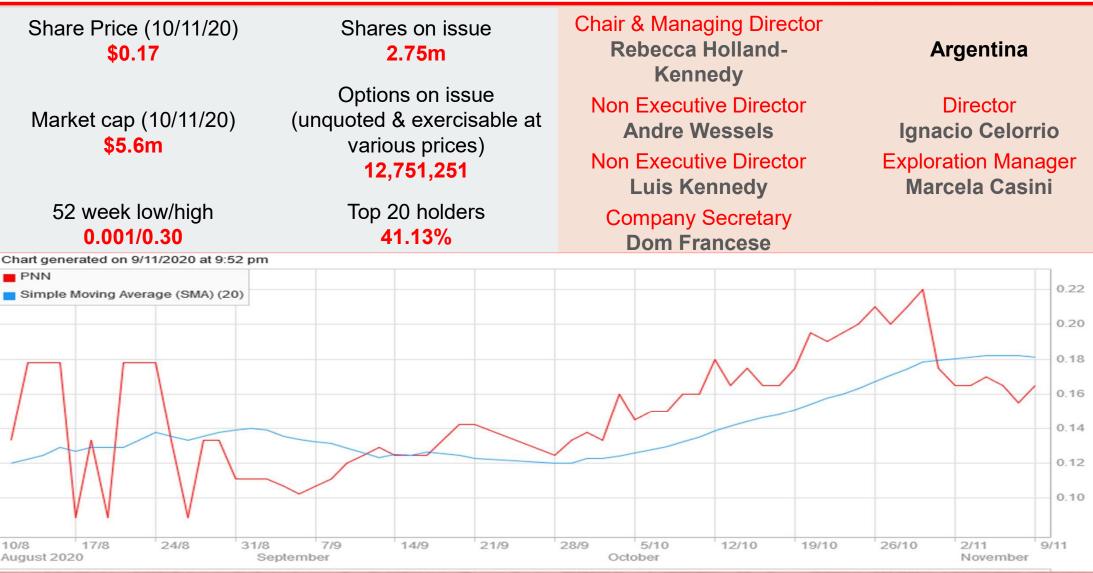
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- The information in this presentation on the Musgrave Project has been prepared with information compiled by Phil Clifford, MAusIMM. Phil Clifford has sufficient
  experience which is relevant to the style of mineralisation and type of deposit under 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". Phil Clifford consents to the inclusion in the presentation of the
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- Marcela Casini MAusIMM is the Exploration Manager-Argentina 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". Marcela Casini consents to the inclusion in the report of the matters based on her information in the form and context in which it appears.

# **Corporate Snapshot**

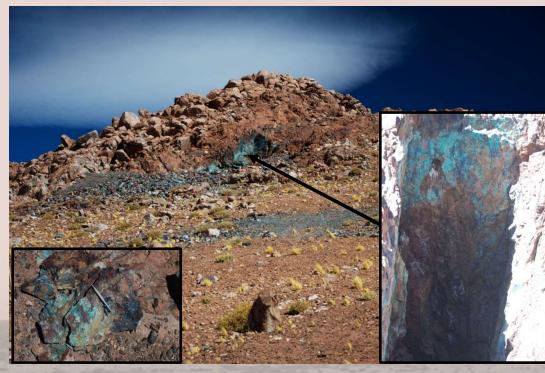
### **Board Management**

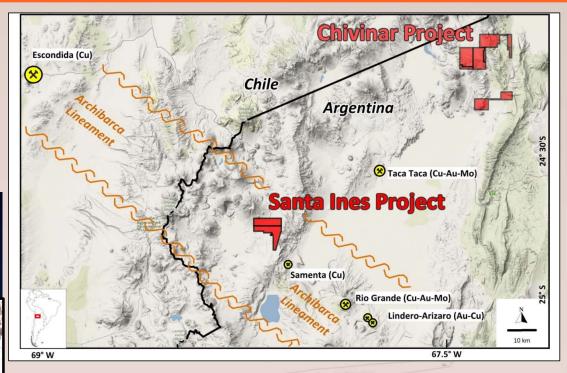




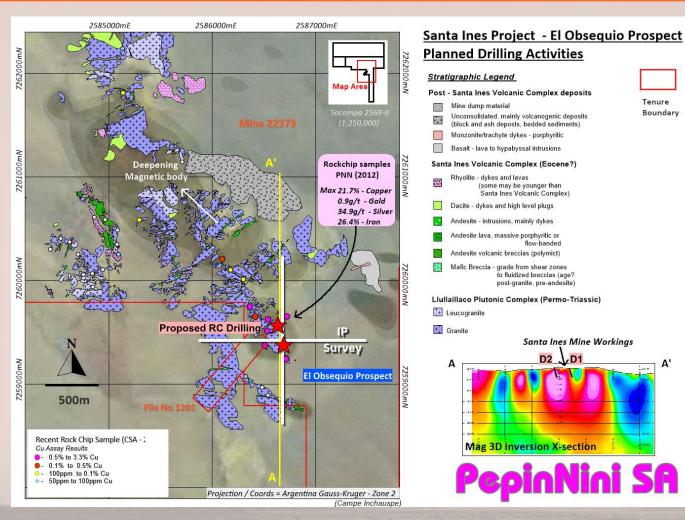
## **Santa Ines Copper Gold Project – Strategic Location**

- Located 80km from Copper Mine Escondida (BHP) on same geological structure
- High grade surface samples from historic workings 21.7% Copper, 0.91g/t Gold, 34.9g/t Silver,
- Subsequent surface sampling 3.25% Copper, 0.8g/t gold, 12.5g/t Silver & 91.1ppm Molybdenum





## Santa Ines Copper Gold Project – Work done and planned

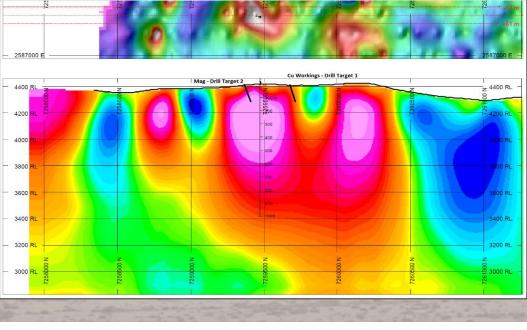


- Ground IP geophysical survey indicated potential targets for drilling
- Drilling permit expected before the end of the year
- Drilling planned initially two boreholes – January 2021



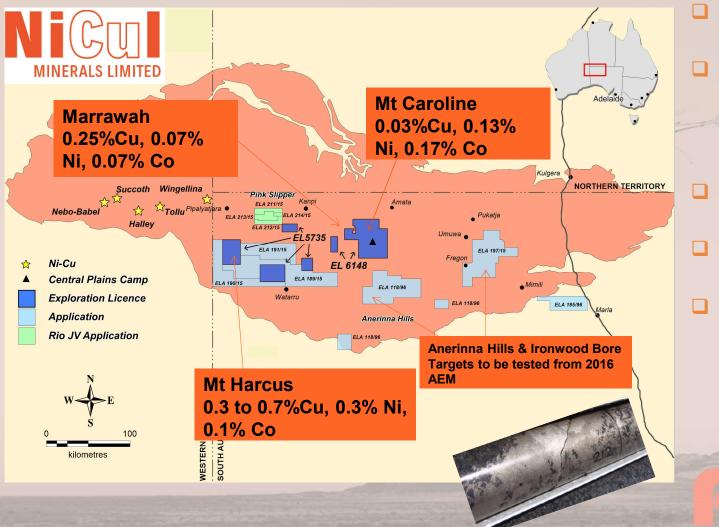
## **Santa Ines Copper Gold Project – Drilling Targets**

- Drilling target 1 to test historic workings
- Drilling target 2 to test deeper geophysical target El Obsequio





# **Musgrave Project - Overview**



Project is 100% owned by PepinNini subsidiary NiCul Minerals Ltd

10 tenements 100% NiCul covering 14,003 km<sup>2</sup>

- 2 granted exploration licences(EL)
- 8 applications (ELA)
- 4 Farm-in JV (to 51%) ELAs with Rio Tinto, covering 615km<sup>2</sup>
- PepinNini owned & operated drilling equipment and camp
- Company has extensive track record at the Project
  - 24,474m 83 cored holes drilled, 12,252 samples analysed
  - 41,258m 4,195 Geochem non-core holes drilled

## **Musgrave Project Highlights**



 The most under-explored region of Australia
 Targeting magmatic Ni-Cu-Co sulphide discoveries
 Priority targets generated from 2016 CSIRO-SA Gov-PNN – airborne electromagnetic survey(AEM)

Core Target: the Pink Slipper Target – a Farm-in JV with Rio

#### AEM - Unlocking new discovery targets at Musgrave



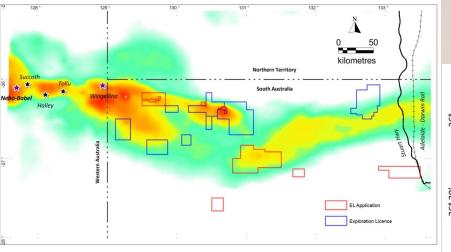
Helicopter mounted SkyTem <sup>312</sup> Fast AEM

Fixed Wing Tempest® AEM

- Collaboration of PNN, CSIRO, SA Govt and Geoscience Australia for airborne electromagnetic(AEM) survey over 31,000km<sup>2</sup> of Musgrave Province
- □ Targeting areas previously never surveyed including 50% of PNN tenure

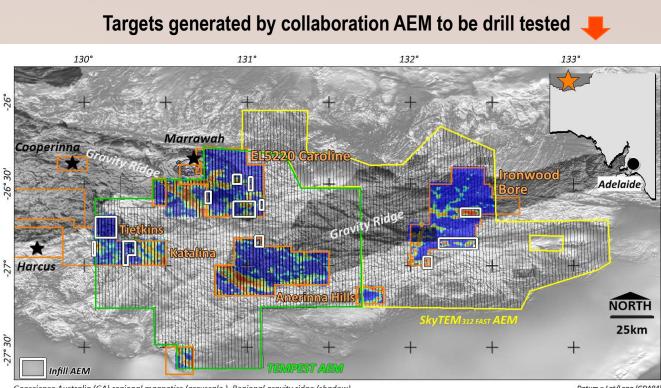
Delivered accelerated target definition for PepinNini

## **Technical innovation delivers enhanced targets**



**Musgrave Province Regional Gravity Image pre-2016** collaboration AEM

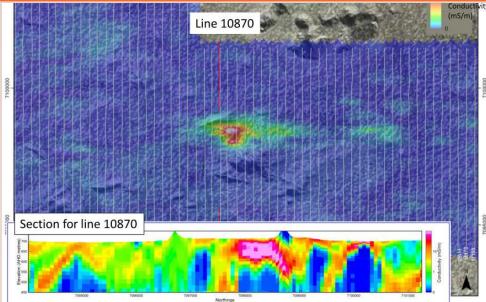
> Collaboration AEM is a game changer – delivers enhanced geophysical targets



Geoscience Australia (GA) regional magnetics (greyscale ), Regional gravity ridge (shadow) Tempest EMZ channel 10 - Pseudocolour, SkyTEM EMZ channel 32

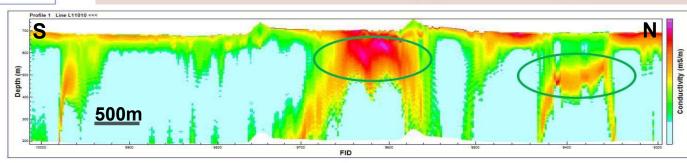
Datum = Lat/Long (GDA94)

## The Pink Slipper – a once in a century target



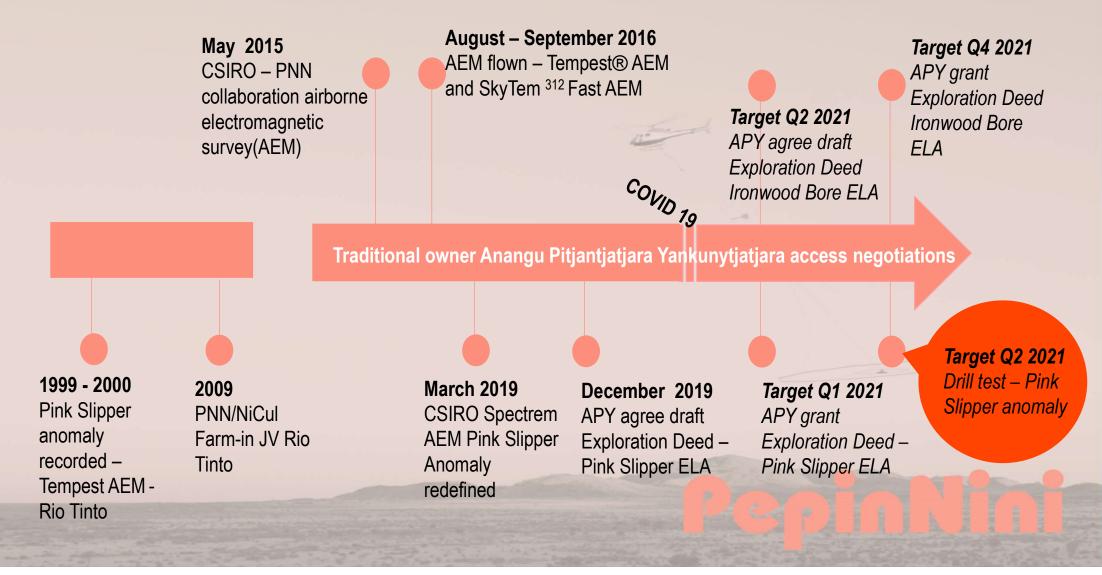
Pink slipper target is a bedrock anomaly coincident with the base of a large ultramafic intrusion - a good candidate for sulphide accumulation - the equivalent model to Voisey's Bay, Canada 124mt @ 1.66% Ni discovered in 1993 and 10 x Nova Bollinger

1999 – 2000 Tempest® AEM – Pink Slipper geophysical anomaly defined



March 2019 - Spectrem AEM – CSIRO Pink Slipper geophysical anomaly confirmed and refined

#### Project highlights timeline update – Momentum building



# **Highly efficient exploration model**





- Company owned infrastructure drilling rigs, equipment and field camp
- Immediate rig availability
- No time lags and delays for camp set up/ rig deployment
- Low cost exploration with major upside potential

#### Land access Anangu Pitjantjatjara Yankunytjatjara Lands



**Strong Relationship - Positive Social Impact** 

# Investment Highlights – Musgrave: a high potential Project

- Large tenement holdings significant terrain, promising geology
- Successful exploration methodology massive sulphides identified within prospective rocks
- Value-accretive exploration with Traditional Owners to grant access with drilling of Pink Slipper target planned for 2021
- First-mover advantage unlocking access to previously untested ground
  - Technical innovation CSIRO collaboration AEM unlocks high priority targets
  - **Cost-effective exploration** company-owned and operated drilling equipment



## Salta Lithium Brine Project - Argentina

Pular

JORC 2012 compliant Lithium carbonate (LCE) Resources announced on two projects totalling 239,000 tonnes – 63% Measured & Indicated Grade up to 313mg/I Lithium –

Brine blend simulation indicates enriched brine evaporate of 3.05% Lithium

Lithium Carbonate Resource

17

SALTA PROJECT Lithium Brine

**Buenos Aires** 

ARGENTINA

Incahuasi

Lithium Carbonate Resource Brine chemistry - high gypsum(CaSO<sub>4</sub>)

Surface trench brine sampling program, brine chemistry - high calcium content

Rincon

**Lithium Carbonate Resource** 

Plan for 2021 – brine blending evaporation testing to confirm potential for a high grade lithium product



# PepinNini

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# TARGETING, EXPLORATION, DISCOVERY.

