

Annual General Meeting – 26 November 2020

ASX:PNN

Chairman and Managing Director
Rebecca Holland-Kennedy



PepinNini
ABN 55 101 714 989

PepinNini Board of Directors



Rebecca Holland-Kennedy

B.Sc., B.Arts, MAusIMM,
GAICD

**Executive Chairman
and Managing
Director,
Co-founder**

Geologist with more
than 35 years
experience in
exploration and
management.



Robert (Wei) Sun

M.Ec. M. E-Commerce, Dip
Industrial Enterprise

**Non- Executive
Director –**

Robert is a resource
industry analyst and has
more than three decades of
professional experience
including company
directorships, executive-
level management roles,
and project and operational
management.



Luis Kennedy

B.Commerce, B.LLB, CA,
Certificate Turnaround
Restructuring

**Non-Executive
Director -**

Luis Kennedy is a
qualified lawyer and
Chartered Accountant
and is the son of
founding Director
Norman Kennedy and
currently a Manager,
Mergers and
Acquisitions at Deloitte
Australia.



Dom Francese

BEc(Accounting) FCA, FGIA

Company Secretary

Mr Francese is a
Chartered Accountant
and a Corporate
Governance
Professional with
extensive experience as
a Company Secretary
(17 years) and Chief
Financial Officer (12
years) of ASX listed
mining and exploration
entities.



Ignacio Celorrio

LLB/JD Partner

**Director
PepinNini SA**

Lawyer with Quevedo
Abogados
Buenos Aires.
*Distinguished
Leading Individual* in
areas of Energy and
Natural Resources in
Argentina

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Projects

AUSTRALIA



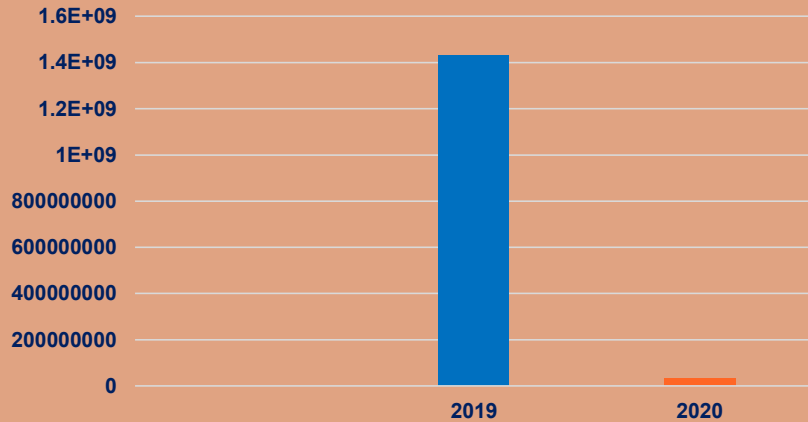
ARGENTINA



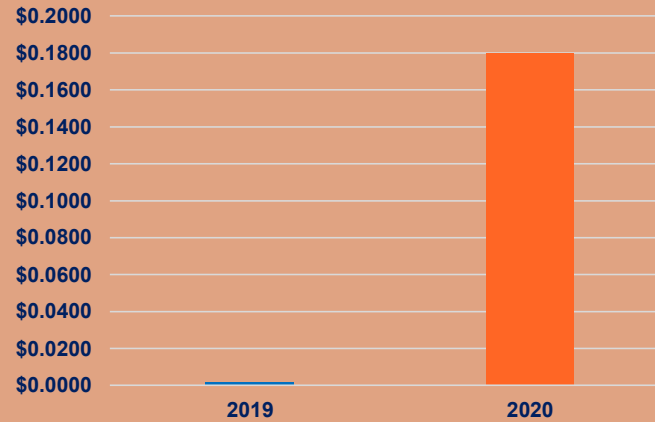
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Company Performance

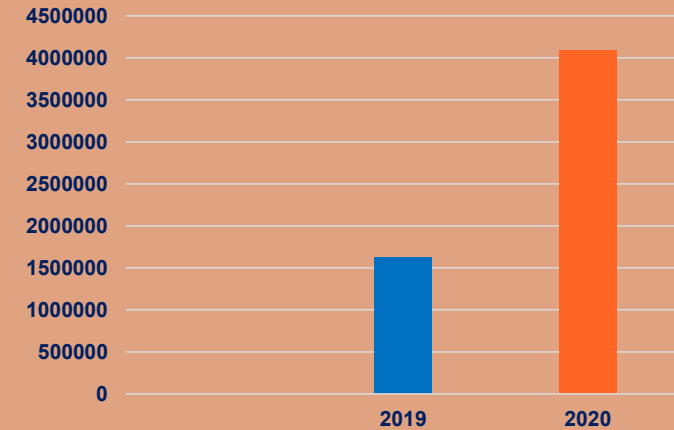
Shares on Issue



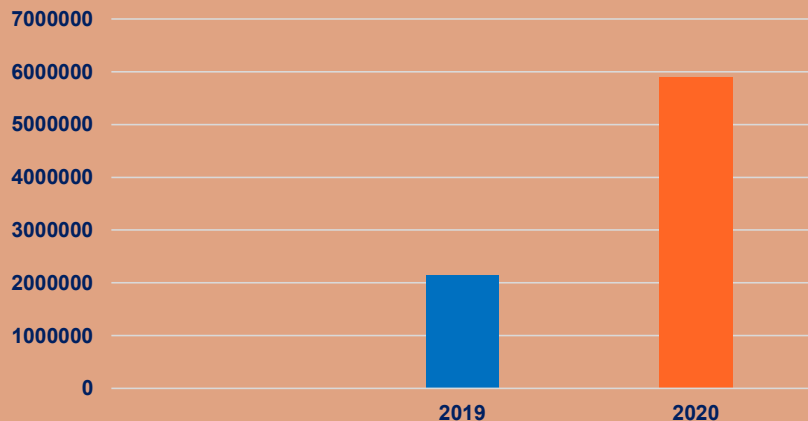
Ave share price



Enterprise value



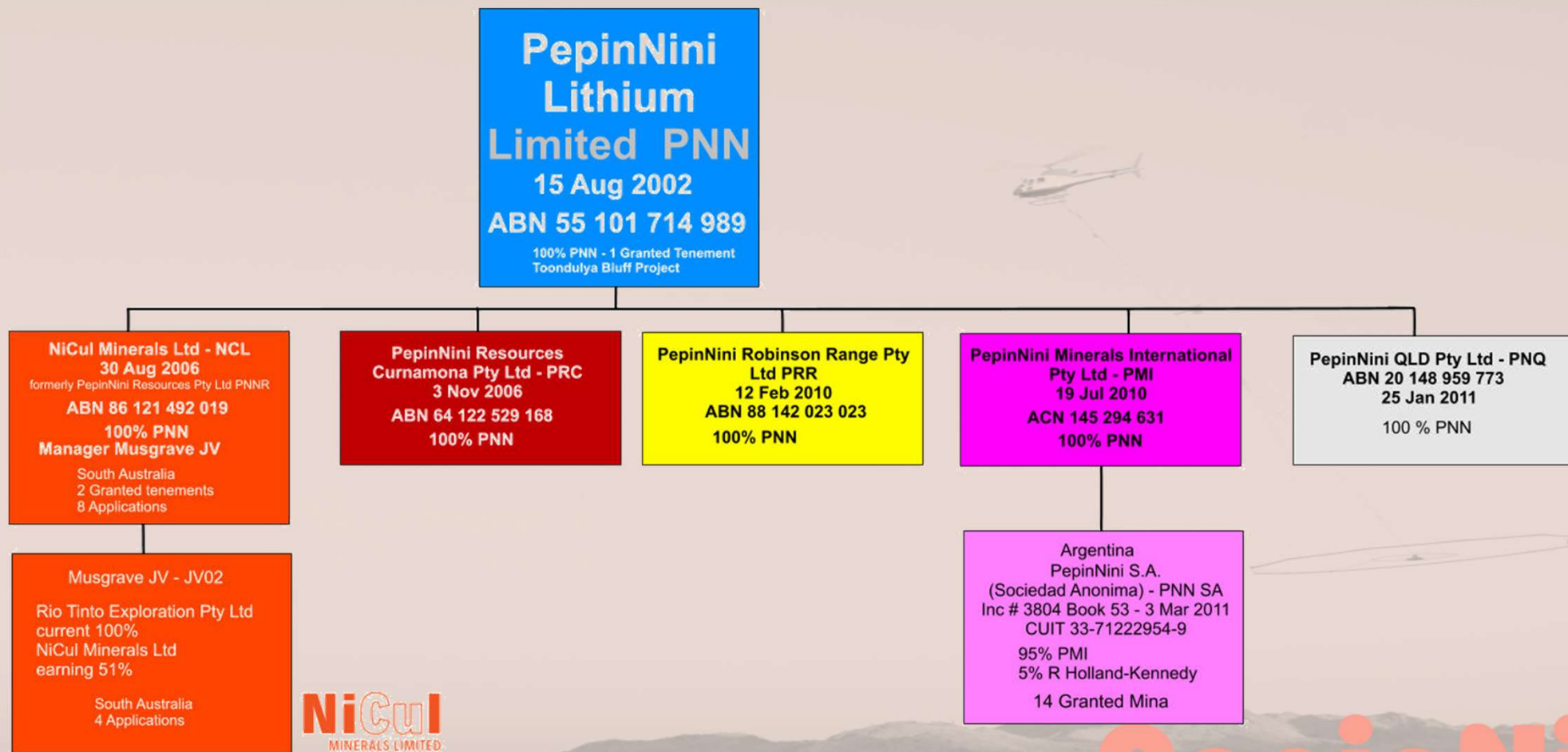
Market Cap



- PNN Consolidation restructure
- Increase in Commodities Nickel and Copper
- Outcome - increase in
 - ✓ share price,
 - ✓ market cap
 - ✓ enterprise value

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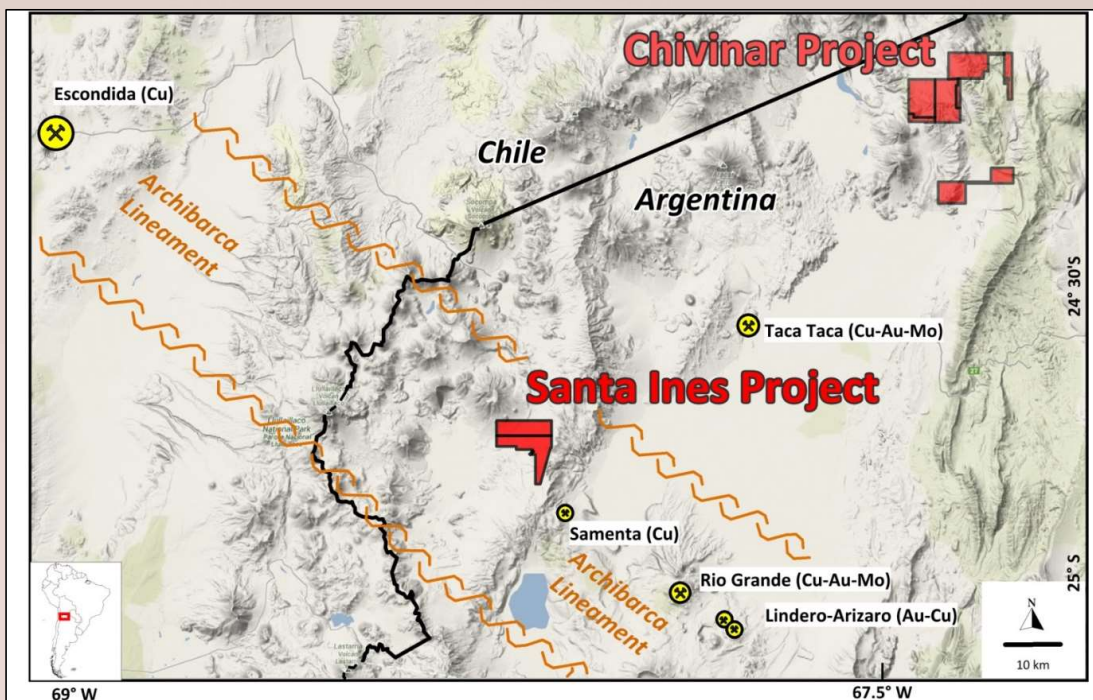
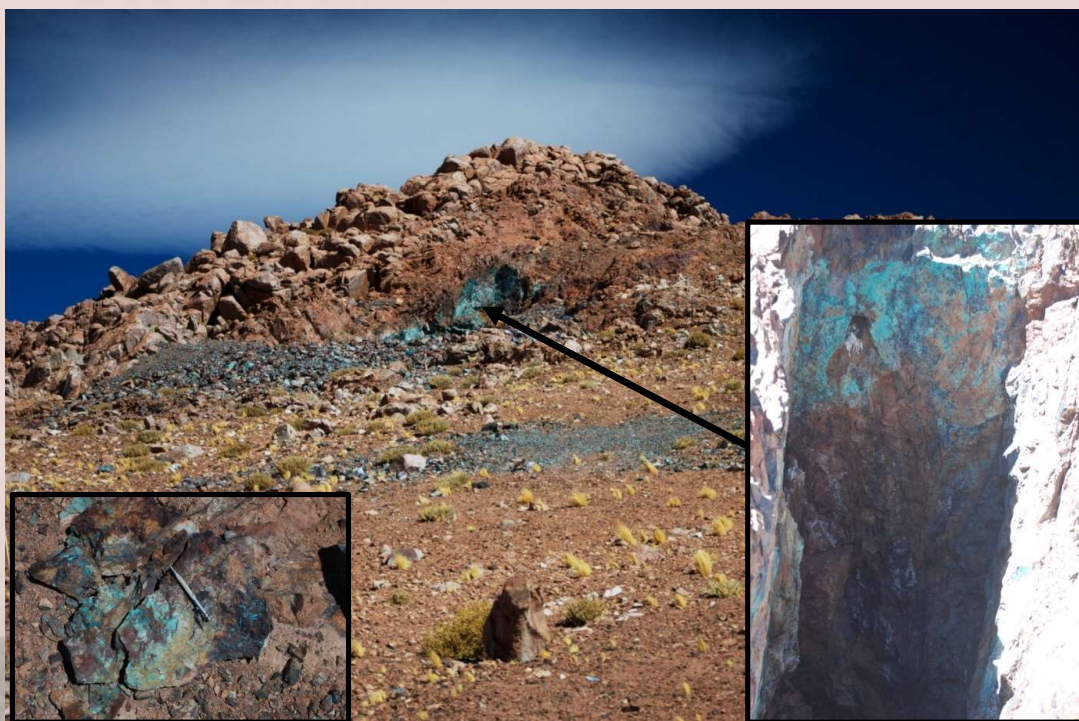
Corporate Structure



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Santa Ines Copper Gold Project – Strategic Location

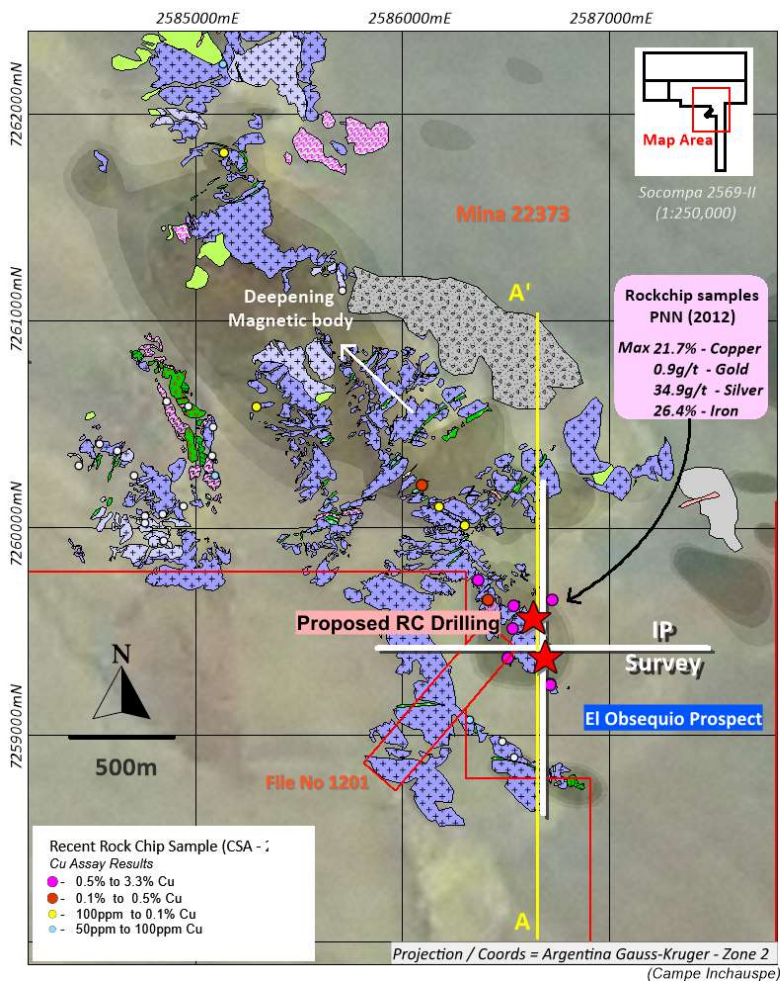
- Located 80km from Copper Mine Escondida (BHP) on same geological structure
- High grade surface samples from historic workings – 21.7% Copper, 0.91g/t Gold, 34.9g/t Silver*
- Subsequent surface sampling 3.25% Copper, 0.8g/t gold, 12.5g/t Silver & 91.1ppm Molybdenum*



* ASX announcements 15 June 2012, 28 February 2014, 18 July 2014

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Santa Ines Copper Gold Project – Work done and planned



Santa Ines Project - El Obsequio Prospect Planned Drilling Activities

Stratigraphic Legend

Post - Santa Ines Volcanic Complex deposits

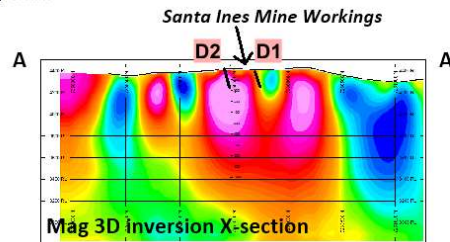
- Mine dump material
- Unconsolidated, mainly volcanogenic deposits (block and ash deposits, bedded sediments)
- Monzonite/trachyte dykes - porphyritic
- Basalt - lava to hypabyssal intrusions

Santa Ines Volcanic Complex (Eocene?)

- Rhyolite - dykes and lavas (some may be younger than Santa Ines Volcanic Complex)
- Dacite - dykes and high level plugs
- Andesite - intrusions, mainly dykes
- Andesite lava, massive porphyritic or flow-banded
- Andesite volcanic breccias (polymict)
- Mafic Breccia - grade from shear zones to fluidized breccias (age? post-granite, pre-andesite)

Llullaillaco Plutonic Complex (Permo-Triassic)

- Leucogranite
- Granite



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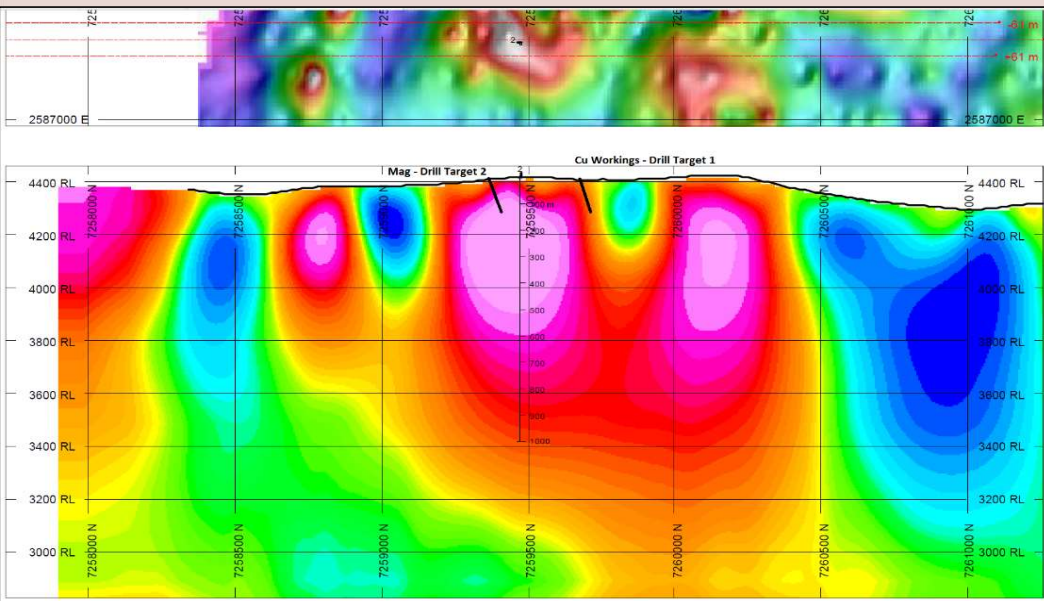
- Ground IP geophysical survey indicated potential targets for drilling
- Drilling permit expected before the end of the year
- Drilling planned initially two boreholes – January 2021



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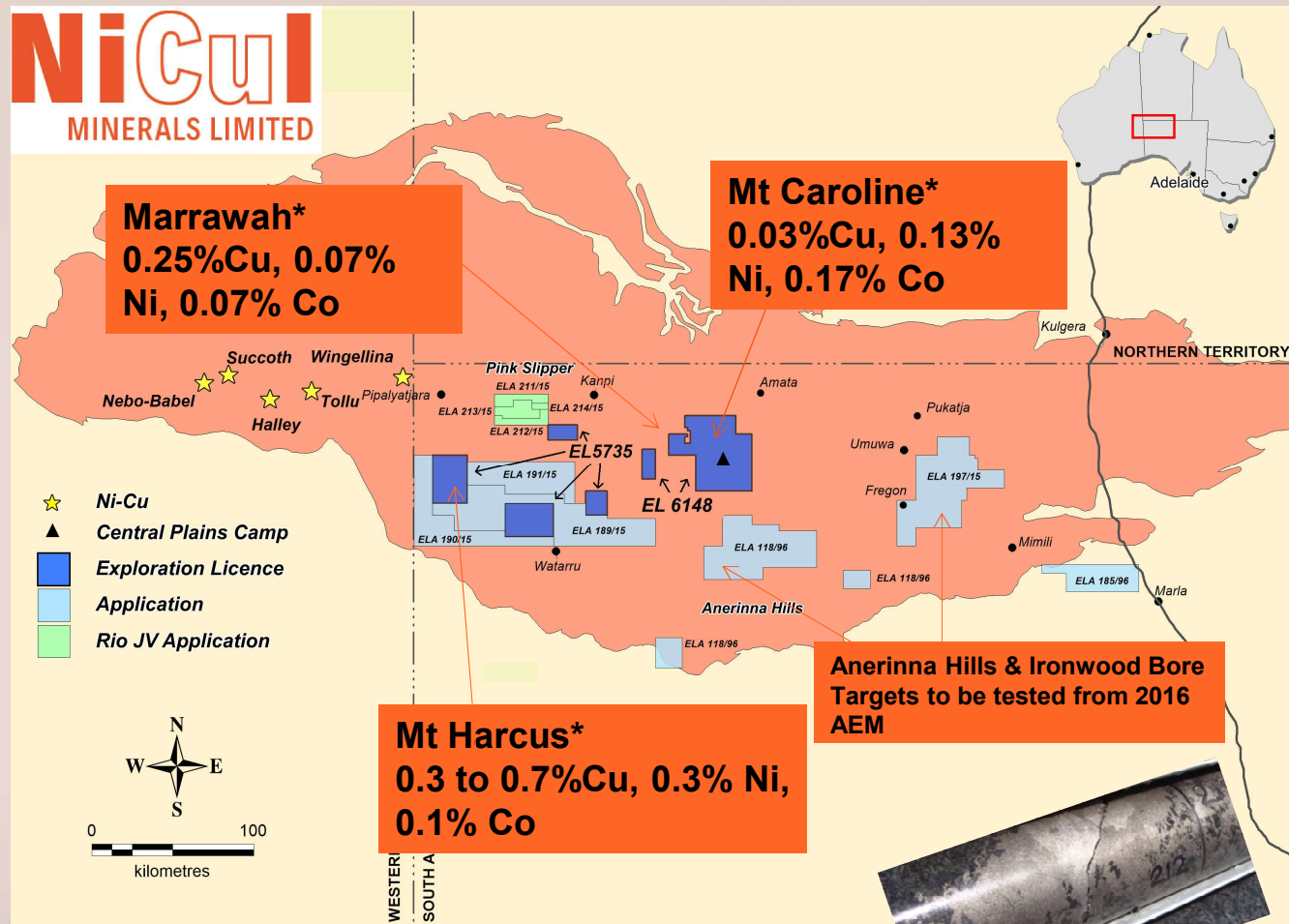
Santa Ines Copper Gold Project – Drilling Targets

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



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Musgrave Project - Overview



- Project is 100% owned by PepinNini subsidiary NiCul Minerals Ltd
- 10 tenements 100% NiCul covering 14,003 km²
 - 2 granted exploration licences(EL)
 - 8 applications (ELA)
- 4 Farm-in JV (to 51%) ELAs with Rio Tinto, covering 615km²
- 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



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* ASX announcements 16 October 2013, 24 October 2014

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*

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AEM - Unlocking new discovery targets at Musgrave



Helicopter mounted SkyTem³¹² Fast AEM



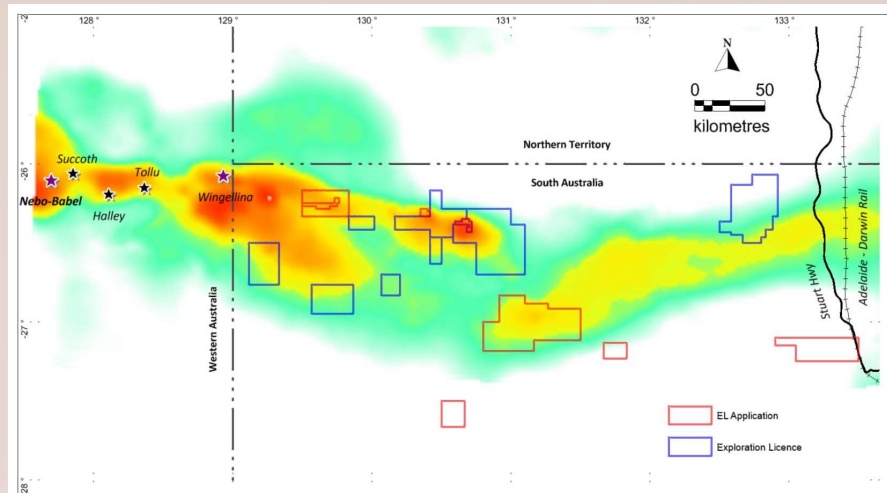
Fixed Wing Tempest® AEM

- ❑ Collaboration of PNN, CSIRO, SA Govt and Geoscience Australia for airborne electromagnetic(AEM) survey over 31,000km² of Musgrave Province
- ❑ Targeting areas previously never surveyed including 50% of PNN tenure

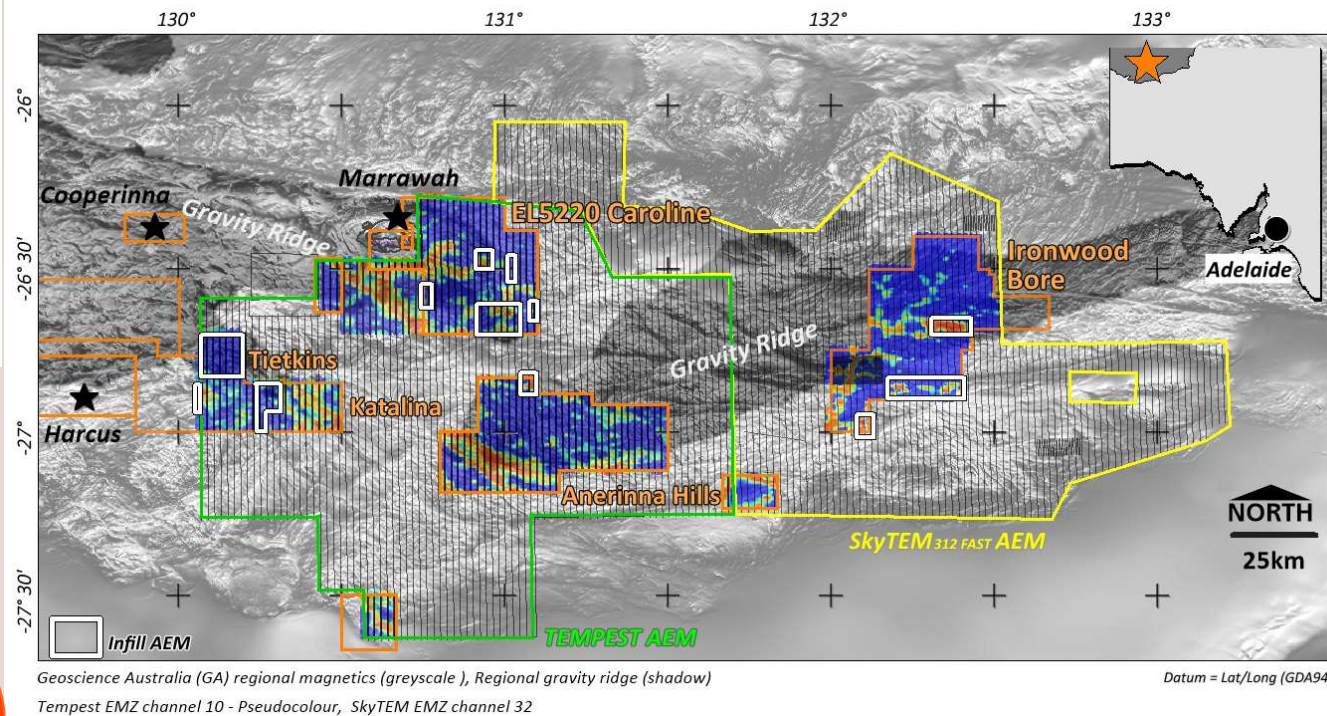
Delivered accelerated target
definition for PepinNini

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Technical innovation delivers enhanced targets



Targets generated by collaboration AEM to be drill tested ↓

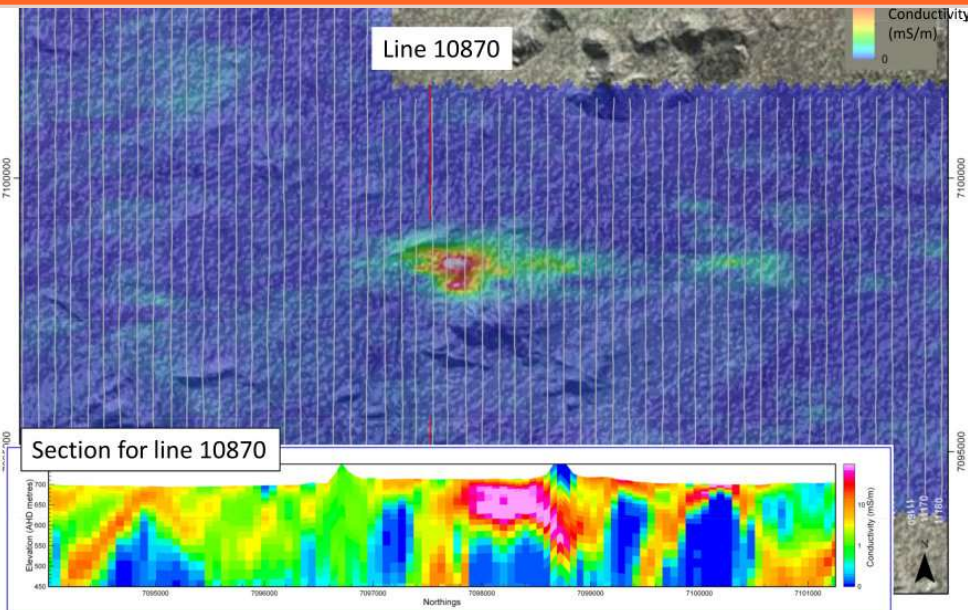


↑
Musgrave Province Regional Gravity Image pre-2016 collaboration AEM

Collaboration AEM is a game changer – delivers enhanced geophysical targets

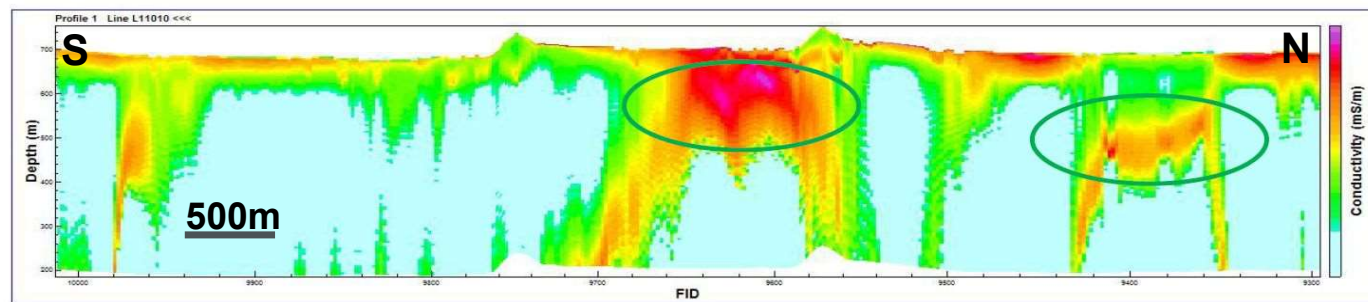
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The Pink Slipper – a once in a century target



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

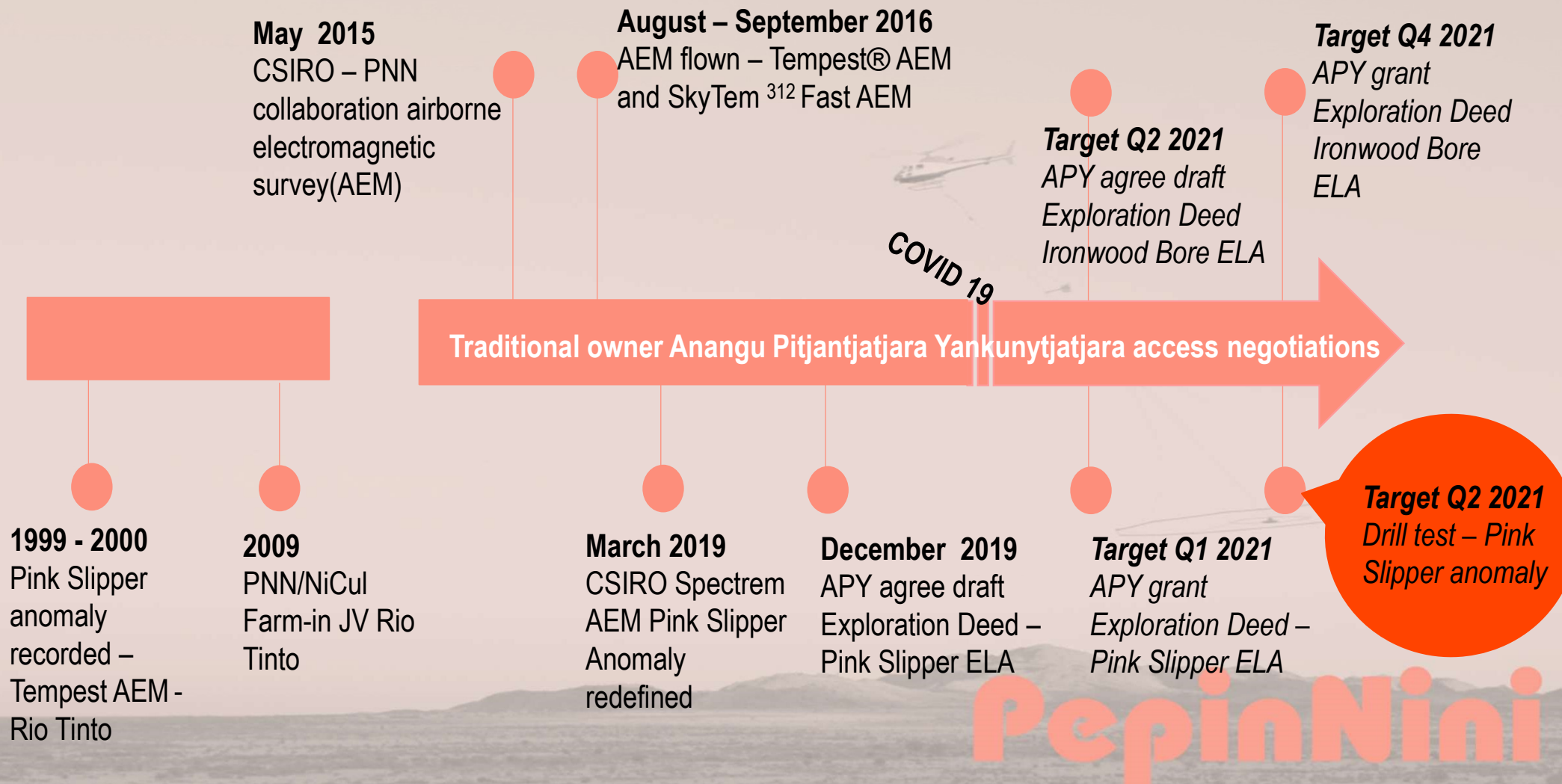
1999 – 2000
Tempest® AEM – Pink Slipper geophysical anomaly defined



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

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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

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Active Responsible Explorer

- ✓ communication
- ✓ community
- ✓ engagement



Strong Relationship - Positive Social Impact

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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



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Salta Lithium Brine Project - Argentina

ARGENTINA

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

Brine blend simulation indicates enriched brine evaporate of 3.05% Lithium



SALTA PROJECT
Lithium Brine

Buenos Aires



Lithium Carbonate Resource

Lithium Carbonate Resource
Brine chemistry - high gypsum(CaSO_4)

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

Lithium Carbonate Resource

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

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Thank you



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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.*

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