

Discovering Critical Metals for the Future

Frisco Copper-Gold Project, Utah, USA

Minas Gerais Lithium Projects, Brazil

“Alderan is preparing to drill the New Years copper-gold prospect at its Frisco Project in Utah, USA which has historical drill holes with intersections of +10m grading +1.5% Cu on the margin of a larger magnetic anomaly than the neighbouring historical Cactus mine. New Years has received no exploration since the 1960s.

In Brazil, lithium assay results for Itambacuri stream sediment samples are highly anomalous”

Alderan Resources Managing Director Scott Caithness

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References to Previous ASX Announcements – The information in this presentation that relates to historical exploration results were first reported by the Company in accordance with listing rule 5.7 on 28 June 2017, 21 August 2017, 12 September 2017, 28 September 2017, 30 October 2017, 15 December 2017, 17 January 2018, 5 March 2018, 29 March 2018, 12 March 2019, 18 November 2019, 25 March 2020, 16 April, 2020, 20 May 2020, 19 August 2020, 28 August 2020, 22 September 2020, 22 February 2021, 8 March 2021, 11 March 2021, 11 May 2021, 9 June 2021, 11 June 2021, 24 August 2021, 30 September 2021, 18 November 2021, 30 December 2021, 25 February 2022, 22 March 2022, 5 April 2022, 11 May 2022, 25 May 2022, 6 June 2022, 27 June 2022, 3 August 2022, 28 September, 2022, 30 September 2022, 2 November 2022, 14 December 2022, 30 December 2022, 14 February 2023, 20 September 2023, 3 October 2023, 26 October 2023, 13 November 2023, 5 December 2023, 23 January 2024, 22 February 2024, 13 March 2024, 8 April 2024, 29 April 2024 and 30 May 2024. Alderan confirms it is not aware of any new information or data that materially affects the information included in the original market announcements.

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Projects Overview

Focused on discovery of critical metals in the USA and Brazil



Frisco project in Utah, USA targeting Cactus district high grade copper-gold deposits
Post mining (1957-) higher grade drill intersections at Cactus deposit include **4.9m @ 6.72% Cu, 22.9m @ 2.06% Cu, 41m @ 1.9% Cu, 0.62g/t Au, 22.9m @ 1.84% Cu**

New Years intersections include **13.7m @ 2.32% Cu, 10.7m @ 1.6% Cu and 10.7m @ 1.52% Cu** all within intervals up to 42m grading >0.80% Cu

New data and new model has identified 12 new targets, including New Years, with same magnetic signature as Cactus

Next steps – anomalous soils at New Years, drilling proposed for Q2-Q3, 2024



Seven lithium exploration projects in Brazil's 'Lithium Valley' covering 472km² in mineral rich Minas Gerais State

Targeting margins of lithium-caesium-tantalum (LCT) granites (G4) with pegmatites, indicator minerals & artisanal mining within and peripheral to project areas

Artisanal mines and lithium indicator minerals, beryl and tourmaline identified

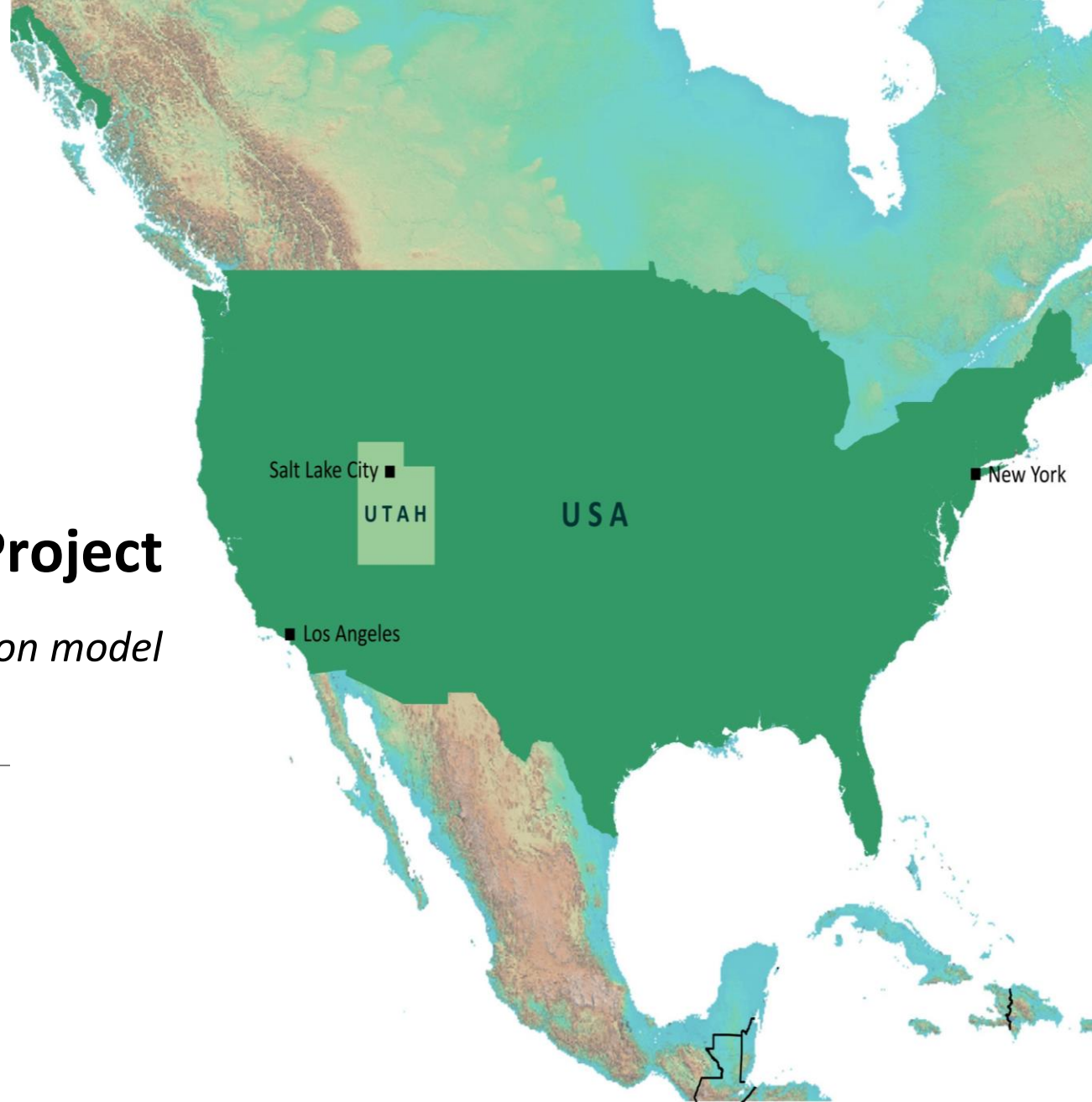
Stream sediment sampling completed – anomalous Li at Itambacuri; assays awaited

Next steps – review stream sediment assays and identify anomalies for followup

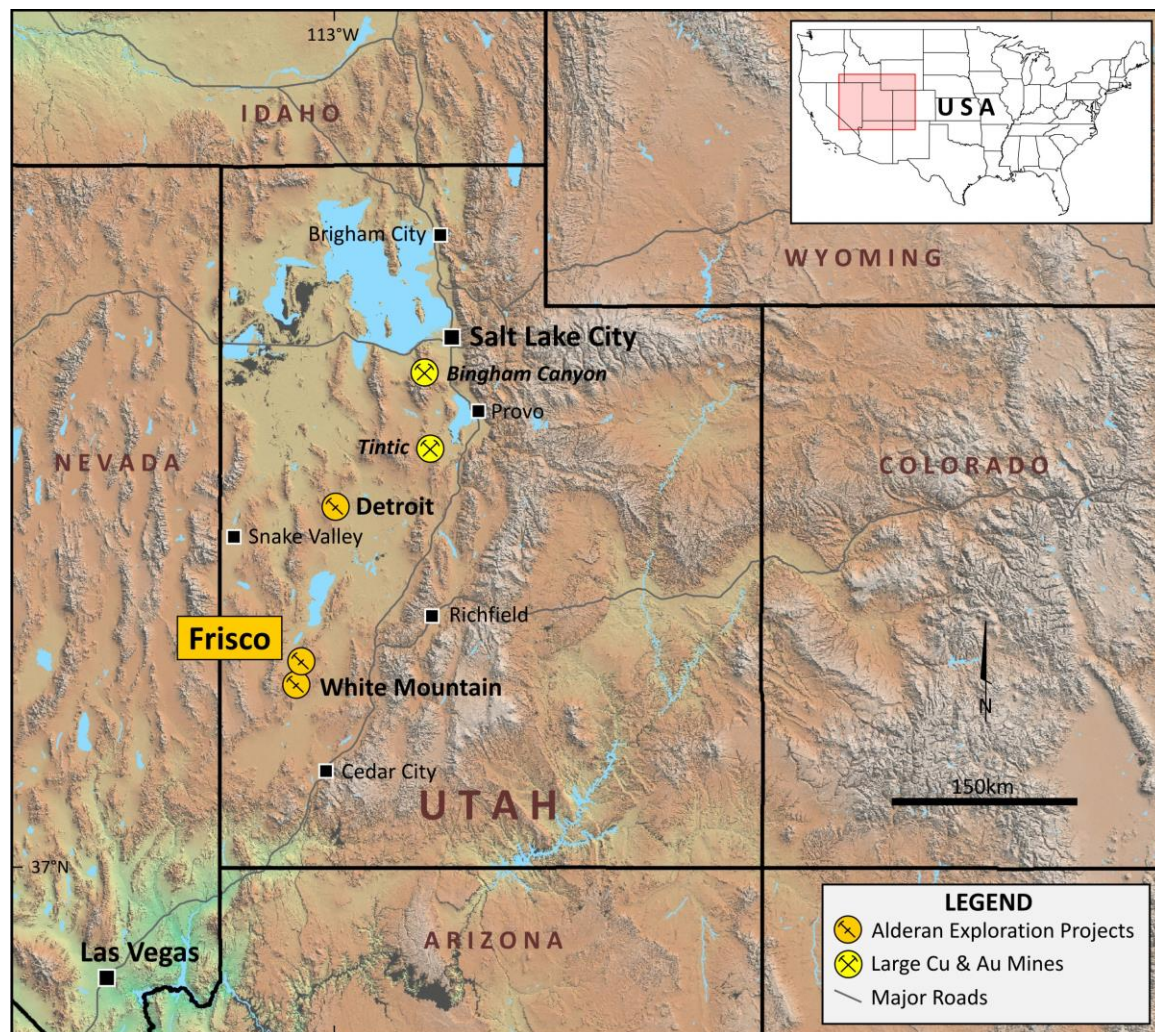
Frisco Copper-Gold Project

New Data and a new exploration model

Utah, USA

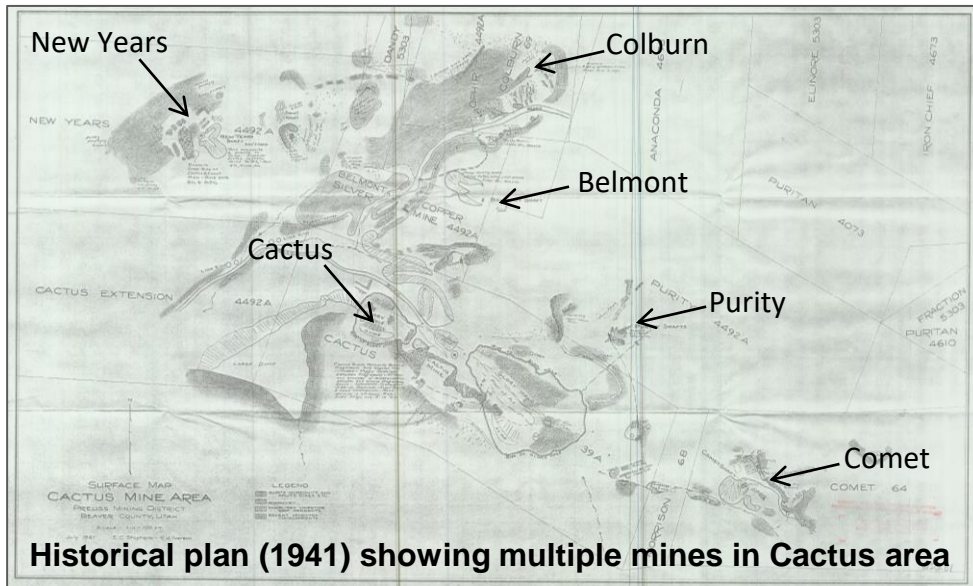


Frisco – High Grade Cu-Au Deposit Potential



- Utah - a Tier 1 mining jurisdiction
- 17th on Fraser Institute 2022 ranking of investment attractiveness
- Excellent access to infrastructure – road, rail & power
- World ranked copper and gold mining districts in Utah and neighbouring Nevada
- **Frisco** is an historical copper-gold and silver-lead-zinc mining district
- Multiple historical copper-gold mines associated with breccias in Frisco's Cactus district
- Alderan has new data and a new exploration model

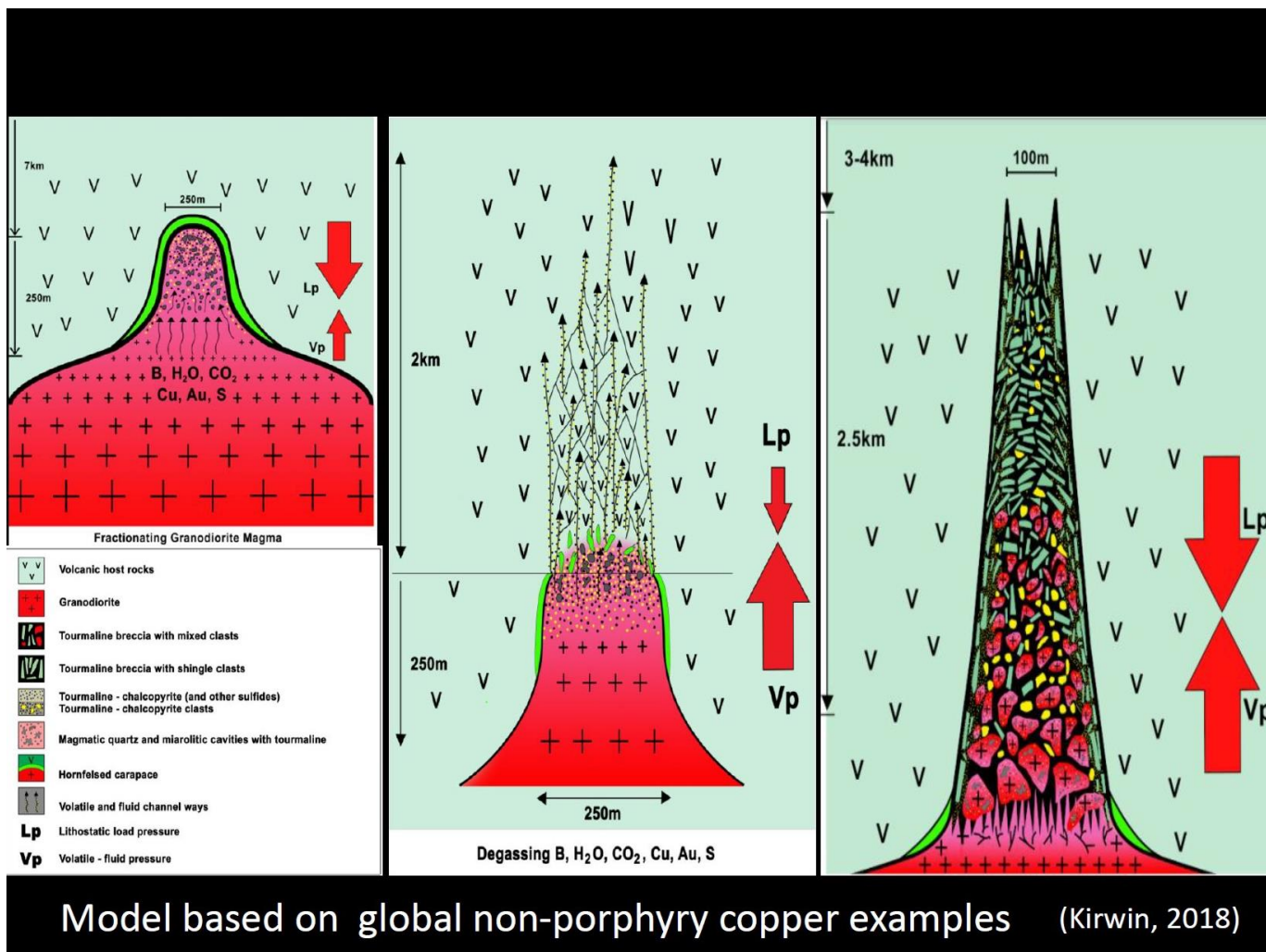
Frisko – A Brief History



Alderan's Cactus district remains under explored for high grade breccia hosted copper-gold deposits

- An historical Cu-Au mining district with multiple mine owners from late 1800s
- **Cactus mine** operations closed by 1920 with minor intermittent production to 1957
- Cactus reportedly produced 1.27Mt grading 2.07% Cu, 7.4g/t Ag and 0.33g/t Au from breccias
- Post mining high grade intersections at Cactus include:
 - 4.9m @ 6.72% Cu within 43.6m @ 1.69% Au
 - 12.2m @ 3.31% Cu within 22.9m @ 2.06% Cu
 - 8.0m @ 3.11% Cu, 0.98g/t Au within 32.5m @ 1.24% Cu, 0.31g/t Au
 - 12.2m @ 2.77% Cu within 25.9m @ 1.62% Cu
 - 41m @ 1.9% Cu, 0.62g/t Au within 74m @ 1.1% Cu, 0.35g/t Au

Frisko – A New Exploration Model



Copper rich tourmaline breccias associated with intrusion related copper deposits

Deposit characteristics typically include:

- ✓ high Cu-Au grades with Cu-Au-Mo element signature
- ✓ occur in clusters
- ✓ elliptical shape with long axis following structural trend
- ? highest grades on margins of breccias
- ? flare at depth
- ? Vertical extents of >1km

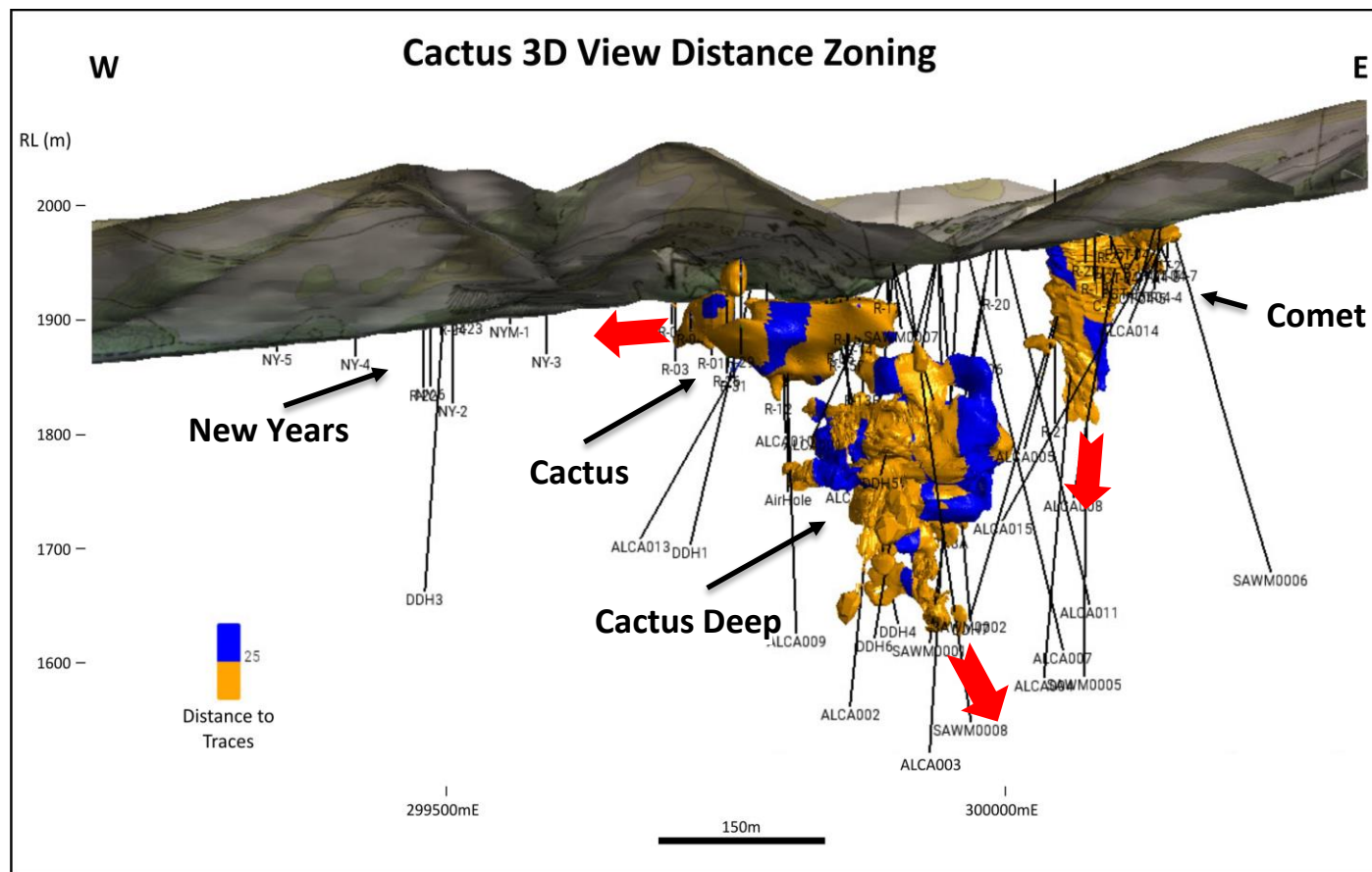
Example includes Pilares Mine, Mexico

- Historical mining produced 19Mt @ 2.5% Cu, 25.7g/t Ag; Grupo Mexico current mine resource 71.8Mt @ 0.56% Cu (milling) plus 4.8Mt @ 0.44% Cu (SXEW)

New Data - 3D Deposit Modelling

New Years lies 400m from Cactus along the Cactus Canyon fault trend, has outcropping copper mineralised breccia plus high grade drill intersections and has received no exploration since 1964

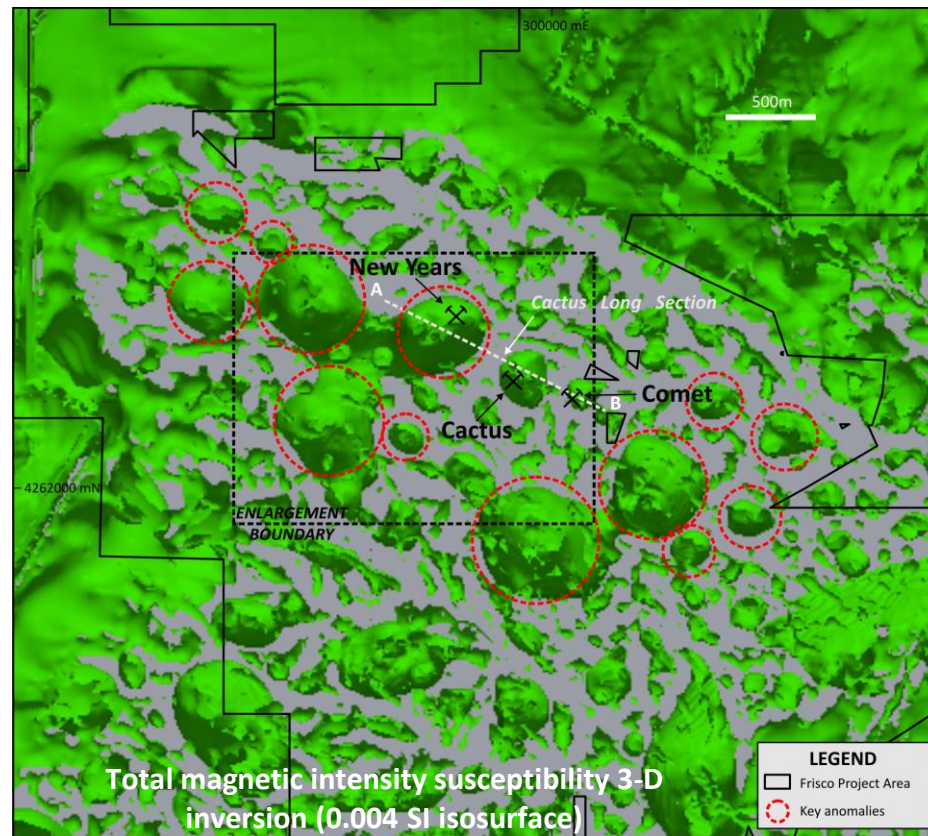
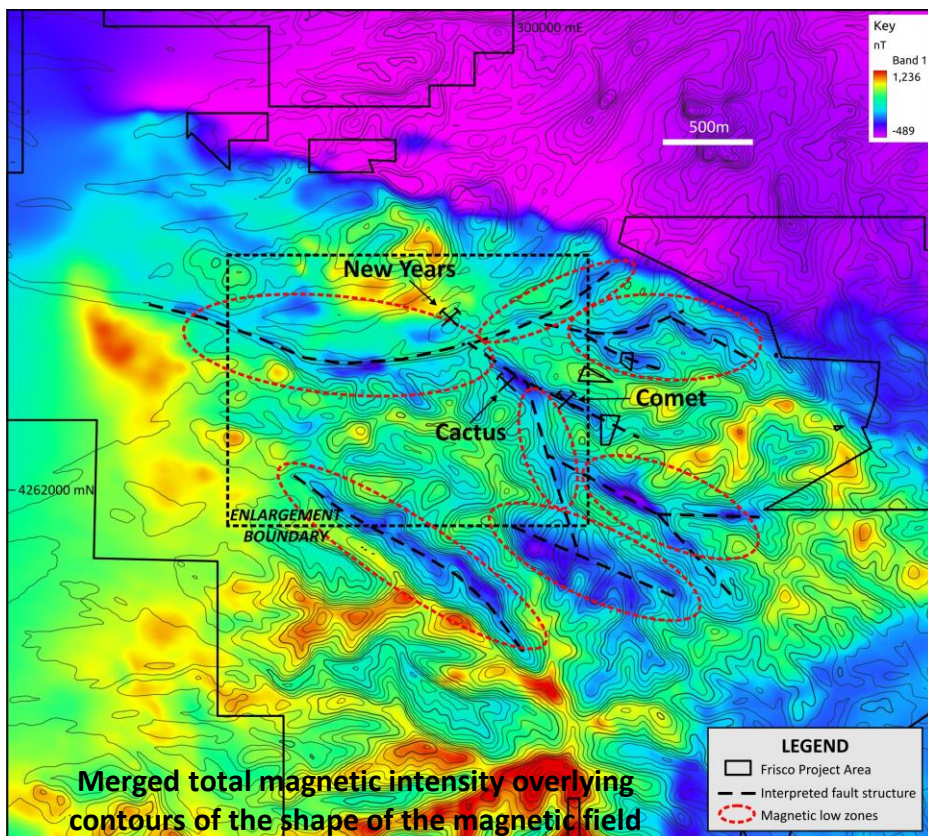
- Cactus and Comet are open at depth and to the NW along Cactus Canyon Fault and have potential for additional mineralisation on margins of deposits (blue areas)
- New Years is key target** where higher grade historical drill intersections include:
 - **13.7m @ 2.32% Cu within 19.8m @ 1.67% Cu from 22.9m**
 - **10.7m @ 1.52% Cu within 27.4m @ 0.85% Cu from surface**
 - **10.7m @ 1.60% Cu and 4.6m @ 1.3% Cu within 42.7m @ 0.80% Cu from surface**



New Data – Multiple Untested Magnetic Anomalies

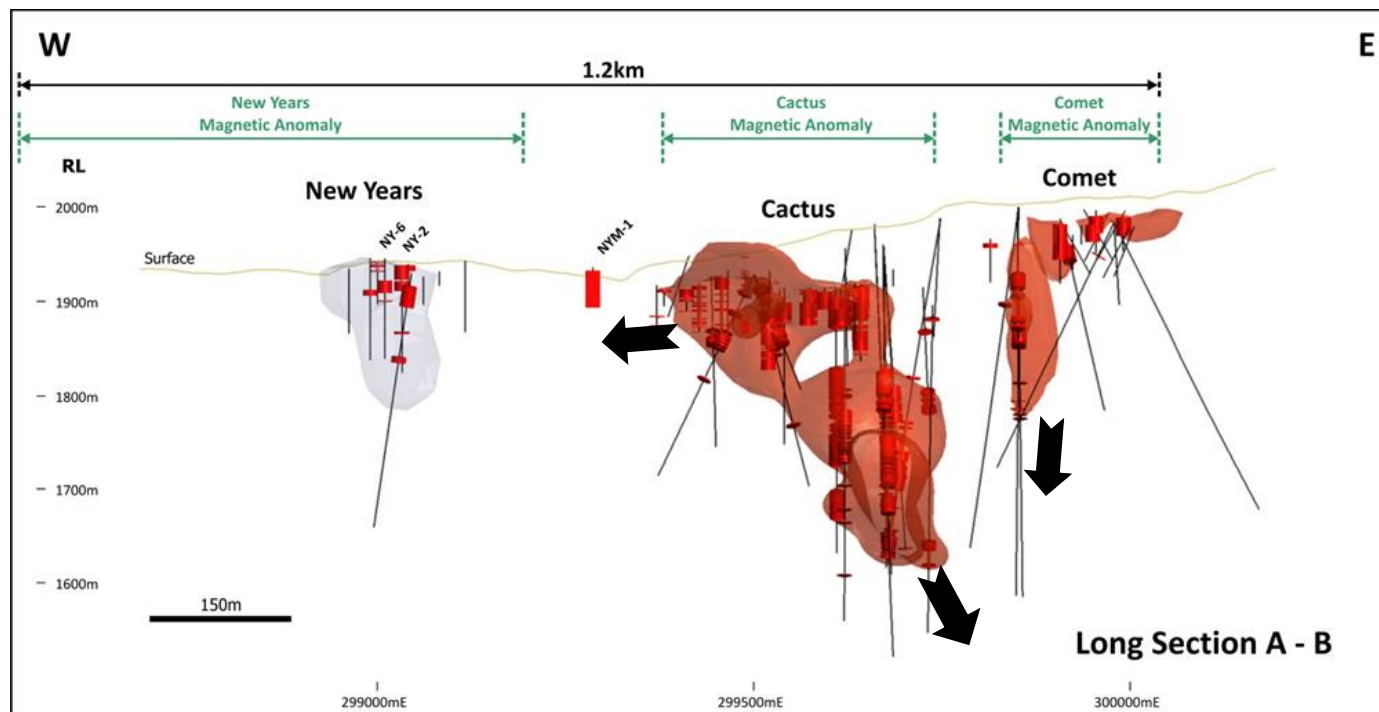
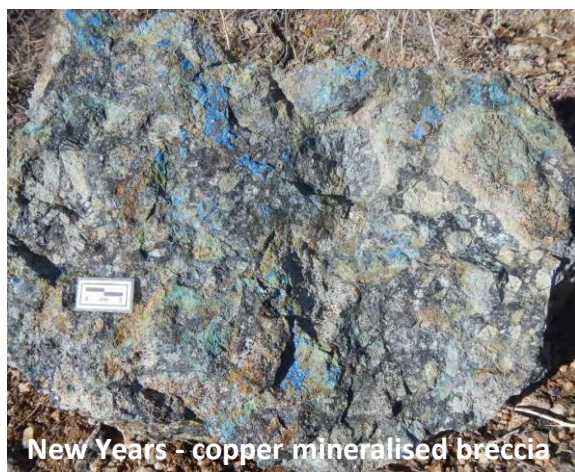
Alderan's 3-D inversion modelling of Rio Tinto's high quality drone magnetics survey highlights:

- Magnetic low zones define structures - Cactus and Comet sit within the NW-SE Cactus Canyon Fault structure
- Cactus and Comet have coincident discrete low anomalies in the 3D-magnetic inversion modelling
- Twelve new anomalies associated with structures including New Years on the NW-SE Cactus Canyon Fault trend



Frisco – Oxide & Primary Copper-Gold

1. Comet, Cactus and New Years sit in the same NW trending fault zone
2. Deposits have coincident magnetic anomalies over +1.2km of strike length
3. High grade copper drill hole intersections including at New Years - mineralisation from surface

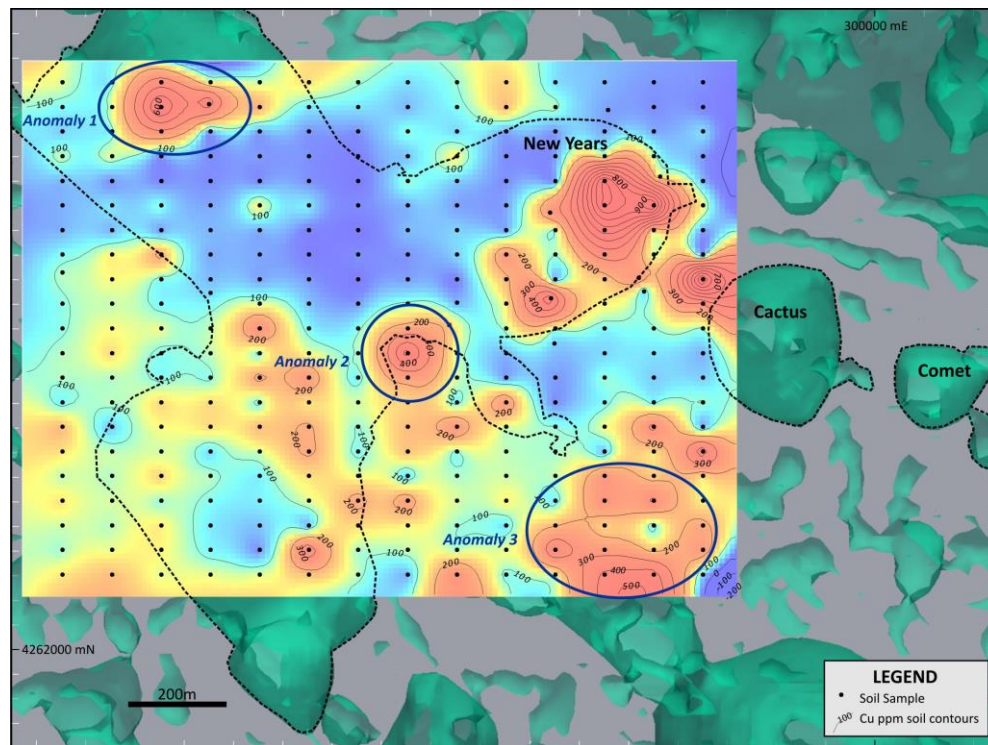
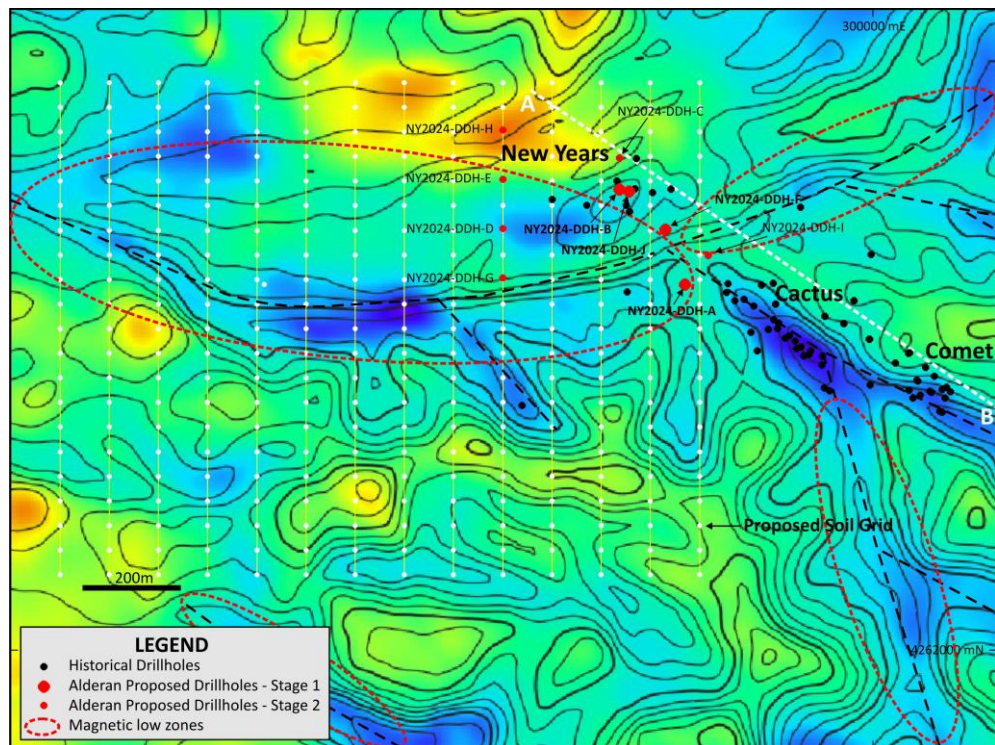


4. Historical hole between Cactus and New Years intersected 10.7m @ 1.6% Cu & 4.6m @ 1.3% Cu within 42.7m @ 0.8% Cu (all oxide) from surface
5. Copper rich breccia on surface at New Years
6. New Years – unexplored since 1964 plus another 12 new untested Cactus and Comet 'look-a-like' magnetic anomalies identified

Frisco Next Steps – New Years Soils and Drilling

Soil sampling confirms New Years prospect and highlights 3 new copper anomalies

- Next step is a two stage drilling programme over New Years
 - Stage 1: 4 holes (540m) to verify historical drilling & test Cactus Canyon fault zone
 - Stage 2: 5 deeper and step out holes (1,000m) to commence testing size of target



Investment Highlights

USA Copper

- **High grade copper intersections at New Years prospect** in 1960s drill holes - no exploration since
- **New Years copper soil anomaly** plus three additional targets
- **New Years drilling** planned to commence in June 2024
- **Cactus and Comet copper-gold deposits** are open
- **Multiple untested geophysical targets** analogous to Cactus and Comet



Brazil Lithium

- **Stream and rock sampling** completed over seven lithium projects covering 472km² – Itambacuri Li anomalies, more assays expected in Q2-Q3, 2024
- **Projects located in 'Lithium Valley'** district of Minas Gerais state which hosts lithium mines, recent resources and has a supportive government
- **Right geological setting confirmed** - Projects lie at the margins of known and interpreted G4 granites with pegmatites, lithium indicators and garimpo activity observed



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