NEWCREST MINING LIMITED

Cadia East
Ensuring at least another 30 years mining at Cadia Valley.

Dean Collett
Principal Geologist

TARGET ZERO
Our goal is zero injuries


RW Subsidence
Cadia Extended
Cadia Hill
Cadia East
Ore body
Plant

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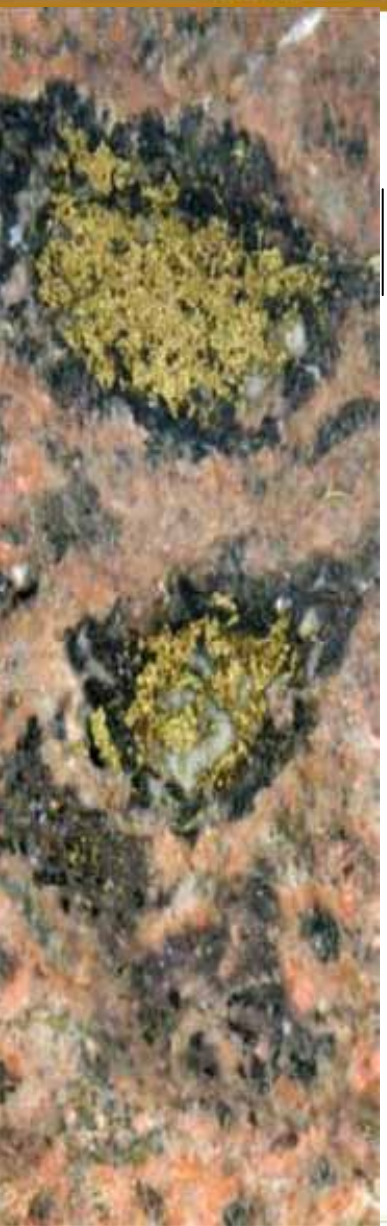

Resource Statement

	Measured Resources	Indicated Resources			Inferred Resources			Gold In Situ Moz	Copper In Situ (kt)
Cadia East	Tonnes (Million)	Tonnes (Million)	Gold Grade (g/t Au)	Copper Grade (%Cu)	Tonnes (Million)	Gold Grade (g/t Au)	Copper Grade (%Cu)		
Open Pit	-	220	0.38	0.37	210	0.46	0.29	5.9	1400
UG	-	300	0.92	0.35	390	0.53	0.29	16	2200
Total	-	520	0.69	0.36	600	0.51	0.29	21.9	3600

1100 million tonnes containing 22 Moz gold, 3.6 Mt Cu, 120 kt Mo

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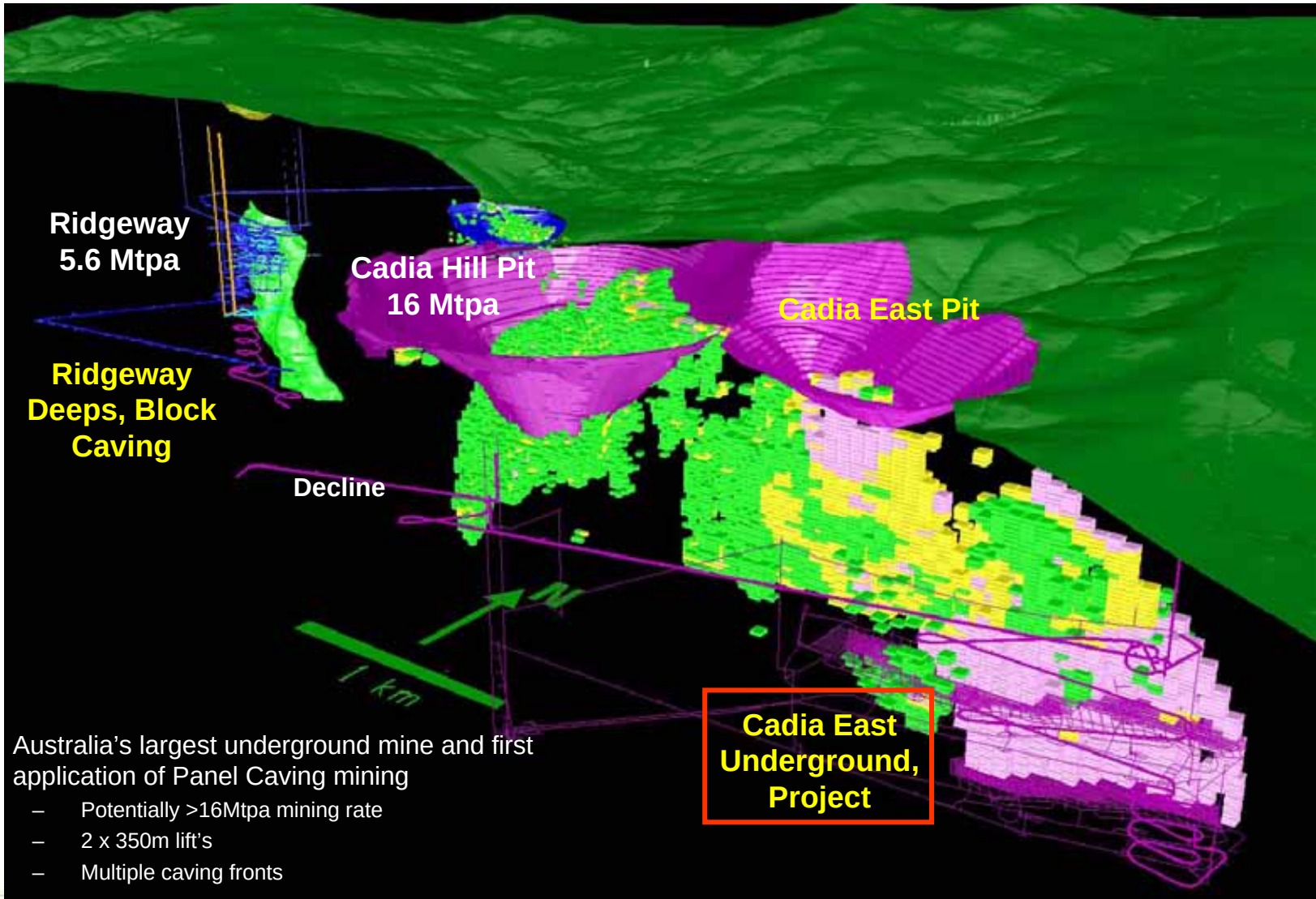
Cadia East Underground Project



Australia's largest underground mine and first application of Panel Caving mining

- Potentially >16Mtpa mining rate
- 2 x 350m lift's
- Multiple caving fronts

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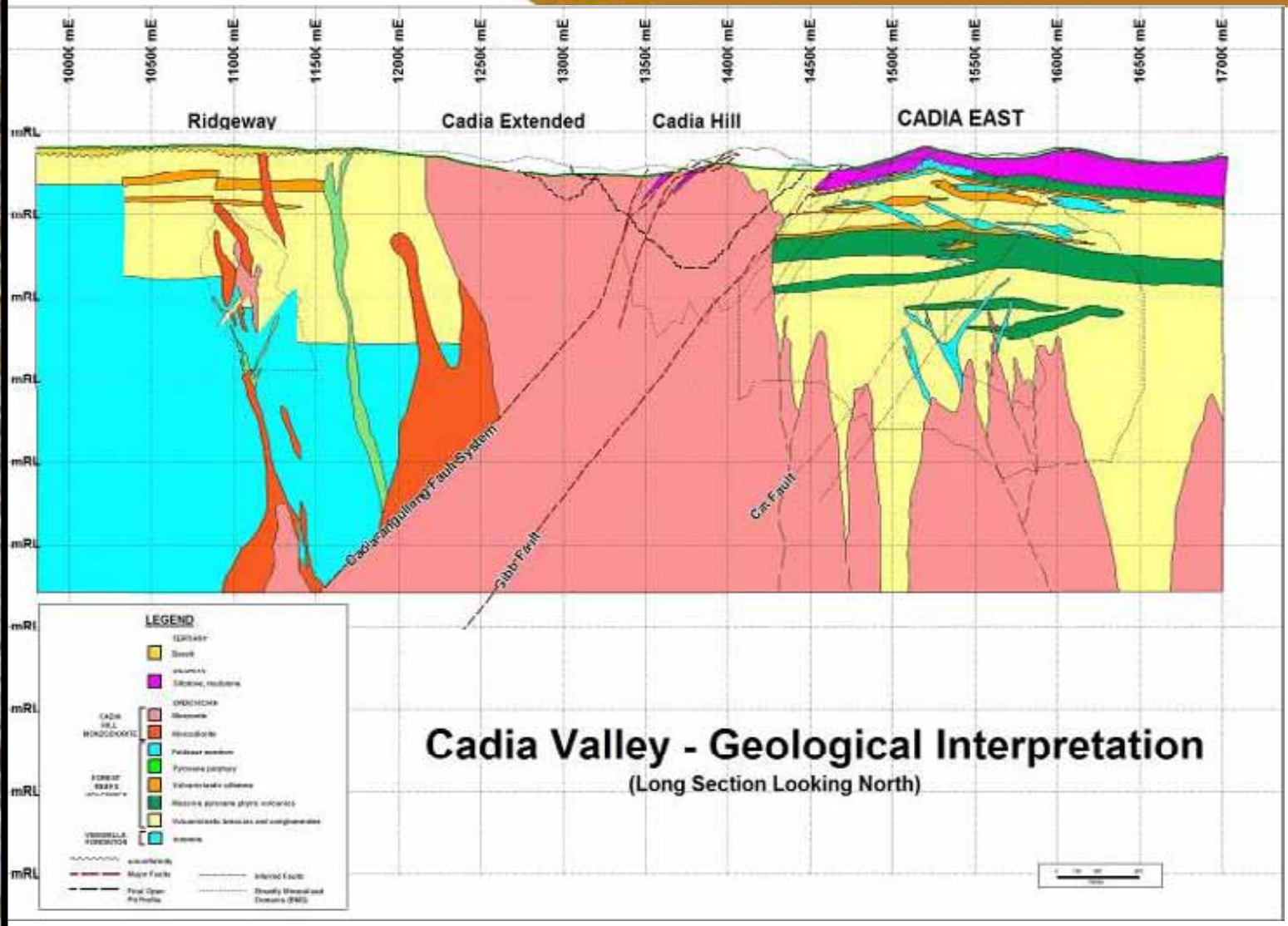
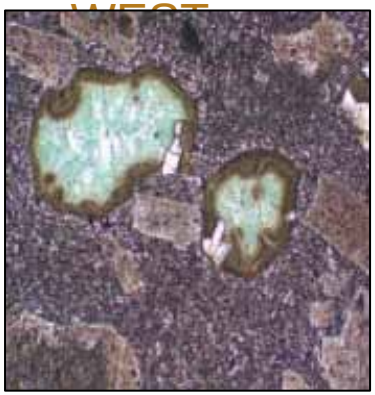
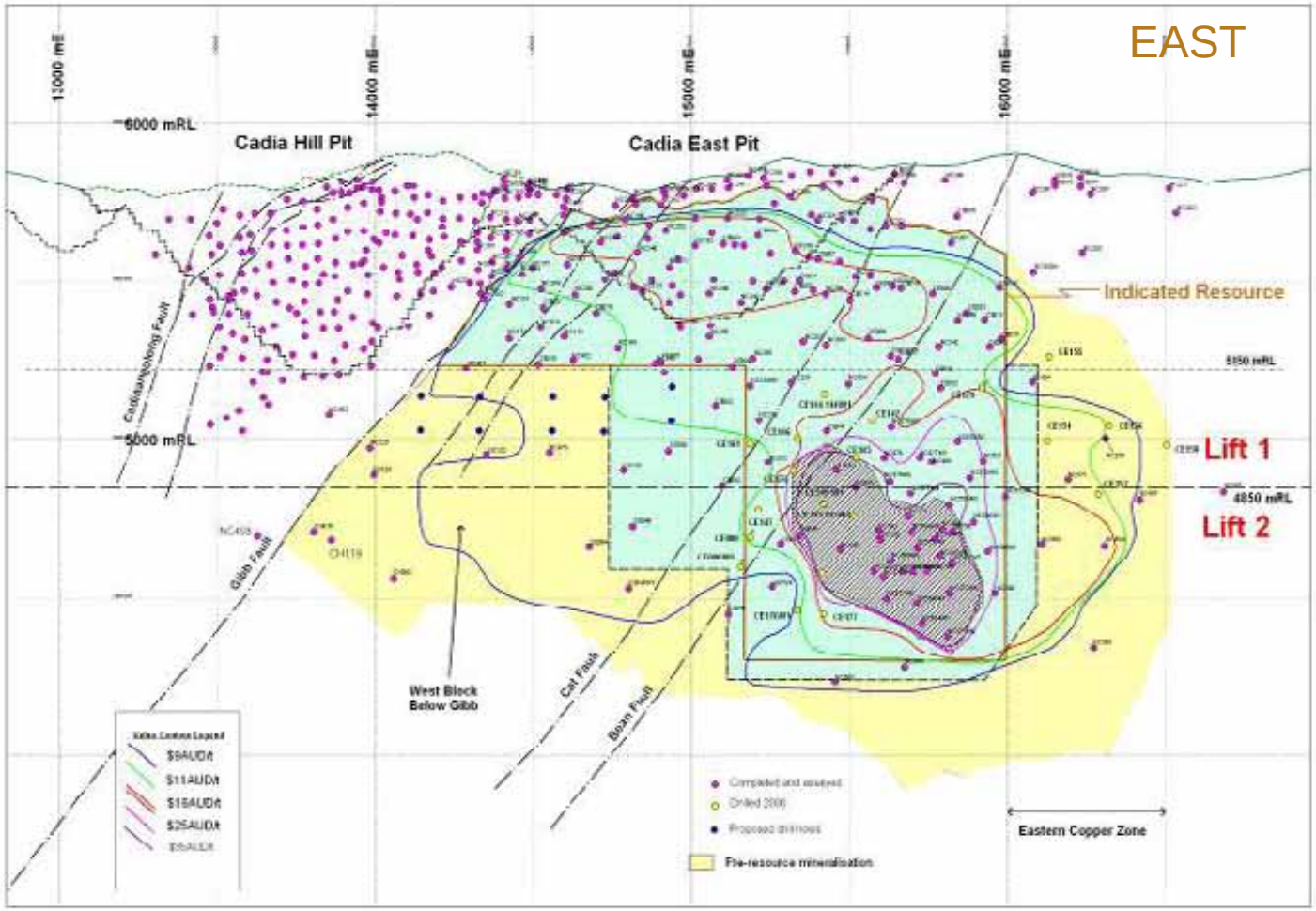


Cadia East Resource - Long Section

WEST



EAST



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Cadia East paragenesis – in brief.

Early porphyry alteration - roughly concentric zonation alteration system comprising lower and upper potassic zones, inner and outer propylitic, magnetite and pyrite shell.
Upper disseminated chalcopyrite is related to a potassic phase (tourmaline).

Overprinting sodic – potassic + silica alteration – barren

Main gold mineralisation event associated with steeply dipping quartz veining.

The main sulphide mineral species are chalcopyrite, pyrite, bornite and molybdenite.

Late faults – pyrite faults

Post mineral sedimentary cover – shales and sandstones - Waugoola formation

Major fault event - moderate dipping carbonate thrust duplex.

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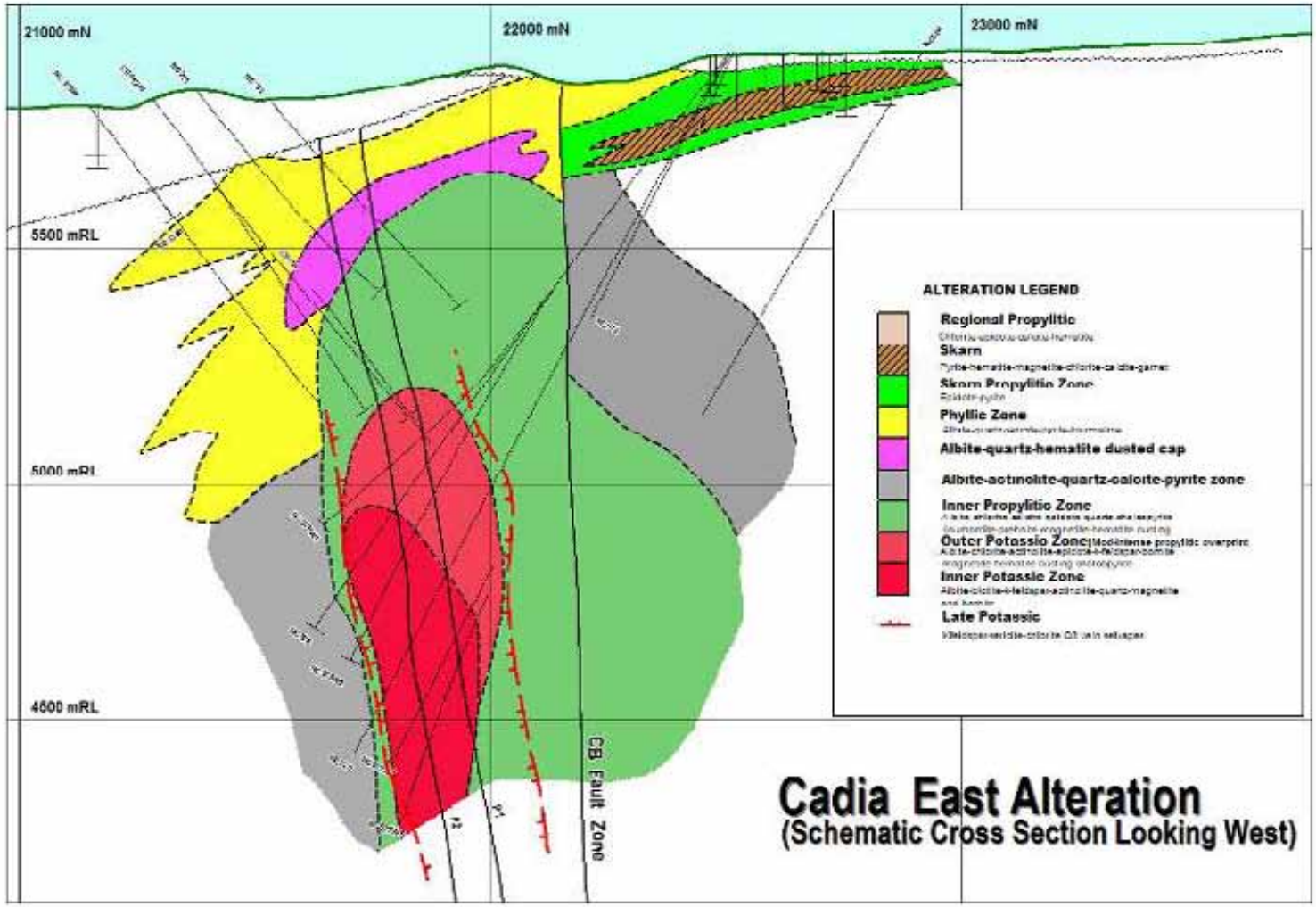

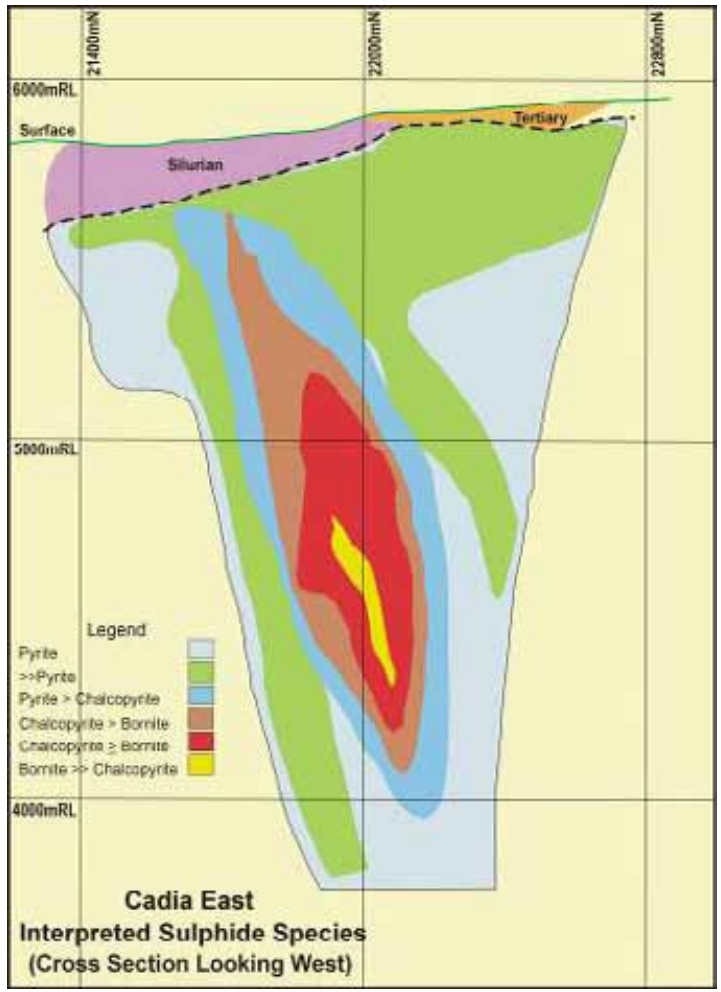

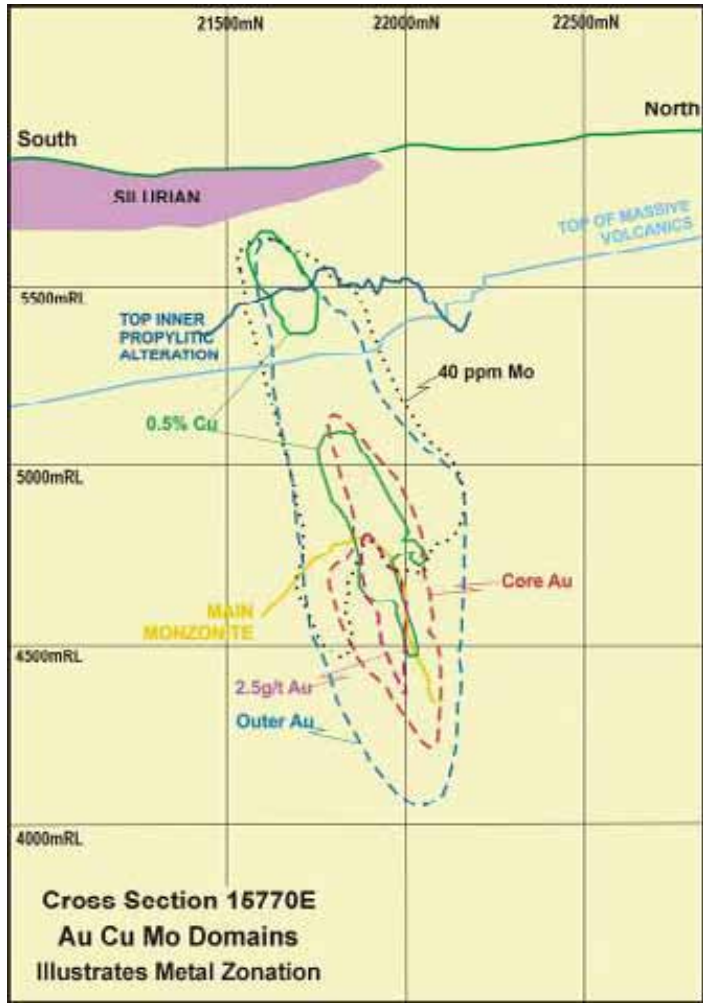

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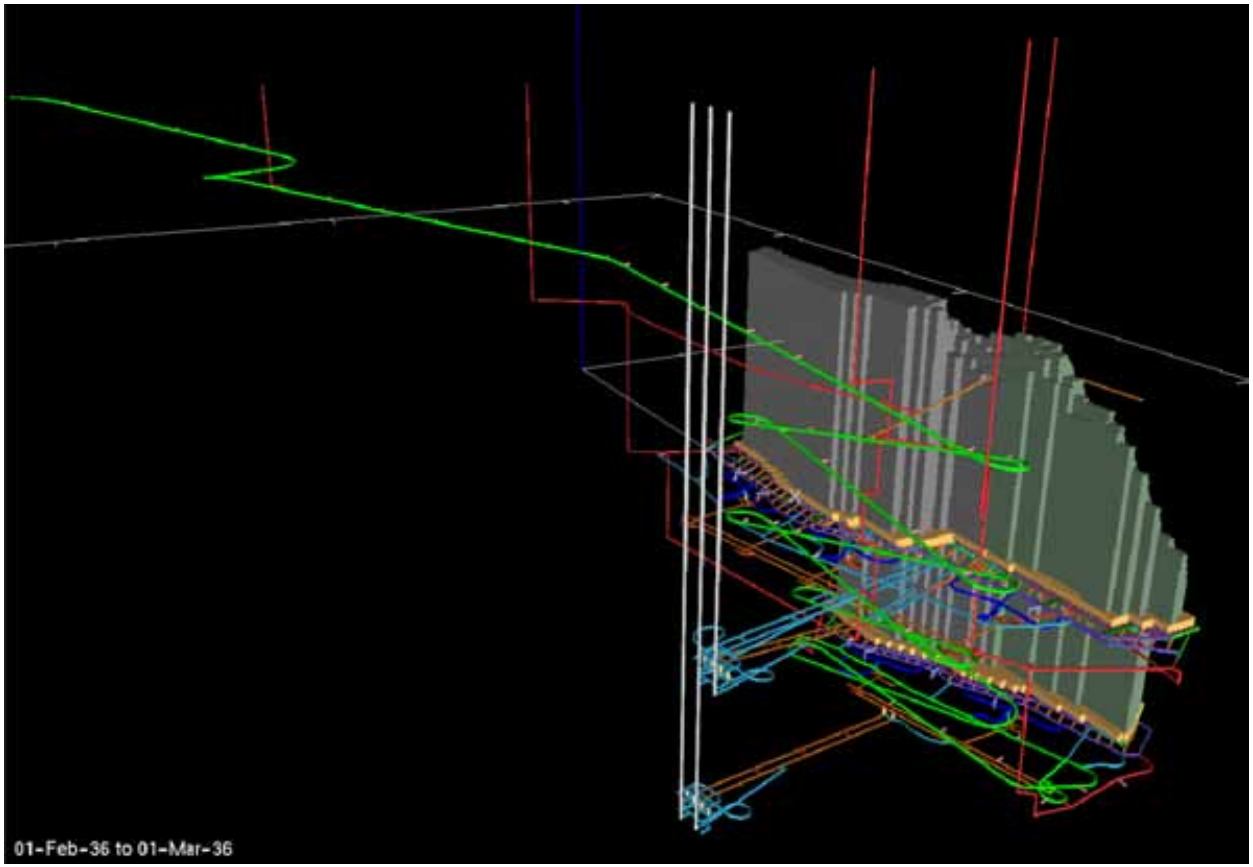
CEUG DEVELOPMENT



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Cave Mining Skills are in the Hand of a Few ……

⚒ *Sublevel Caving* ⚒ Block Caving ⚒ Panel Caving

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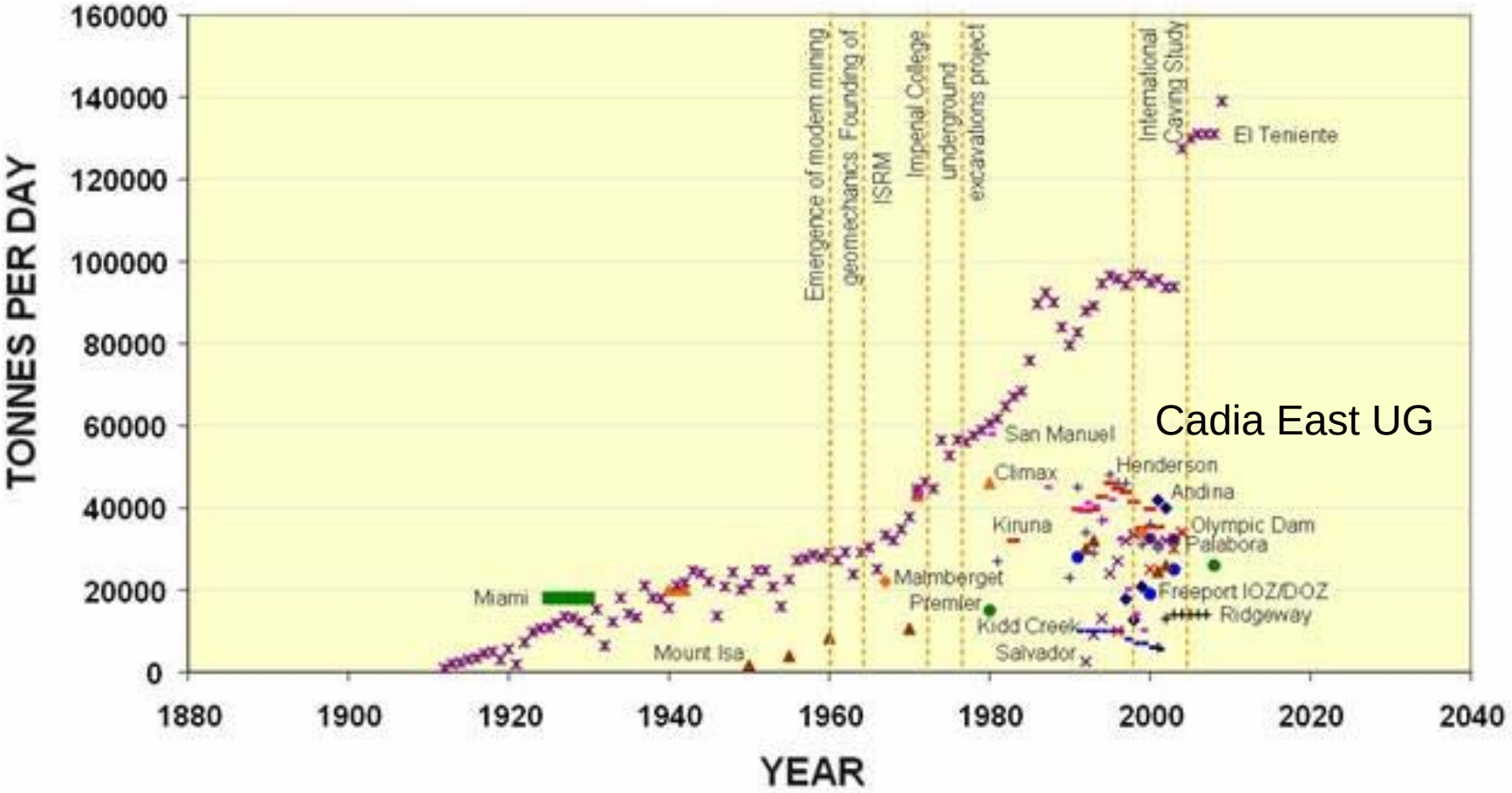
Cadia East Underground Context



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Major Slope Instabilities

GWL

GWL

Subsidence

Depth 1000 m

Rock Mass Characterization

Simultaneous Open Pit - UG Mining Crown Pillar Failure

Cave Propagation

Inrushes

Mining Induced Seismicity

Some Technical Mining Considerations ....

High In-Situ Stress Field

σ_3

σ_1

B_H

Block 1

α

β

Lift 1

L_F

Abutment Stress Zone

Block 2

Lift 2

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- Large low grade
- Deep, vertically extensive
- Panel cave – risk profile
- Geology models of lithology, alteration, mineralisation, and structure enable exploration of system, geotechnics, mine design, geometallurgy.

Current feasibility design is for the 5th largest UG mine in world, biggest in Australia by a factor of 3.