

## Soledad Project High-Grade Copper-Gold-Silver Discovery in Peru

Town Hall Presentation January 2021





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Historical exploration information contained in this Presentation has been obtained from publicly available third-party sources and Chakana has not verified any such information. Technical information in this Presentation has been approved by David Kelley, a director of Chakana, and a Qualified Person as defined by NI 43-101 – Standards of Disclosure for Mineral Projects.

Disclosure in this presentation relating to the definition of an initial inferred resource is qualified by the fact that the potential quantity and grade of any such inferred resource is conceptual in nature and that at this time there is insufficient exploration to define a mineral resource and it is uncertain if further exploration will result in the exploration target being delineated.

# PREMIER EXPLORATION OPPORTUNITY **VALUE PROPOSITION**

- Strong Management team with a proven track record
- Strong capital structure

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- Gold Fields cornerstone investment partner
- Highly favorable mining jurisdiction
  - Ancash Province, Peru
  - Active mining district, supportive communities
- Soledad Discovery Project high-grade Cu-Au-Ag
  - 23 confirmed mineralized breccia pipes at surface + 92 total targets
  - 100% owned \ 100% option on expanded Soledad project 3,085 ha
  - Aggressive 15,000m exploration/definition drill program in progress
  - More than 35,000m drilling completed on project
- H2 drill program fully funded, testing new targets
  - Aggressive15,000m exploration/definition drill program commenced
  - Two new discoveries announced Paloma East and Paloma West
- Well-positioned to become a development project for global copper shortage, supply and demand; high gold and silver in deposit diversifies exposure to base and precious metals



TSX.V: PERU|OT<mark>CQB: CHKK</mark>

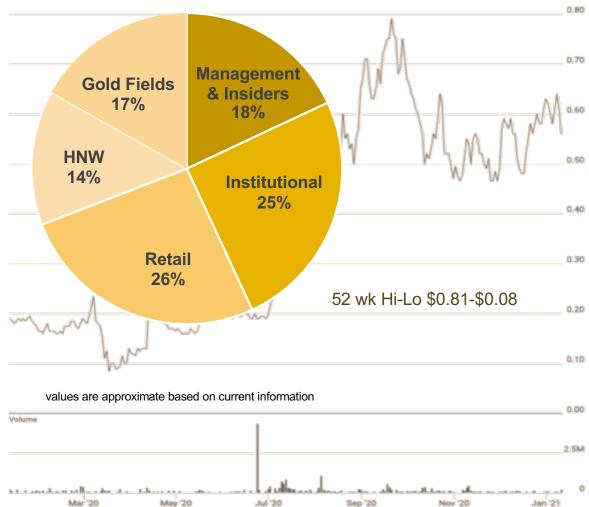


# **INVESTOR SNAPSHOT SHARE STRUCTURE**

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Mar 20

May 20



Jul '20

Sep '20

Nov '20

	Jan 12, 2020			
Shares Outstanding	93,349,847			
Warrants	0			
Options	6,560,000			
Fully Diluted	99,909,847			
Market Cap (Dec 16/20)	~\$51.0M			
Share Price (Dec 16/20)	\$0.55			
Cash on Hand	CDN \$3.4M			
Daily Vol.	~115,000			



# EXPERIENCED MANAGEMENT & BOARD



## **Independent Directors**

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### **Management Team**

#### David Kelley CEO, President & Director

Economic geologist & exploration geochemist, 30+ years international exploration experience; most recently responsible for developing the exploration program at Las Bambas for MMG as the General Manager Exploration – Americas.

#### Xavier Wenzel, CPA, Chief Financial Officer

CPA with 20+ years experience in accounting, auditing and executive roles in public and private companies; bi-lingual in Spanish and English. Has held senior and consultant positions with both public and private international natural resource companies.

#### Mario Chirinos, General Manager, Peru

Lawyer with 15 years experience advising national and international mining companies operating in Peru. Senior Associate with Dentons Gallo, Barrios, Pickmann in Lima, specializing in mining law, mergers, acquisitions, and mining related permitting.

Douglas Kirwin Chairman & Director	45 years international exploration experience with Anglo American, Amax, Inndochina Goldfields, Ivanhoe Mines. Member of the joint discovery team for the Hugo Dummett deposit at Oyu Tolgoi in Mongolia.
John Black Director	P.Geo, 30+ years international exploration experience with Kennecott, Rio Tinto, WMC, founding president/CEO of Antares Minerals. Currently CEO of Regulus Resources and Aldebaran Resources.
Tom Wharton Director	30+ years of business experience in start-up, development, operation and financing of early stage companies; director of Ely Gold, Angel Gold and Dolly Varden Silver.
Darren Divine Director	Provides corporate finance advisory services to private & public companies, active member of the TSX Venture Exchange's Local Advisory Committee. TSX.V: PERU   OTCOB: CHKKE   FRA: 1ZX

# 6 MINING IN PERU LOCATION

## <u> Ancash</u> – Premiere Mining Province

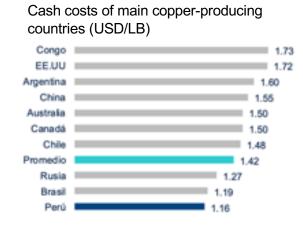
- 35 km S of Barrick's Pierina Gold Mine;
   60 km WSW of Antamina
- Cordillera Negra within Peru's highly mineralized Miocene copper-gold belt
- Aija-Ticapampa mining district: 4 active mines, 2 processing plants
- Surface over Soledad cluster is privately owned
- Excellent infrastructure
  - Reasonable elevation: 3800-4600m
  - Grid power and plentiful water
- Progressive mining-friendly administration
- Engaged communities with long-term involvement in mining

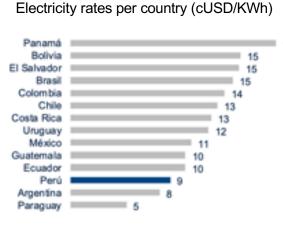


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# MINING IN PERU LEADING MINING JURISDICTION

- 2<sup>nd</sup> largest global Cu & Ag producer, largest Au producer in Latam
- 5<sup>th</sup> largest global exploration investment country after Canada, Australia, Chile and US
- Mining = 13% of GDP, 60% of export revenue
  - copper = 31%, gold = 18%, zinc = 5%, lead = 4%
- 2021: \$7.3Bn of pipeline projects to start construction
- Corporate tax rate 29.5%
- Gov't. royalty based on operating revenue
  - 1% Gross value <US\$60M or, 3% Gross value >US\$120M







# 8 POSITIVE INVESTMENT EXPOSURE 8 CRITICAL COPPER

### Mining Operations & Developments

- Supply disruptions
- Grades declining, mines closing
- Capital costs escalating
- Development timelines increasing
- Under-investment in exploration
- Fewer discoveries/quality projects

#### Green Energy Systems

- Est. 1.9Bln lbs of Cu will be needed over next 8-9 yrs
- All use Cu as part of their energy delivery systems
- Energy storage systems, batteries use 25 x more Cu than standard batteries
- Renewable energy = 5 metric tonnes of Cu for every megawatt-hr of electric generation
- Other critical metals do not work without Cu

#### Global Urbanization = Grid Expansion, EV's

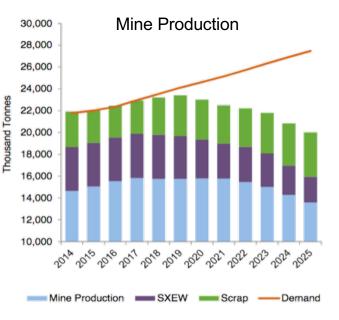
- China largest Cu consumer
- India growing by 9%/year

#### EV's use est.180lbs Cu/vehicle

 "...to meet climate goals,...the number of EV's on the road could be as high as 220 million in 2030." International Policy Organization.





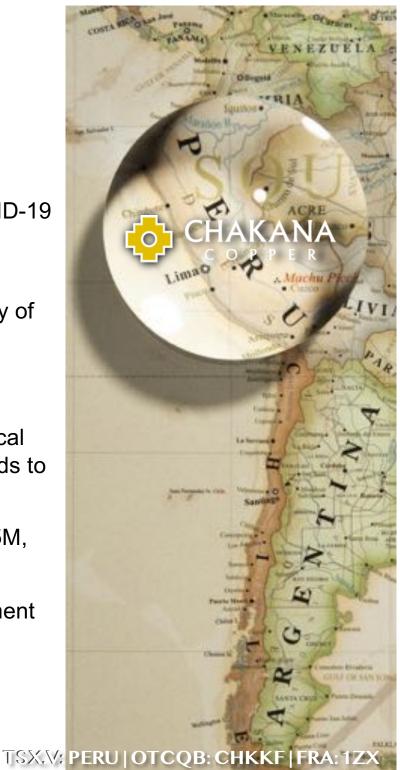


Source: Wood Mackenzie, CRU, ICSG, Teck



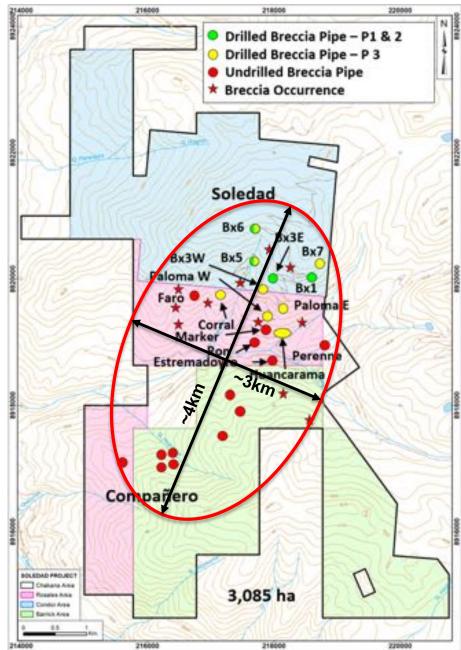
# 9 PLANNING STATEMENT 9 RESPONSE TO COVID-19

- On March 15, the Peruvian Government declared COVID-19 national emergency
- Temporarily suspended field activities to adhere to government policies and to protect the health and safety of employees, contractors and the communities:
  - Employees in Canada, USA, Peru continued to work remotely
- Directly involved with community efforts to deliver medical needs and equipment and has partnered with Gold Fields to provide COVID-19 test kits
- Chakana has reserved its strong cash position of C\$6.5M, while continuing to develop an action plan
- Deploying a COVID-19 return to work plan per government protocols:
  - Return to work/field with fully-funded 15,000m drill program to test targets
  - On-site camp announced, Aug. 2020



# 10 SOLEDAD PROJECT HIGHLIGHTS

- High grade Cu-Au-Ag discovery hosted in tourmaline breccia pipes
- Large cluster of breccia pipes identified 23 known pipes, 92 targets in total
  - Potential for high-grade Cu expansion at depth
- Phase 1 & 2 25,555m of drilling completed on 4 pipes
- Phase 3 20,000m drill program started July 2019 (5,717m completed)
  - 15,000m drill program in progress (6,800m completed)
- Extensive historical data/core has been catalogued
- Weighted avg. of 52 holes in Bx 1 to date:
  - 2.90% Cu\_eq\* or 4.43 g/t Au\_eq\*
- Considerable upside potential:
  - Multiple/blind pipes
  - Vertical depth extent/increasing diameter
  - Pipes coalescing at depth
  - Late copper upgrading
  - Mineralization outside of pipes
  - Possible mineralized intrusions
  - >92 targets on property



\* Cu\_eq, Au\_eq values calculated using Cu, Au, and Ag. Metal price calculations: Cu – US\$2.90/lb, Au – US\$1,300/oz, and Ag – US\$17/oz. No adjustments for recovery as project is early stage exploration and metallurgical data for estimation of recoveries not yet available. The formulas utilized to calculate EQ values: Cu\_eq (%) = Cu% + (Au g/t \* 0.6556) + (Ag g/t \* 0.00857) and Au\_eq (g/t) = Au g/t + (Cu% \* 1.5296) + (Ag g/t \* 0.01307).



## SOLEDAD PROJECT

# CHAKANA DRILLING (PHASE 1, 2, 3a)

Results from select CHAKANA holes completed on Bx 1, Bx 5, Bx 6 and Bx 7:

	DDH#	From(m)	To (m)	Interval	Au (g/t)	Ag(g/t)	Cu%	Cu_eq%*	Au_eq g/t*
7	SDH17-018	0.00	209.00	209.00	2.22	69.6	0.96	3.01	4.60
	including	0.00	40.00	40.00	4.21	18.6			4.45
	including	40.00	114.00	74.00	3.31	65.5	1.11	3.83	5.86
	SDH18-059	0.00	233.00	233.00	1.36	57.2	0.85	2.24	3.42
×	including	0.00	46.00	46.00	2.11	26.1			2.45
Ш	including	46.00	233.00	187.00	1.18	64.9	1.05	2.38	3.63
	SDH18-077	0.00	244.00	244.00	1.41	55.6	0.91	2.31	3.53
	including	0.00	50.00	50.00	1.68	17.7			1.91
	including	50.00	244.00	194.00	1.34	65.4	1.13	2.57	3.92
5	SDH17-041	0.00	176.00	176.00	1.81	27.5			2.17
	including	12.00	176.00	164.00	1.68	27.4	0.51	1.84	2.82
×	SDH18-080	0.00	264.00	264.00	1.30	24.3	0.71	1.77	2.70
Ш	including	0.00	30.00	30.00	1.33	45.8	0.05		1.93
	including	30.00	264.00	234.00	1.30	21.6	0.79	1.82	2.79
ပ	SDH18-090	14.00	44.00	30.00	0.53	17.4	0.03		0.80
_	and	61.00	103.00	42.00	1.02	115.9	0.51	2.17	3.31
BX	SDH18-102	28.00	87.30	59.30	1.28	497.2	0.53	5.63	8.59
	including	64.50	87.30	22.80	2.93	1283.2	1.37	14.29	21.80
$\sim$	SDH19-111	132.65	195.00	62.35	0.43	118.4	0.13	1.43	2.18
	including	157.00	188.00	31.00	0.68	205.9	0.23	2.44	3.72
BX	SDH18-112	65.35	197.00	131.65	0.59	56.9	0.09	0.96	1.47
	including	149.00	181.00	32.00	0.83	127.4	0.14	1.78	2.71

\* Cu\_eq, Au\_eq values calculated using Cu, Au, and Ag. Metal price calculations: Cu – US\$2.90/lb, Au – US\$1,300/oz, and Ag – US\$17/oz. No adjustments for recovery as project is early stage exploration and metallurgical data for estimation of recoveries not yet available. The formulas utilized to calculate EQ values: Cu\_eq (%) = Cu% + (Au g/t \* 0.6556) + (Ag g/t \* 0.00857) and Au\_eq (g/t) = Au g/t + (Cu% \* 1.5296) + (Ag g/t \* 0.01307).

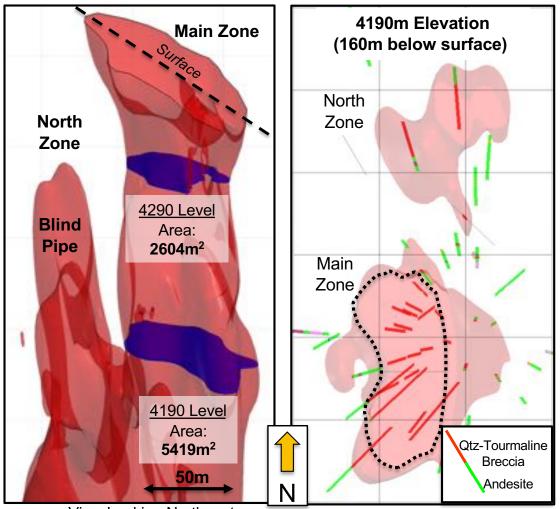


# 12 SOLEDAD PROJECT BRECCIA PIPE GEOMETRY

Bx 1 3D Model

**Bx 1 Level Plans** 

Pipes Gets Larger At Depth



SDH17-034 376.7m: 1m @ 0.31 g/t Au, 124 g/t Ag, 6.92% Cu



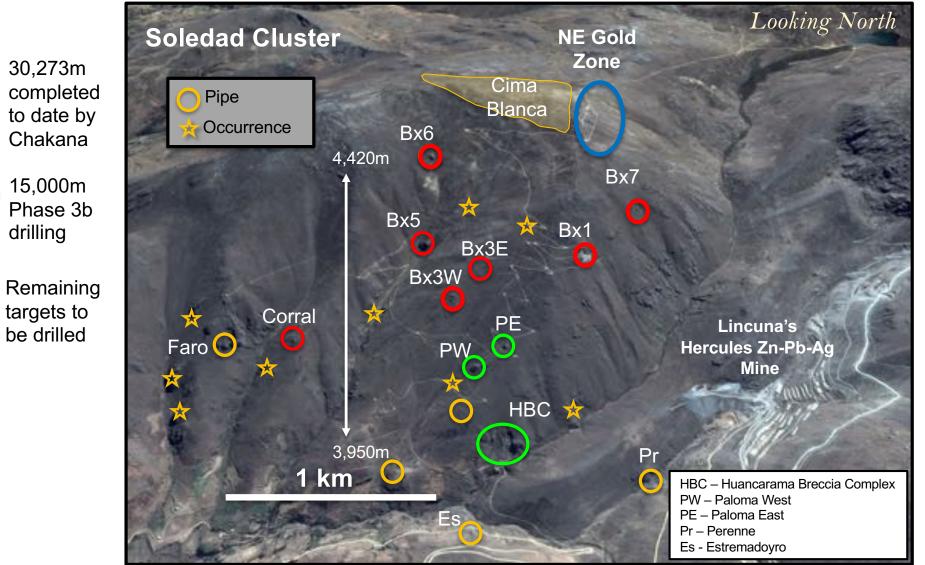
SDH17-018 153.65m: 1m @ 1.21 g/t Au, 246 g/t Ag, 4.42% Cu



View Looking Northeast

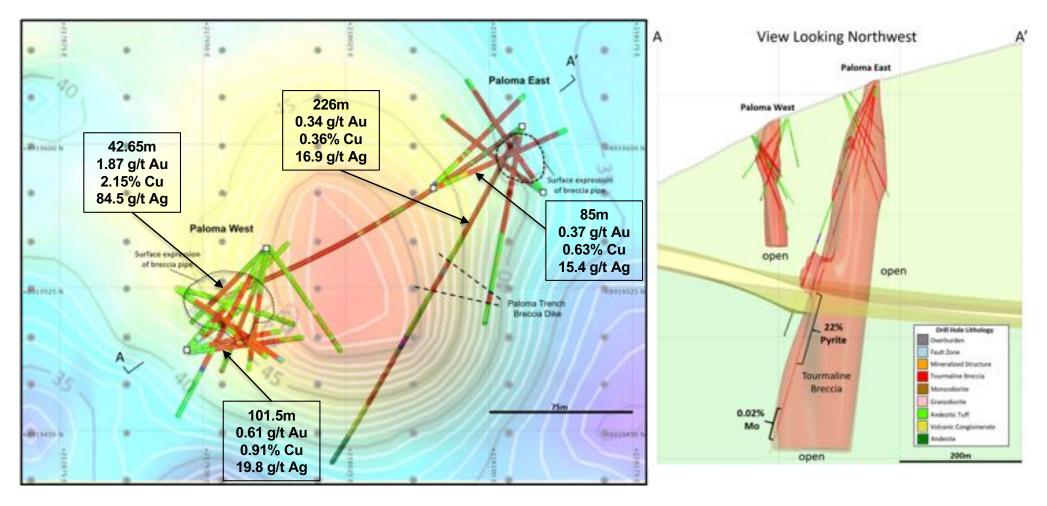


# 13 BRECCIA PIPES AT THE SOLEDAD PROJECT DRILLING PROGRAM





# PALOMA TARGET AREA C 14 EXTENSIVE BRECCIA SYSTEM





## SOLEDAD PROJECT

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# CHAKANA DRILLING – PHASE 3b

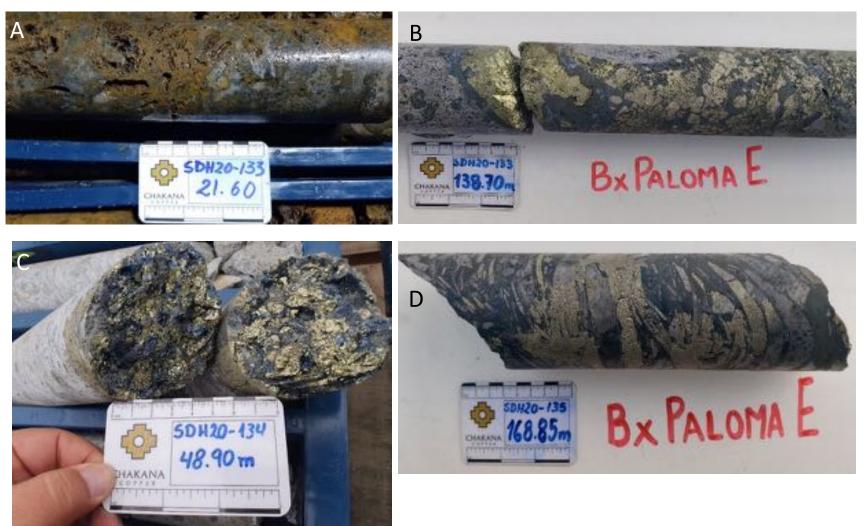
Results from Paloma East and Paloma West:

	DDH#	From(m)	To (m)	Interval	Au (g/t)	Ag(g/t)	Cu%	Cu_eq%*	Au_eq g/t*
	SDH20-133	132.00	147.70	15.7	0.50	24.2	0.89	1.42	2.18
ŋ	SDH20-135	0.00	172.70	172.70	0.31	13.2	0.34	0.66	1.00
ist of	including	44.80	60.00	15.20	0.31	38.8	2.10	2.63	4.03
aloma East	SDH20-138	3.00	229.00	226.00	0.34	16.9	0.36	0.73	1.11
<u>م</u>	including	64.00	97.00	33.00	0.22	20.3	0.99	1.31	2.00
	SDH20-141	28.00	70.65	42.65	1.87	84.5	2.15	4.09	6.26
	including	48.00	70.65	22.65	2.81	56.2	3.80	6.12	9.36
, m	SDH20-144	63.00	84.00	21.00	1.05	44.6	0.79	1.84	2.82
aloma West	SDH20-145	32.40	43.10	10.70	7.25	163.5	10.20	16.34	24.99
₹ <del>a</del>	and	59.90	68.00	8.10	0.28	53.8	4.06	4.70	7.19
<u>م</u>	SDH20-147	21.60	33.80	12.20	5.76	252.0	2.98	8.90	13.61
	SDH20-152	32.00	133.50	101.50	0.61	19.8	0.91	1.48	2.26
	including	32.00	50.00	18.00	0.81	49.1	2.73	3.68	5.63
a	SDH20-159	71.00	210.00	139.00	0.30	39.2	0.29	0.82	1.26
lan- rama	SDH20-160	92.80	219.00	126.20	0.31	34.6	0.53	1.03	1.57
Huan- Caram	including	138.00	151.00	13.00	0.60	48.4	1.40	2.21	3.37
- 0	including	184.00	205.00	21.00	0.58	58.8	1.35	2.23	3.41

\* Cu\_eq, Au\_eq values calculated using Cu, Au, and Ag. Metal price calculations: Cu – US\$2.90/lb, Au – US\$1,300/oz, and Ag – US\$17/oz. No adjustments for recovery as project is early stage exploration and metallurgical data for estimation of recoveries not yet available. The formulas utilized to calculate EQ values: Cu\_eq (%) = Cu% + (Au g/t \* 0.6556) + (Ag g/t \* 0.00857) and Au\_eq (g/t) = Au g/t + (Cu% \* 1.5296) + (Ag g/t \* 0.01307).



# 16 PHASE 3b DRILL PROGRAM PALOMA EAST





# 17 PHASE 3b DRILL PROGRAM PALOMA WEST



SDH20-147 31.9m



SDH20-147 33.25m



SDH20-148 20.1m



SDH20-148 66.7m



SDH20-150 79.4m



SDH20-151 46.6m



SDH20-151 89.3m



SDH20-152 34.85m

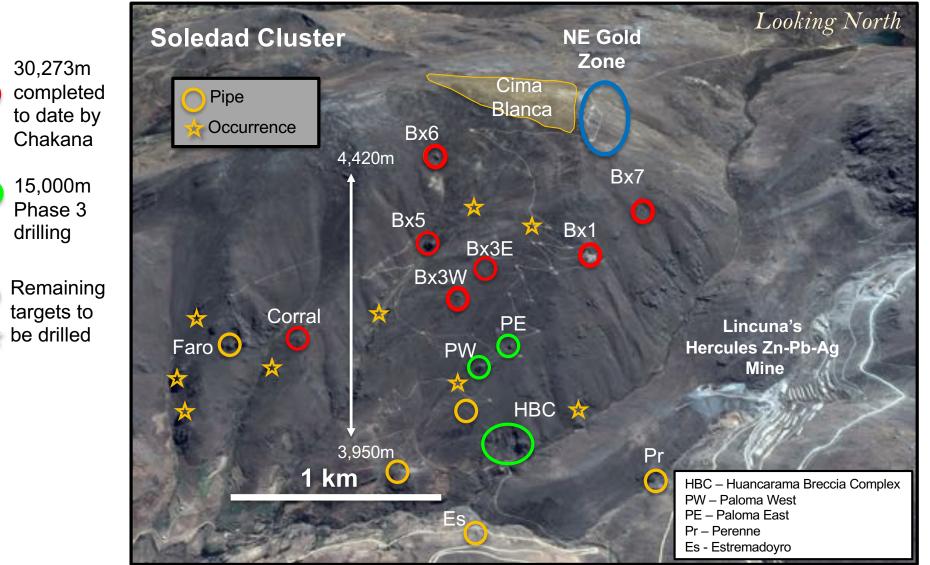


SDH20-152 41.9m



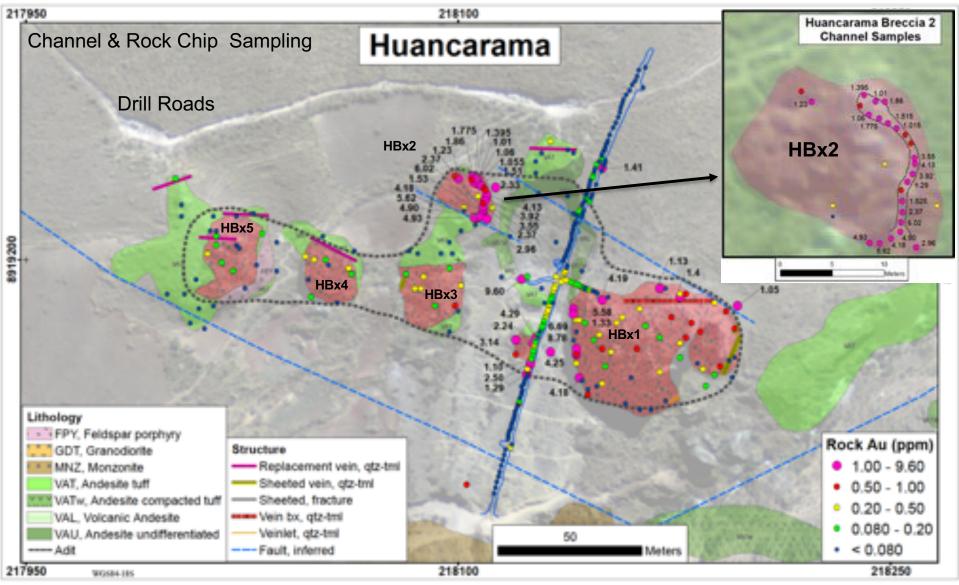


# 18 BRECCIA PIPES AT THE SOLEDAD PROJECT DRILLING PROGRAM





# 19 HUANCARAMA BRECCIA COMPLEX





# 20 HUANCARAMA BRECCIA COMPLEX

Drilling ongoing – 15 holes completed to date

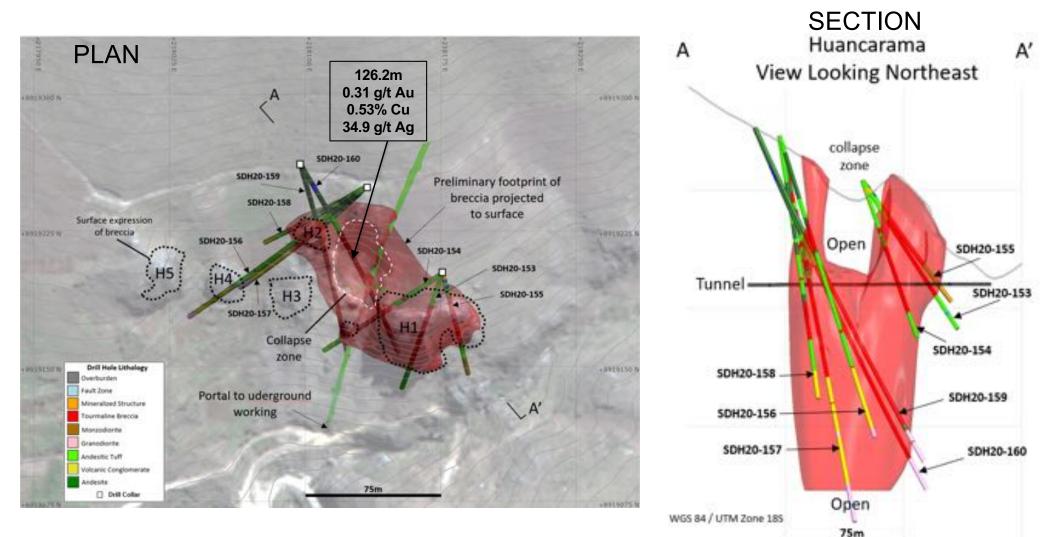




# <sup>21</sup> HUANCARAMA BRECCIA COMPLEX

PHASE 3 DRILL PROGRAM

Drilling ongoing – 15 holes completed to date





# 22 PHASE 3b DRILL PROGRAM HUANCARAMA



5DH20-156 84.80m



SDH20-159 189.09m



SDH20-160 204.80m



5DH20-153 76.2m



SDH20-156 173.20m



SDH20-160 148.65m

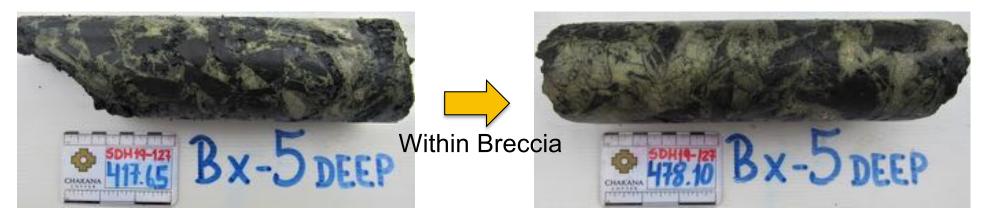


SDH20-160 195.00m





# 23 SOLEDAD – ADDITIONAL UPSIDE POTENTIAL



## Within Monzodiorite Wallrock Around Bx 1



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South of Bx 6 Wallrock (Vat) SDH19-124 168.3m



Bx 5 East SDH19-127 460.2m



## Bx 5 East SDH19-127 478.5m

Wallrock (Vat) SDH19-124 125.7m







#### TSX.V: PERU | OTCQB: CHKKF | FRA: 1ZX

CHAKANA

## SOLEDAD PROJECT

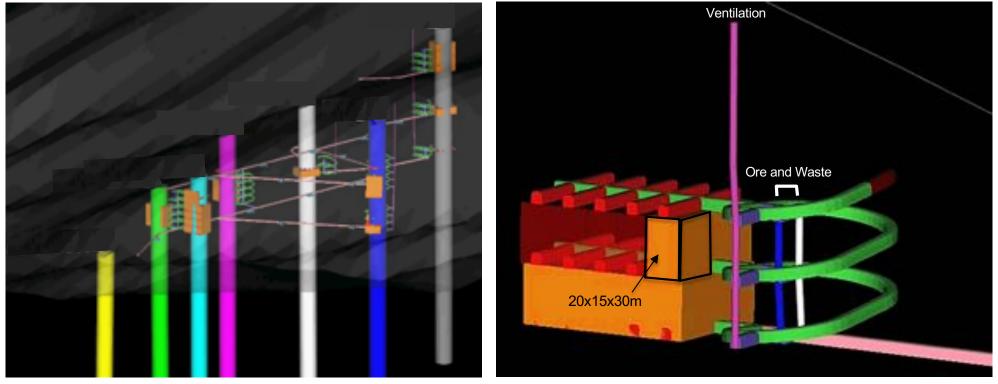
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# **CONVENTIONAL MINING METHODS**

## Possible Mining Scenarios when Mineral Reserves are Defined

- Underground, mechanized mine using local miners
- Sublevel mining a conventional mining approach
- Topography allows several access tunnels at optimal elevations to initiate mining, while integrated underground mine infrastructure is developed
- Multiple working faces will allow production to balance head grades with tonnage delivered to surface
- Some pipes may be amendable to open pits
- Small underground footprint, for environmental & community

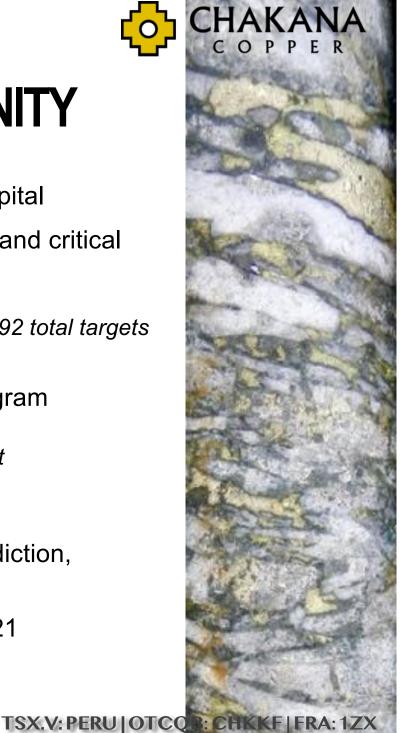


Close spacing of pipes would allow integrated underground infrastructure

## NEXT STEPS 26 **INVESTMENT OPPORTUNITY**

- Strong Management team with ability to raise capital
- Investors have exposure to high-grade precious and critical C metals discovery
  - Soledad high-grade Cu-Au-Ag Discovery Project
  - 23 confirmed mineralized breccia pipes at surface, >92 total targets
  - Potential for project expansion and larger discovery
- Phase 3, aggressive 15,000m definition drill program underway
  - Multiple high-grade results from Paloma East & West
  - Delineated massive Paloma breccia pipe footprint
  - Reported 1<sup>st</sup> Huancarama high-grade drill results
- Ancash Province, Peru favourable mining jurisdiction, community support, infrastructure
- Soledad Maiden Mineral Resource expected 2021







## Soledad Project High-Grade Copper-Gold-Silver Discovery in Peru

#### Contact

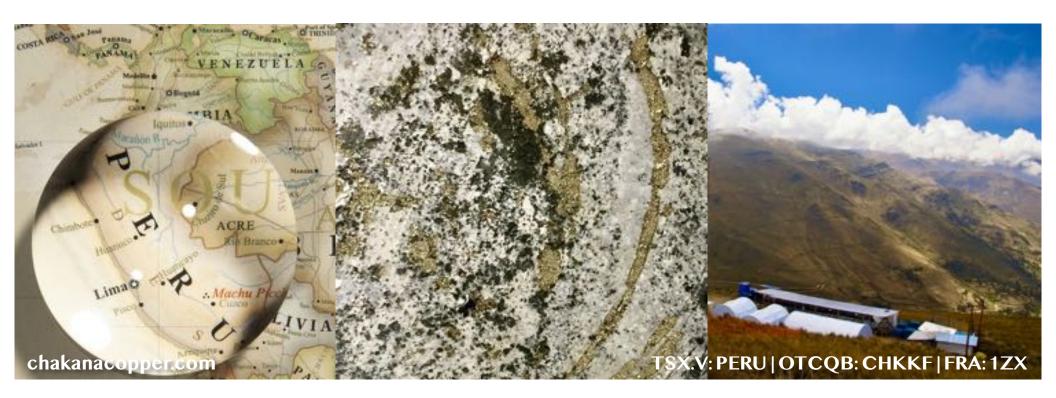
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# **28 APPENDIX**

- Any reference to size and grade potential is conceptual in nature. There has been insufficient exploration to define a mineral resource and it is uncertain if further exploration will result in a target being delineated as a mineral resource.
- Cu\_eq and Au\_eq values were calculated using copper, gold, and silver. Metal prices utilized for the calculations are Cu US\$2.90/lb, Au US\$1,300/oz, and Ag US\$17/oz. No adjustments were made for recovery as the project is an early stage exploration project and metallurgical data to allow for estimation of recoveries are not yet available. The formulas utilized to calculate equivalent values are Cu\_eq (%) = Cu% + (Au g/t \* 0.6556) + (Ag g/t \* 0.00857) and Au\_eq (g/t) = Au g/t + (Cu% \* 1.5296) + (Ag g/t \* 0.01307). Assays for zinc and lead are not used in the metal equivalent calculations.
- The true widths of the mineralized intervals reported in this presentation are difficult to ascertain and additional drilling will be required to constrain the geometry of the mineralized zones.

