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An emerging giant copper-gold-silver district in Argentina/Chile



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# A great time to be in the copper business ....and the energy transition is just beginning



**LUNDIN**GROUP

#### 3 Source: trandingeconomics.com

# The central Andes produce 37% of global copper



# ARGENTINA & CHILE GIANT DEPOSITS AND BIG RETURNS

### Now there is a new cluster

SOUTHERN PERU



**VICUÑA** 



40% of the world's copper comes from the central Andes. Most of it from several giant deposit clusters.



# Background

Market Cap

~\$40<sub>million</sub>

3 early stage

Exploration

Projects



#### Giant in size, rare by nature

 Vicuña is an emerging giant copper-gold-silver district controlled by Lundin Group junior companies.

# Long runway of value creation

 A portfolio of major Cu-Au-Ag projects from exploration to mine development stage.

#### Lundin Group advantage

 A track record of discovery, development and mining to realize the full value of an entirely new giant copper-goldsilver district.

LUNDINGROUP

2009

# When you find something big, think bigger.

# **Giant metal districts:**

- The Holy Grail of the mining business
- Geological "freaks of nature"
- Hard to find, easy to overlook

CURRENT INDUSTRY GIANTS



**Escondida, Chile** 31 years of Cu production; 55+ years of reserves



**Chuquicamata, Chile** >100 years of Cu production; 35+ years of reserves

#### Red D 32 yea produ of rese





**Grasberg, Indonesia** 48 years of Au-Cu production; 20+ years of reserves



# Giant metal districts are unique & complex but most share 3 simple giant characteristics:



Typically outsized for their deposit class



They commonly offer a regional cluster of giant ore deposits

**3** Ore Structures

Big, long-life faults



# Giant by definition.

"Giant" is not a superlative or promotional description. Size of districts are formally classified and quantified by industry academia.



A.H.Clark, Society of Economic Geologists (SEG), Special Publication No. 2, 1993.

#### SIZE CLASSIFICATIONS Based on contained copper metal





# The giant formula technical excellence leveraging entrepreneurial spirit.

- Lundin Group has a 30-year history of success in South America: Alumbrera, Veladero, Candelaria, Fruta del Norte
- 1999: first field season exploring a gap
- Why was there a gap?: geological dogma
- Long term commitment to regional exploration
- Success due to strong local team and entrepreneurial leadership



Giant districts are not built on one discovery but **many** 

- Giant metal districts contain multiple giant metal deposits. We have three
- Vicuña is an emerging giant copper-gold-silver district controlled by Lundin Group companies



# Industry analogs

Scale
 Clusters
 Structures

# Giant metal deposits are commonly district scale

#### Escondida

#### Chile

- A district-scale cluster of porphyry deposits hosting ~150 Mt Cu. The world's largest copper mine
- World's largest copper mine; 2020 production of 1,185 kt Cu; LoM of 58 years (2018)

# Tenke Fungurume

- 24.7 Mt Cu as Total Resources (2020)
- 120 known, mineralized tectonic mega-blocks; 30 with delineated Mineral Resources







Scale

# Giant metal deposits typically occur in clusters

# **2** Clusters

### Red Dog

Alaska

- One of the World's greatest zinc repositories
- Two major ore clusters
- Numerous other regional deposits and prospects
- Robust, formational "basin-wide" Zn-Pb mineralizing event

Independent of the metal the same geological principles apply





# Big structures – ore corridors control the giant deposits

# **3** Structures

### **Oyu Tolgoi** Mongolia

- 20 km long mineralized corridor with 13 km of mineral resources
- Similar to the distance between Los Helados and Filo del Sol



Cretaceous clays and Cainozoic superficial cover

Permian Khanbogd Mountain peralkaline granite complex (287±2 Ma)

Carboniferous Javkhlant Mountain Batholith and North Granite (324±3 Ma)

Carboniferous layered pyroclastic, intrusive and sedimentary rocks

Devonian felsic intrusions (~370 Ma)

Devonian basaltic volcanic and volcaniclastic rocks and pelites of the Heruga and Oyu Tolgoi sequences

Undifferentiated Palaeozoic rocks

Undifferentiated mafic intrusions

Oyu Tolgoi mineralised corridor and surface projection of ore deposit

Fault (at pre-Cretaceous bedrock)

Ore Corridor



# Vicuña: a giant district in the making

Scale
Clusters
Structures





# Vicuña: a giant district in the making





# Los Helados copper-gold-silver deposit

Scale Clusters Structures

### A giant copper-gold-silver deposit on the cusp of becoming a super giant.

#### **Indicated Resource**

17.6 billion lbs Cu (8.0 Mt Cu)10.1 million oz Au92.5 million oz Ag

#### **Inferred Resource**

5.8 billion lbs Cu (2.6 Mt Cu)2.7 million oz Au35.1 million oz Ag





# Still growing..

#### Indicated Resource

3.1 billion lbs Cu (1.4 Mt Cu)4.4 million oz Au147 million oz Ag

#### **Inferred Resource**

1.1 billion lbs Cu (.48 Mt Cu)
 1.8 million oz Au
 34.8 million oz Ag

#### 2021 drill intercepts:

858m @ 1.80% CuEq; 0.86% Cu; 0.70 g/t Au; 48 g/t Ag 1081m @ 0.88% CuEq; 0.52% Cu, 0.43 g/t Au, 5.3 g/t Ag 1378m @ 0.71% CuEq; 0.45% Cu, 0.29 g/t Au, 6.1 g/t Ag



Scale
Clusters
Structures

#### SEG SIZE CLASSIFICATIONS

Super Giant >10,000,000 -31,162,000 t Cu Giant >3,162,000 -10,000,000 t Cu



Scale
Clusters
Structures

### Giant deposits are freaks of nature

### **Oyu Tolgoi Comparison with Filo del Sol**





# Filo del Sol FIIO del Sol copper-gold-silver deposit





Hole-ID	From (m)	To (m)	Length (m)	Cu %	Au g/t	Ag g/t	CuEq % <sup>1</sup>
FSDH041	188.0	1,046.	858.0	0.86	0.70	48.1	1.80
incl	376.0	1,046.	670.0	1.07	0.85	60.9	2.23
incl	780.3	943.3	163.0	2.31	2.07	183.0	5.43
and incl	780.3	864.0	83.7	3.13	2.40	272.2	7.27

<sup>1</sup> Copper Equivalent (CuEq) is calculated based on US\$ 3.00/Ib Cu, US\$ 1,500/oz Au and US\$ 18/oz Ag. The formula is: CuEq % = Cu % + (0.7292 \* Au g/t) + (0.0088 \* Ag g/t).



4.1% Cu, 4.4 g/t Au, 472 g/t Ag = **11.5% CuEq**<sup>1</sup>



# Filo del Sol

# Size and grade

All of Los Helados would fit inside the blue box







- Clustering of different types of mineralization styles all in one deposit
- Repeated, overlapping episodes of mineralization
- Rare, large scale copper mineral upgrading process
- A *dumping ground* for copper, gold & silver







- Clustering of different types of mineralization styles all in one deposit
- Repeated, overlapping episodes of mineralization
- A major silver deposit "hidden" within a coppergold deposit
- A *dumping ground* for copper, gold & silver







Scale
 Clusters
 Structures

Big, long life faults control location of deposits



# Las Pailas Porphyry Cu-Au-Ag Prospect





# Josemaría copper-gold-silver deposit

### District's centre of gravity. Commercial production expected for early 2026.

#### Measured + indicated resources

7.4 billion lb copper (3.3M t Cu)7.8 million oz gold33.5 million oz silver

- Superior mine development site, low strip, good water supply
- Significant near-term copper production with high-grade front-end



Clusters

**Structures** 

# lf it **walks** like a giant, and **talks** like a giant...



# Vicuña takes its place in the land of copper giants



# Super giant by definition.

#### SIZE CLASSIFICATIONS Based on contained copper metal





# Vicuña: a giant opportunity Held by Junior Companies





### Giant in size, rare by nature

 Vicuña is an emerging giant copper-gold-silver district controlled by Lundin Group junior companies.

#### Long runway of value creation

- A portfolio of world-class Cu-Au-Ag projects from PFS to mine development stage, plus several prospect to resource stage exploration projects, all within
  - ~150 sq km area.

### Lundin Group advantage

 A discovery track record and project development abilities to realize the full potential of developing of an entirely new Cu-Au-Ag district.



# 30 years of success- and the best is yet to come









### LUNDINGROUP



# Thank you. A giant journey









## Cautionary Note Regarding Forward-Looking Statements

Certain statements made and information contained herein in the presentation constitutes "forward-looking information" and "forward-looking statements" within the meaning of applicable securities legislation (collectively, "forward-looking information"). The forward-looking information contained in this presentation is based on information regarding NGEX Minerals, Filo Mining, and Josemaria Resource (the "Companies") available to the author as of the date of this presentation. Except as required under applicable securities legislation, the author and the Companies do not intend, and do not assume any obligation, to update this forward-looking information. Generally, this forward-looking information can frequently, but not always, be identified by use of forward-looking terminology such as "plans", "expects" or "does not expect", "is expected", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates" or "does not anticipate", or "believes", or variations of such words and phrases or statements that certain actions, events, conditions or results "will", "may", "could", "would", "might" or "will be taken", "occur" or "be achieved" or the negative connotations thereof. All statements other than statements of historical fact may be forward-looking statements.

Forward-looking statements contained in this presentation include statements regarding the outlook for copper prices, potential to increase resources at Los Helados and Filo del Sol, Vicuna District exploration upside, that Josemaria is targeting commercial production by 2026 and potential for future value creation and shareholder returns. Information concerning mineral resource estimates are also forward-looking statements in that they reflect a prediction of the mineralization that would be encountered, and the results of mining, if a mineral deposit were developed and mined. Although the author believes that the expectations reflected in such forward-looking statements and/or information are reasonable, undue reliance should not be placed on forward-looking statements since the author can give no assurance that such expectations will prove to be correct. These statements involve known and unknown risks, uncertainties and other factors that may cause actual results or events to differ materially from those anticipated in such forward-looking statements, including the risks, uncertainties and other factors identified in the Companies periodic filings with Canadian securities regulators, available under the respective Company's profile at www.Sedar.Com.

These factors are not, and should not be construed as being, exhaustive. Although the the author has attempted to identify important factors that would cause actual results to differ materially from those contained in forward-looking information, there may be other factors that cause results not to be as anticipated, estimated, or intended. There can be no assurance that such statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. All of the forward-looking information contained in this document is qualified by these cautionary statements. Readers are cautioned not to place undue reliance on forward-looking information due to the inherent uncertainty thereof.

#### **Estimates of Mineral Reserves and Mineral Resources**

Information regarding reserve and resource estimates has been prepared in accordance with Canadian standards under applicable Canadian securities laws, and may not be comparable to similar information for United States companies. The terms "Mineral Resource", "Measured Mineral Resource", "Indicated Mineral Resource" and "Inferred Mineral Resource" used in this presentation are Canadian mining terms as defined in accordance with NI 43-101 under guidelines set out in the Canadian Institute of Mining, Metallurgy and Petroleum ("CIM") Standards on Mineral Resources and Mineral Resources adopted by the CIM Council on May 10, 2014. While the terms "Mineral Resource", "Measured Mineral Resource", "Indicated Mineral Resource" and "Inferred Mineral Resource" are recognized and required by Canadian regulations, they are not defined terms under standards of the United States Securities and Exchange Commission. Under United States standards, mineralization may not be classified as a "reserve" unless the determination has been made that the mineralization could be economically and legally produced or extracted at the time the reserve calculation is made. As such, certain information concerning descriptions of mineralization and resource" has a great amount oble comparable to similar information made public by United States companies subject to the reporting and disclosure requirements of the United States Securities and Exchange Commission. An "Inferred Mineral Resource" has a great amount of uncertainty as to its existence and as to its economic and legal feasibility. It cannot be assume that all or any part of an "Inferred Mineral Resource" will ever be upgraded to a higher category. Under Canadian rules, estimates of the assume that all or any part of an "Inferred Mineral Resource" and "Inferred Mineral Resource" will ever be upgraded to a higher category. Under Canadian rules, estimates or the assume that all or any part of an "Inferred Mineral Resource" will ever be converted into Mineral Reserves. Readers are cautione

#### **Qualified Persons**

The disclosure of scientific and technical information regarding the Companies properties in this presentation was reviewed by Bob Carmichael, B.A.Sc., P.Eng., who is the Qualified Person as defined by NI 43-101. Mr. Carmichael is Vice President, Exploration for the Companies.

#### **Technical Reports**

For details on data verification, sample, analytical and testing results and further details regarding methods used to estimate mineral reserves refer to the respective Technical Report available under each Company's profile on SEDAR: Los Helados Project, refer to the technical report on the Los Helados Porphyry Copper-Gold Deposit Chile" dated August 6, 2019 (effective date April 26, 2019)

Josemaria Project refer to NI 43-101 Technical Report, Feasibility Study for the Josemaria Copper-Gold Project, San Juan Province, Argentina with an effective date of 28 September 2020 and an issue Date of 5 November 2020



Filo del Sol Project NI 43-101 Technical Report, Pre-feasibility Study for the Filo del Sol Project with an effective date of 13 January, 2019 and an issue date of 22 February 2019