

## LOS BRONCES OVERVIEW

Patricio Chacana, General Manager 17 October 2019









Real Mining. Real People. Real Difference.

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#### **Alternative Performance Measures**

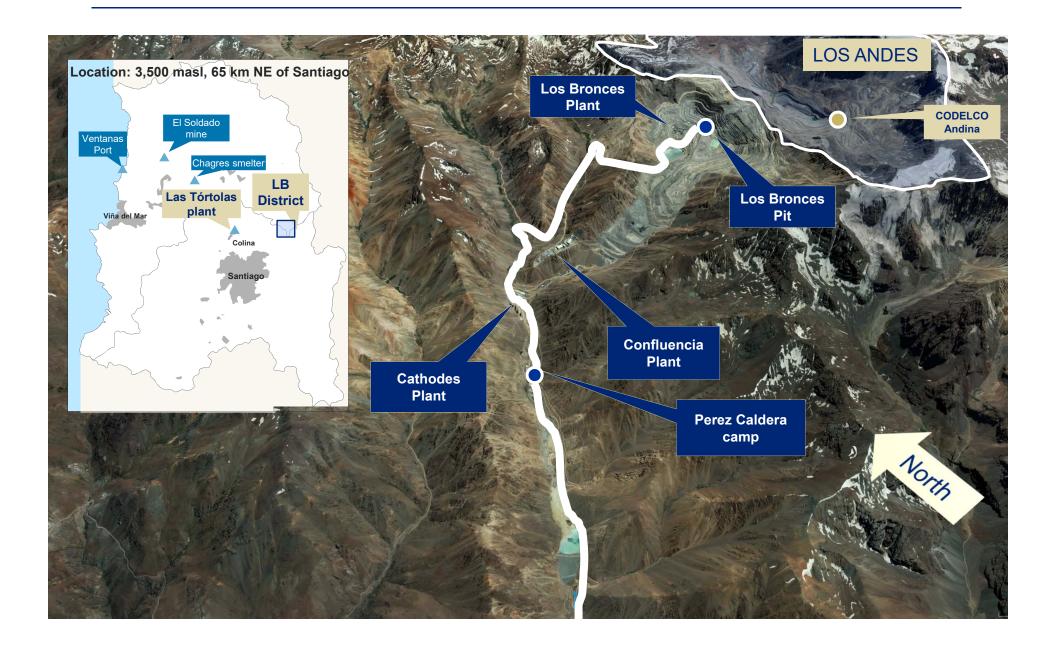
Throughout this presentation a range of financial and non-financial measures are used to assess our performance, including a number of financial measures that are not defined or specified under IFRS (International Financial Reporting Standards), which are termed 'Alternative Performance Measures' (APMs). Management uses these measures to monitor the Group's financial performance alongside IFRS measures to improve the comparability of information between reporting periods and business units. These APMs should be considered in addition to, and not as a substitute for, or as superior to, measures of financial performance, financial position or cash flows reported in accordance with IFRS. APMs are not uniformly defined by all companies, including those in the Group's industry. Accordingly, it may not be comparable with similarly titled measures and disclosures by other companies.



# LOS BRONCES: FACILITIES AND PROCESSES



## **MINE SITE OVERVIEW**



## WHAT YOU WILL SEE AND HEAR TODAY

Operational performance

**Growth optionalities** 

Sustainability

A transformed business

A world class asset with significant endowment optionality

At the heart of our business



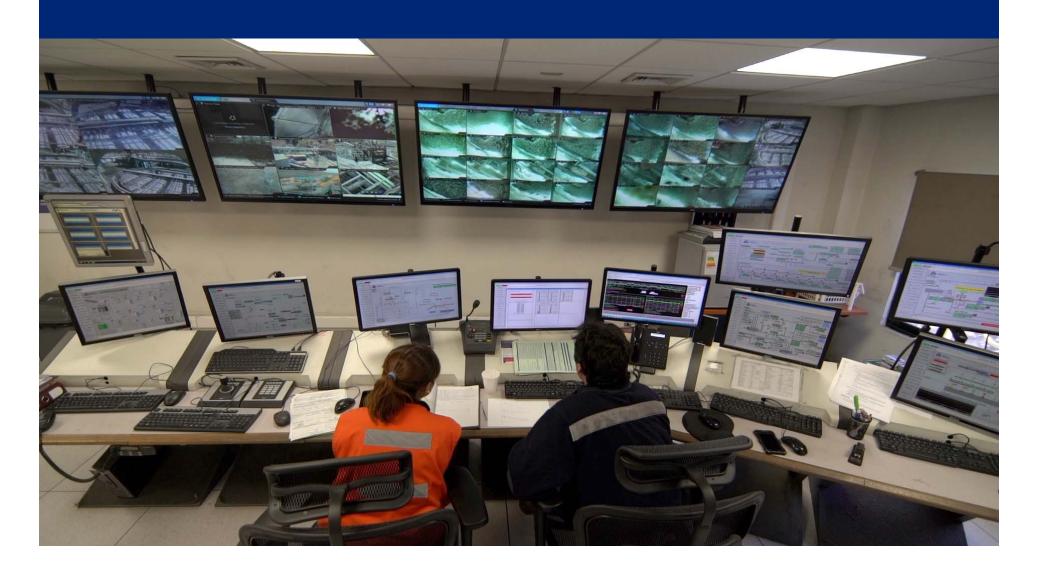




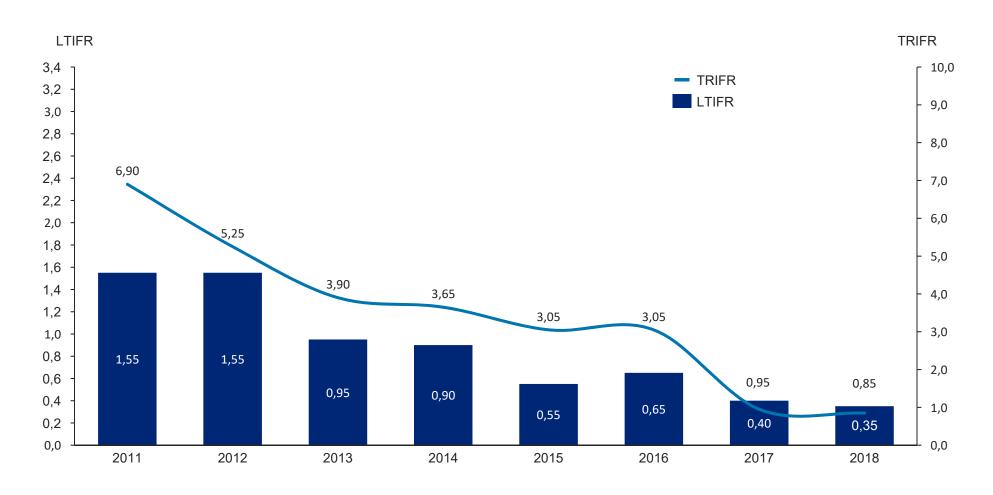
"World class assets and leading capabilities to deliver a world class business"



## OPERATIONAL PERFORMANCE: A TRANSFORMED BUSINESS



## **JOURNEY TO ZERO HARM**







### LOS BRONCES IN NUMBERS



**1,521** Employees

12 Shovels

Electrics Diesel Front Loader





232
Supervisors

9 Drills Electrics Diesel 2 7





2,303
Permanent contractors

69 Trucks KOM 930 KOM 960 CAT795 56 2



#### **Key performance metrics (2018)**

**TRIFR** 

0.85

Mine Movement

~144mt

Copper production

~370kt

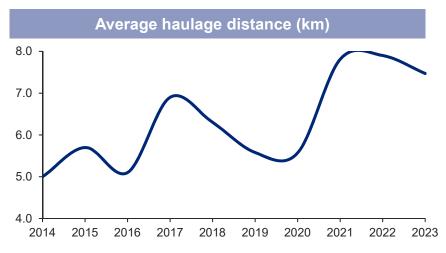
C1 Cost (H1 2019, c/lb)

~135



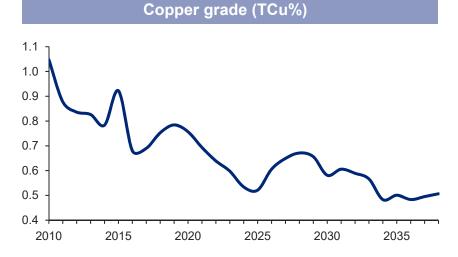
## LOS BRONCES IS FACING HEADWINDS

We are not immune from industry-wide supply challenges











# ...AND WE ARE FACING THIS CHALLENGE BY APPLYING A MANUFACTURING APPROACH TO MINING

Our Operating Model is based on three fundamental pillars

Apply a manufacturing approach to mining, through organised and efficient planning and execution of work

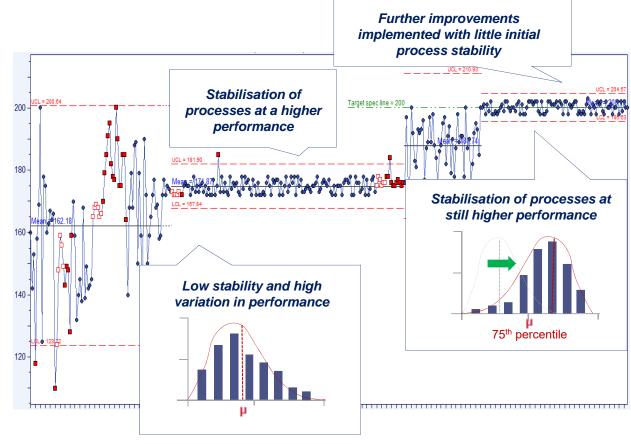
1. Provide Clarity



2. Produce Stability



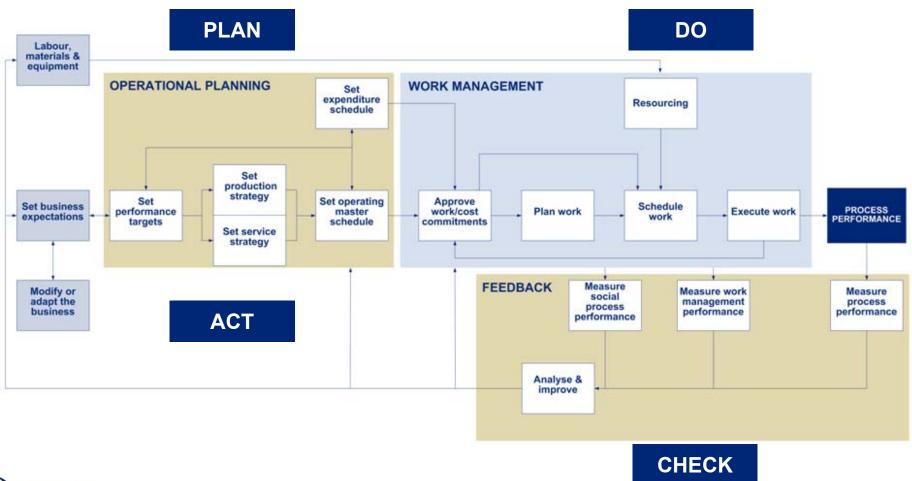
3. Reduce Variability





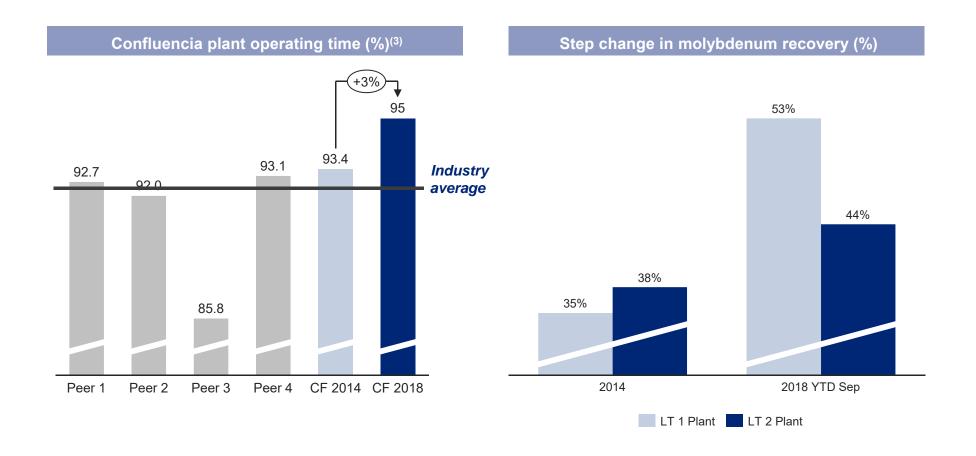
### **CONCEPTS OF OPERATING MODEL**

A structured way of working to convert targets into discrete pieces of work, which is well-planned and scheduled to achieve the desired outcome





## **CONTINUOUS IMPROVEMENT IN PLANT PERFORMANCE**

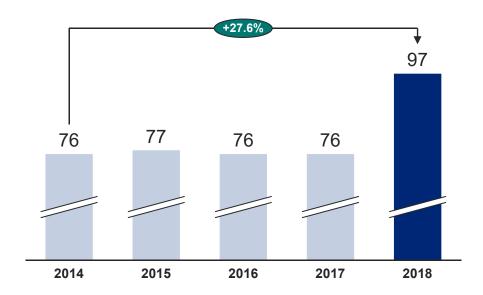


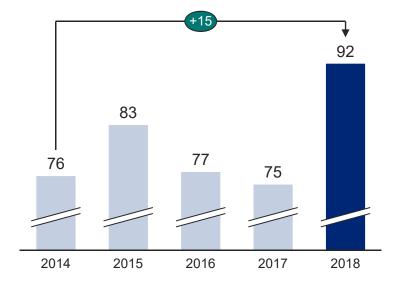


## A STEP CHANGE IN MINE PERFORMANCE

Reconciliation - % Area compliance vs Budget

Electric Shovels 73 yd3 Kton (Shovel 08, 10,11,12))







## WITH IMPROVED EQUIPMENT PRODUCTIVITY



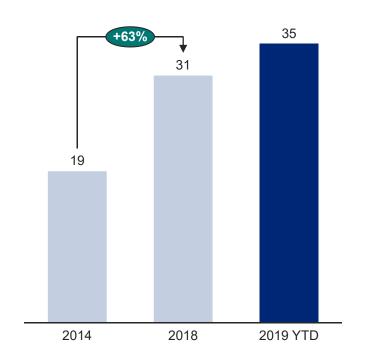
#### 2018

- Double side loading increased to 80%
- Best operator 80%
- Shovel passes per truck 3.5

#### **2019 Focus**

- · Shovel payload
- Time management
- Shovel passes per truck 3

### **Shovel # P101 Performance (Mt)**





## **GROWTH OPTIONALITIES**



### SIGNIFICANT GROWTH OPTIONALITY

**Production** (2018)

~370 ktpa

**C1 Cost** (H1 2019)

~\$1.35 / lb

Reserve life (2018)

30 years

Permits granted till 2036

Los Bronces Integrated Project

- Operational continuity of the pit + LBUG
- · Abundant high grade ore
- Environmental permit submitted in July 2019

### **Synergies with Andina**

- Reduced mine interference
- Increased extraction

## Coarse Particle Recovery + Bulk Ore Sorting

 Utilising technology to increase throughput from existing infrastructure reducing costs and water consumption

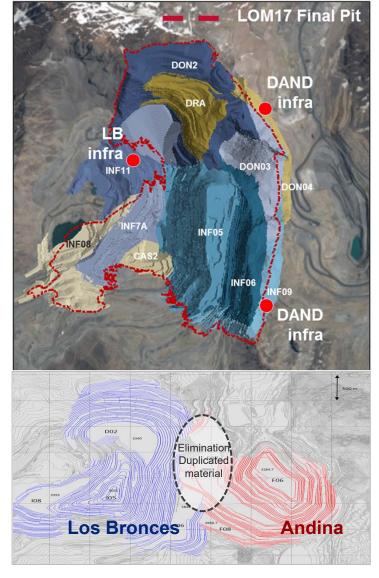
**Growth Optionalities** 



### LOS BRONCES - ANDINA INTERACTION

A constructive pathway for future developments and value generation

- Strong collaboration between two neighboring mines
- Operation Planning Framework for effective / efficient extraction is in place
- Will result in significant cost savings for both mines in time
- Pathway to potential wedge extraction agreed, with the timing to be principally beyond 2040

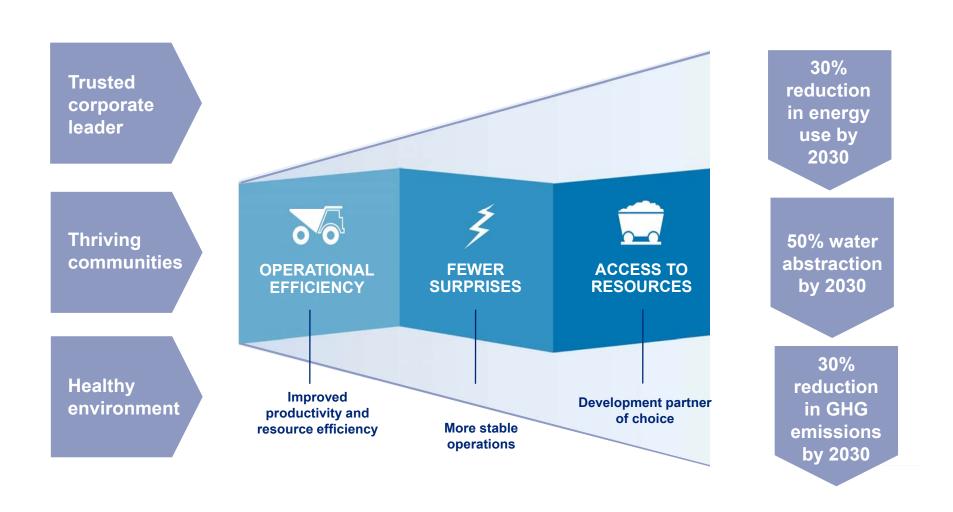




## SUSTAINABILITY



## SUSTAINABILITY IS AT THE HEART OF OUR BUSINESS





## SUSTAINABILITY AT LOS BRONCES

## World's first floating solar plant– Las Tórtolas Tailings Dam

256 photovoltaic panels, with 330 watts of capacity each, which together will generate 86 kilowatts per hour (kW), (150 thousand kWh / year)

Renewable Energy Sources Water Evaporation (~3.000 m3/year)



Electromobility Plan
Pilot: Bus 100% electric
- Light trucks

Reduction in greenhouse gases







### A FLEXIBLE APPROACH TO WATER SUSTAINABILITY

Recycling more

**Consuming less** 

Technology & Innovation

**75%** 

Water reuse by 2020, increasing to 100% by 2030

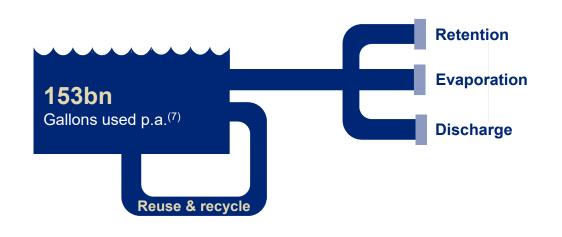


Fresh water abstraction by 2030<sup>(6)</sup>

**Coarse particle recovery** 

**Dry tailings** 

Tailings dam underdrainage





But recognising the need to selectively invest in a long-term solution



# WE WORK TO IMPROVE THE LIVES OF THE PEOPLE OF OUR COMPANY

SUCCESSFUL CONSTRUCTION AND IMPLEMENTATION OF NEW CAMP "PEREZ CALDERA"

Quality of work life

Fatigue control

Less exposure



- Efficiency and productivity in services
- Same standard own workers and contractors
- Energy efficiency, Environmental initiatives
- Optimize transport services, electromobility
- Better control of assets (CCTV cameras, security chips)



The new camp responds to the permanent challenge of our purpose: re-imagining mining to improve people's lives

Improving labour relations and collaboration with our people:

Anticipated collective negotiation (supervisors).





## STEP-CHANGE IN PERFORMANCE AND SUSTAINABILITY

# Operating Model

Stability and optimisation

### P101

Exceeding industry best-in-class Process & equipment performance



# FutureSmart Mining<sup>™</sup>

Game-changing technology; Sustainable Mining Plan; Digitalisation



**Incremental improvement** 

Step-change



## **CONTEXT FOR DELIVERY OF P101 AT OPERATIONS**

Reviewed all operational areas to determine the top operational levers by asset

Prioritisation based on the value of each opportunity

Identified the pathway to benchmark, approved by technical team and embedded in the plan

Exceeding industry best-in-class Process & equipment performance



## **GAME CHANGING FUTURESMART MINING TECHNOLOGIES**

Advanced Fragmentation

Shock-break

**Bulk ore sorting** 











= >50%

Reduction in energy intensity

Los Bronces 2017

2020

Pilot



## **COMMITTED TO OPERATIONAL EXCELLENCE**

- Significant progress on our journey to zero harm
- Operating Model implemented and delivering benefits
- A step change in performance
- Further performance improvements committed to increase competitive position
- A world leading endowment with significant growth options





## THANK YOU

