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As an industry standard, Codelco divides its mineral holdings into two categories, reserves and resources. Resources are ore bodies of economic value that have been identified and evaluated through exploration, reconnaissance and sampling. Reserves are the portion of the resource that can be extracted based on an economic, environmental and technological analysis set forth in the mining plan. Reserves and resources are both subdivided further, based on the degree of knowledge that Codelco has of their extent and composition. The system used by Codelco for categorizing mineral ore is according to the Chilean law (N° 20.235), which is in accordance with other systems widely used within the mining industry. The "Comisión Calificadora de Competencias en Recursos y Reservas Mineras" is the independent Chilean entity who regulates this and it is part of the Committee for Mineral Reserves International Reporting Standards (CRISCO).

The non-GAAP financial measures included in this presentation (including, without limitation, Adjusted EBITDA, cash cost, total costs and expenses and financial debt) are not GAAP measures of our liquidity and operating performance and should not be considered alternatives to cash flow from operating activities as a measure of liquidity or net income or operating income as measures of operating performance or any other measure derived in accordance with GAAP. The Company has prepared reconciliations of comparable GAAP to Non-GAAP measures in tables included at the end of this presentation.



**1** St copper producer worldwide (9%) 2018

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million tons copper production in 2019

1.7 A+/A3top rated mining company

20% of total Chilean exports since 1971 of global copper reserves 2018







# **Highlights 2019**



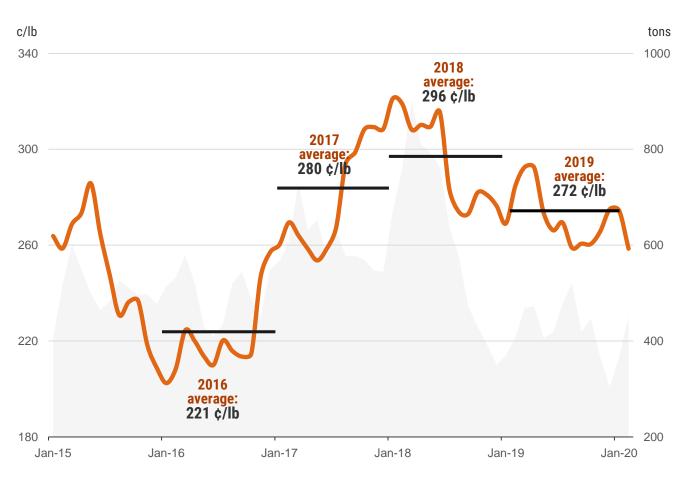
- Strong owner support. \$1B capital injection completed in Feb-2019
- Chuquicamata Underground ramp-up began on April 30<sup>th</sup>
- Production decreased to 1,706 kt in 2019 (-5.6% YoY)
- 9 collective bargaining agreements achieved in 2019
- Repeal of the Copper Reserve Law. 10% Specific Export Tax will gradually decline from 2029 to 2032
- Focus on core business. Divestment of 37% equity stake in GNLM for \$193.5m
- New CEO. Octavio Araneda, 33+ years in Codelco, became CEO in Sep-2019
- **Transformation plan.** In Nov-2019, Codelco released a plan with cost savings targets of \$1B+ in annual Opex and \$8B+ in Capex between 2019 and 2028



# Changing global growth expectations have created price volatility



## 2015-2020 copper price and stocks\*



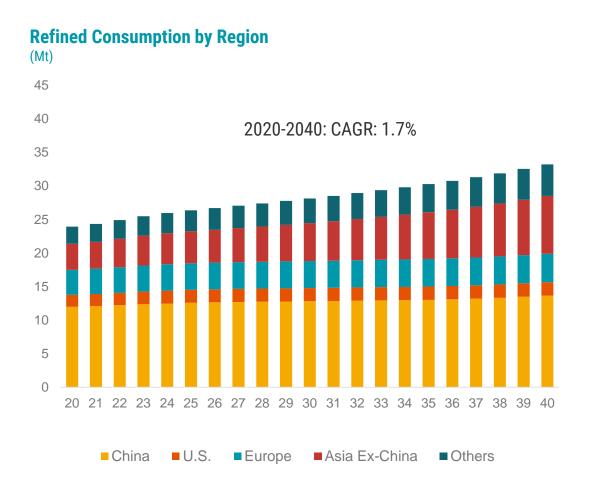
## **Short-term drivers**

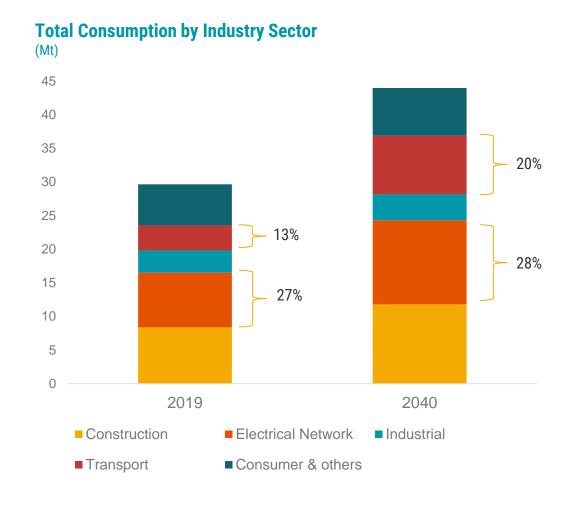
- Coronavirus impact on China's growth
- Trade war developments
- Policy and economy uncertainties in Europe, Asia and USA
- Real vs. expected production disruptions
- Low interest rate environment and Dollar strength
- Mixed sentiments driving financial investment decisions

<sup>\*</sup> Data until 2/17/2020; London Metal Exchange.

# Demand projections reflect stable long-term growth





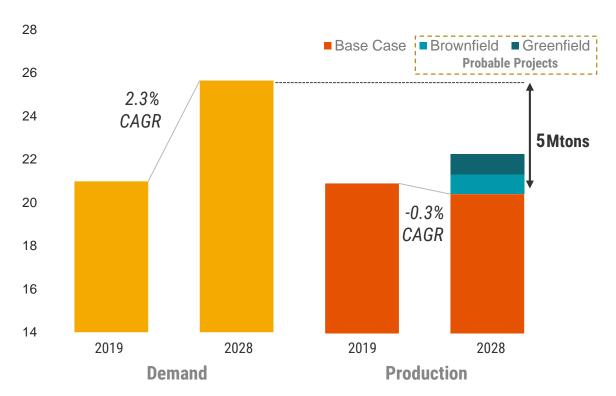


# Existing and probable projects would not be enough to meet demand



## Refined copper production and demand gap

(Mt)



- Projects will need to fill a 5 Mt demand gap, but there are few "probable" ones
- Even developing all "probable" projects, would not be sufficient to close the gap
- Despite the pipeline of "possible" projects, incentives should improve to encourage companies to develop them

Projects need to be developed now in order to close the gap

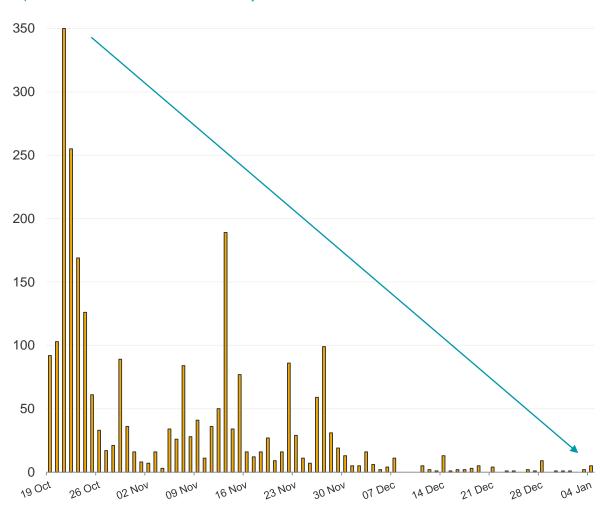


# Frequency, scope and intensity of events have declined



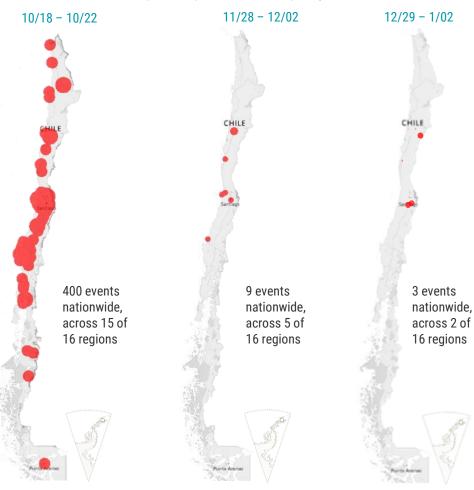
#### **Number of Severe Events in Chile\***

Reported between October 19th 2019 – January 4th 2020



#### **Reported Events Across the Country**

Cases of arson &/or looting, size of points reflects frequency

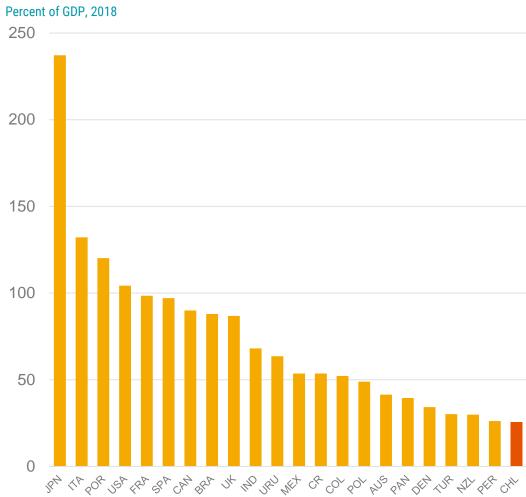


<sup>\*</sup> Defined as looting, arson, and/or destruction of property Source: Ministry of the Interior

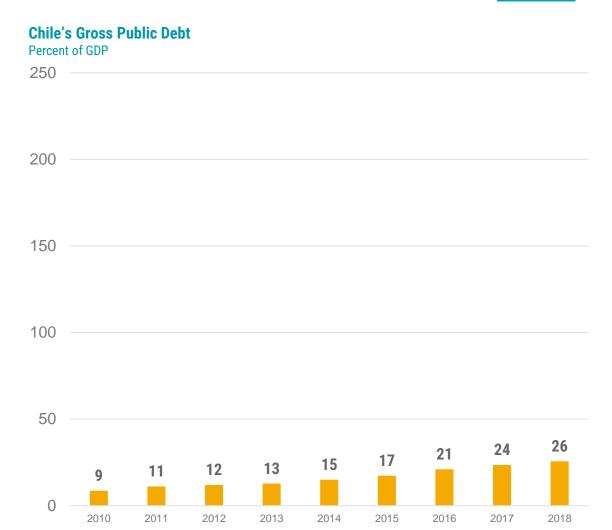
## Public debt is well below that of other countries



#### **Gross Public Debt for Selected Economies**



Source: IMF WEO October 2019



Source: Ministry of Finance and Budget Office

# Sovereign Wealth Funds provide an important buffer



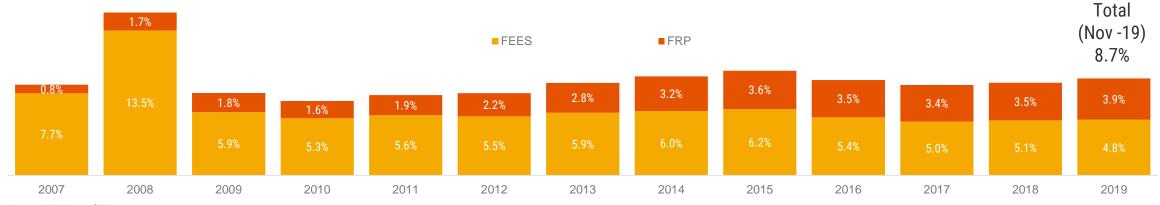
## **Economic and Social Stabilization Fund (FEES)**

- Established in 2007, the FEES is designed to complement the structural balance rule providing the government with financing needs throughout the cycle
- The FEES is invested primarily in highly liquid assets with low levels of credit risk

## **Pension Reserve Fund (FRP)**

- Created in 2006 to support state-financed pensions and old-age benefits over time
- New investment policy aims to obtain an annualized expected return in Chilean pesos of at least 2% above inflation in a ten-year horizon with at least a 60% probability

## **Sovereign Wealth Funds** (Total Assets as a Percent of GDP)



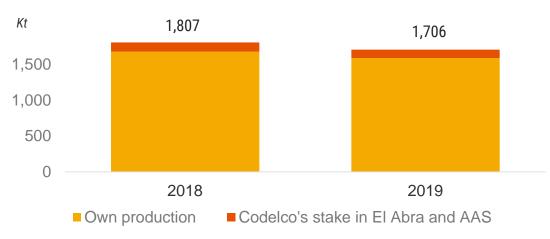
Source: Ministry of Finance



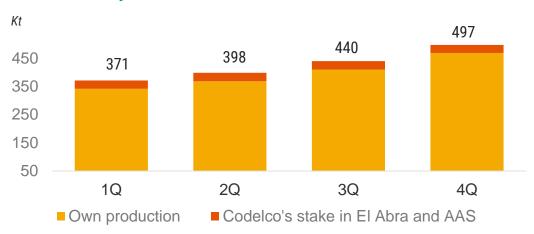
## Weak first semester explains the production decline in 2019



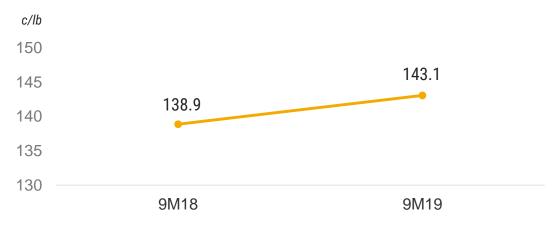
## **Full-year Copper Production**



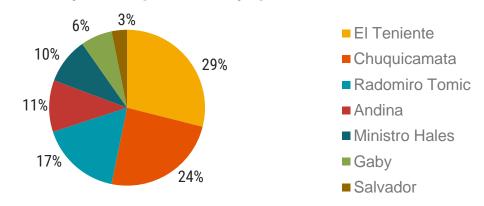
## **2019 Quarterly Production**



### **First-nine months C1 Cash Cost**



## 2019 Full-year own production by operation

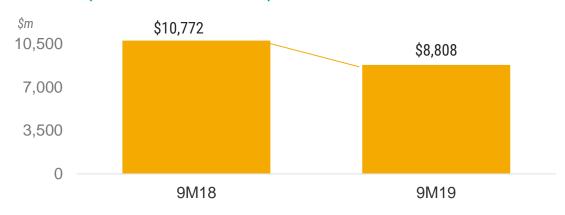


# Financial results as of September 2019

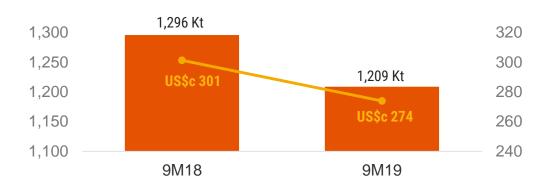


Production and prices impacted financial results in the first nine months of 2019

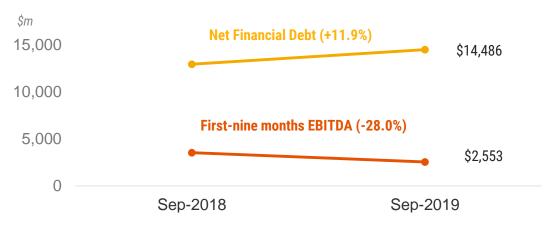
## **Revenues (First-nine months 2019)**



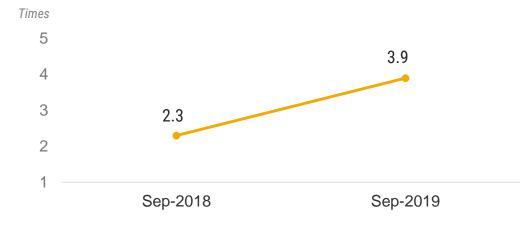
## **Production & Avg. LME Copper Price (First-nine months 2019)**



### First-nine months 2019 EBITDA & Net Financial Debt



### **Net Financial Debt-to-EBITDA ratio**

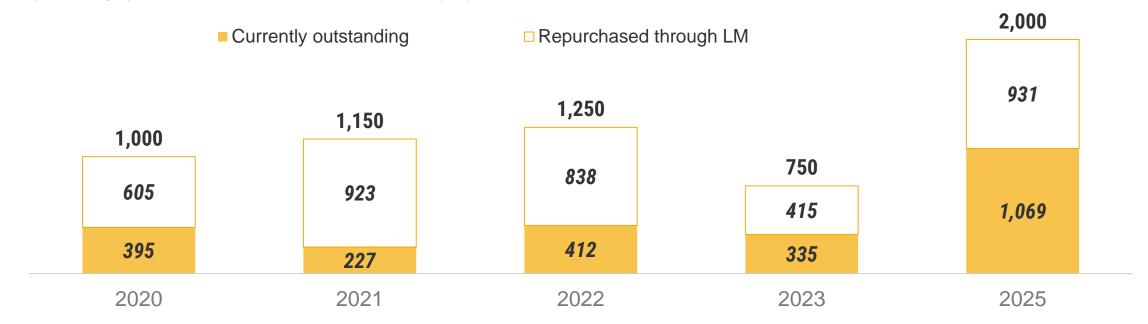


# **Executed liability management (LM) of bonds to optimize our debt**



- Four successful debt capital market transactions in the last two years that raised \$5.9B (144A-Reg S & Formosa)
- Repurchased \$4.05B of higher coupon short-term bonds since 2017
- Achieved low yields in recent issuances at 3.18% (10y) and 3.96% (30y)

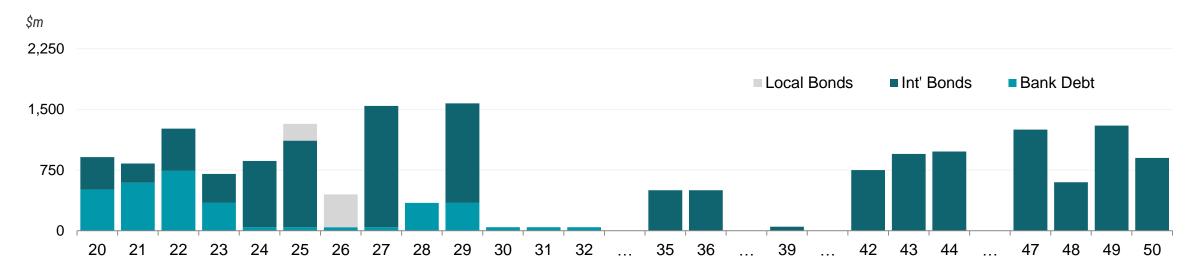
## Bonds (114A-Reg S) with maturities between 2020 and 2025 (\$m)



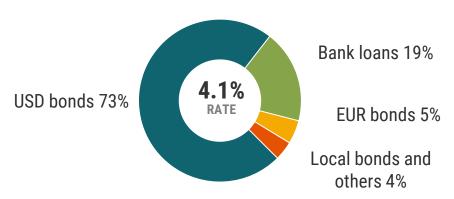
# LMs and new issuances have lengthen our average debt maturity



This strategy is consistent with the currently intensive investment period



## **Sources of funding (\$17.5B)**



## **Planned next steps**

- Keep diversifying sources of funding by accessing new markets and investors
- Maintain an active management of debt maturity profile
- Divestment of non-core assets (GNLM \$193.5m)

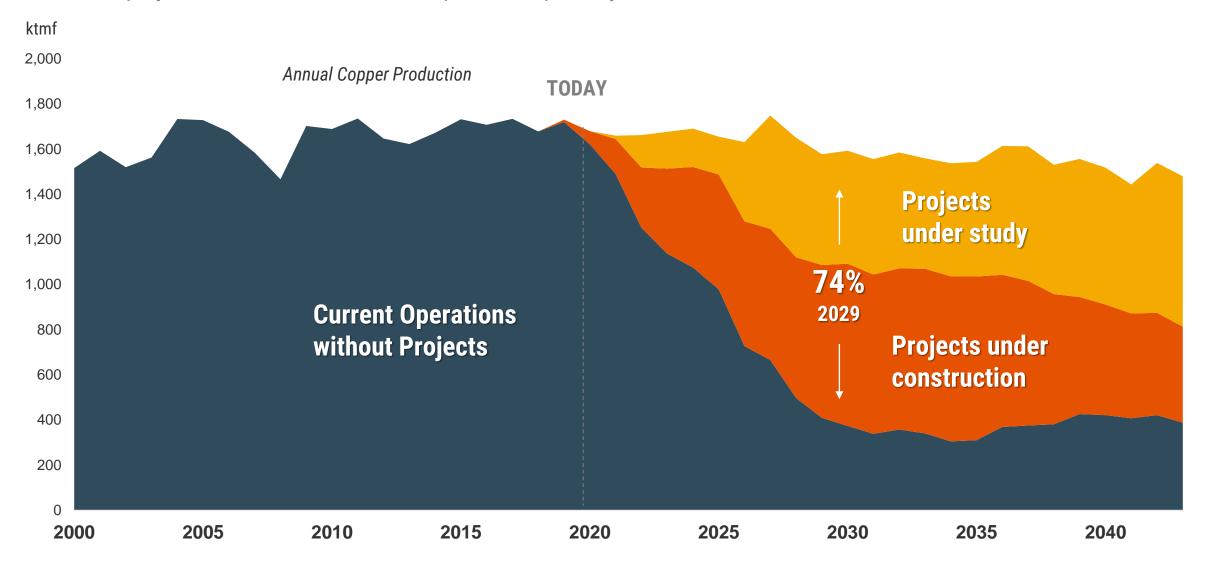
<sup>&</sup>lt;sup>1</sup> As of Sep 30, 2019, includes bank debt and bonds



# Codelco's investment program is key to maintain current production



Structural projects account for 3/4 of the expected output 10 years from now



# Structural projects lengthen the life of mine of our operations



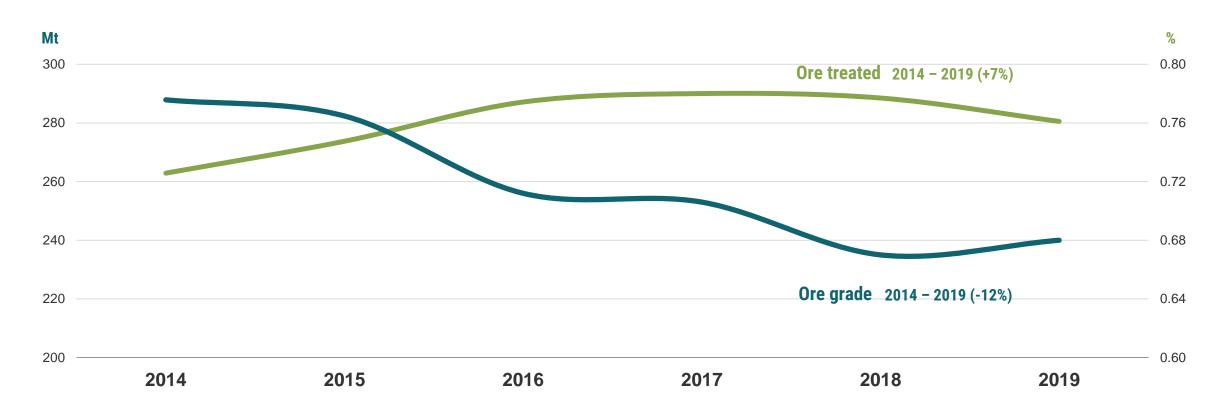
Construction and start-up periods

Projec	t	2019 - 2023   2024 - 20	028   2029 - 2033   2034 - 2038   20	039 - 2043 Life of mine
chuquicamata Inderground Mine	(97% Progress)	387 ktCuf / year	315 ktCuf / year	2057
I <b>ndina</b> Mine-Plant Transfer System	(83% Progress)	200 ktCuf / year	201 ktCuf / year	2059
I Teniente lew Mine Level	(54% Progress)	397 ktCuf / year	410 ktCuf / year	2072
alvador aca Open Pit		50 ktCuf / year	86 ktCuf / year	2064
adomiro Tomic ulfides II		334 ktCuf / year	257 ktCuf / year	2065
<b>ndina</b> uture Development (Expansio	on)		149 ktCuf / year	2046

# The increase in productivity has compensated lower ore grades



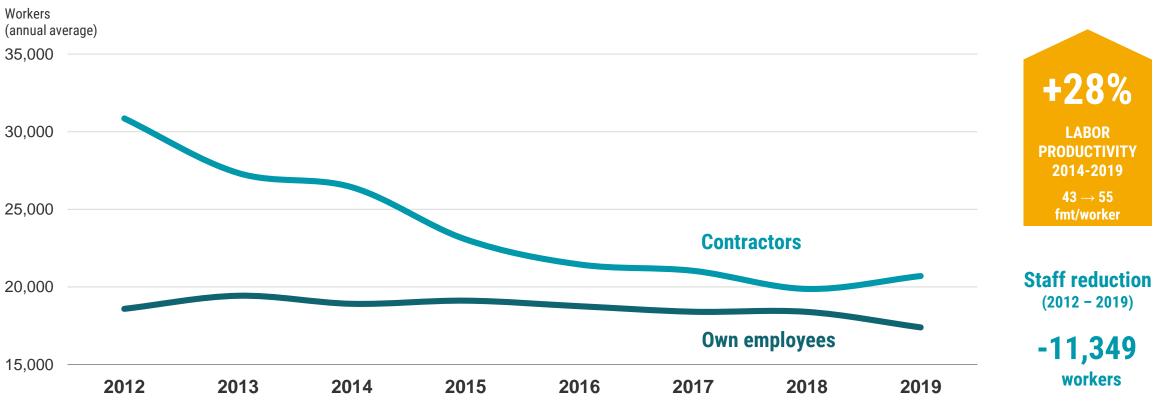
## **Ore grade vs. Ore treated**



# We successfully increased productivity in the past few years



## **Operational Staff**

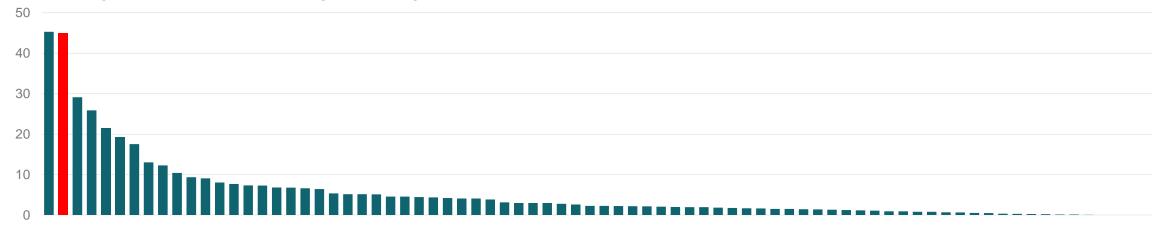




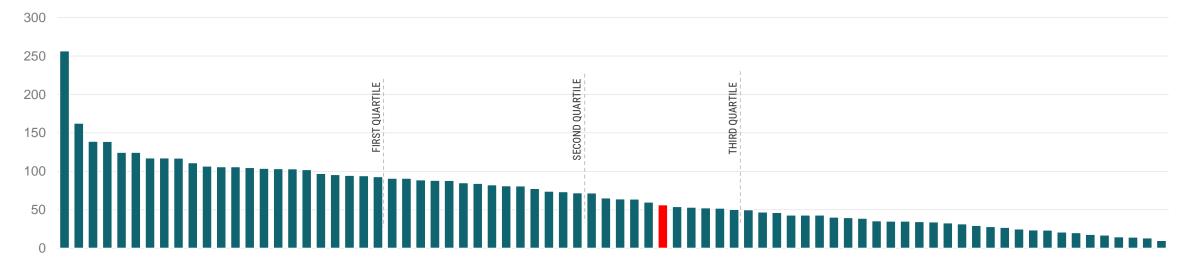
# Still room for improvement to maximize value of our reserves



Proved and probable ore reserves of comparable companies (Million of metric tons of fine copper)



**Labor productivity** (Annual production / Own and third-party employees in mining operations)



Note: Sample of comparable companies only includes those for which copper is the main product and annual production above 50,000 tones of fine copper

## We designed a transformation plan that unlocks value of our reserves



**Annual Opex Savings** 

**\$ 1,000 million** 

on an ongoing basis starting in 2021, with \$ 400 million in 2020



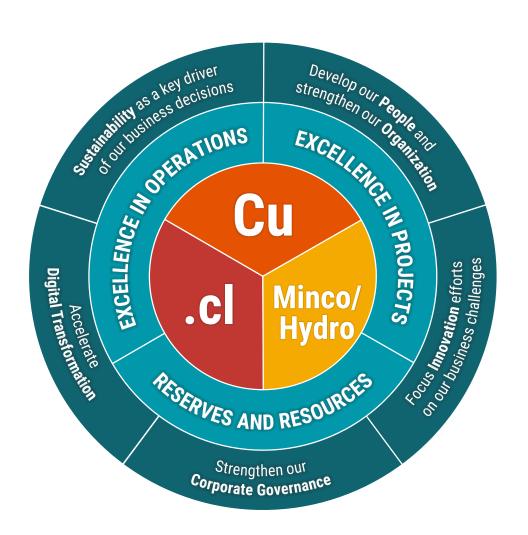
\$ 8,000 million

equivalent to 20% of the Capex plan of the 10-year period

The plan targets to position Codelco in the second quartile of the global cash cost curve and optimize the development of our structural projects

# Our strategy defines the priorities around a clear focus





## Focus on copper mining business in Chile

- Excellence in developing and operating our reserves and resources
- Sustainability is a key driver of our business decisions
- Emphasis on Innovation and accelerate Digital Transformation

# Sustainability is a key driver in our decisions



# Responsible to our people and territories



## **Responsible Sourcing**

- ISO 14,001 (environment) and OHSAS 18,001 (safety) certification by 2021
- Follow OCDE Guidelines (human rights)



## People

 100% workplaces certification on Gender equality and work life balance



#### **Communities & Territories**

- Developed community agreements for \$3.6m in 2019
- Implemented social programs with focus in scholarships and talent development for \$2.5m in 2019

# Risk management and climate change adaption



### **Water Efficiency**

- 77% total water recirculation in 2018
- 10% reduction of freshwater consumption by 2020
- Increase scope of Desalination Plant Project



#### **Decarbonization**

- 16,8% annual decline of GHG emissions in 2018
- · New PPA for 200MW based on renewable sources
- \$2B+ invested for improving smelters captures



#### **Tailing Dams**

- Corporate governance integrating highest industry standards
- Implemented third-party independent assessments
- Recirculation plan for all tailing dams

# Sustainable development and innovation



#### **Automation**

- Semi-autonomous LHD equipment at El Teniente
- Autonomous CAEX equipment at Gabriela Mistral



## **Electromobility – El Teniente**

- Tender process for bus service with a minimum of 20% of electromobility
- Transformation plan for diesel mini buses to convert them into electric ones
- Electric pick-up pilot test
- 15 ton electric LHD equipment

## TRACEABILITY

# **Summary**



- We believe in copper as a key element for industrial, technological and human development in the world
- 2. Therefore, Codelco's Structural Projects **competitively contribute to the supply of copper** in the short, medium and long-term
- 3. The projects are well on track, with Chuquicamata Underground under operation, as planned
- 4. The **Transformation plan** ensures Codelco's competitiveness
- 5. Flexible and strong balance sheet focus
- 6. Committed to producing with higher standards





# CODELCO

