



Consejo Minero is the trade association that brings together the large scale mining companies operating in Chile. Its main objective is promoting the competitive and sustainable development of chilean mining.

We present **Mining in Numbers**, a book that shows the main figures of the mining industry in Chile in a different, simple and entertaining way.

Find updated figures and learn more about mining in Chile on our website: www.consejominero.cl

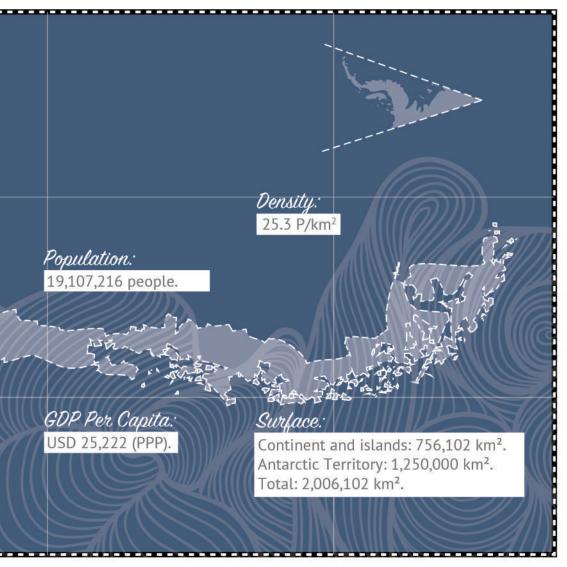










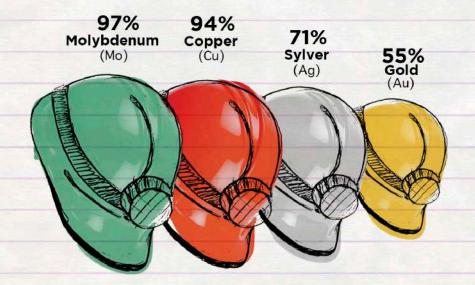


Large-scale mining takes place in 7 regions.





Participation of large companies in the Chilean mining production:



CHILE IS A LEADER



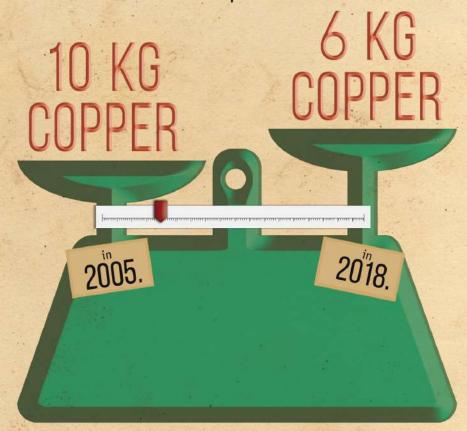
1.1%



COPPER PRODUCTION IN CHILE:

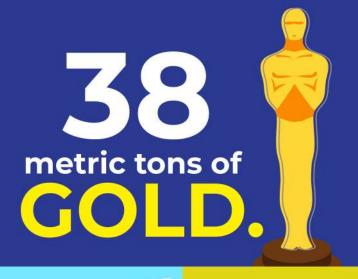


Copper extracted per ton of rock processed:



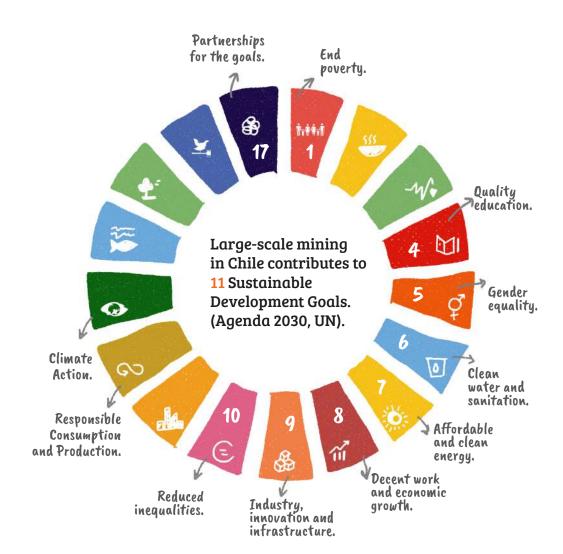


5. 8 million metric tons copper.









LARGE-SCALE MINING HAS



ON CLIMATE CHANGE, INCLUDING:



Support global commitments that avoid global temperature increases

above the levels recommended by science.



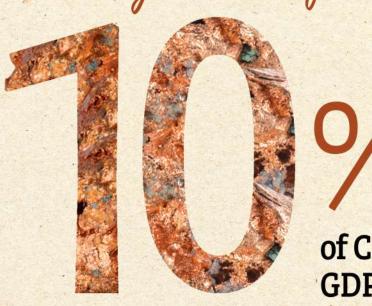
Disseminate the contribution of mining to the reduction of emissions, by producing metals that allow to generate, transmit and store electricity more efficiently.

Incorporate the need to adapt to climate change in the design and operation of mine sites.



Promote the use of renewable resources and other low-emission technologies for electricity generation.

Mining accounts for



of Chile's GDP.

It contributes

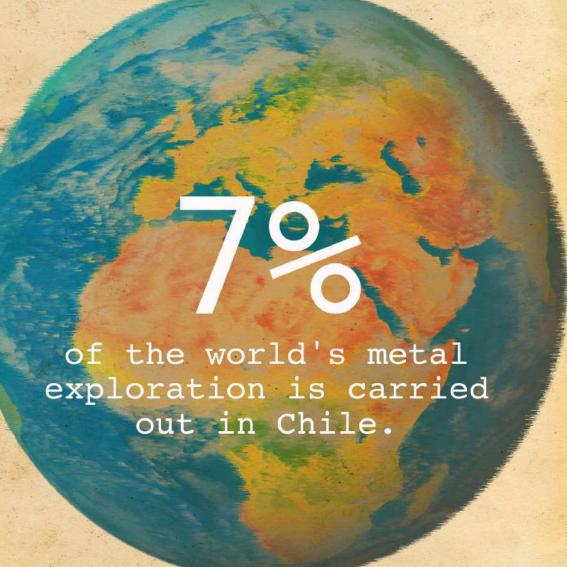
54%

of the GDP of the Region of Antofagasta.



90%OF MINING INDUSTRY REVENUE GOES TO:







Chile is the country that invests the most in mining exploration by land area:



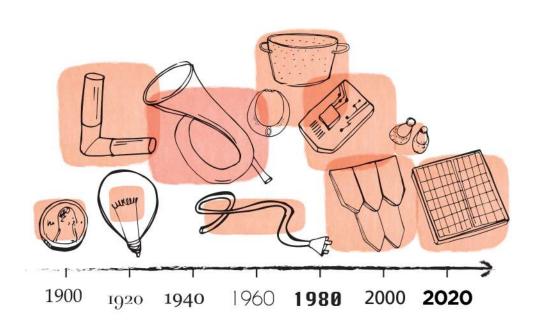
Chiral is the biggest consumer of:

52%



31%





2/3 OF THE 550 MILLION METRIC TONS OF COPPER PRODUCED SINCE 1900 ARE STILL IN PRODUCTIVE USE.

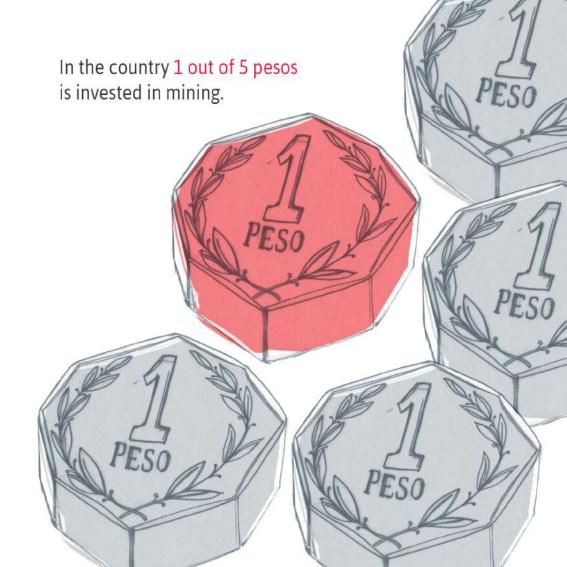
Mining generates

97%
of exports

lquique

Region Tarapacá.



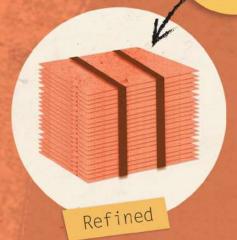


a big challenge

IF ALL MINING PROJECTS IN THE PIPELINE ARE IMPLEMENTED, THE ANNUAL PRODUCTION OF COPPER IN CHILE COULD INCREASE FROM 5.8 MILLION METRIC TONS IN 2019 TO MORE THAN 8 MILLION METRIC TONS AS OF 2026.

Chile exports copper in two ways





mostly cathodes, which have a purity of 99.99% copper.



has a purity of 30% copper.

Mining products represent over

520/0

of exports.

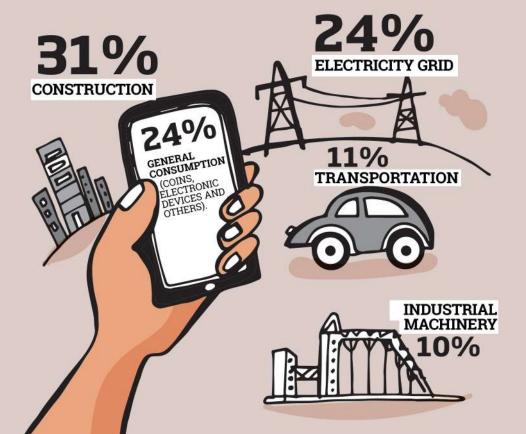


The discovery of Chañarcillo in 1832 produced an explosive growth in silver production.

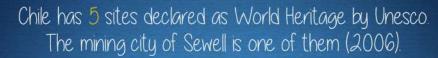


chile, year 2005 HStablishes A. Specific Tex Over Mining Activity To this day, USD 7,000 million has already been Chilean Law "Royalty". raised.

Uses of copper worldwide







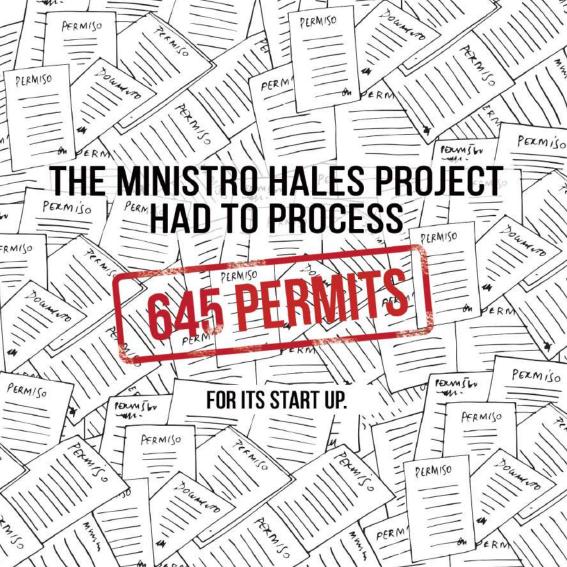




THAT COMES FROM "AURUM", A LATIN WORD
THAT MEANS "BRIGHT SUNRISE".

The development of a new mining project can easily take:





lauge-scale MINE PROJECT HAS AN awerage lifespan of 20 years and produces 100,000 metric tons annually.



most important copper mines in the world are in Chile (Escondida, Collahuasi, El Teniente, Pelambres, Radomiro Tomic and Los Bronces).



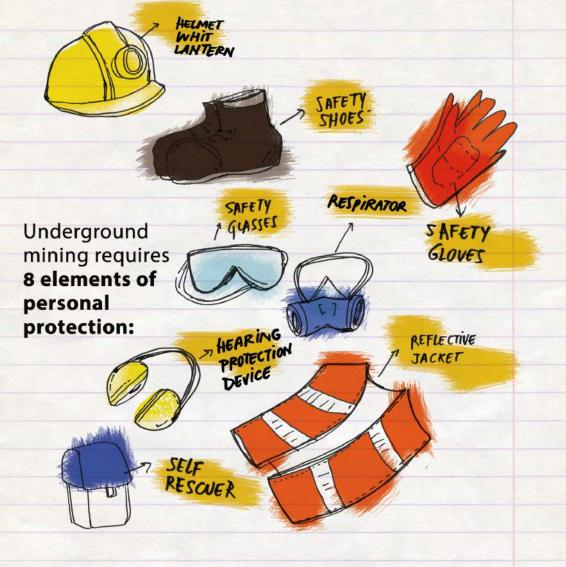
Salaries in the mining sector are 70% higher than the country average.





MINING MAKES A DIRECT CONTRIBUTION OF 3% TO THE COUNTRY'S EMPLOYMENT.

BUT IT IS ESTIMATED THAT 2.55 INDIRECT JOBS ARE GENERATED FOR EACH DIRECT JOB. TOTAL EMPLOYMENT IN MINING REACHES 9%.



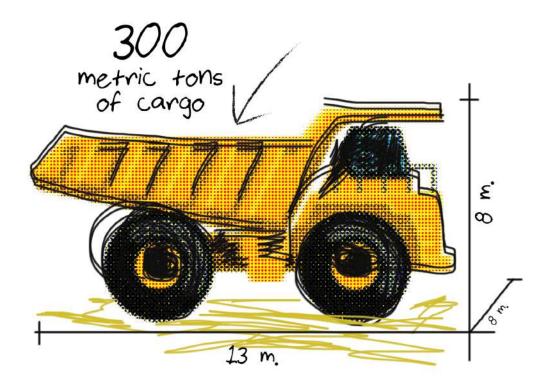


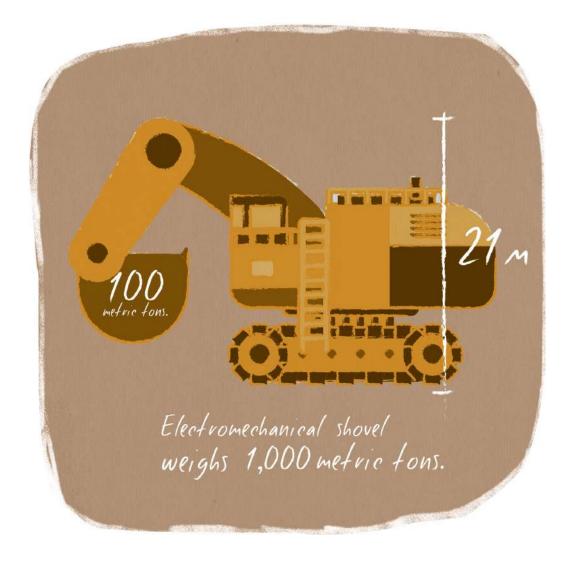
mining has the lowest accident rate per economic sector in the country.

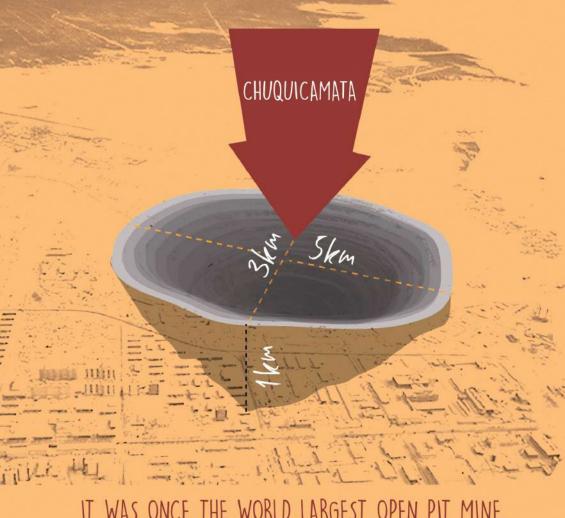
1.1% v/s 3.1% (country average).





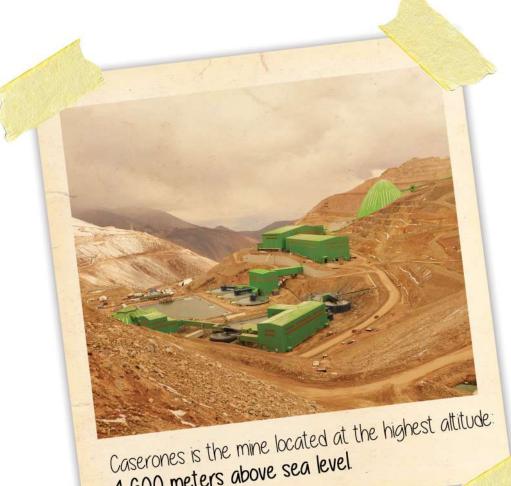




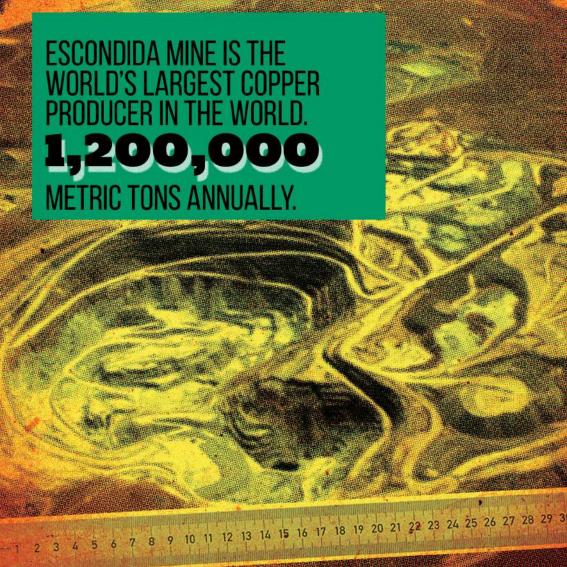


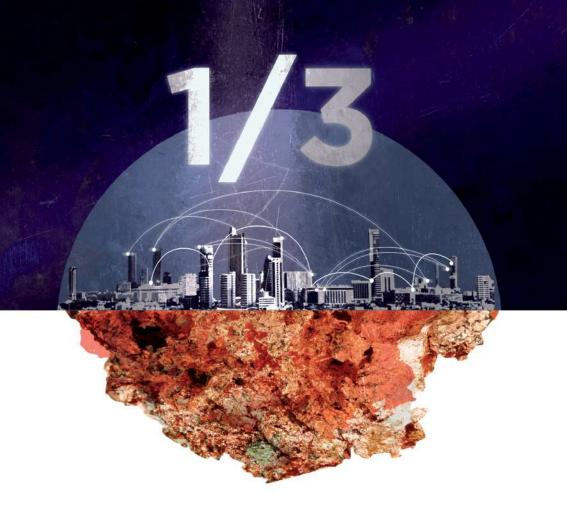
IT WAS ONCE THE WORLD LARGEST OPEN PIT MINE.





4,600 meters above sea level

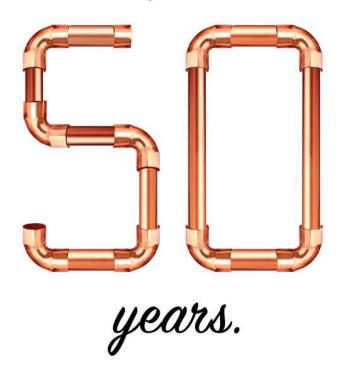


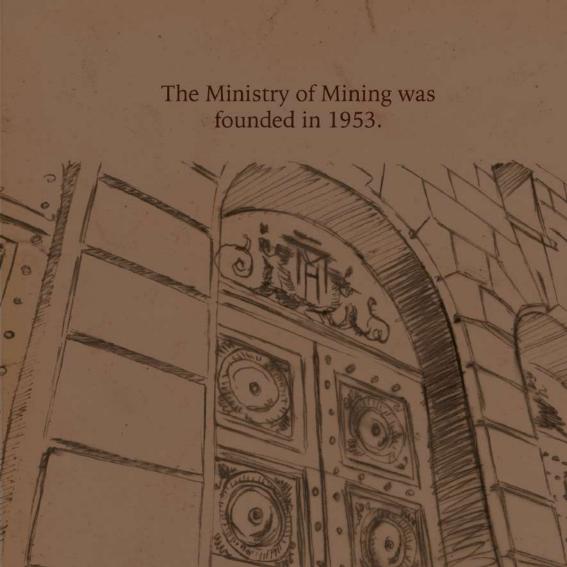


of the copper in the world has already been processed.



Copper pipes in buildings can last







San Lorenzo, patron saint of mining, is celebrated on August 10th.

/ Automation

Teleoperation

Within the next 7 years, it is expected that 100% of large mining operations will incorporate these technologies, especially in new operations and projects.



Source: Chilean Large-scale Mining Workforce Report (2019-2028).





UNION WORKERS: OVER 70

Mining companies in Chile have a total tax burden of 44.5%, the second highest lanada among reference countries.











More than

800

mining supplier companies operate in the regions of Tarapacá, Antofagasta, Atacama and Coquimbo.





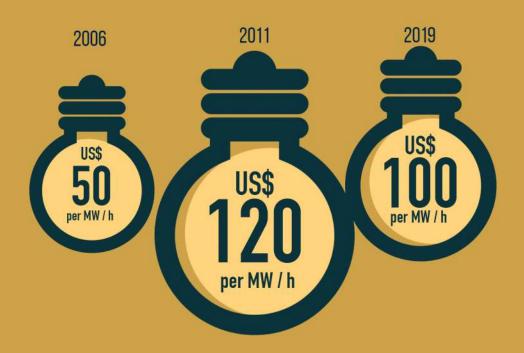


COPPER 15 A RECYCLABLE MINERAL 23.

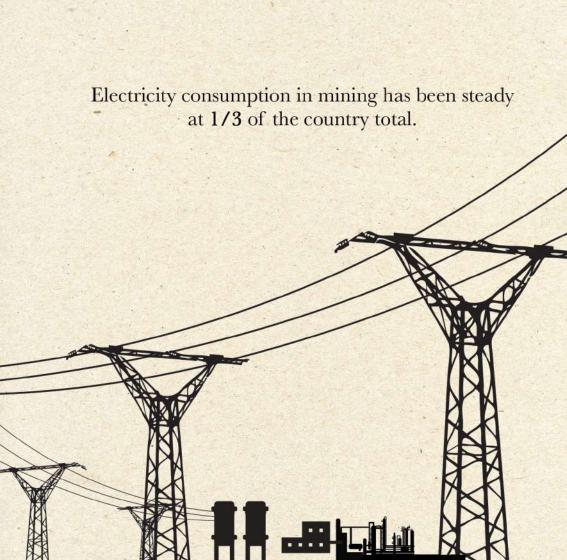


million
METRIC TONS OF
Copyles
are recycled
per year

(35% of the global demand for copper is from recycled material).



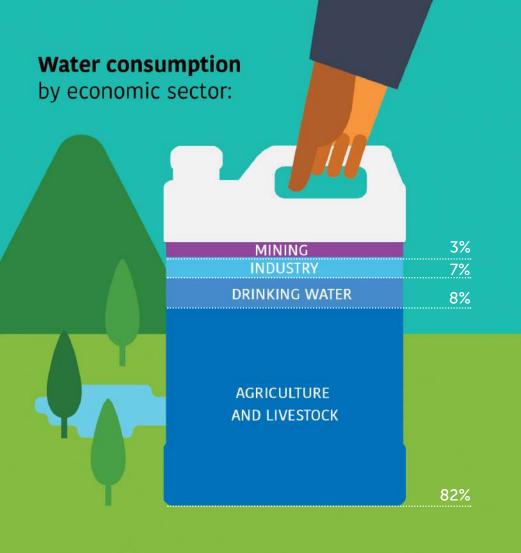
Electrical energy cost for mining.



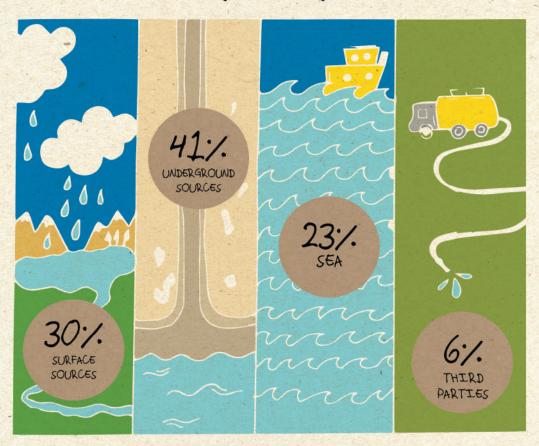
ALOPPER CONDICTS EVECTRICITY CFFCTIVENIER

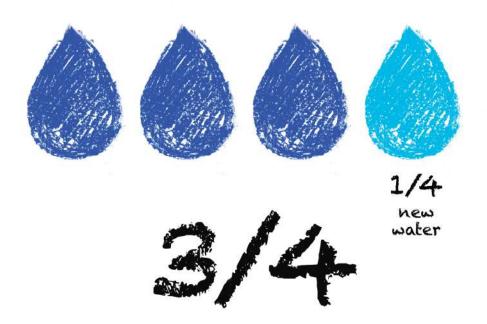


Copper carries up to 8 times more heat than other materials.

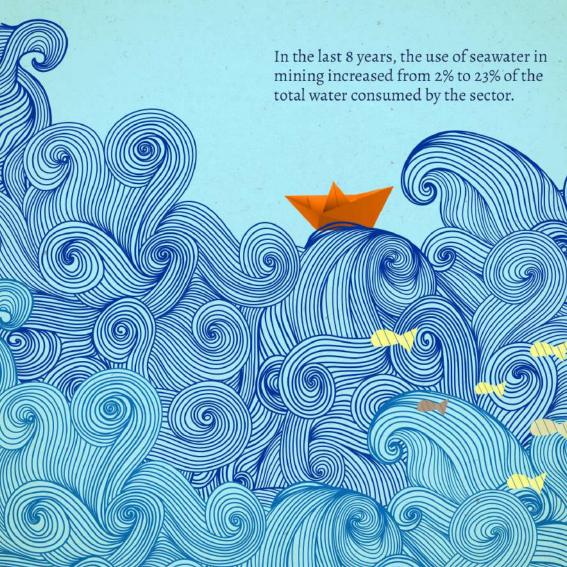


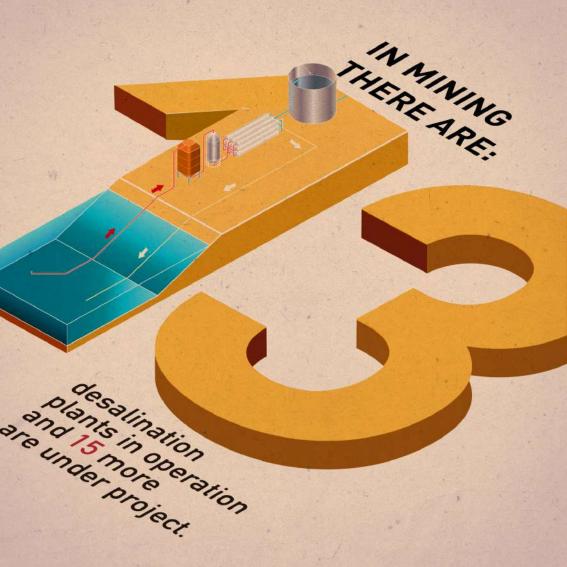
The water supply of mining comes from:

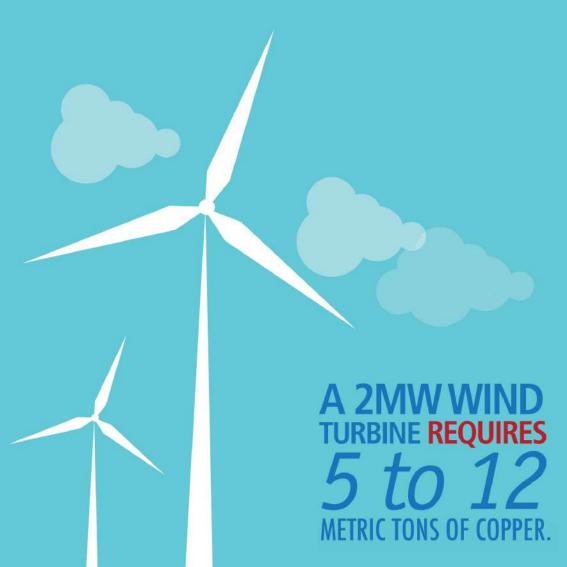


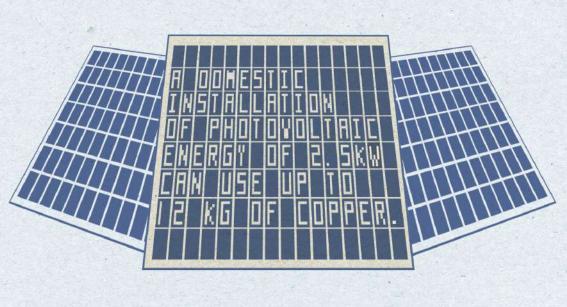


OF THE WATER USED IN MINING PROCESSES IS RECIRCULATED WATER.

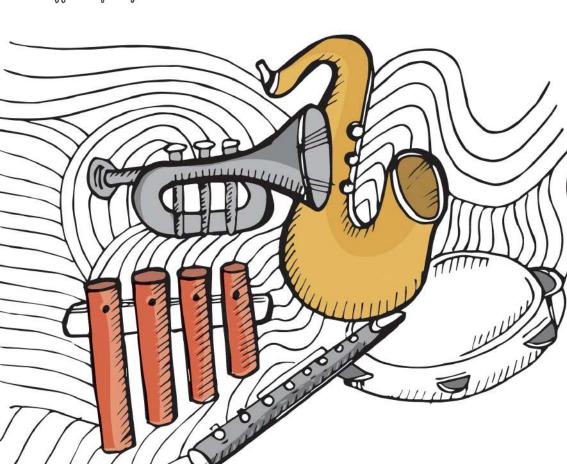


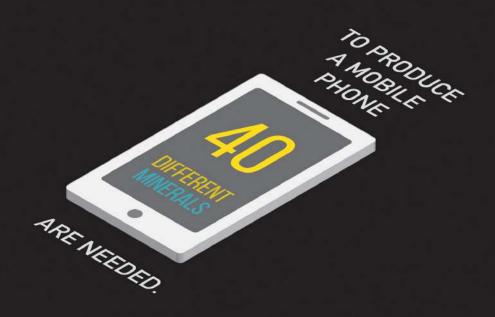


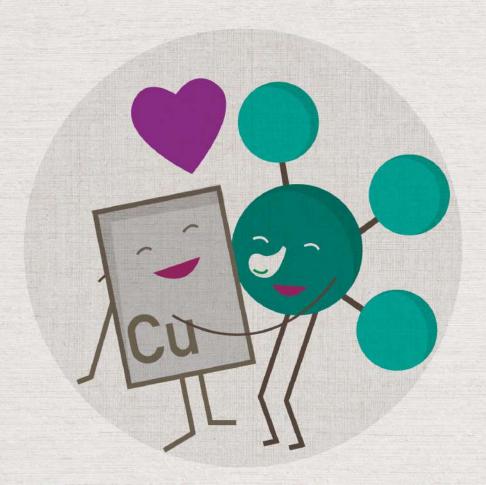




Most of the 80 instruments that make up a symphony orchestra use copper, brass and bronze as raw material to be elaborated, offering a great musical resonance.







There are at least 12 enzymes that need copper to perform their functions in the human body.

According to a study by the New England Journal of Medicine, the time that Coronavirus survives on different surfaces is:





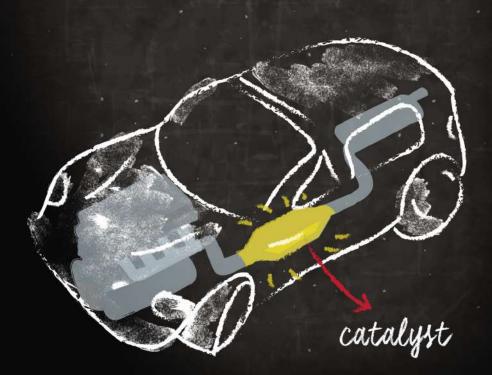
Being antimicrobial, copper manages to reduce hospital infections by up to **58%.**



In Chile 3 hospitals have incorporated copper in their facilities to reduce infections.



The use of gold in catalytic converters helps reduce polluting emissions by 30%.



How much copper do we find in:

4.5 metric tons.

2% of the total of a Boeing

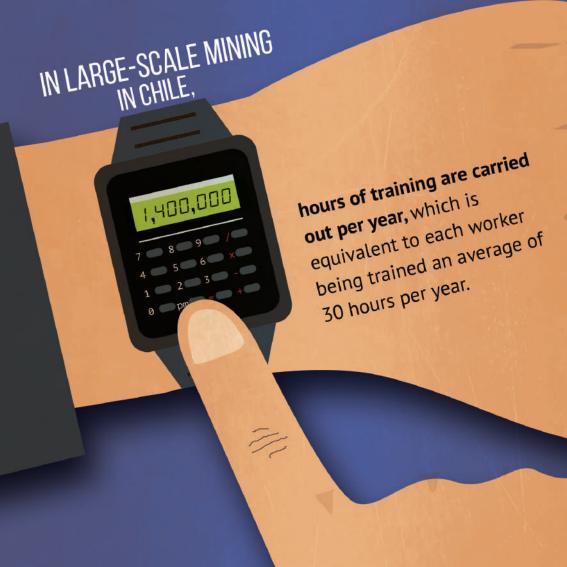
20 metric tons.

CONVENTIONAL & 23 AUTOMOBILE KILOS OF COPPER

HYBRID & 4 COPPER AUTOMOBILE CHILE

ELECTRIC *83
AUTOMOBILE *KILOS OF COPPER

CHILE







IS CONTAINED IN AN OLYMPIC MEDAL.



The figures in this book were obtained from the most recent information available at the time of its edition (February 2020). In cases where we considered that the most recent figure was not representative of the reality of the industry, the average of the last five available periods was used.



Which are part of the following 14 mining groups:



























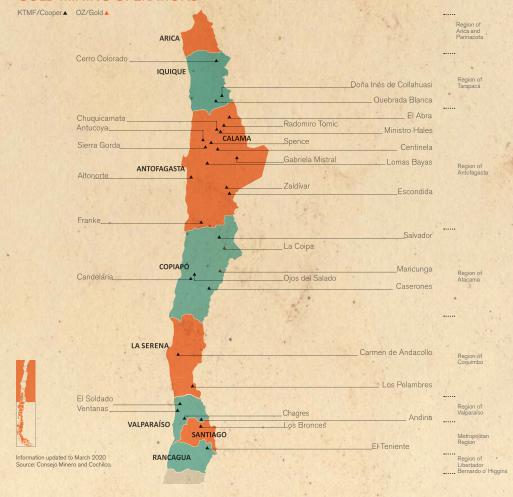


MAP OF LARGE-SCALE MINING IN CHILE



Information to March 2020 Source: Consejo Minero.

LOCATION OF COPPER AND GOLD MINING OPERATIONS



© Consejo Minero

Edition: Christel Lindhorst & María Paz Baghetti.

Illustration and design: Cotee Santibáñez coteesantibanez@qmail.com

Figures compiled from various sources.

All rights reserved.

Reproduction and distribution are permitted by reference to the source.

ISBN 978-956-8185-02-2

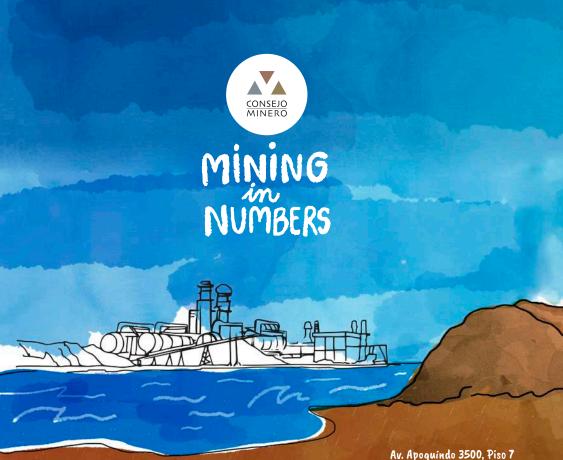
Edition closing date: March 2020.

Acknowledgments to: Imagen de Chile, an expert institution in the management of the country brand.

Impression by Ograma.







Av. Apoquindo 3500, Piso 7 Las Condes / Santiago - Chile Phone: (56-2) 2347 2200 www.consejominero.cl