



0.93 0.94

● ⑤ Taiwan (China)

Netherlands

● ⑥ Thailand

Malaysia

⑤ Indonesia

© 6 Spain

COPPER SUPPLY:

RISK FOR THE FUTURE?

DECLINING GRADES

EXPENSIVE MINING

◆ ⑦ Canada

Mongolia

(a) United States

S Australia

8 Peru

1.2

1.0

0.8

© Netherlands

South Korea

● ⑤ Germany

⊚ 6 Bulgaria

⑦ India

9 Zambia

(Finland)

copper production

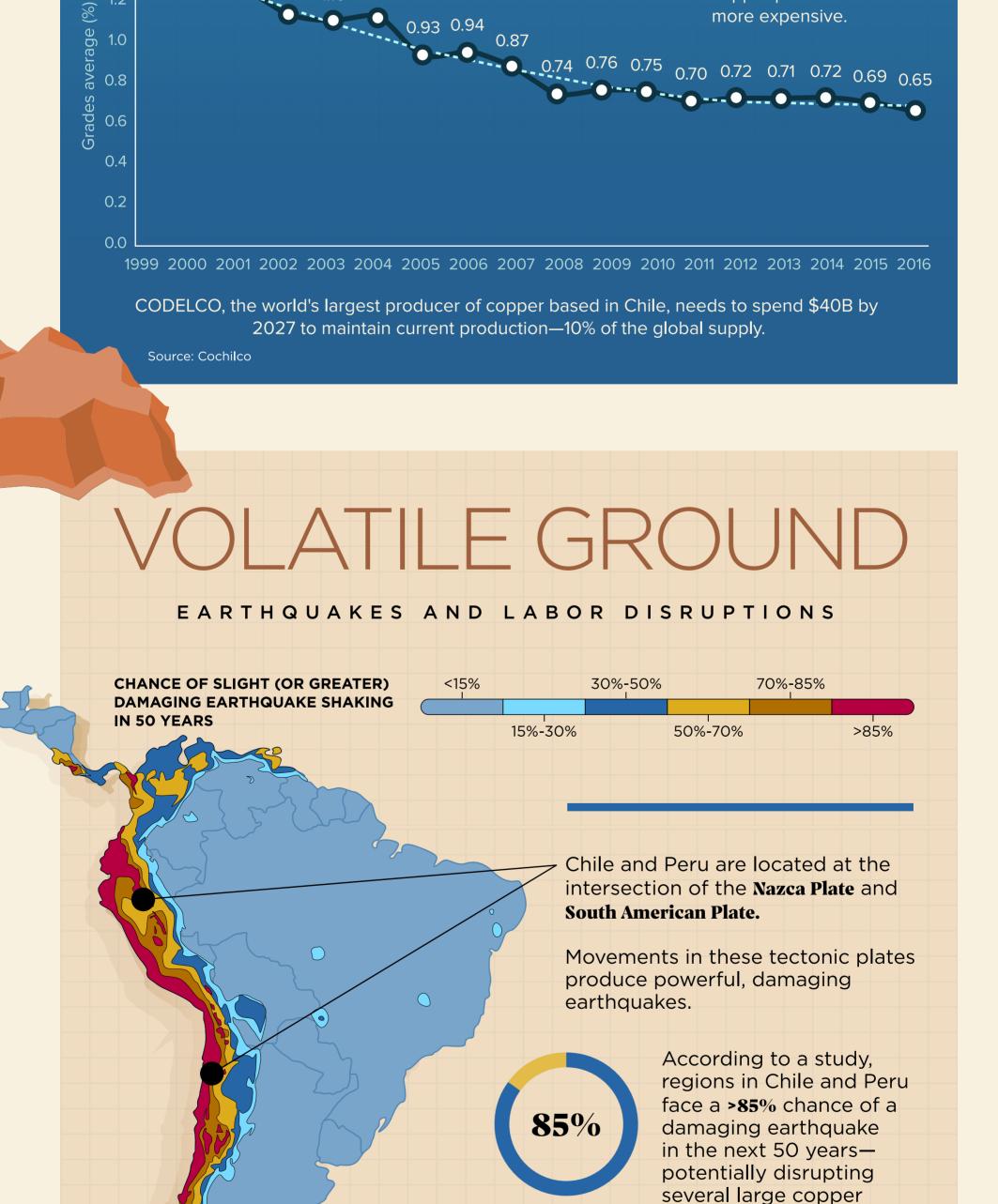
more expensive.

mining operations.

Source: Schnebele et al., Natural hazards and mineral commodity supply: Quantifying risk of earthquake disruption to South American copper

supply, Resources Policy, Vol. 63, 2019.

0.74 0.76 0.75 0.70 0.72 0.71 0.72 0.69 0.65



COPPER'S SUPPLY CHAIN RELIES HEAVILY ON AGING COPPER MINES IN DANGEROUS LOCATIONS.

COPPER FOR THE FUTURE?

As economies grow and infrastructure needs increase, the demand for copper will grow. However, without new discoveries and sources of production, the world could

face a shortage of copper as early as 2023.

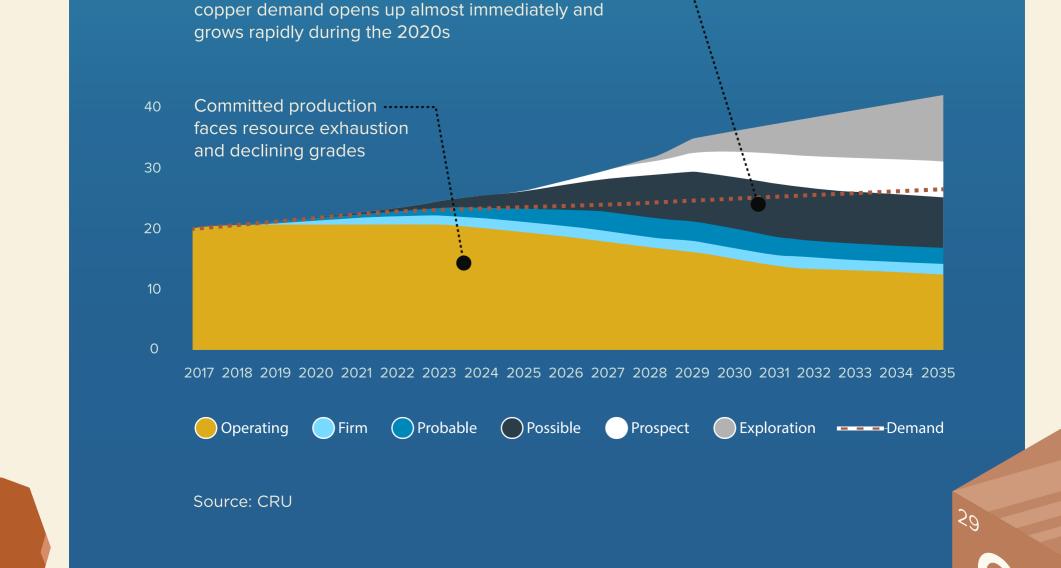
The gap between committed mine output and primary

WHAT IF THE SOUTH AMERICAN

SUPPLY OF COPPER GETS DISRUPTED?

According to Wood Mackenzie, a 15-day closure of copper mines in Chile and Peru can wipe out 1.5% from global annual production. That's a whopping 300,000 tons of copper.

Source: Mining.com



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