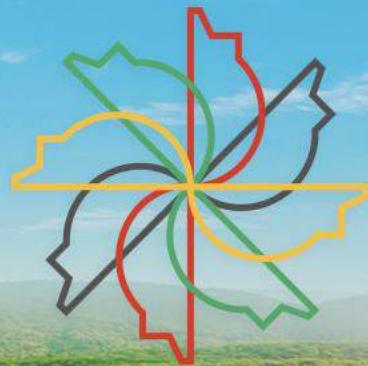




El futuro  
es de todos

Gobierno  
de Colombia



# COLOMBIA

MINING DIVERSITY



El futuro  
es de todos

Minenergía



AGENCIA NACIONAL DE  
**MINERÍA**

COPPER  
ROUTE  
POTENTIAL MINING  
OF COLOMBIA

# MINING IN COLOMBIA

## Exporter in LATAM N°:

- 1st in coal and emeralds
- 4th in ferronickel
- 7th in copper and gold

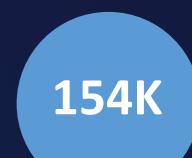
- Investment grade
- Member of the OCDE since May 2018
- 4th destiny in **LATAM Doing Business (DB)**
- 3rd country in LATAM with a **mineral resources and reserves standard**
- 16 commerce agreements, 14 investment agreements and 12 double tax agreements
- 22 TSX / TSXV companies in 2020



Of Colombia's GDP 3Q 2020



Of exports by 2020



Direct employees



royalties in 2020



Investment Attractiveness Index and Best Practices Mineral Potential Index in Latin America and the Caribbean Basin in 2020\*



of the FDI as of 3Q 2020



of LATAM's non-ferrous metals exploration budget in 2020

\*Fraser Institute Annual Survey of Mining Companies 2020

GDP, exports and employment. Source: DANE

FDI. Source: Central Bank of Colombia

Royalties' preliminary data. Source: NMA report Mapa Regalías, DNP as of 31/01/2021.

Exploration budget MNF. Source: Cochilco based on S&P Global 2020.

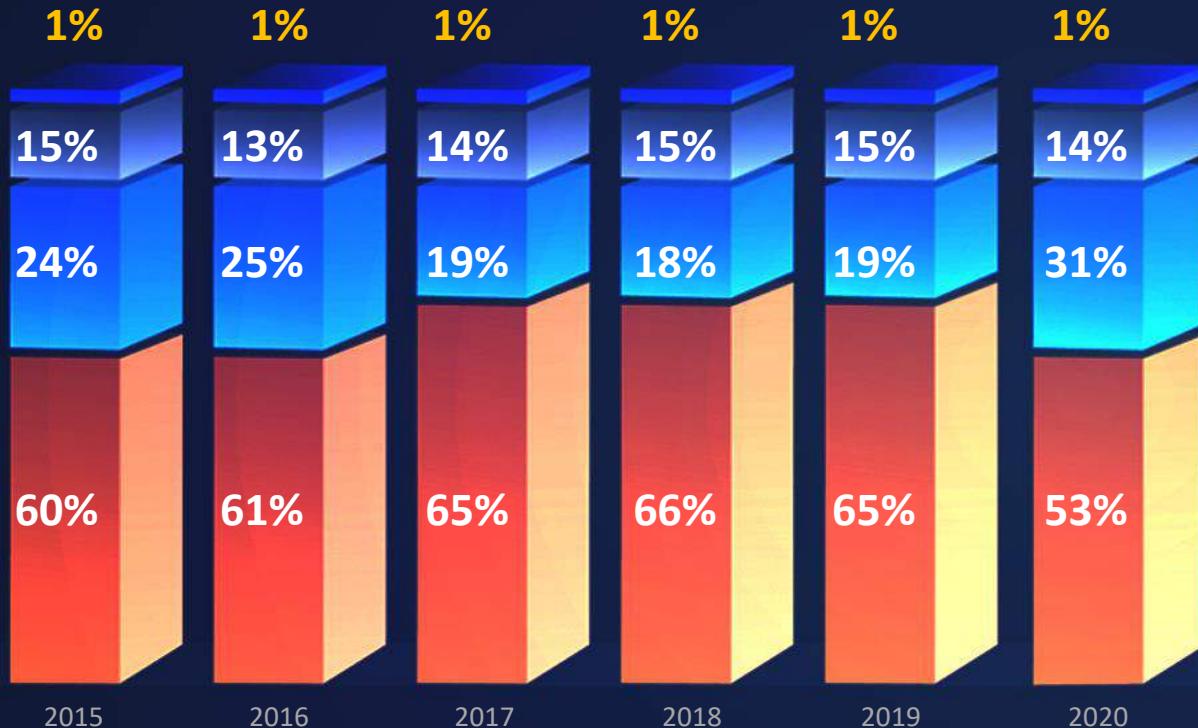
# Mining contributed

of the GDP 2020

1.3%

Coal occupies the first place in the mining GDP 53%, gold and metals second place with 31%

GDP mining sector



Other activities related to the sector



Exploitation of other mines



Exploitation of mines – gold and metals



Exploitation of coal, mines

## USD 7.7 Billion

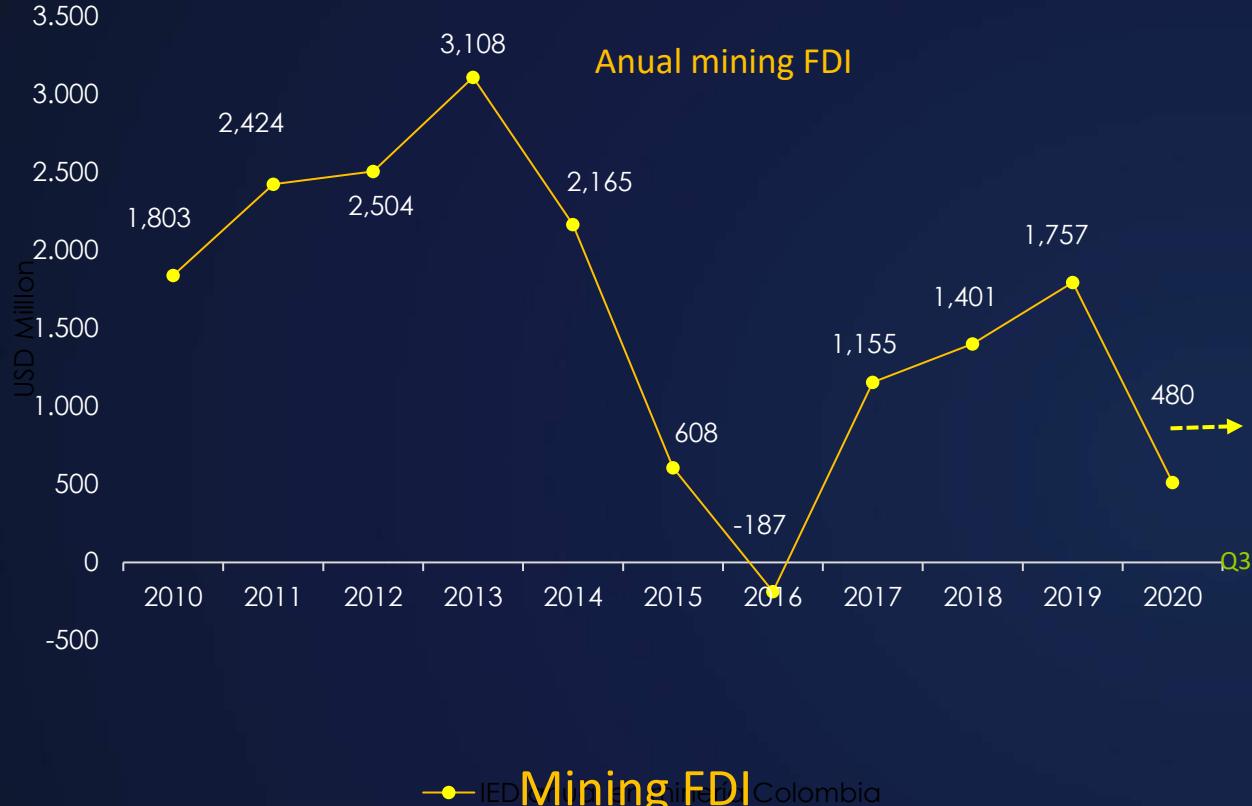
mining exports 2020

25%

of Colombia's exports



## Foreign direct investment in Mining



In 2020, the mining sector accounted for **11.7%** of the total FDI in Colombia, reaching **USD 0.9 billion**

**Global Nonferrous Exploration Budget 2020**

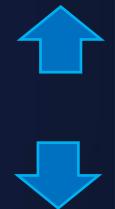
**USD 8.3 billion**



**52% of Budget destined to gold exploration**



**23% of the Budget destined to copper exploration**



**25% LATAM with more than USD 2.06 billion**

**Colombia**

In **2020, Colombia** accounted for **5%** or more than **USD103 million** of LATAM's exploration budget

# POTENTIAL MINERAL AREAS

## KNOWLEDGE OF SUBSOIL

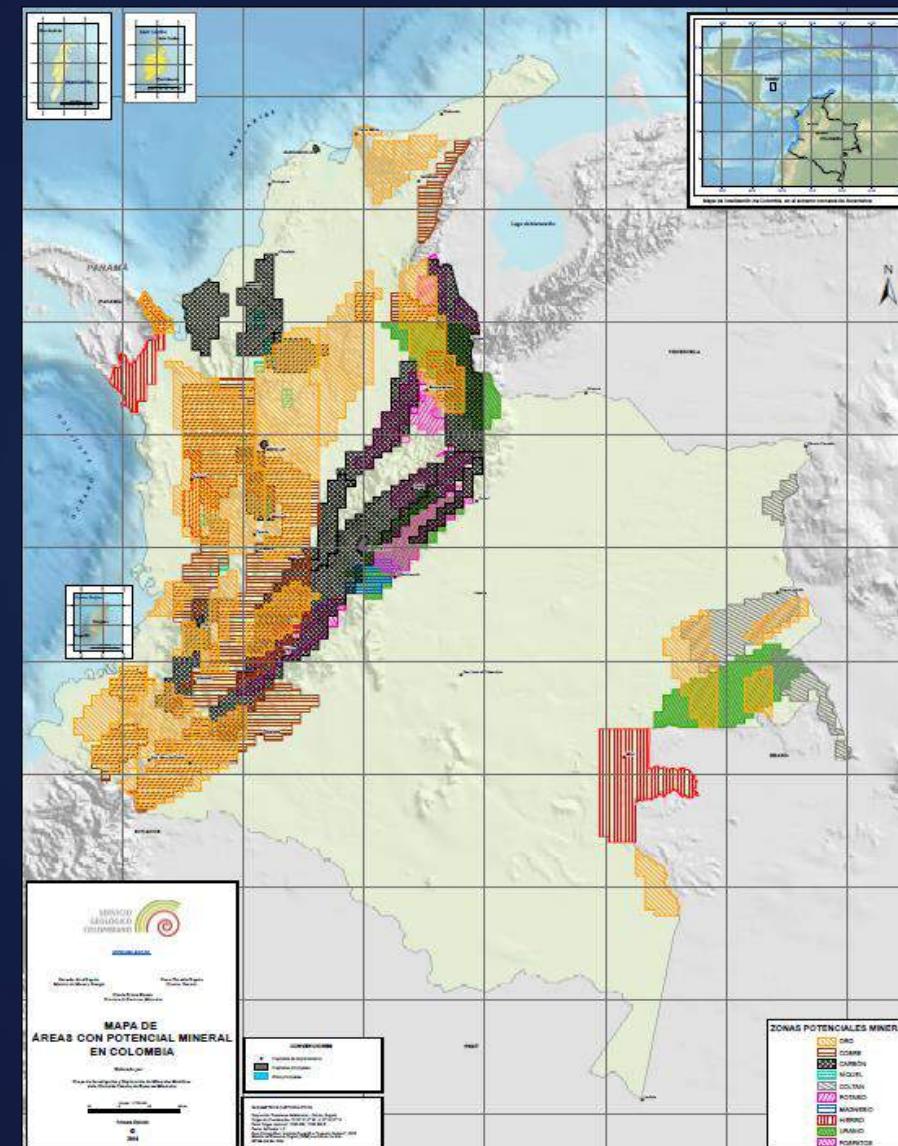
73%  
GEOLOGICAL

70%  
GEOPHYSICAL

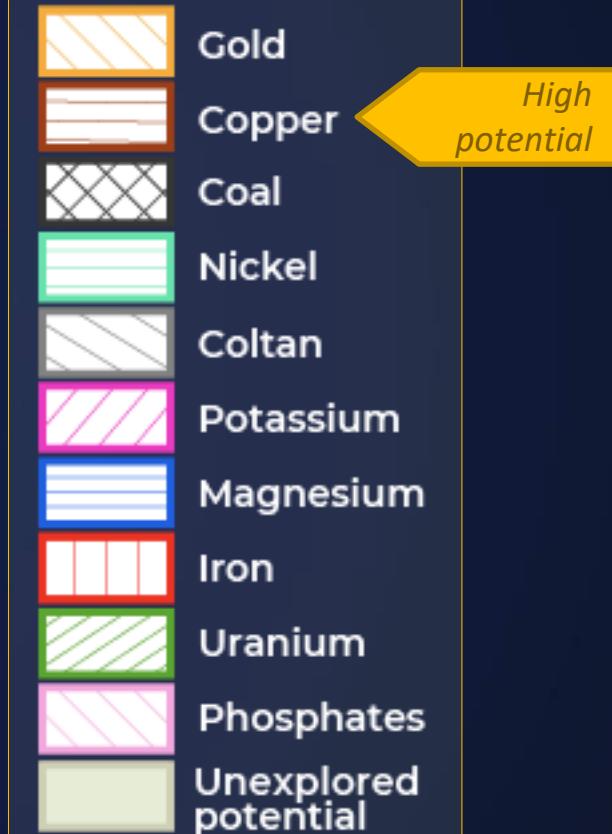
36%  
GEOCHEMICAL

## FOCUS

- ▷ Increase mineral production.
- ▷ Diversifying the mining production matrix - **"copper"**.
- ▷ Raising the levels of formality of mining activity with the best practices of informal economies.



## POTENTIAL





# A COUNTRY TO EXPLORE

*“Mining activity in  
2.9% of the territory”*

**Contractual stage:**

(Exploitation: **88%**, Exploration: **8%**  
and Construction and assembly: **4%**)

**2.9%**  
*Of the territory*



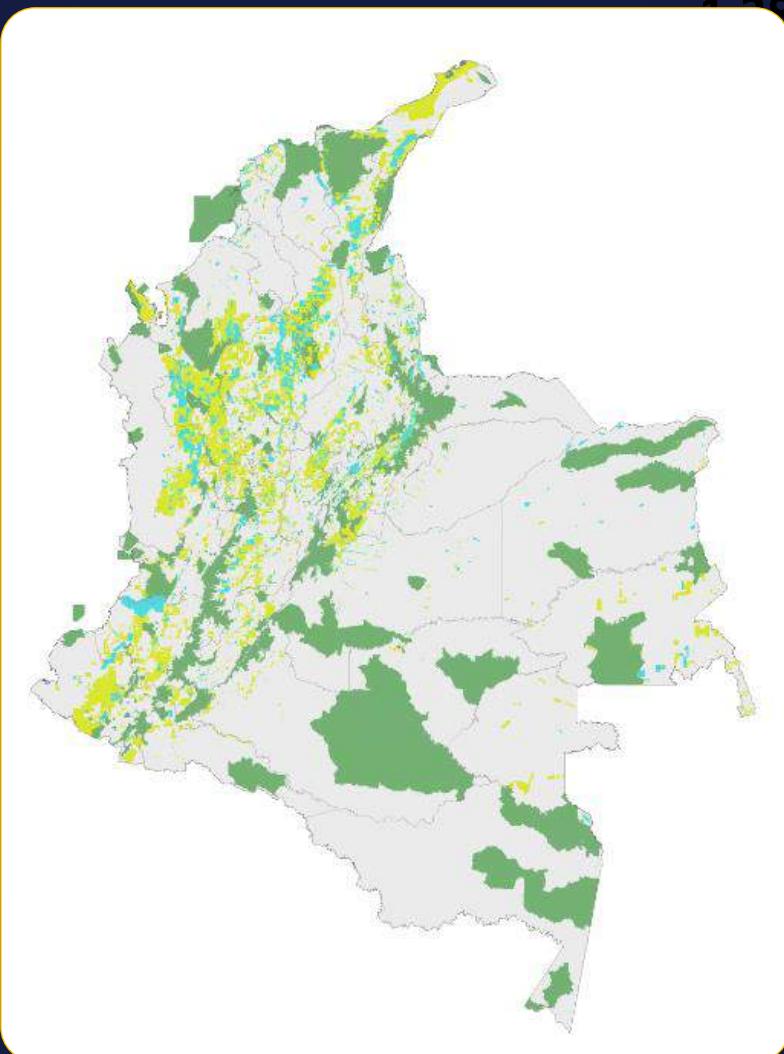
Titled area  
**3,323,221 ha**

**7,285**  
Mining titles

**7.9%**  
*Of the territory*

Requested area  
**9,107,461 ha**

**9,867**  
Applications



**88%**

**Mining titles**

**Applications**

**54%**

*Construction  
materials*

**38%**

**16%**

*Gold and precious  
metals*

**41%**

**14%**

*Coal*

**9%**

**12%**

*Other minerals*

**4%**

**3%**

*Emeralds*

**5%**

**1%**

*Copper*

**3%**

Continental area: **114,174,800 ha**

**20%**  
Excluded areas  
**22,940,138 ha**

Source: NMA - Anua 01/102/2021

*“Colombia has available territory  
susceptible for exploration”*



# GOLD MINING ACTIVITY

**1,184 Titles**

1.13% of national territory  
(1,287,373 ha)

**4,060 Applications**

6.3% of national territory  
(6,294,099 ha)

## Production

**2018**

35.9  
Ton

**2019**

37.5  
Ton

**2020<sup>Pr</sup>**

47.7  
Ton

**“Four new gold projects  
began production in  
2018/2020”**

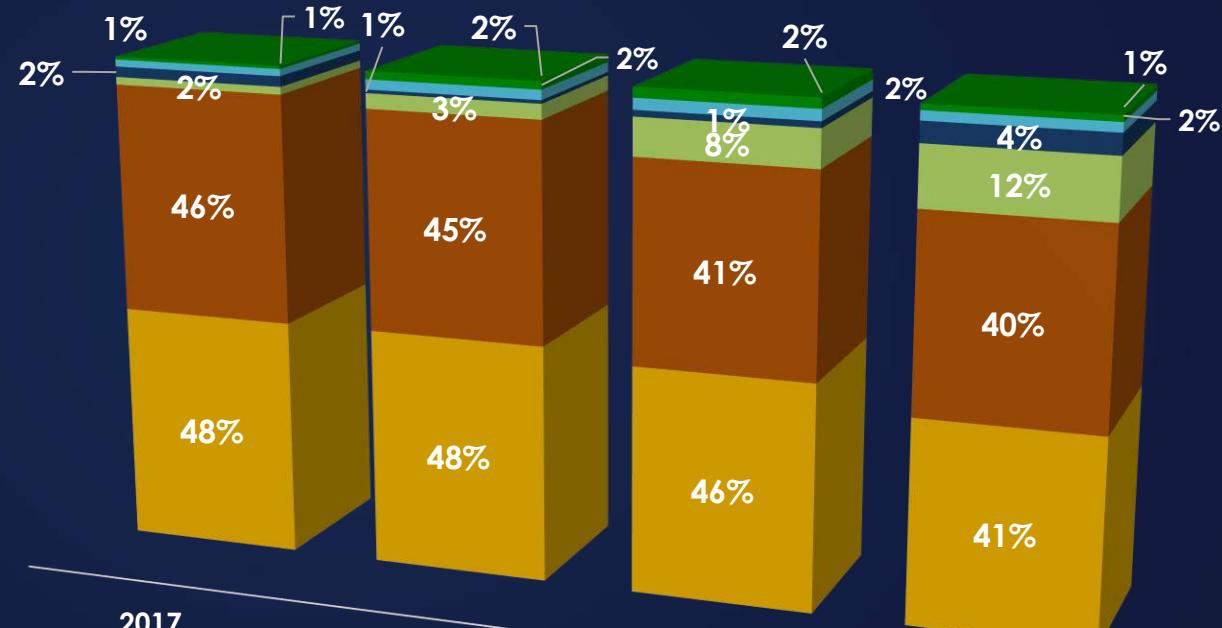


## Gold production by type of authorized mine operator (Ton)

# 41% Mining title

# 59%

of gold production in  
Colombia comes from  
small-scale mining



Mining title

Applications for legalization

Barequeros

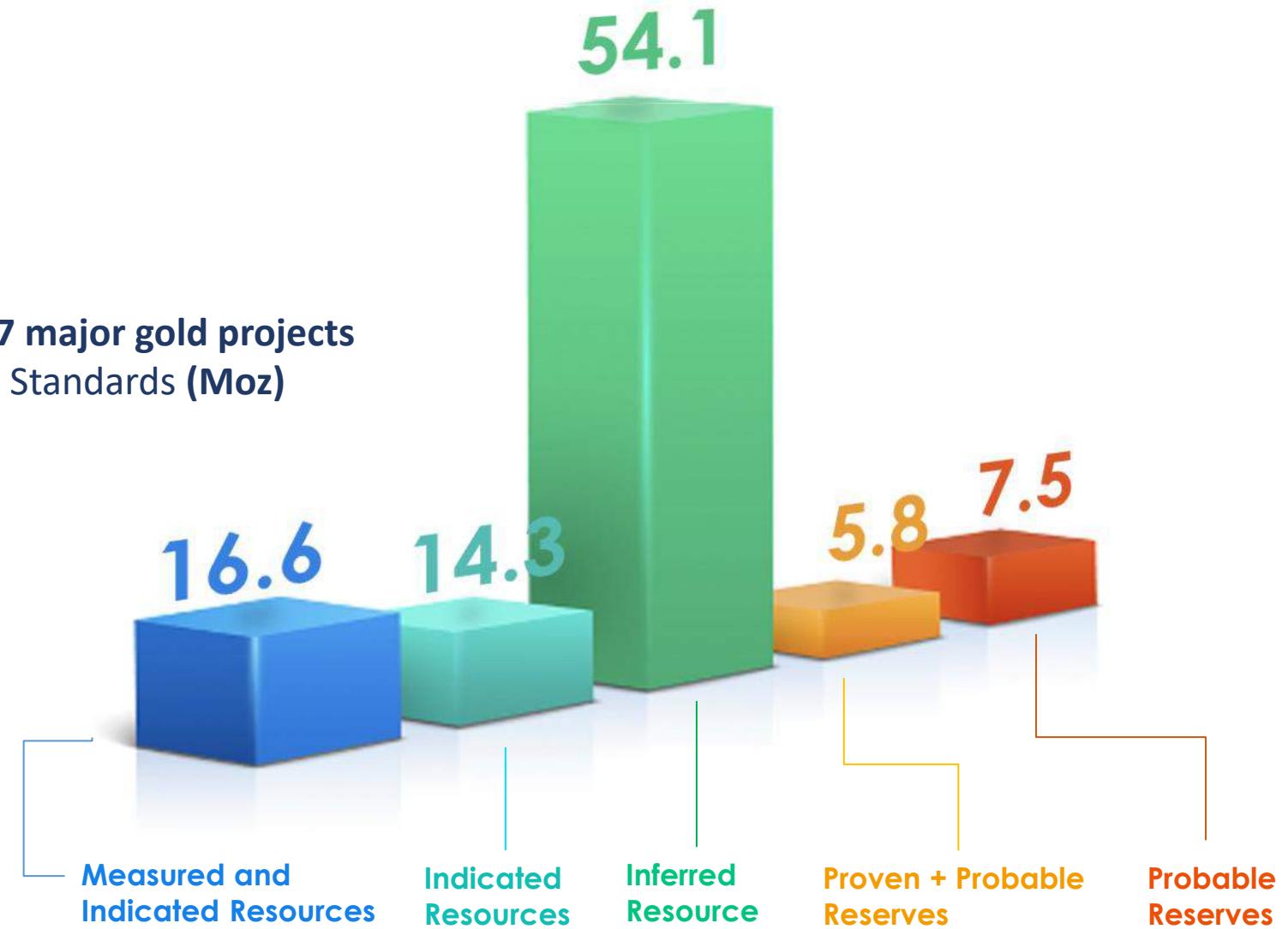
Special reservation areas

Formalization subcontracts

Scrap metal

# RESOURCES AND MINERAL RESERVES

Resources and mineral reserves in 17 major gold projects  
according to International Reporting Standards (Moz)





## Gold projects with an approved environmental license



**2020 – Buritica**  
10.3 g/t Au, 40.7 g/t Ag  
M+I 16.02 Mt  
5.32 Moz Au, 21 Moz Ag



**2024\* – Gramalote**  
0.85 g/t Au – Indicated 78.2 Mt  
2.14 Moz Au

## Pipeline of projects



**2022\* – Quinchia Gold**  
3.3 g/t Au, 2.8 g/t Ag  
0.46 Moz Au



**2024 – Soto Norte**  
5.4 g/t Au, 28.2 g/t Ag,  
0.14% Cu 5.28 Moz Au



**2025\* – San Matias**  
0.29 g/t Au, 0.51% Cu, 2.7 g/t Ag  
0.89 Moz Au



**2023\* – Quinchia La Cumbre**  
0.71 g/t Au,  
1.76 g/t Ag  
0.57 Moz Au



**2024\* – Quebradona**  
0.66 g/t Au, 7.05 g/t Ag, 1.21%  
Cu 2.22 Moz Au



**2025\* – Anza**  
Over 35 % of holes drilled have  
intercepts grading over **10 g/t Au**

## Investments 2017 / 2021



# COPPER MINING ACTIVITY

**262 Titles**

0.3% of national territory  
(388,746 ha)

**1,292 Applications**

2.3% of national territory  
(2,682,291 ha)

## Production

**2018**

9,920  
Ton

**2019**

7,644  
Ton

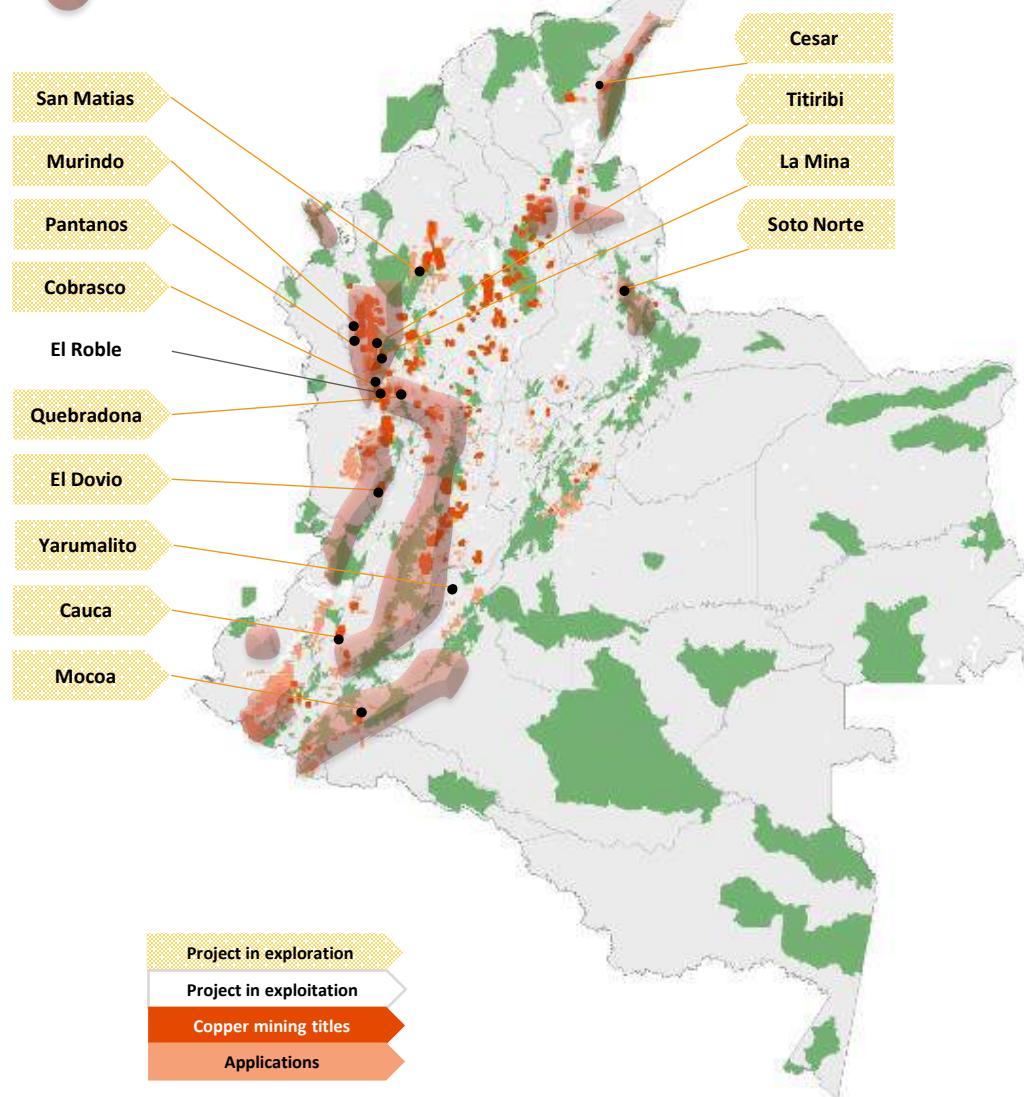
**2020<sup>Pr</sup>**

9,372  
Ton



In Colombia, deposits with an average tenor between 1.25% and 2.51% Cu are in Probable Reserves,”

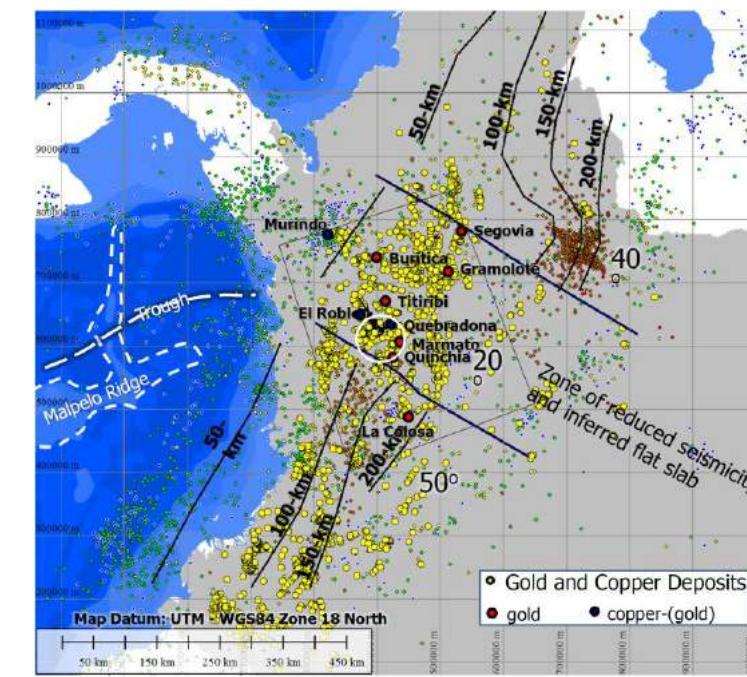


**Potential Areas**

# COPPER MINING ACTIVITY

Colombia has **three (3)** copper belts where important prospects can be found:

- ✓ **Central:** Quebradona, El Pisno, Piedrasentada-Dominical and Mazamorras
- ✓ **Western:** Acandi, Murindo, Pantanos-Pegadorcito, Andagueda and Piedrancha
- ✓ **Eastern:** Andes, Infierno-Chili, Dolores and Mocoa



Source: [https://www.metminco.com.au/site/PDF/2877\\_1/MergerPresentation](https://www.metminco.com.au/site/PDF/2877_1/MergerPresentation) , Figure: Earthquake Hypocentres & Benioff Zone Contours.



## RESOURCES AND MINERAL RESERVES

Resources and mineral reserves in 9 major copper projects according to International Reporting Standards (MLbs)

Source: Reporting on resources and mineral reserves on projects: El Roble, Quebradona, San Matías, Soto Norte, La Mina ,Titiribí , Yarumalito, Mocoa and Cauca. ANM estimated data as at June, 2020.



# Copper production expected to increase by more than 1,000% in 2024

Copper project in  
exploitation



## El Roble

Proven + Probable reserves 1.00 Mt 3.02% Cu, 1.76 g/t Au  
Measured + Indicated resources 1.17 Mt 3.26% Cu, 2.33 g/t Au  
84.3 Mlb Cu

Pipeline of  
projects



2024\* – Quebradona  
Probable reserves 104.05 Mt\*  
1.21% Cu, 0.66 g/t Au, 7.05 g/t Ag  
2,769 Mlb Cu



2024 – Soto Norte  
Probable reserves 28.5 Mt\*  
0.14% Cu, 5.4 g/t Au, 28.2 g/t Ag  
106.06 Mlb Cu



2025\* – Titiribi  
Measured+indicated resources 285.8  
Mt  
0.16% Cu, 0.50 g/t Au  
654.4 Mlb Cu



2029\* – Mocoa  
Inferred resources 636 Mt  
0.33% Cu, 0.036% Mo  
4.6 Blb Cu



2025\* – San Matias  
Indicated resources 114.3 Mt  
0.45% Cu, 0.26 g/t Au, 2.4 g/t Ag  
1,142.7 Mlb Cu



2027\* – La Mina  
Indicated resources 37 Mt  
0.24% Cu, 0.74 g/t Au, 1.77 g/t  
150.2 Mlb Cu

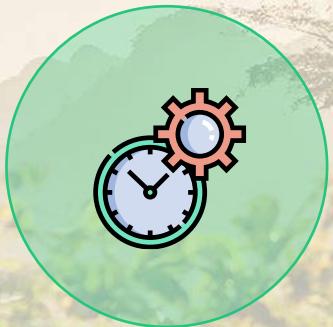
\* Estimated projection by NMA

Investments  
2017 / 2021





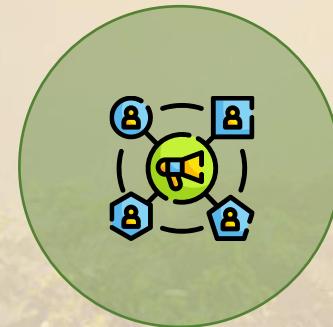
# PILLARS OF THE MINING SECTOR FOR REACTIVATION



Efficiency



Effectiveness



Diversifying



Demystifying

*Through impact strategies, to secure a sustainable and safe mining activity, creating opportunities and wealth for the country.*



# EFFECTIVENESS

## LEGALITY AND PRESENCE IN THE TERRITORIES



SMALL AND  
MEDIUM - SCALE  
MINING

93.5 %



LARGE – SCALE  
MINING

6.5 %

### SUPPORT FOR OUR MINERS

#### Mobile support

- Bringing technology based tools to the region
- Resolve bottlenecks
- Legal support
- Technical and focalized security training



### AUDIT PREROGATIVES AND MINING TITLES

- Satellite images
- On line checking
- Drone-based auditing
- IoT setup

### TRACEABILITY SYSTEM

To measure and calculate transaction volumes across the chain, as well as origins, of construction materials, emeralds, coal and gold.



# DEMYSTIFYING

**Regional** forums with universities and colleges (students of 10th and 11th grades) for the last degrees on the successful experiences of well done mining. To generate with these groups information banks and research, laboratories from the academy in favor of new methodologies for the search of solutions in the environmental management and the construction of new businesses from the same mining products. Teachers and students are active in each of their territories.



**Forum Circuits**

**3**  
scenarios



**Young Miners**

**Miners in Action**



**Colombia's Young Miners** : is a space for listening and generating teamwork in order to make visible how mining can be developed with all the laws, creating content through social networks that show social responsibility, economic recovery of the mining territory.





# DIVERSIFYING - ECONOMY BOOST



## COAL • March, 2021

Competitiveness strategy for coal  
CO2 emisión-offsetting

## MINING ROUNDS



## COPPER • February, 2021

1st mining round in Colombia—  
generate USD 25 - 30 million  
in operating investments



## PHOSPHATES • September, 2021

1st phosphate mining round  
(fertiliser)



## GOLD • 2022

1st gold mining round



## BUSINESS ROUND-TABLES



## GOLD

- Round on gold projects (November, 2020)
- 2 New Gold rounds(June – October, 2021)



## COAL

- Round on coal business– Asia (August, 2020)
- 2 New Coal round (March – August, 2021)



## COPPER

- 2 Rounds on Copper projects (July -October 2021)



## EMERALDS

- Round on emerald business (May, 2021)

## BOTTLENECK MANAGEMENT•2020 - 2022

- Environment agent focalized by territory
- Territorial agents
- Mining procedures
- Public works agent

## ALL THE MINERALS



# STRATEGIC MINING ÁREAS

Selection process, started on february 2021



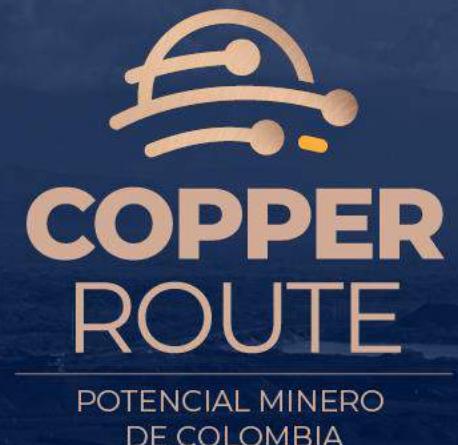
# How have we advanced with Strategic Mining Areas (SMA)?

## Parallel stages



# COPPER ROUTE 2021

1RST MINING ROUND



El futuro  
es de todos

Gobierno  
de Colombia



El futuro  
es de todos

Minenergía



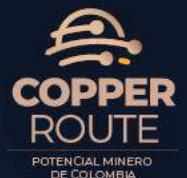
AGENCIA NACIONAL DE  
**MINERÍA**

# 1. What is the Copper Route?

It is a tool to achieve mineral **diversification** and **boost exploration** in the country.

**Flexible, competitive and transparent** process with clearly established timelines for accessing mining areas.

Areas with **high mineral potential** that will be awarded through an objective selection process.





## 2. Stages for the selection process



Technical information available for study



### 3. What benefits does it bring to the country?

**Innovative** mechanism to manage on mining resources and become a **competitive country** in the international mining market.

It will help **attract investment** and resources for exploration in a global economic crisis context.

Contribute to the **energy transition**, producing minerals for future technologies.

## 4. What benefits does it bring to the regions?

**Economic diversification** through the exploitation of new minerals (copper) and production chains.

Generate **additional resources** for the Nation and for the regions through economic compensations in addition to royalties.

Direct investment in the region derived from the **Social Management Plans** of the contracts.

## 5. What benefits does it bring to investors?

Consolidated scenarios at the social level:

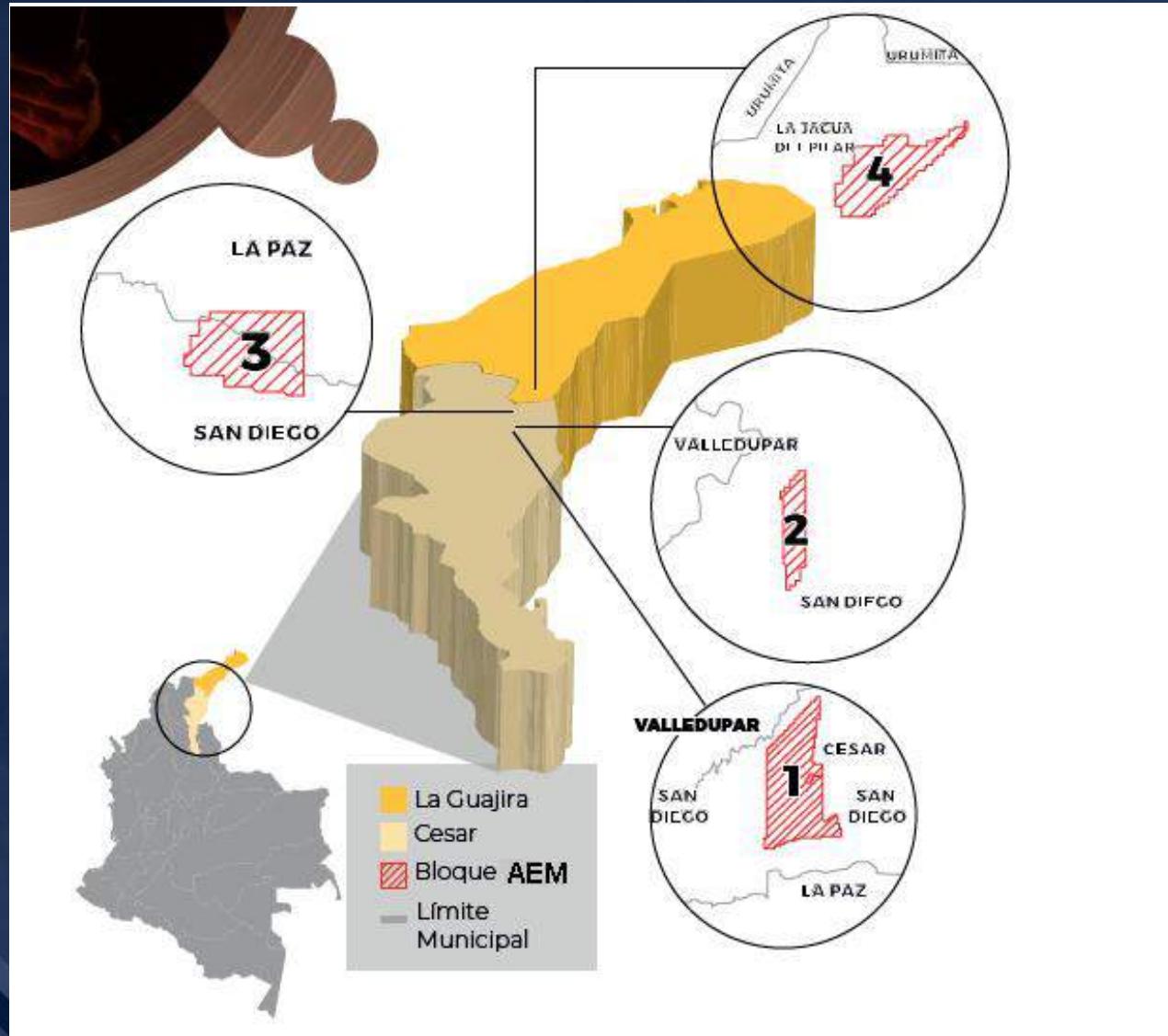
Prior **coordination and concurrence** processes with local authorities and **prior consultation** with communities.

Access to **updated environmental information** and baseline for Environmental Impact Assessment -EIA, to facilitate licensing procedures.

Competitive contractual conditions to boost **mining exploration**.

Clear and fair rules and expedited timelines that generate **legal certainty** for investors.

# Offered areas in the 1st round



## 6. How can I participate in the Copper Route?

- Qualify to participate in the selection processes
- Submit a proposal in the selection process

# How can I qualify to participate in the Copper Route?

*Investors will be able to qualify and their registration will be valid for 1 year in order to be able to participate in the processes of desire.*



## Legal capacity:

- Companies or individual persons
- National or foreign legal entities with a branch in Colombia.
- Foreign companies or legal entities without a branch in Colombia
- Plural Structures



## Environmental capacity:

- Certification in adoption and implementation of accredited environmental management.
- May be certified by ISO 14001 or equivalent standards.



## Financial capacity:

- Financial information
- Liquidity, debt capacity and interest coverage ratio criteria will be evaluated.
- Restricted qualification (complies with legal and technical capacity but does not meet financial capacity indicators).

# How can I qualify to participate in the Copper Route?

*Investors will be able to qualify and their registration will be valid for 1 year in order to be able to participate in the processes of desire.*



## Technical capacity (Type A, B and C):

- Participation in mineral exploration projects, handling all phases of exploration.
- Preparation of exploration results and resource estimation reports under any national or international standard.
- Execution of minimum drilling campaigns.



## Capacity in Corporate Social Responsibility:

- Certification in the adoption of good practices
- Goals for economic and social development to achieve sustainable and inclusive development.
- May be certified with ISO 26000 standard

# THANK YOU

