

**MINING THE GOLDEN
OPPORTUNITIES OF THE NEW
ENERGY:**

**THE BRIGHTEST CHANCE
FOR COLOMBIA**

NUEVA



El futuro
es de todos

Minenergía

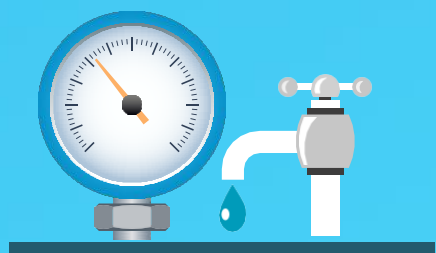
#LaNUEVAENERGÍA

THE POWER, ENERGY AND MINING SECTORS ARE KEY FOR THE ECONOMIC RECOVERY OF COLOMBIA



7%

► **OF THE NATIONAL GDP**
comes from the Mining,
Hydrocarbons and Power
sectors



5,7%

comes from the public
utilities sector

12%

Of the Government
revenue



In 2019

**MINING AND ENERGY
SECTORS REPRESENTED**

34%

Of FDI

56%

Of exports

Between 2018 - 2019, FDI in the
energy mining sector grew 21%

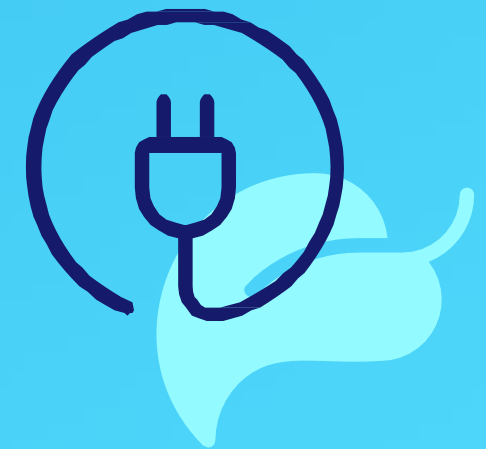
**THE COVID-19 CRISIS
OFFERS AN
OPPORTUNITY TO
PROMOTE A
FAIR, SUSTAINABLE AND
RESILIENT ECONOMIC
RECOVERY**

**The mining and energy
industry plays a vital role
in supporting this
recovery**

1. BASED ON 4 STRATEGIC AXES



Renewable energy
and new energy
technologies



Energy security



Sustainable mobility



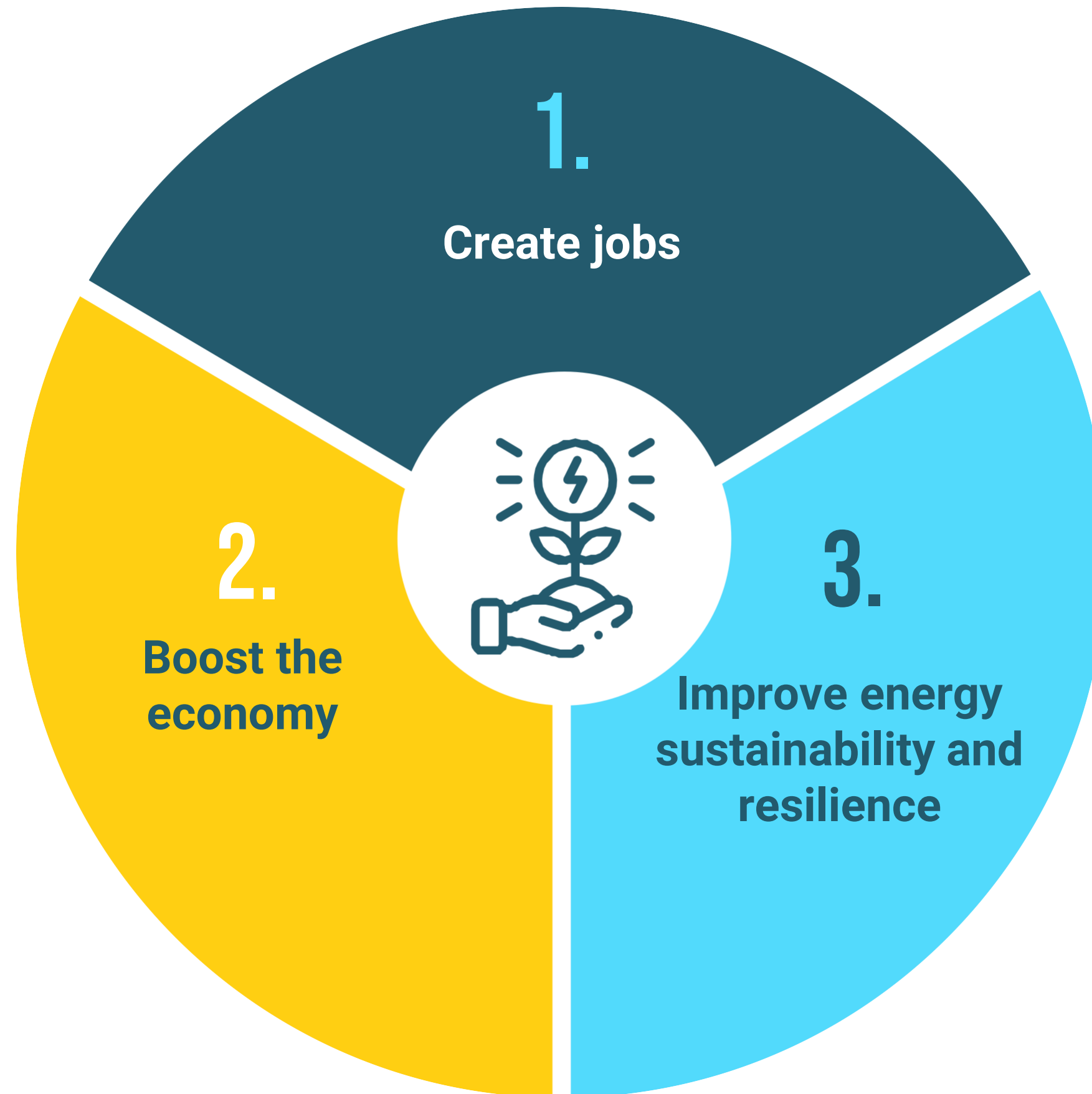
Mining diversification

**2. MEETING THE OBJECTIVES OF OUR
CLIMATE CHANGE PLAN**

THE ENERGY SECTOR IS POWERING THE GLOBAL ECONOMIC RECOVERY

Several measures have been taken within the energy sector around the globe

GOALS FOR A SUSTAINABLE RECOVERY FOR THE ENERGY SECTOR



THE WORLD IS WORKING ON



POWER



TRANSPORT



HOME



INDUSTRY



CLEANERS FUELS



INNOVATION

THE ENERGY TRANSITION TARGET



RENEWABLE ENERGY



14 SOLAR
WIND
PROJECTS
2.500^{MW}

12%
MATRIX



And it will continue to grow: 8.000 MW of Renewable energy projects have an approved grid connection

SUSTAINABLE MOBILITY STRATEGY



600.000
ELECTRIC VEHICLES
Goal for 2030

IN 2021 WE WILL HAVE
OUR HYDROGEN ROADMAP
TO PROMOTE THIS
TECHNOLOGY

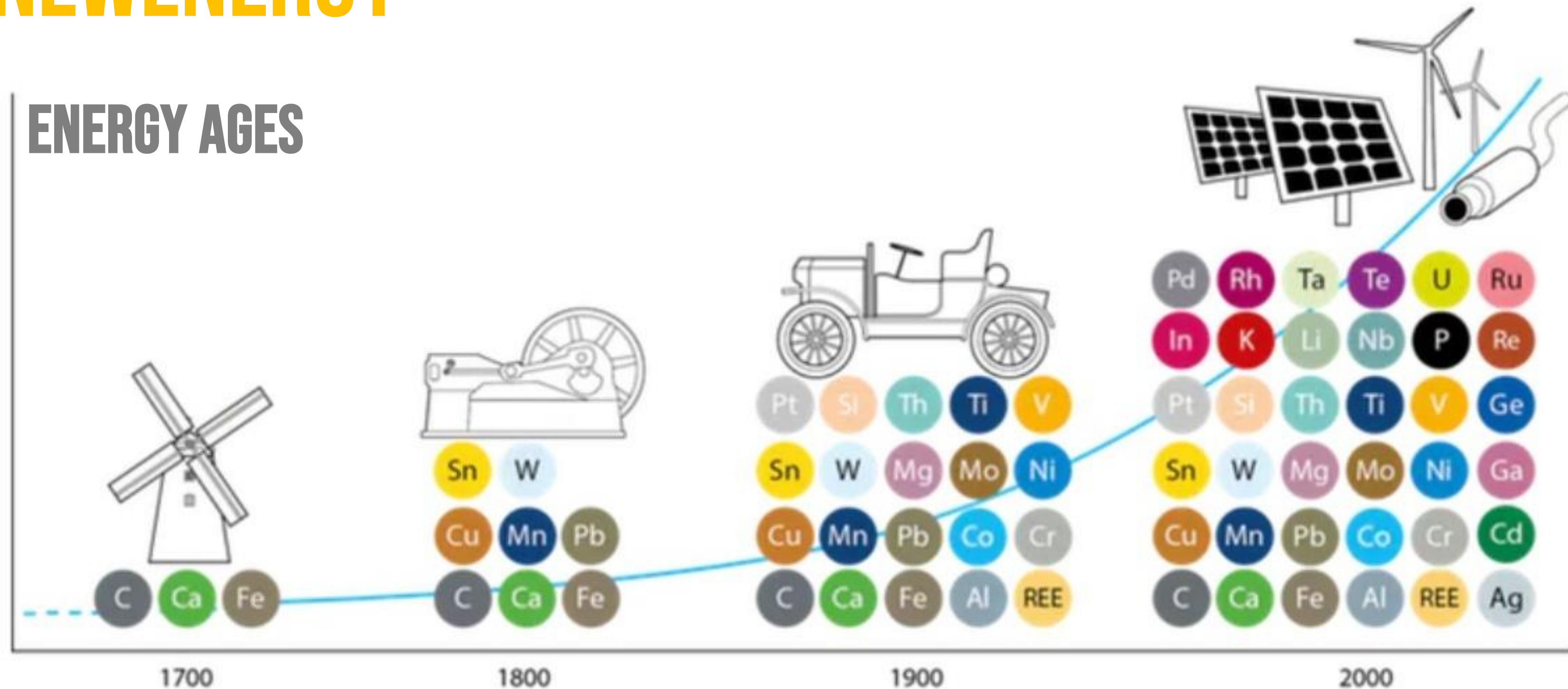


**THE FIGHT AGAINST CLIMATE CHANGE IS ONE OF THE
GREATEST GLOBAL CHALLENGES OF THE 21ST CENTURY,
AND AS PARADOXICAL AS IT MAY BE, THE MINING
INDUSTRY...WILL BE RESPONSIBLE FOR PROVIDING
MUCH OF THE MATERIAL NEEDED TO MAKE THIS
CHANGE POSSIBLE.**



IDB, 2020. "The time is now, tomorrow will be too late!
Lithium, Li-ion batteries and the energy transition"

NOTHING OF THIS WOULD BE POSSIBLE WITHOUT MINING. WE ARE WORKING IN A MINING SECTOR FOR THE #NEWENERGY



Source: Zepf, V. et al (2014). *Materials critical to the energy industry: an introduction*. Taken from IDB, 2020.

SUSTAINABLE RECOVERY BRINGS OPPORTUNITIES FOR THE MINING SECTOR

- **A 3 MW TURBINE
REQUIRES:**

4.7 TONS OF COPPER
335 TONS OF STEEL
1,200 TONS OF CONCRET

- **EACH MW OF SOLAR
INSTALLED CAPACITY REQUIRES
45 TONS OF COOPER**

Copper can be recycled and it doesn't lose any of its properties

90% of solar panels contain silver conductors which enable the generation of electricity

Gold conductors are fundamental for internet performance and layers of gold protect astronauts from radiation and heat

Next generation of green vehicles could use gold to improve corrosion resistance and electrical conduction

2021 IS KEY FOR MINING DIVERSIFICATION

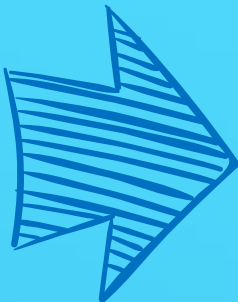


TIPO DE MINERAL	
ORO	15
COBRE	15

TOTAL	
30	PROYECTOS

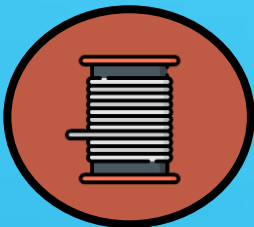
ESTADO	
EXPLORACIÓN	22
CONSTRUCCIÓN	2
EXPLOTACIÓN	4
POR CONTRATAR	2

MORE THAN
30
PROJECTS
FOR GOLD AND COPPER



IN 2024:
INVESTMENTS: USD
5.000 MILLION

JOB: >7.000



BURITICÁ

(Gold-Production in
2020, 257,000
oz/year)

WHAT INVESTORS ARE LOOKING FOR WHEN DECIDING WHERE TO INVEST



Business
environment



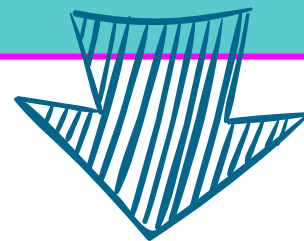
Resource
potential



Institutional
framework



Environmental
and social
framework



ACCORDING TO THE FRASER INSTITUTE ANNUAL SURVEY OF MINING
COMPANIES 2020,

COLOMBIA RANKS FIRST PLACE IN THE INVESTMENT
ATTRACTION INDEX IN LATAM

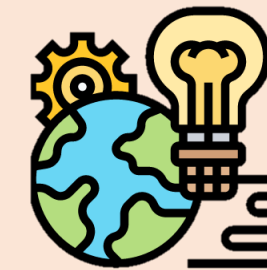
WHAT WE ARE WORKING ON



LEGALITY AND SECURITY



TERRITORY AND ENVIRONMENT



NEW MINING MODEL

**#NewEnergy for
Diversification**





LEGALITY AND SECURITY

- PROTOCOL WITH MINISTRY OF DEFENSE
- BILL AGAINST ILEGAL MINING
- MONITORING ILEGAL MINING AND SHARING INFORMATION





TERRITORY AND ENVIRONMENT

- Strengthening of environmental authorities
- Modernization of Environmental Licenses Authority
- Working for greater certainty in protected areas regulation

- Relationship with focus on conflict prevention
- Greater coordination with local authorities
- Royalties for the promotion of a better activity

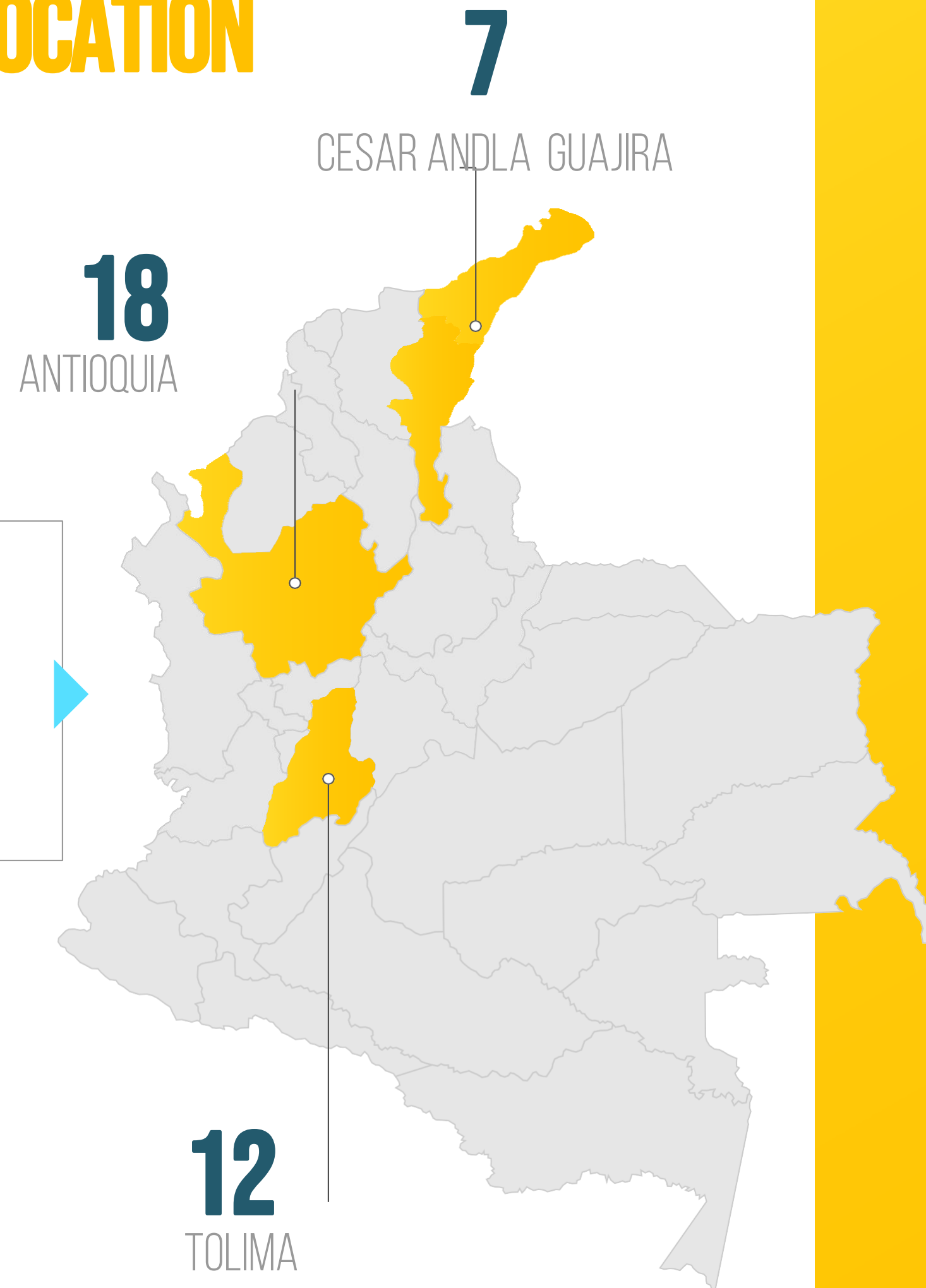
NEW MINING MODEL



- **STRENGTHENING FISCALIZATION**
- **HIGHER STANDARDS**
- **CHOCÓ MINING MODEL**
- **STRATEGIC MINING AREAS**

PROCESS FOR THE ALLOCATION OF STRATEGIC AREAS

37 POTENTIAL
BLOCKS




► **2021 =**
PROCESS LAUNCHING

4 AREAS FOR COPPER IN
CESAR AND LA GUAJIRA

OPPORTUNITIES:

- LEGALITY
- COMPETITIVENESS
- SUSTAINABLE DEVELOPMENT
- LOCAL DEVELOPMENT
- RESILIENT ECONOMIC RECOVERY



Thank you and welcome to the
opportunities of the new energy:

The brightest chance for
COLOMBIA

Colombia #TheNewEnergyInPDAC



El futuro
es de todos

Minenergía

#LaNUEVAENERGÍA



DIEGO MESA PUYO

Minister of Mines and Energy - COLOMBIA

*Sustainable development of
the mining-energy sector with a social,
environmental and governance purpose to
transform Colombia.*

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