



Ministerio de Minas y Energía
República de Colombia

COLOMBIAN BASIC METAL PROSPECTS

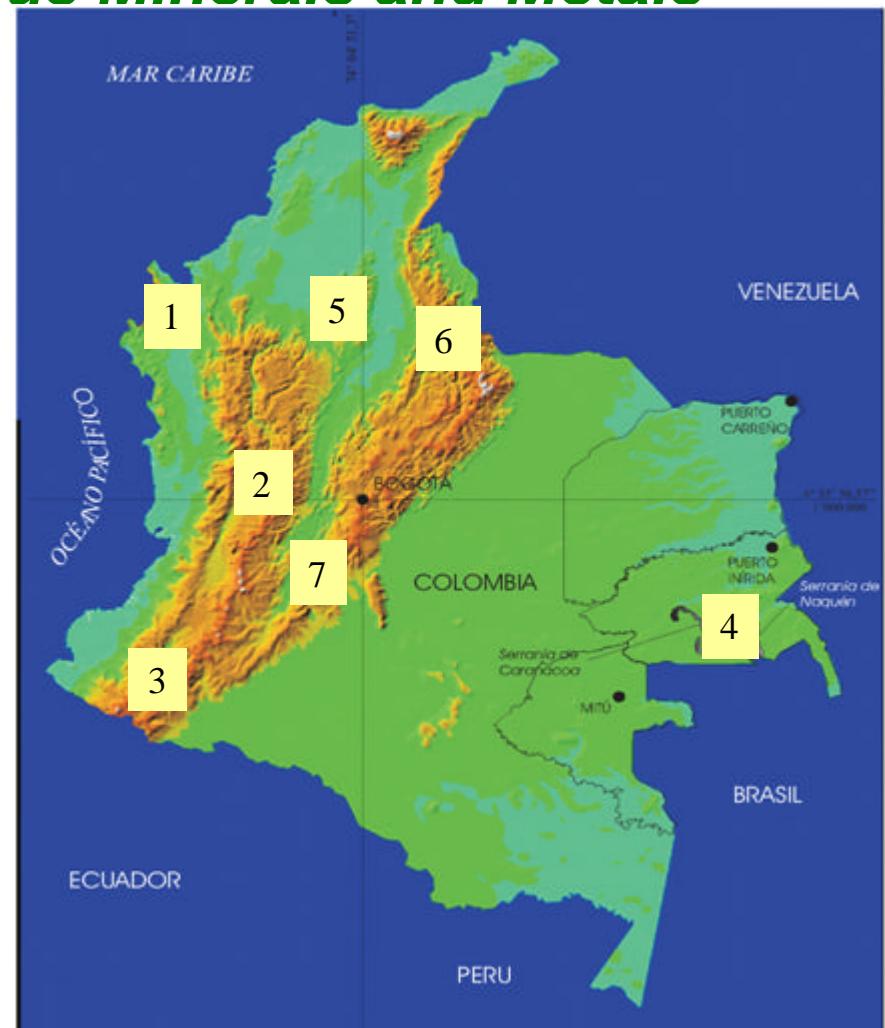


Ministerio de Minas y Energía

República de Colombia

Geological Potential: Precious Minerals and Metals

Potential Prioritized Zones	Minerals
1. Northwestern Antioquia Department	Copper, Gold, Molybdenum
2. Cauca River Canyon	Gold and basic metals
3. Nariño and Putumayo departments	Gold and basic metals
4. Eastern Colombian	Gold
5. San Lucas Mountains	Gold
6. Santander Mountain Range	Gold
7. Tolima and Huila departments	Gold and basic metals



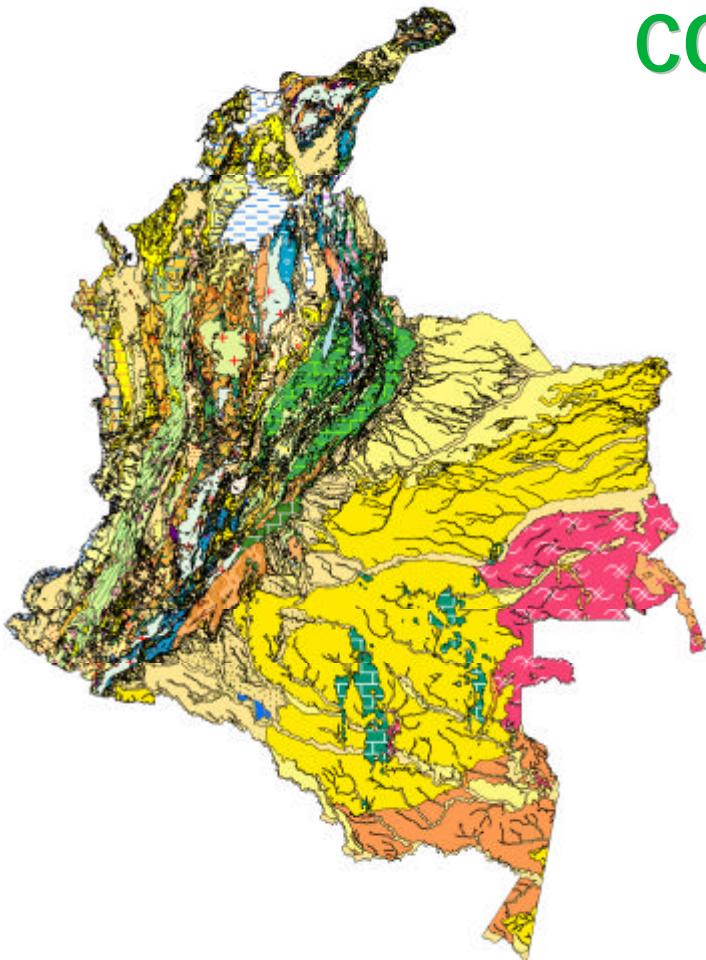
Source: Ingeominas, 2006



Ministerio de Minas y Energía

República de Colombia

ATLAS AND GEOLOGIC MAP OF COLOMBIA



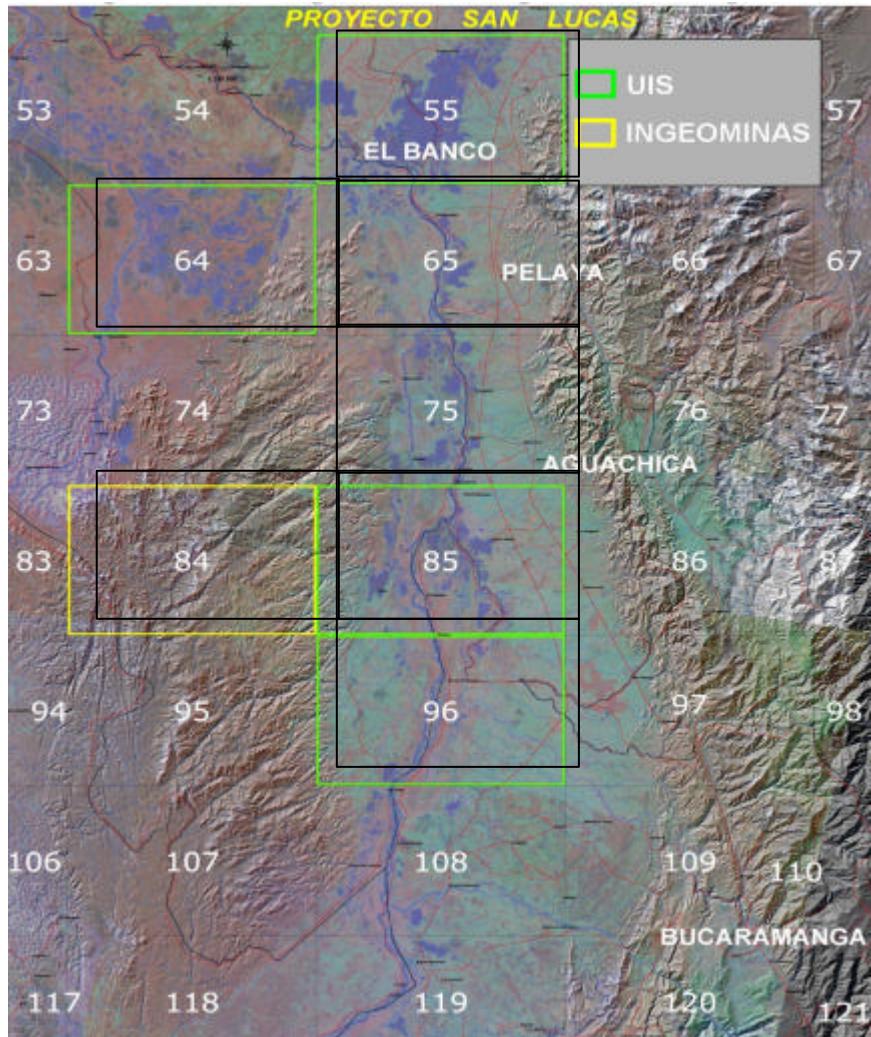
- Atlas and Geologic Map of Colombia, scale 1:500.000 - 26 Sheets
(Cronostratigraphic Units, structural elements and outlines of the sedimentary basins of Colombia)
- Implementation of the Atlas and Geologic Map of Colombia within a SIG environment. Isotopic data in ArcGIS.
- Catalog of bibliographic references.



Ministerio de Minas y Energía

República de Colombia

POTENTIAL ZONES SAN LUCAS SIERRA



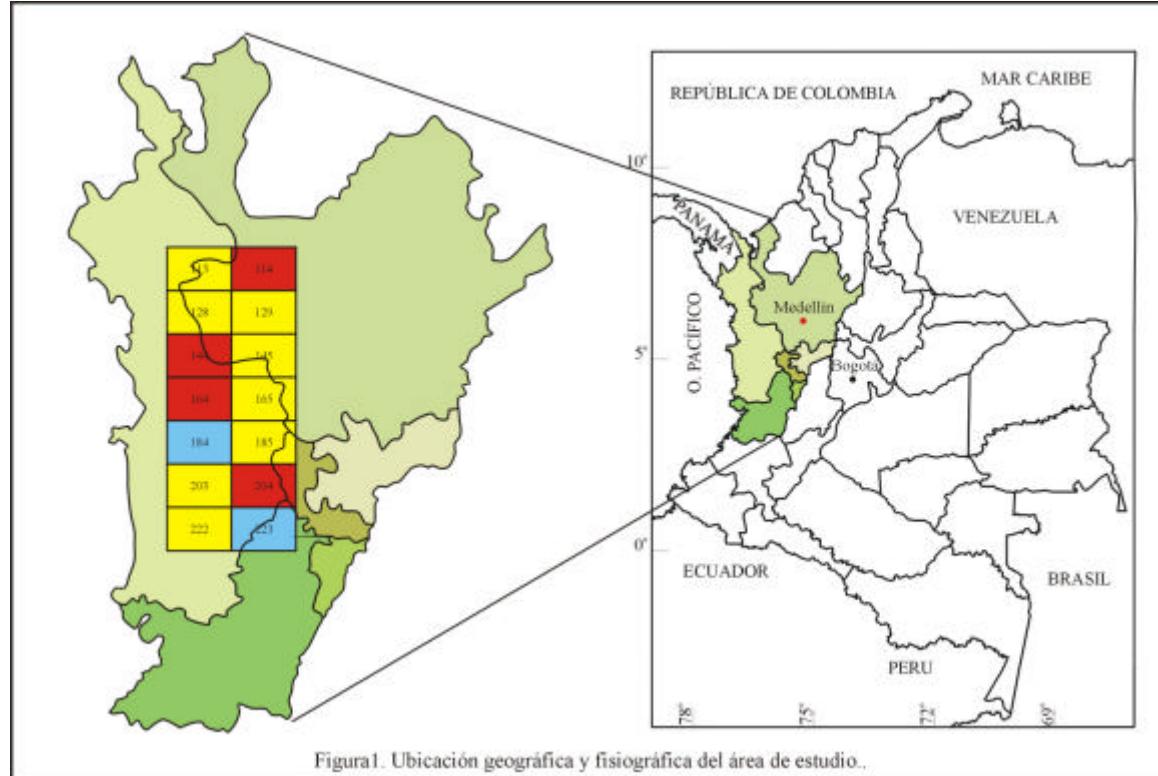
- Development of Geologic Cartography 1:100.000 scale, 13000 Km² coverage, geochemical sampling of sediment and rocks.
- Generation of digital geologic cartography from field data.
- Neogene Metalogenic event of precious metals (hot spring -veins). epithermal deposits.
- Vein and alluvium gold mining; Piñal and Cristales prospects already identified.



Ministerio de Minas y Energía

República de Colombia

POTENTIAL ZONES IN THE NORTH OF THE WESTERN MOUNTAIN RANGE



➤ Palaeogene metalogenic event: Cu, Au epithermal deposits of precious metals (vein and disseminated), gold events from the Cenozoic suspected.

➤ Vein and alluvium gold activity; Murindo, Pantanos-Pegadorcito and Acandi prospects. Sand banks with gold and platinum.

- Diagnostic sheets and abnormal analysis





Ministerio de Minas y Energía

República de Colombia

POTENTIAL ZONES IN THE WESTERN AND CENTRAL MOUNTAIN RANGE

11. Liborina - Ituango

Epithermal deposits (vein and disseminated)

12. Marmato-Titiribí

Porphyries (Cu, Au, Mo)

Epithermal deposits (vein and stockworks)

18. Batolito de Sonsón

Epithermal deposits (vein and disseminated)

Alluvium Au

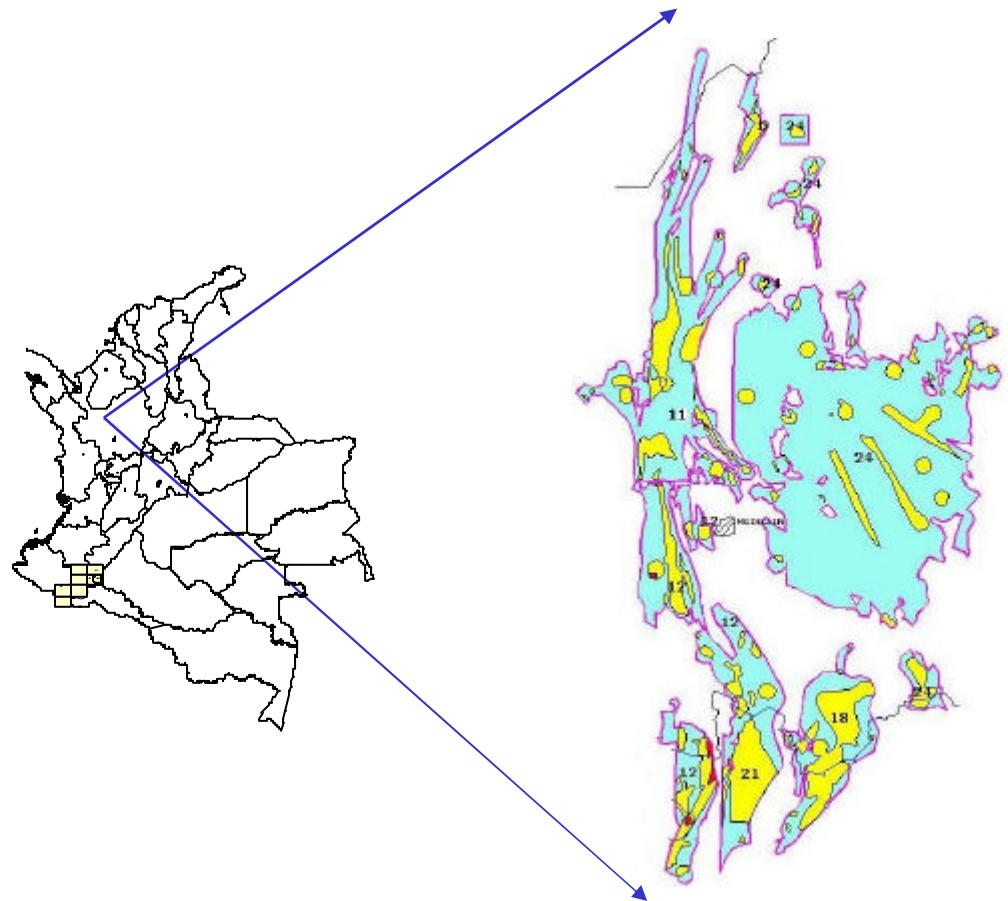
21. Aranzazu-Salamina

Vein and Stockworks

24. Batolito Antioqueño

Meso- Epithermal (vein and disseminated)

Alluvium Au

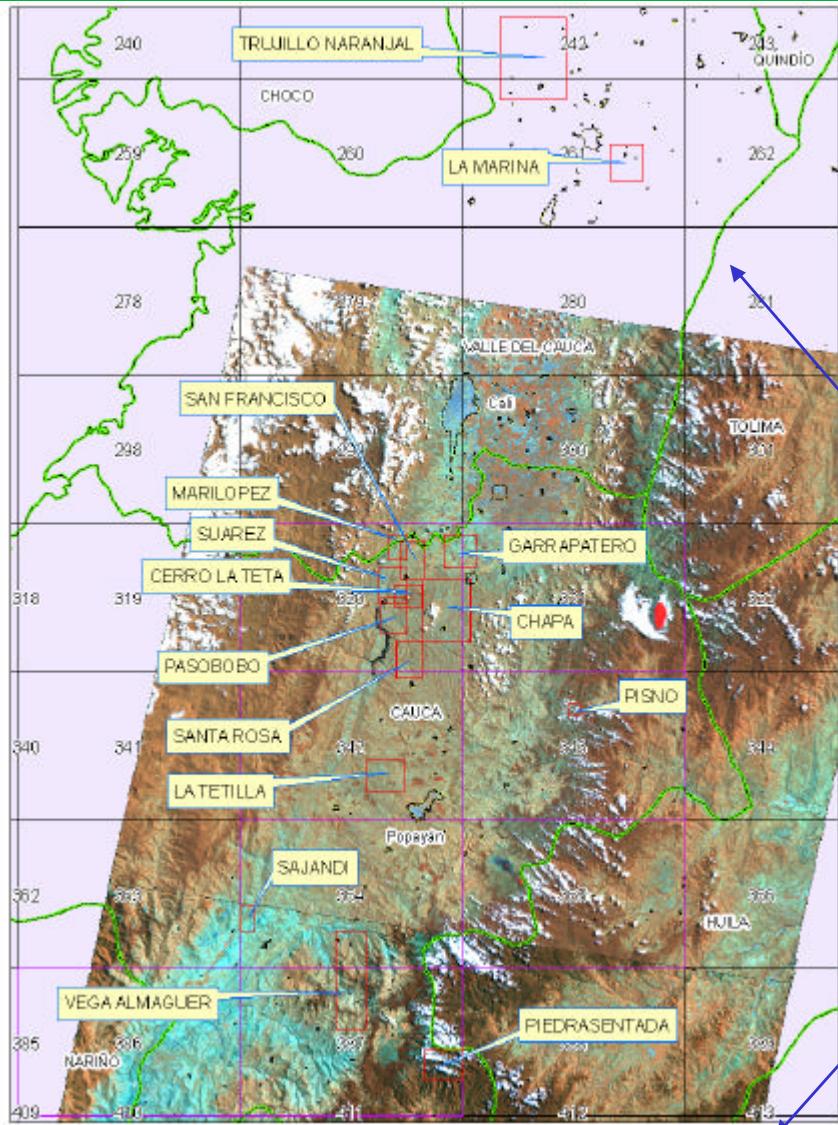




Ministerio de Minas y Energía

República de Colombia

POTENTIAL ZONES AT THE SOUTH OF THE CAUCA CANNON



➤ Mesozoic or Cenozoic metalogenic events.
Porphyries (Cu- Mo) ; skarn; epithermal deposits
(Au-Ag) (vein disseminated)



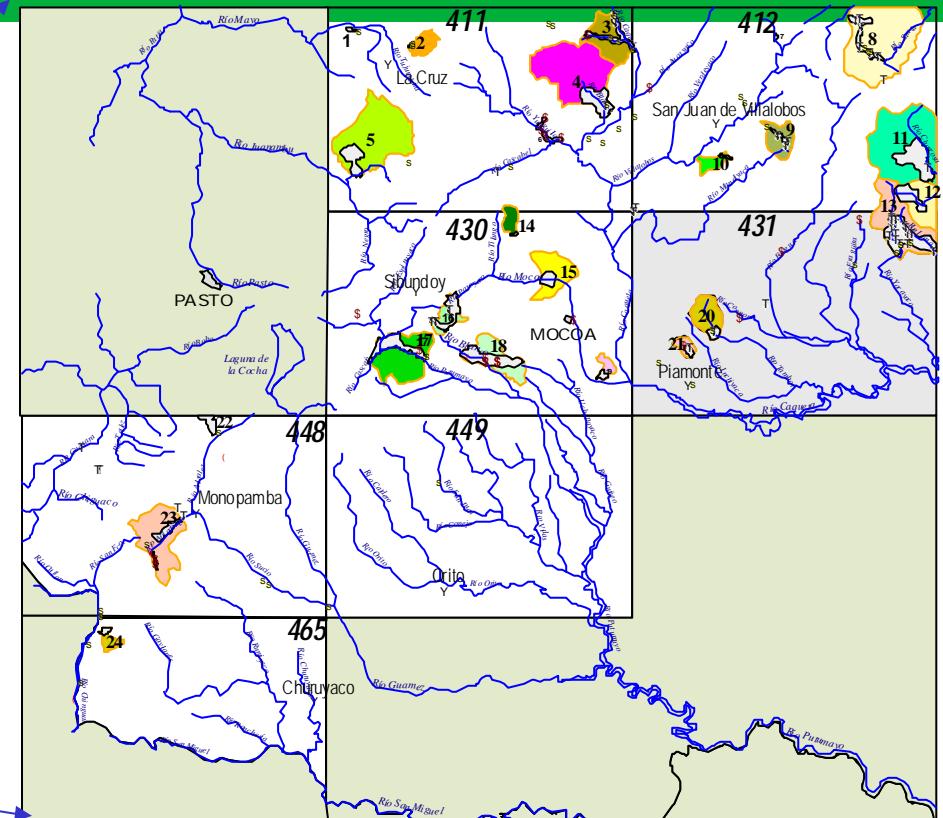
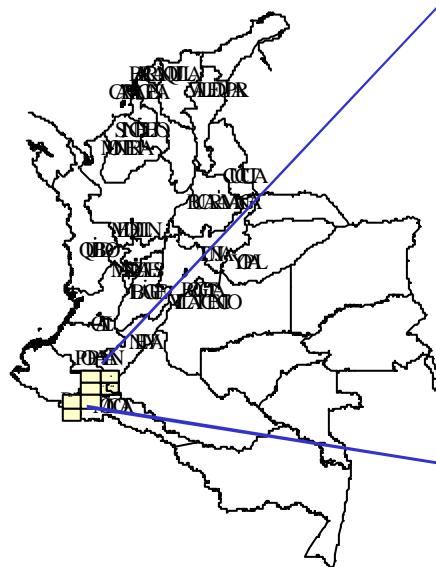
➤ 13 precious
➤ Gold mining, vein and alluvial
associated



Ministerio de Minas y Energía

República de Colombia

GEOLOGIC AND GEOCHEMICAL KNOWLEDGE AT THE SOUTH END OF THE CENTRAL AND WESTERN MOUNTAIN RANGES



➤ Geologic coverage 12,100 km², geochemical sampling of 24 zones with suspected presence of gold and basic metals

LEYENDA											
Cu	Cu, Zn, Mo; Au	Zn, Cu, Mo	AU (en sedimentos activos)								
Cu, Mn, Pb, Zn; Au.	Cu, Zn, Au.	Zn, Mn, Mo; >Ag, Au	# AU (en esquirlas de roca)								
Cu, Mn.	Cu, Zn; >Au, Ag	Zn, Mn; >Ag, Au.	T AG (en sedimentos activos)								
Cu, Mo, Mn, Zn.	Cu; Mo	Zn, Mo, Mn.	\$ AG (en esquirlas de roca)								
Cu, Mo, Zn; Ag.	Mo; Ag.	Zn, Mo, Mn; >Ag, Au									
Cu, Pb.	Pb, Zn, Mn.	Zn, Mo; >Ag									
Cu, Zn, Mn; Ag	Pb, Zn; Au.	ID	Plancha 431 Meta SIGOB-2003								

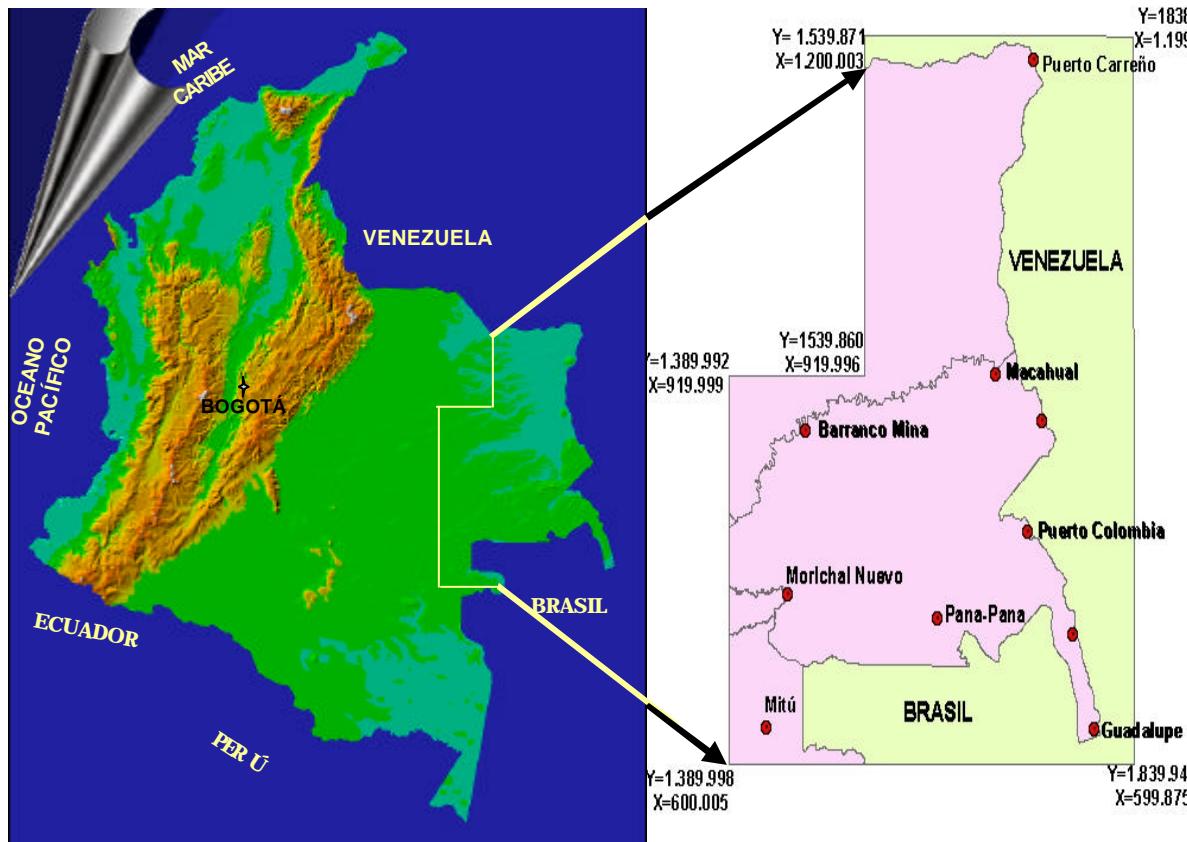


Ministerio de Minas y Energía

República de Colombia

POTENTIAL ZONES AT EASTERN COLOMBIA

INSTITUTO COLOMBIANO DE GEOLOGIA Y MINERIA - INGEOMINAS



PROYECTO ORIENTE COLOMBIANO

- Gold meta-agglomerates from Precambrian; gold in metapelites; quartz veins with gold; recent sand banks.
- Quartz veins with gold; very fine detrital gold in quartzite and recent sand banks.



Ministerio de Minas y Energía

República de Colombia

THANK YOU!!

CONTACT US:

WWW.INGEOMINAS.GOV.CO
anunez@ingeominas.gov.co