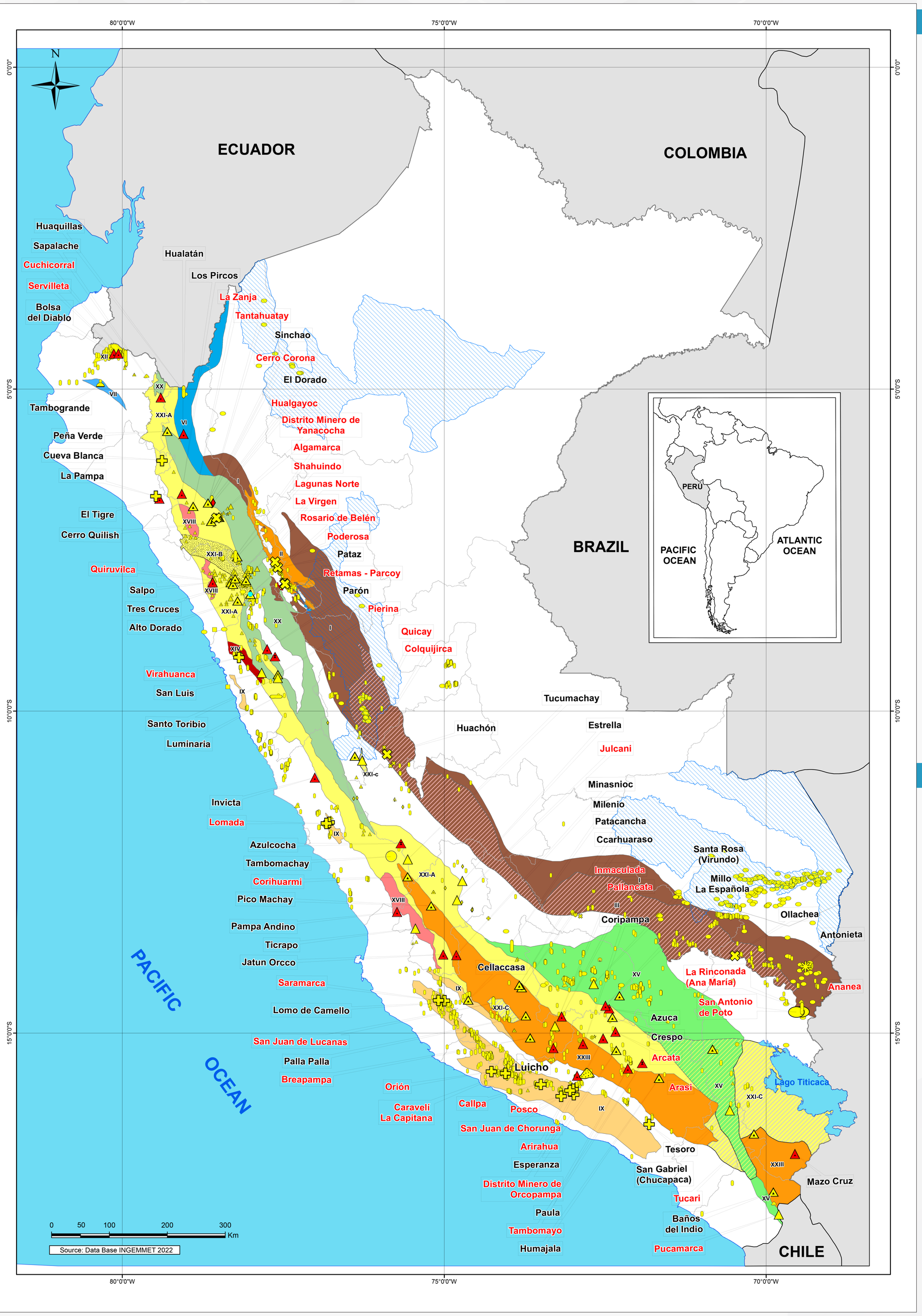
PERÚ Ministerio de Energía y Minas

GOLD METALLOGENIC MAP OF PERU: MINING OPERATIONS AND PROJECTS

SECTOR ENERGÍA Y MINAS
INGEMMET
INSTITUTO GEOLÓGICO, MINERO Y METALÚRGICO



METALLOGENIC BELTS

- XXIII — Miocene - Pliocene Au-Ag epithermal deposits
- XXI — Au-Ag epithermal Miocene deposits
- XXI-A — Au-Ag epithermal deposits hosted in volcanic rocks
- XXI-B — Au-Ag epithermal deposits hosted in sedimentary rocks
- XXI-C — Pb-Zn-Cu Polymetallic deposits with epithermal Au-Ag overlay
- XX — Miocene Cu- Mo- Au porphyry, Pb- Zn- Cu -Ag skarn and intrusion - related polymetallic deposits
- XVIII — Oligocene Au-Ag epithermal deposits
- XV — Cu-Mo (Au-Zn) porphyry-skarn and Eocene - ligocene intrusion - related Cu-Au-Fe deposits
- XIV — Eocene intrusion - related Au-Pb-Zn-Cu deposits
- XII — Upper Cretaceous-Paleocene Au-Ag epithermal deposits
- IX — Upper Cretaceous intrusion - related Au - Pb - Zn - Cu deposits
- VII — Upper Jurasic - Albian Volcanogenic Massive Sulphide Cu-Zn-Au deposits.
- VI — Upper Jurassic porphyry and Cu-Au skarns
- III — Li- U-W-Sn-Mo, Au-Cu-P b-Zn deposits related to Permian Triassic Cu-Ag intrusives and porphyry skarn
- II — Carboniferous - Permian orogenic Au - Pb - Zn - Cu deposits
- I — Au in Ordovician and Silurian - Devonian meta - sedimentary rocks

SYMBOLOGY OF TYPE OF DEPOSITS

Hydrothermal

- Epithermal deposits not differentiated
- High Sulfidation epithermal
- Low Sulfidation epithermal
- Intermediate Sulphidation epithermal
- Polymetallic deposit with epithermal overprint
- Skarn
- Orogenic Au-Pb-Zn-Cu deposits
- Intrusives-related Au (Pb-Zn-Cu) deposits

Hydrothermal Stratabounds

- Volcanogenic Massive Sulphide (VMS)

Exotic

- Placer
- Alluvial

Hydrothermal deposits without genetic classification

- Stratabound
- Vein
- Disseminated

* Graphical representation for different types of deposits by metallic association.

SYMBOLS

- Watershed favorable for gold in placer deposits.
- Mining unit status: Operation / Project

METALS

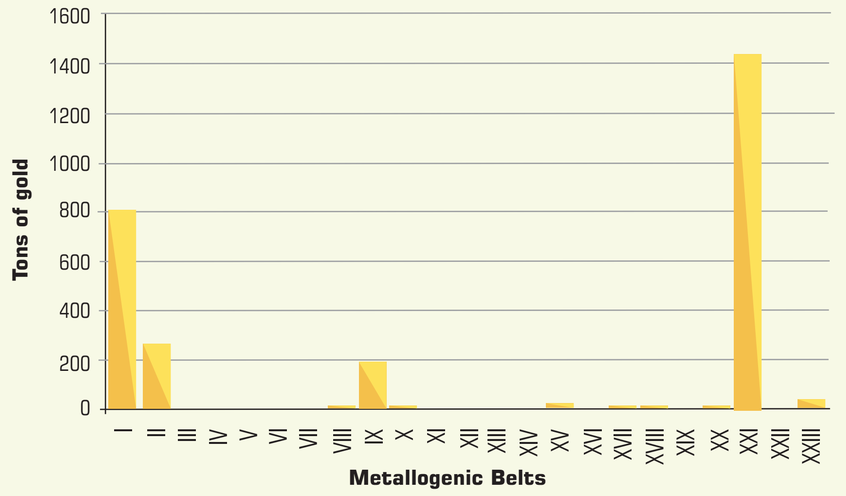
- Au-Ag
- Ag-Au

GOLD PRODUCTION FOR METALLOGENETIC BELT

The information used for the historical production of gold comes from mining yearbooks of the Ministry of Development, "El Perú Minero" by Mario Samamé Boggio and the Ministry of Energy and Mines, and unpublished reports. They all show that the historical production of gold has been 2,833 tons (91 million ounces), which ranges from pre-Hispanic to Republican times.

Regarding gold, we note that the greatest production comes from the XXI Miocene belt, which has produced more than 1,400 tons (> 45 million ounces). The other part of the production comes from Paleozoic belt I and II (Eastern Cordillera and the Pataz-Buldibuyo Batholith, respectively) and Cretaceous belt IX (Nazca-Ocoña: Coastal Batholith), which together have produced more than 1,200 tons of gold (> 38 million ounces).

GOLD PRODUCTION



Gold production for metallogenetic belts.

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