COLTAN AUXICO RESOURCES INC.











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>> WHAT IS COLTAN?

Definitions, mineralogy and deposits

Definitions and characteristics

Niobium (Nb) and tantalum (Ta) are transition metals with very similar physical and chemical properties, and are thus commonly grouped together (Table 1). Niobium was discovered in 1801 by Charles Hatchett, and was originally named 'columbium'; it was subsequently also recognised by a German chemist, Heinrich Rose, who named it 'niobium'. The names were used interchangeably for some time, before 'niobium' was finally accepted in 1949.

Tantalum was discovered in 1802 by a Swedish scientist, Anders Ekeberg.

Niobium is a shiny, ductile metal with a white lustre. Naturally-occurring niobium consists almost exclusively of the isotope 93Nb; natural tantalum is mainly 181Ta, with 0.012 per cent 180Ta. A number of other radioactive isotopes of both elements have been synthesised.

The overall abundances of niobium and tantalum in the average continental crust are relatively low, niobium having an abundance of eight parts per million (ppm) and tantalum of 0.7 ppm (Rudnick and Gao, 2004). Compared to other metallic elements such as the light rare earths, niobium and tantalum are rather depleted in the continental crust. This can be attributed to the fact that much of the continental crust was formed at convergent margins above subduction zones, and that magmas formed in this setting are typically depleted in both niobium and tantalum.







AUXICO - COLTAN IN SITU VALUES

AUXICO RESOURCES CANADA INC. SAMPLE RESULTS AND ECONOMICS FROM COLOMBIA AND VENEZUELA						
Sample V - M-8355_1	kg Ta	kg Nb	kg Sc	kg Sn	kg TiO2	TOTAL
Grade (in kg)	79,70	23,60	3,20	720,80	45,40	
Market Prices (USD per kg)	\$186	\$50	\$4.000	\$19	\$1,7	
In situ value (USD)	\$14.824	\$1.180	\$12.800	\$13.695	\$77	\$42.577
Sample C - M-8355_2	kg Ta	kg Nb	kg Sc	kg Sn	kg TiO2	TOTAL
Grade (in kg)	10,30	37,80	0,00	0,00	490,20	
Market Prices (USD per kg)	\$186	\$50	\$4.000	\$19	\$1,7	
In situ value (USD)	\$1.916	\$1.890	\$0	\$0	\$833	\$4.639
Sample C - M-8355_12	kg Ta	kg Nb	kg Sc	kg Sn	kg TiO2	TOTAL
Grade (in kg)	356,60	75,70	6,20	82,90	239,30	
Market Prices (USD per kg)	\$186	\$50	\$4.000	\$19	\$1,7	
In situ value (USD)	\$66.328	\$3.785	\$24.800	\$1.575	\$407	\$96.895
Sample V - M-8355_234	kg Ta	kg Nb	kg Sc	kg Sn	kg TiO2	TOTAL
Grade (in kg)	266,60	77,00	4,20	53,50	233,20	
Market Prices (USD per kg)	\$186	\$50	\$4.000	\$19	\$1,7	
In situ value (USD)	\$49.588	\$3.850	\$16.800	\$1.017	\$396	\$71.651
Sample C - M-8246_7	kg Ta	kg Nb	kg Sc	kg Sn	kg TiO2	TOTAL
Grade (in kg)	351,50	396,30	0,00	0,00	39,20	
Market Prices (USD per kg)	\$186	\$50	\$4.000	\$19	\$1,7	
In situ value (USD)	\$65.379	\$19.815	\$0	\$0	\$67	\$85.261
Sample C - M-8246_8	kg Ta	kg Nb	kg Sc	kg Sn	kg TiO2	TOTAL
Grade (in kg)	311,40	369,90	0,00	0,00	33,30	
Market Prices (USD per kg)	\$186	\$50	\$4.000	\$19	\$1,7	
In situ value (USD)	\$57.920	\$18.495	\$0	\$0	\$57	\$76.472

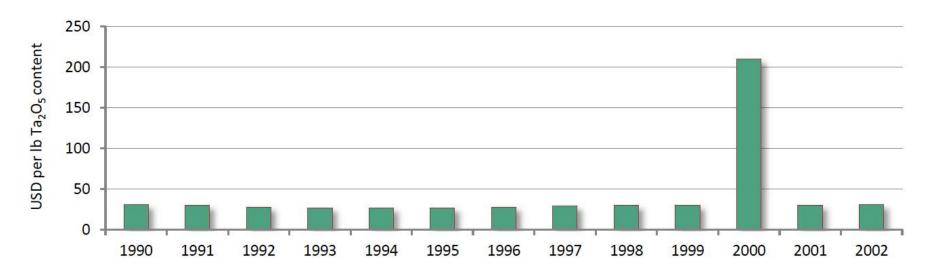




>>> FROM COLTAN TO CAPACITORS

The more valuable metal in the coltan ore is Tantalum (Ta), with demand having grown at around 5 % per annum since 1990. There was a spike in prices during the last phase of the dot-com boom, which drew attention to coltan mining in eastern DRC (see Figure 1).

Figure 1: Average year-end prices for Tantalite

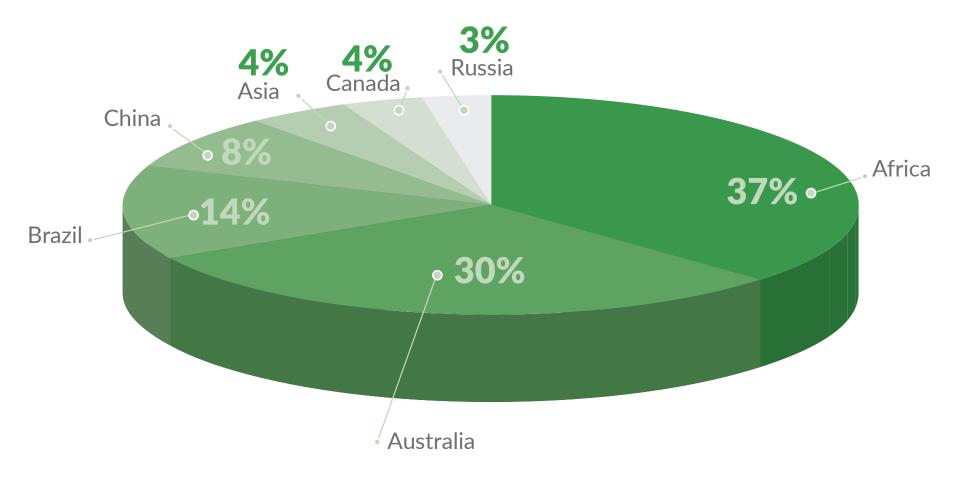


Primary production of tantalum in 2008 was 4.3 million lbs of Ta2O5 (see Figure 2), with a further 1.7 million lbs obtained from scrap and tin slag, to meet total demand of 6.0 million lbs. Reserves are distributed somewhat differently from production, reflecting the costs of extraction. It is estimated there are several decades of production in the ground, depending on the market price, the extraction and processing costs, and the levels of recycling.



>>> FROM COLTAN TO CAPACITORS

Figure 2: Tantalum primary production in 2008



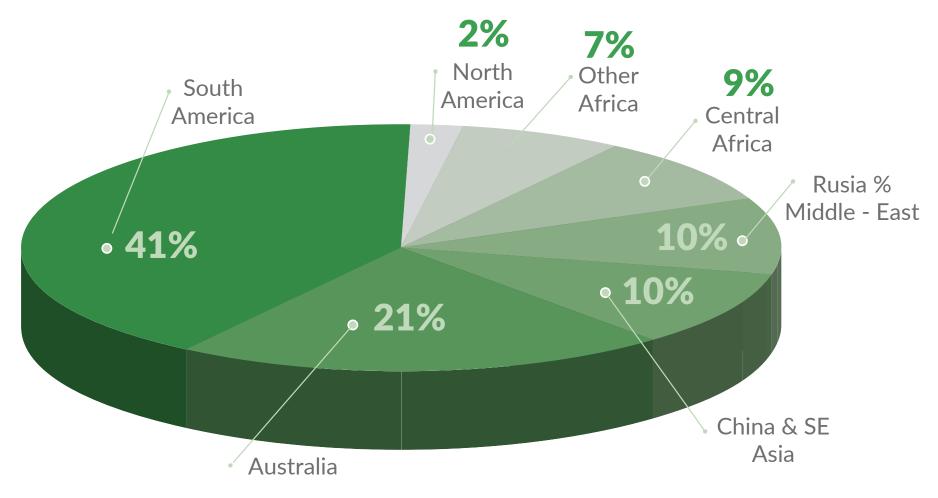
(Source: Talison)





>>> FROM COLTAN TO CAPACITORS

Figure 3: Estimated world reserves (698 million lbs Ta)



(Source: TIC)





>>> TANTALITE ORE PRICE

185 USD/ kg (•31 May - 2018)

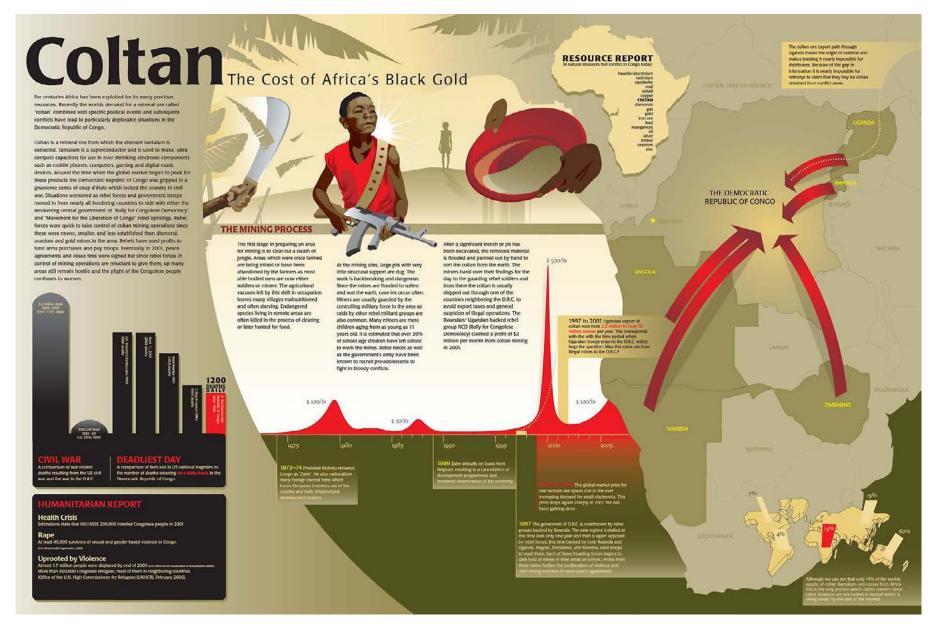






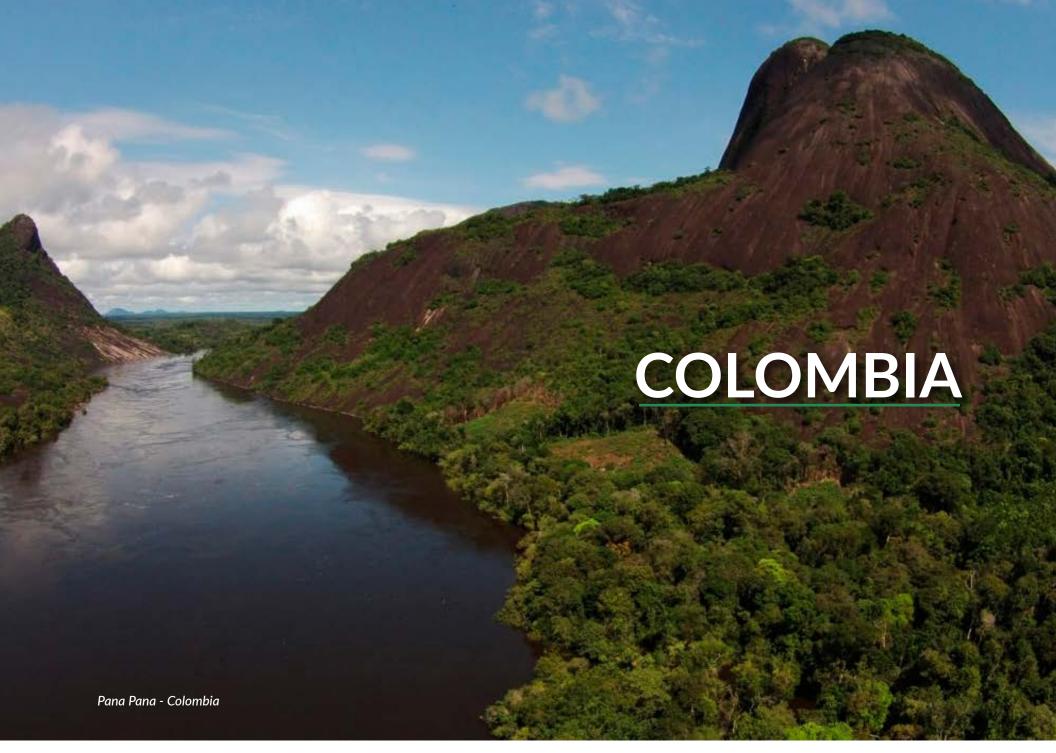


>>> CHALLENGES WITH CONFLICT MINERALS















>>> POTENTIAL INVESTMENT AREAS















A NEW COLUMBITE-TANTALITE FRONTIER?

Venezuela has vast proven oil and gas reserves and for most of the twentieth century it was a major oil exporter and leading member of the Organization of the Petroleum Exporting Countries (OPEC). However, as with the United Arab Emirates and Saudi Arabia. Venezuela is said to be conscious of the need to diversify its economy away from a dependency on oil revenues and so has started paying more attention to its other natural resources, including tantalitecolumbite ('coltan') minerals. In Venezuela economic diversification has been made all the more urgent by falling oil production at the state-owned producer Petróleos de Venezuela S.A. (PDVSA) over the last decade, combined with high domestic inflation1 of the Venezuelan bolívar.

In 2016 the Venezuelan government under President Nicolás Maduro made three major policy changes to the mining sector:

- In January it launched the Bolivarian Economic Agenda ▲ which includes a 'Mining Engine' with the explicit goal of realising the economic potential of its mineral resources.
- In February it created the Arco Minero del Orinoco (AMO) 2. (in English the Orinoco Mining Belt or Arc) in Bolivar State as a National Strategic Development Zone for mining. This territory is said to represent 12% of all of Venezuela's government-owned land and will be the focus for new mining activity. Note that within each of the four areas exist many legally-protected environmental and indigenous territories.
- In June governance of mining was taken away from the oil In June governance or mining was taken and, and installed at the newly formed Ministry of People's in the new Ministry of Power for Ecological Mining Development (MPPDME, in Spanish2).



"Coltan Country", the Parguaza River, Bolivar State, Venezuela

The new mining opportunities are open to private, public and mixed companies, as well as the participation of small-scale mining.

Under the new policy, all exploitation of mineral resources must be done to the highest standards of environmental harmony and human rights, which is appropriate for a territory with incredible biodiversity and many protected indigenous populations.





>> THE ARCO MINERO DEL ORINOCO (AMO)

The Arco Minero del Orinoco is located south of the Orinoco River, in the northern part of the state of Bolivar. It has a total area of 111,844 km2, organized internally in four areas for the purpose of development and administrative organization.

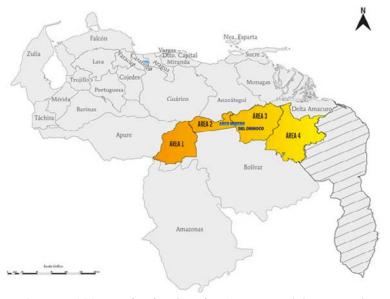
However, it is said that only 5% of the AMO will experience exploration and exploitation activities, and just 1.5% will experience mining activity once the exploration stage is completed. Of the four areas, columbite-tantalite minerals are mostly concentrated in Area 1, the most westerly of the four, close to the border with Colombia, but have also been found in Area 3 and Area 4.

Tantalum and niobium in Venezuela

Niobium, tantalum and tin minerals in Venezuela constitute the classic columbite-tantalite (coltan) (columbite-tantalita, in Spanish) mineralizations associated with granitic and pegmatitic complexes. The northeast zone of the Amazonas state and the southwestern region of the municipality of Cedeño, Bolívar state, constitute one of the most interesting metallogenic areas of niobium and tantalum in the country.

Currently, there is no determination of the reserves of columbite and tantalite (coltan), but previous studies carried out by the National Institute of Geology and Mining (Ingeomin) have defined the following deposits of columbitetantalite with the objective of carrying out prospecting and exploration activities for their subsequent certification of reserves:

- Aguamena- Boquerones-Villacoa sector,
- Cerro Impacto,
- Guaniamo.
- Cuao River sector.
- Cerro Delgado Chalbaud (Black River).



A map of Venezuela showing the four new mining areas in the Arco Minero del Orinoco; inset: South America showing Venezuela (orange) (Images: MPPDME, Google Maps)





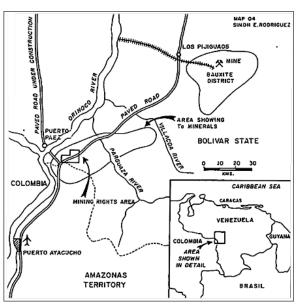


A NOTE FROM THE T.I.C. ARCHIVES REGARDING VENEZUELAN COLUMBITE-TANTALITE

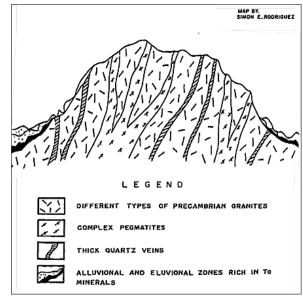
In Bulletins #52 (November 1987)3 and #67 (September 1991)4 Dr Simon E. Rodriguez, then of the Geological Survey of Venezuela (forerunner to Ingeomin), wrote about a large granitic formation located in the western-most part of Bolivar State, that had shown an important Ta-Sn-Nb mineralization in numerous large complex pegmatites. The geomorphology of this area is characterized by large plains, consisting of savannas and smooth hills. Pegmatites had been found in some hills and in addition secondary eluvial deposits located near the pegmatite bodies showed high concentrations of Ta-Sn-Nb minerals. Initial tests on the ore of the Parguaza Ta-Sn-Nb district produced a concentrate with a Ta205 content ranging between 25 and 42 per cent. It is worth noting that Dr Rodriguez's map (see below) and OMB Area 1 show a very close approximation.

In 2010/11 these pegmatites were explored again5, this time by a team of geologists from Venezuela's Central and Oriente Universities and state-owned mining group CVG Bauxilum. Of their 39 samples 8 were confirmed to contain columbite and tantalite minerals, including struverite, ferrowodginite, titan-wodginite, and ferrocolumbite. Minerals containing rare earths, titanium and tin were also recorded.





The tantalum district of south western Venezuela, near the confluence of the Paraguaza River with the Orinoco River (credit: Dr Rodriguez)



A generalised cross section of mineralized areas in the Parguaza Region (credit: Dr Rodriguez)







CAN SIGNED A JOIN VENTURE AGREEMENT WITH AUXICO

CAN's Technology – Ultrasound Assisted Extraction (UAE): CAN has developed a patent pending technology for the production of energy metals within 1 hour, under ambient temperature and without the use of pressure. Tests conducted by 3 separate labs on material originating from Guatemala, Cuba, Dominican Republic, USA, Burundi and Ivory Coast, have resulted in the recovery of more than 95% of nickel, cobalt, manganese and scandium within only one hour, under ambient temperature and without the use of pressure. In addition, vanadium, titanium, copper and iron, can also be recovered within an hour with an 80% recovery.

This process will dramatically reduce capital and operating cost and give CAN a major competitive advantage, as most known metallurgical processes that use sulfuric acid, cyanide or hydrochloric acid do so in a 24-hour cycle.





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