



# Mining in Africa: A Canadian Perspective

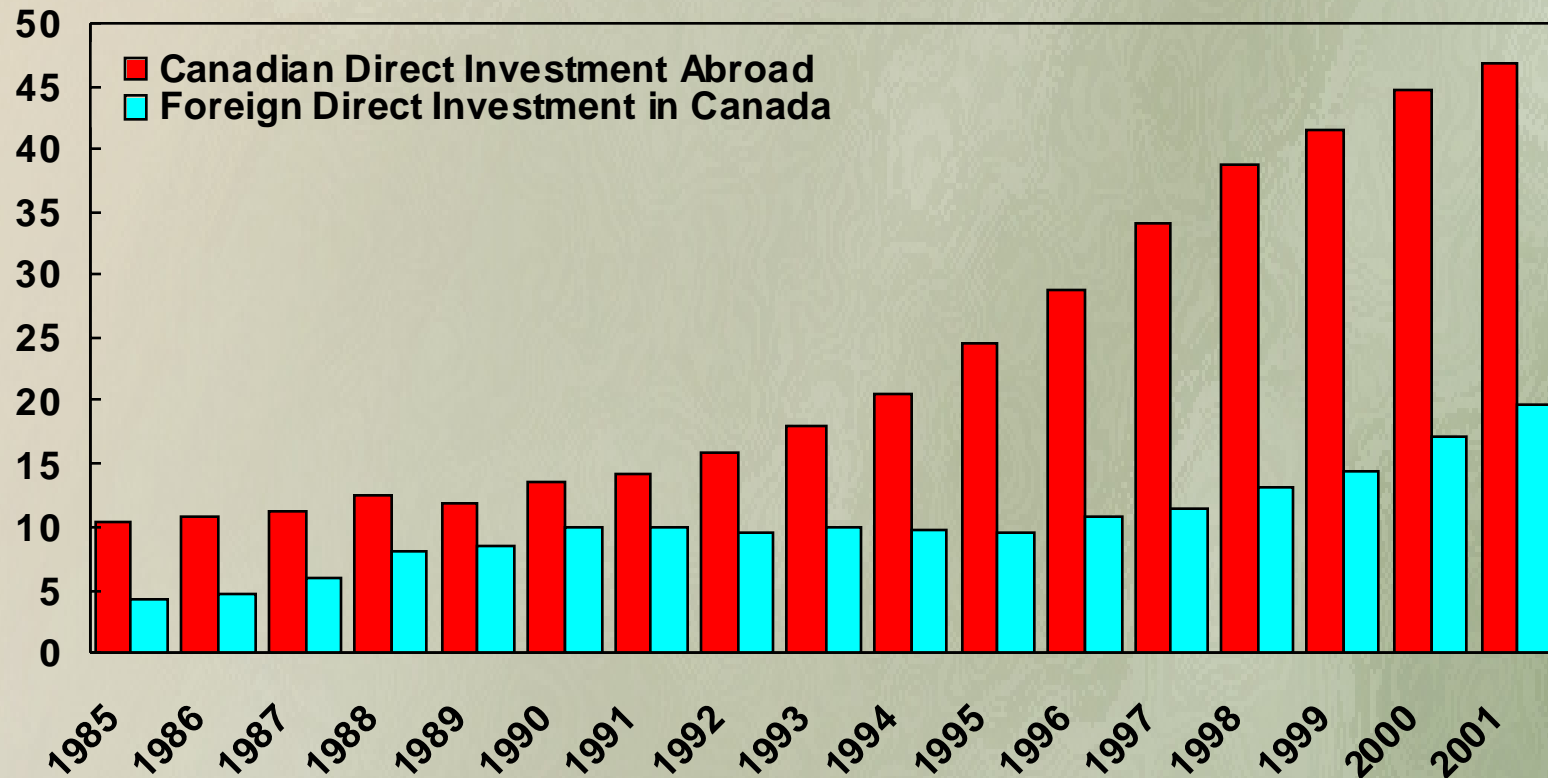
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# Investment Stocks - Metallic Minerals and Metal Products



Billions of Canadian dollars

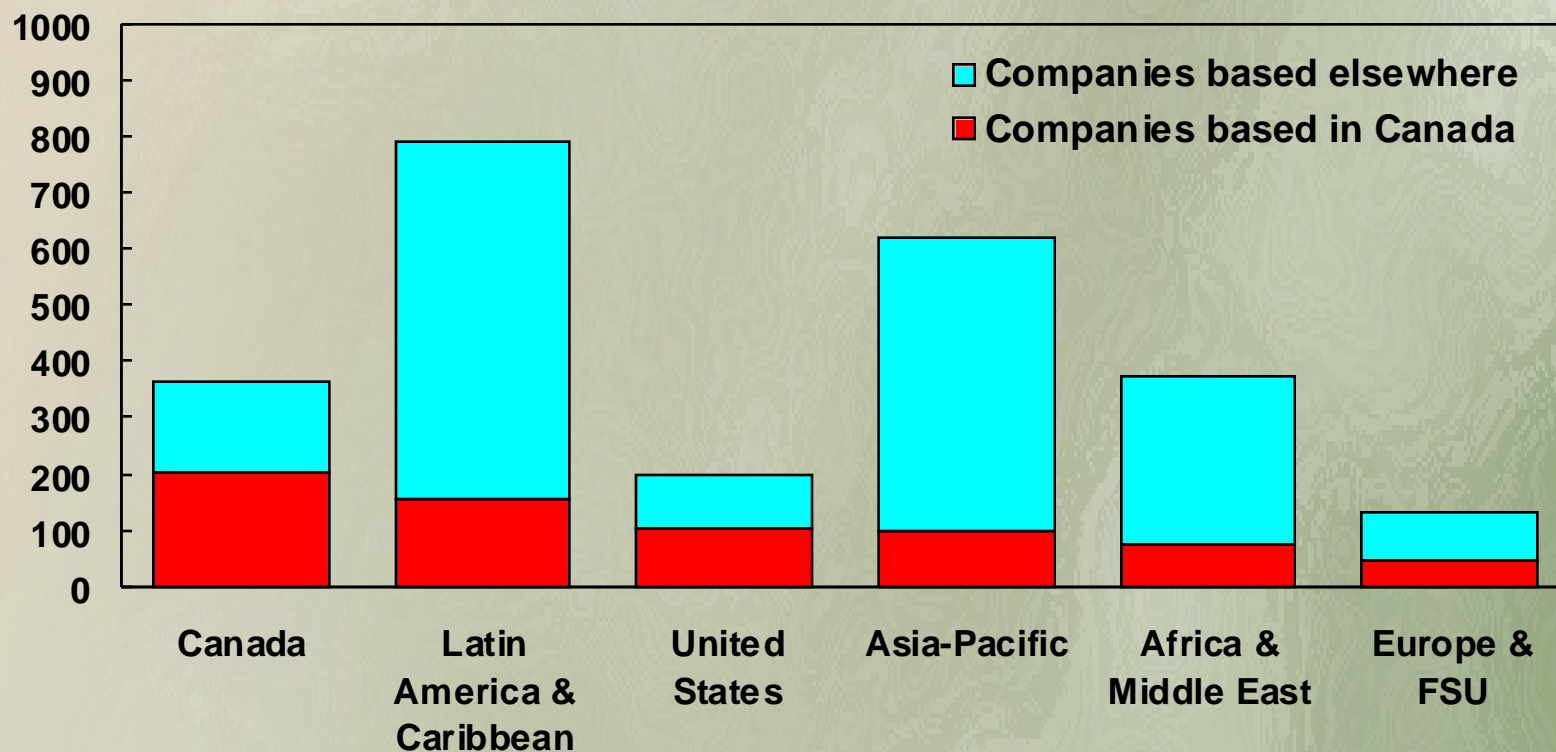


Source: Statistics Canada.

# Exploration Budgets\* of Larger Companies for Selected Regions, 2001



Millions of dollars



\* Base metals, precious metals and diamonds. Companies that intended to spend less than \$4.6 million (US\$3 million) annually are excluded.

Source: NRCan, based on Metals Economics Group's *Corporate Exploration Strategies: A Worldwide Analysis*.

# Canada and Africa 2000



**Land mass**  
(thousands of km<sup>2</sup>)

9,971

29,986

**Population**

31 million

797 million

**Population Density**  
(individuals per sq. km.)

3

26

**Gross National Income**

US\$649.8  
billion

US\$496.7 billion

**GNI per Capita**

US\$21,130

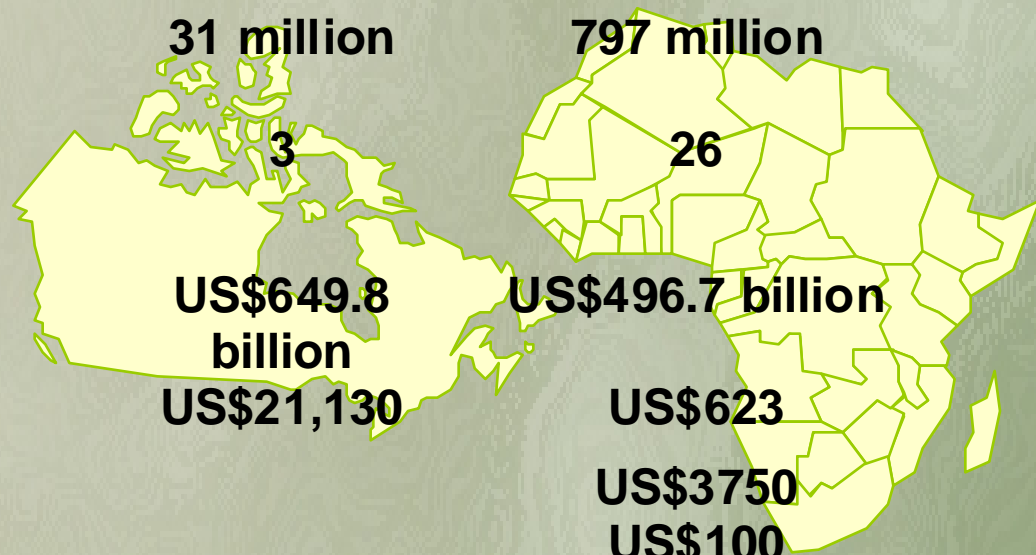
US\$623

**High (Mauritius)**

US\$3750

**Low (Ethiopia)**

US\$100



Source: World Bank.



Natural Resources  
Canada

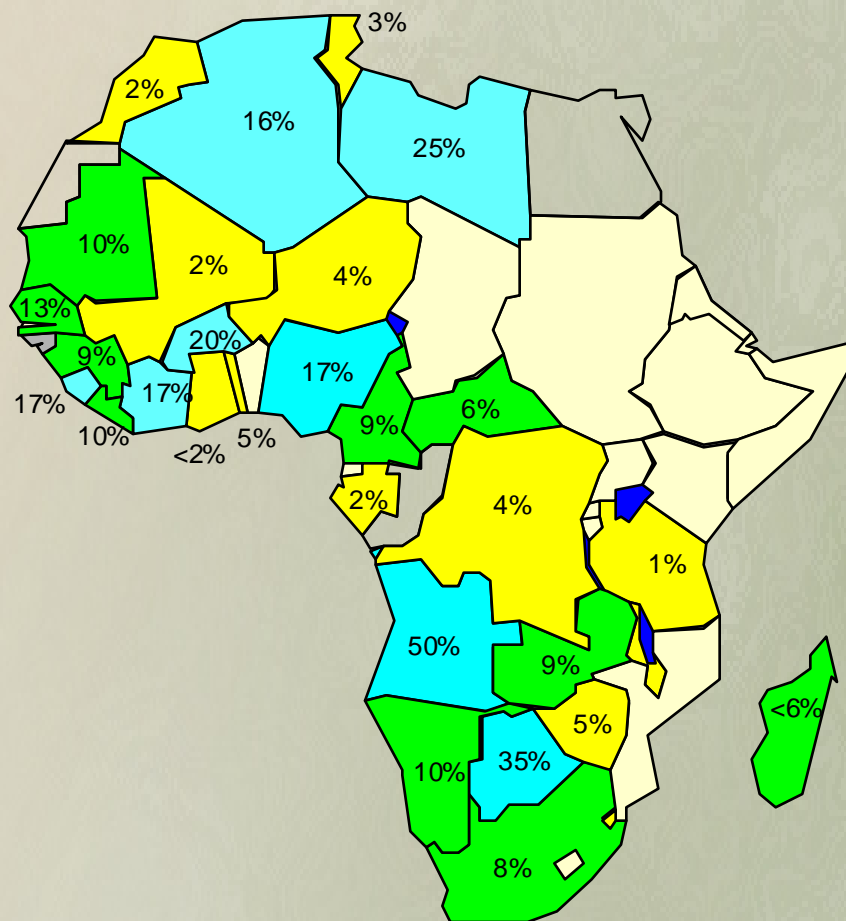
Ressources naturelles  
Canada

Canada

# Africa



# Mining as a Percentage of Gross Domestic Product in Africa

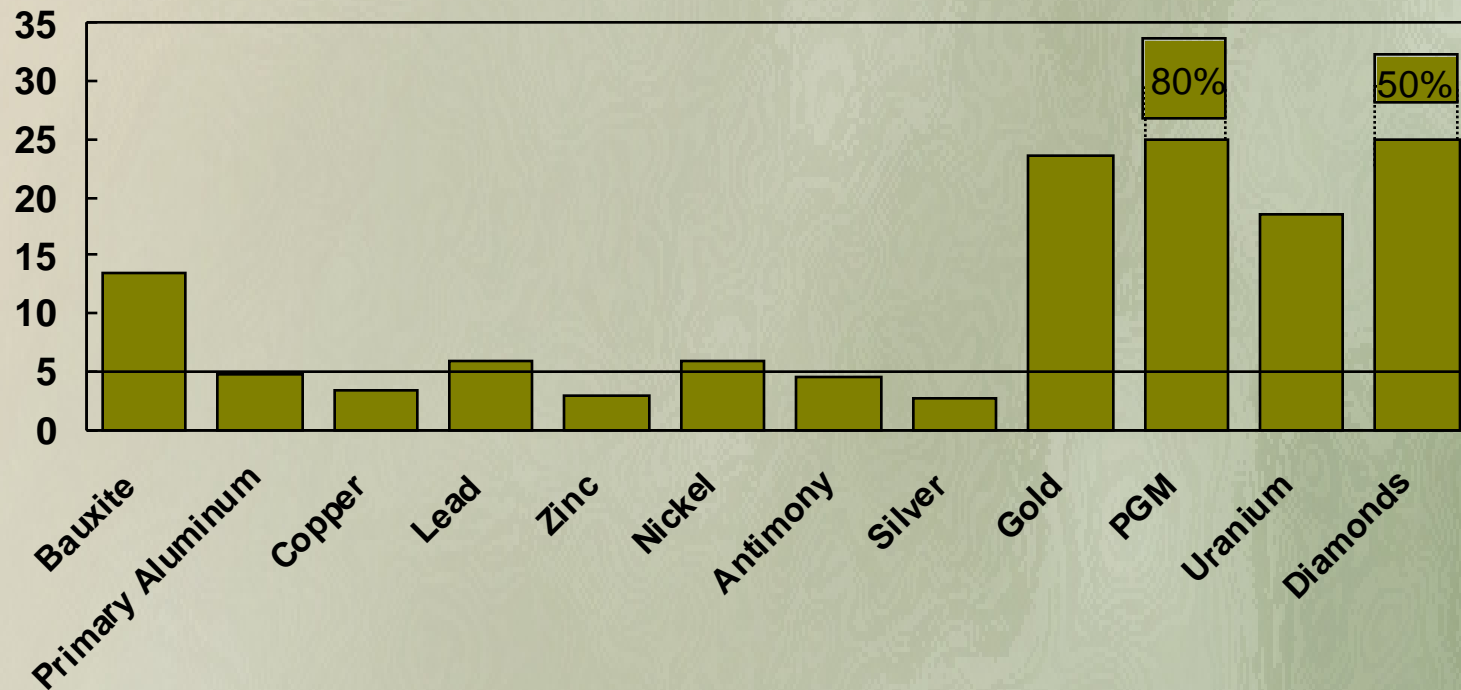


**Percentage**  
 More than 15  
 Between 5-15  
 1 to 5  
 Less than 1



Source: *Investing in Africa*, Mining Journal, January 22, 1999.

# Africa's Share of World Production, Selected Metals, 2000



Sources: World Nonferrous Metal Statistics, USGS.

# Africa's Known Mineral Wealth: 30% of the World's Proven Reserves



• Platinum Group Metals	89%	• Bauxite	30%
• Chromium	81%	• Vanadium	30%
• Manganese	61%	• Titanium	24%
• Cobalt	60%	• Tantalum	20%
• Zirconium	46%	• Copper	9%
• Gold	<40%		

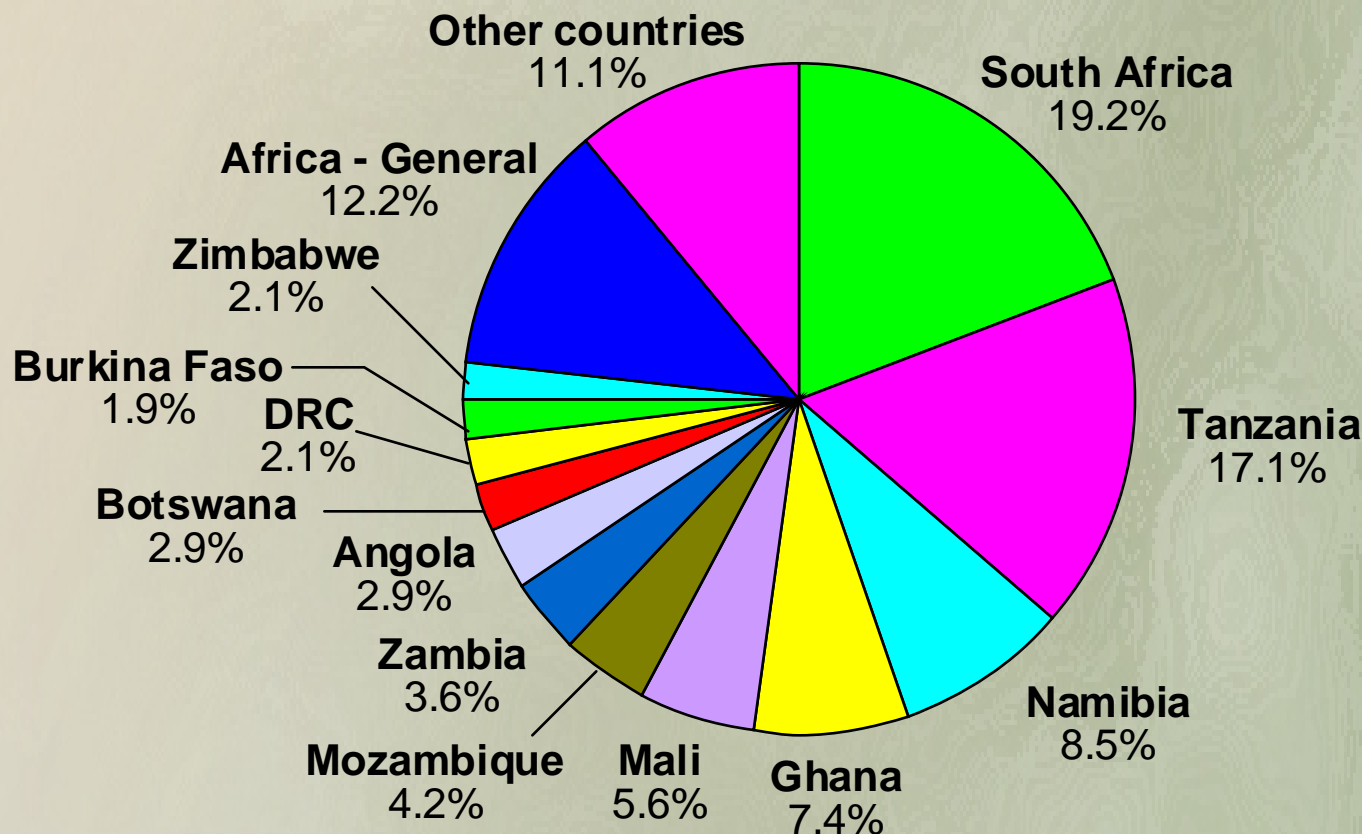
Source: *African Renaissance*, Mining Journal, January 26, 2001.



# Exploration Budgets for Africa 2001



**100 Companies**  
**US\$276.9 Million**

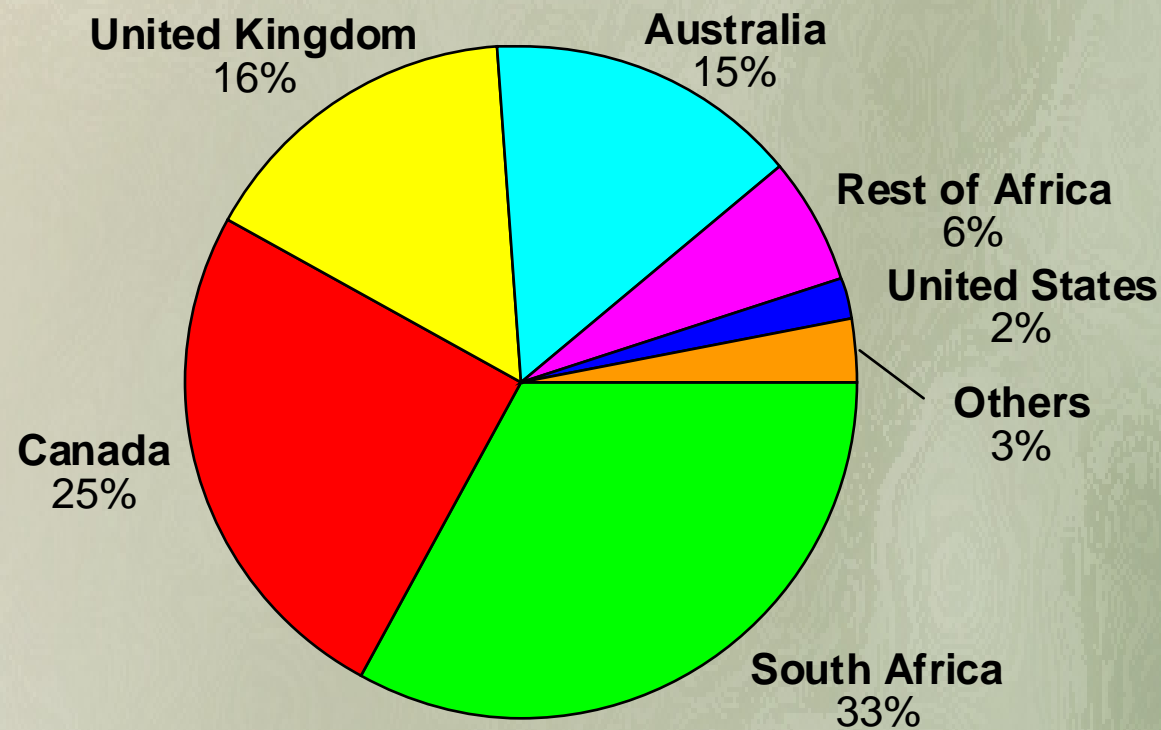


Source: NRCan, based on Metals Economics Group's *Corporate Exploration Strategies: A Worldwide Analysis*.

# Exploration Budgets for Africa, By Country of Origin, 2001

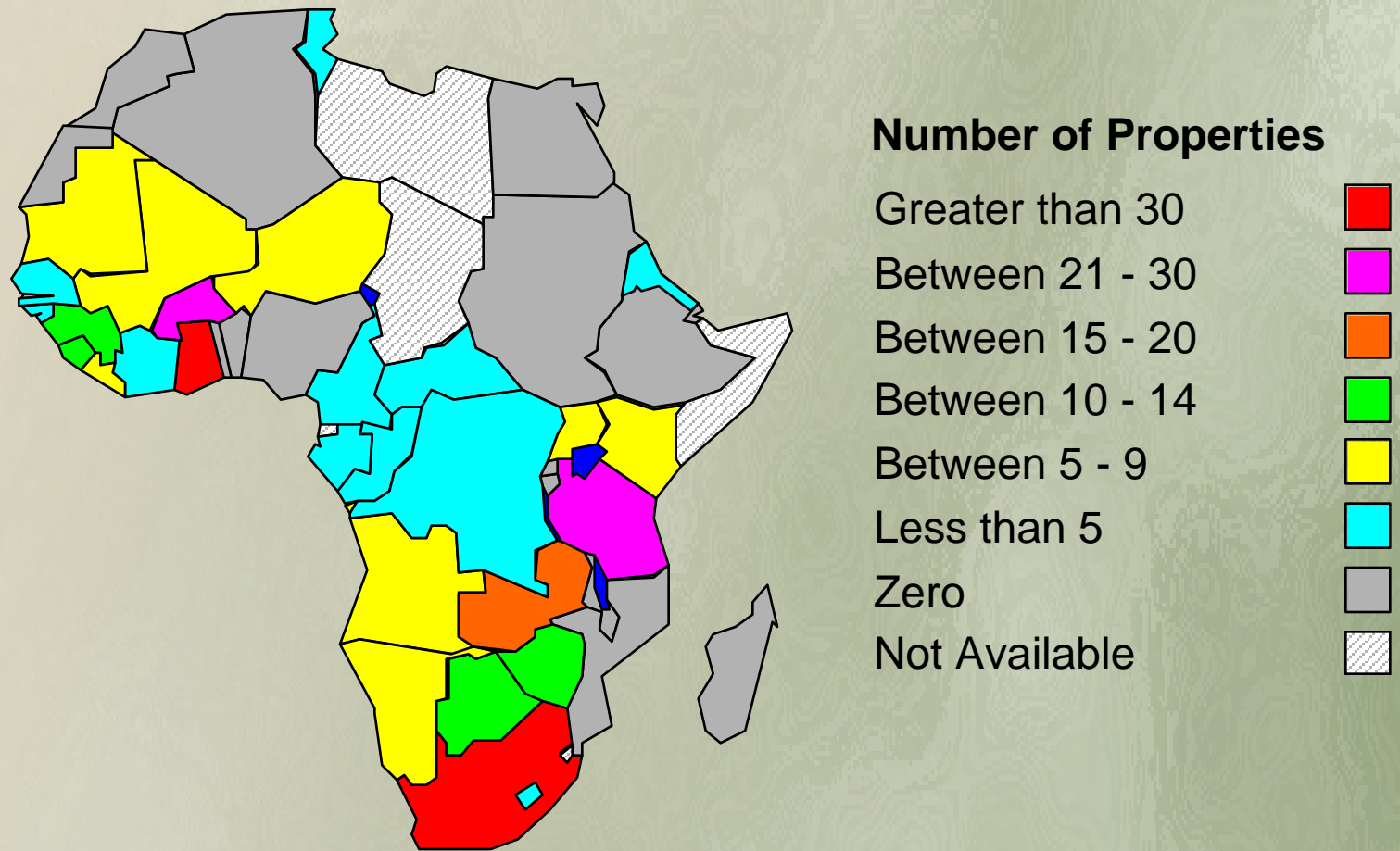


**100 Companies**  
**US\$276.9 Million**



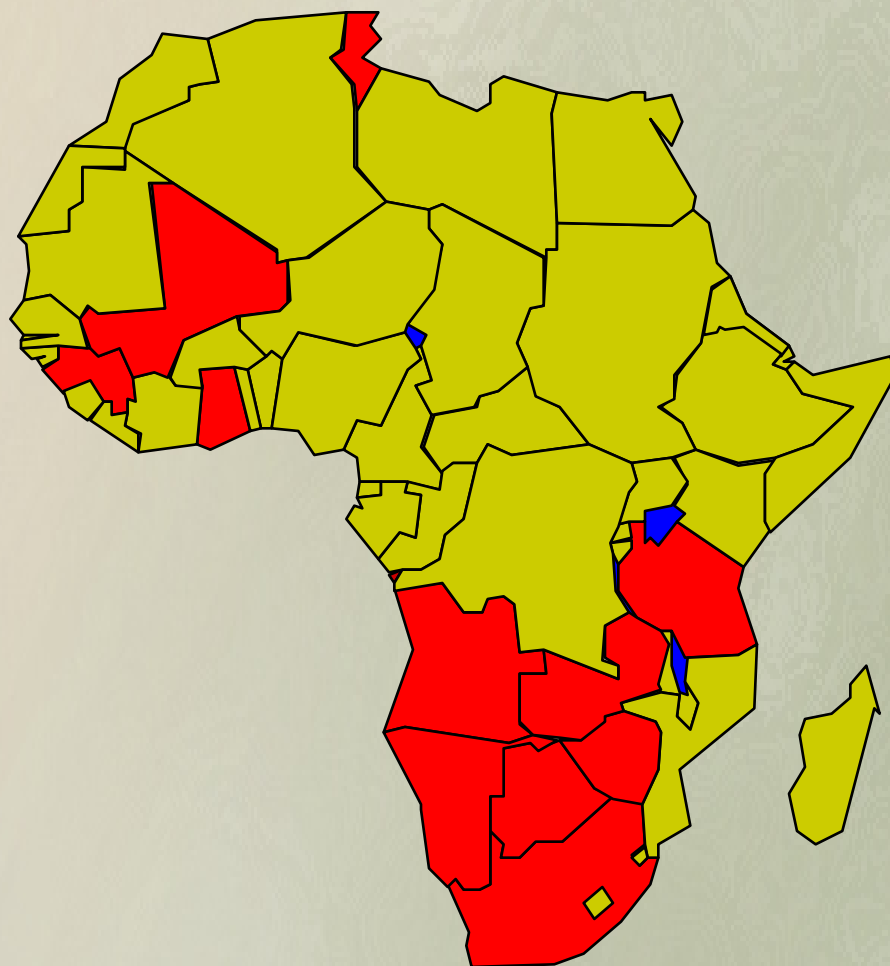
Source: NRCan, based on Metals Economics Group's *Corporate Exploration Strategies: A Worldwide Analysis*.

# Mineral Property Portfolios of Canadian-Based Companies in Africa, 2001



Sources: NRCan; Robertson InfoMINE, and used under licence.

# Operating Mines in Africa with a Major\* Canadian Interest, 2001



## Country: Commodity (# of Mines)

Angola:	Diamonds (2)
Botswana:	Ni-Cu (2)
Ghana:	Au (2); Bauxite (1)
Guinea:	Diamonds (1)
Mali:	Au (2)
Namibia:	Diamonds (1)
South Africa:	Au-U (1); Zn-Cu (1); Cu (1); Mn (1); Sb-Au (1); Diamonds (6); Coal (1); Fluorite (1)
Tanzania:	Au (1)
Tunisia:	Zn-Pb (1)
Zambia:	Cu (3); Cu-Co (2)
Zimbabwe:	Au (2)

\* = An interest of greater than 30%.

Sources: NRCan; Robertson InfoMINE, and used under licence.