

**Boris
Verbrugge**



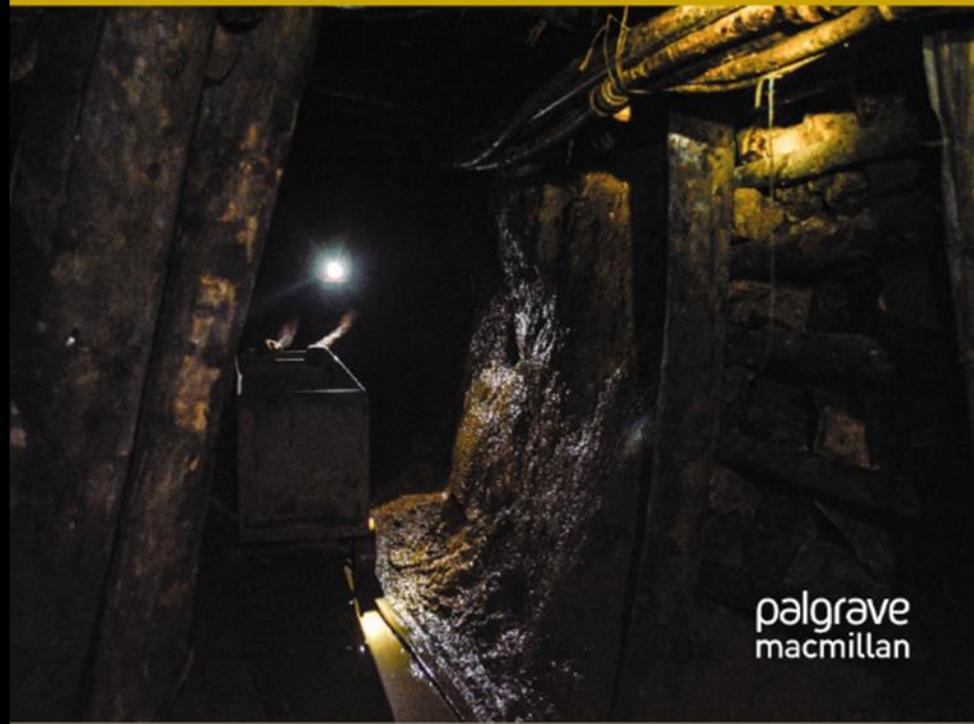
**Sara
Geenen**



Global Gold Production Touching Ground

Expansion, Informalization,
and Technological Innovation

Edited by Boris Verbrugge · Sara Geenen



palgrave
macmillan





PROJEK PAM
DMM

EVER FLEX



A dual gold
mining
economy?





Diversity
&
Connectivity





Source:

<https://www.ft.com/content/d4d5ca52-6a9c-11e4-bfb4-00144feabdc0>

**Increased demand &
Rising prices**

All Data Gold Price in USD/oz



Systemic challenges

- Resistance
- Scarcity
- Costs

RESISTANCE
CANADIAN
MINING

https://www.vice.com/en_ca/article/5gqjp3/meet-the-woman-taking-on-canadian-mining-companies

Allan Lissn

A landscape of rolling green hills under a clear blue sky. In the foreground, there's a rocky, light-colored slope with some sparse vegetation. A large black hexagonal shape is overlaid on the right side of the image, containing white text. To the right of this main hexagon is a smaller solid black hexagon. Below the main hexagon is another black hexagon with a white outline, which is partially overlapping the bottom edge of the main hexagon.

Systemic responses

- Global expansion
- Informalization
- Technological innovation

Indonesia: Adaptation and Differentiation in Informal Gold Mining

Matt Libassi



Ghana: A History of Expansion and Contraction

Robert Pijpers



The background image shows a dimly lit industrial or underground environment. On the left, a person is partially visible, illuminated by a bright light source, possibly a headlamp. The scene is filled with dark, textured surfaces, possibly rock or metal, and some pipes or cables are visible at the top. A large, solid black hexagon is overlaid on the right side of the image, containing the text. To the right of this hexagon, there are three smaller, semi-transparent hexagonal shapes arranged in a cluster.

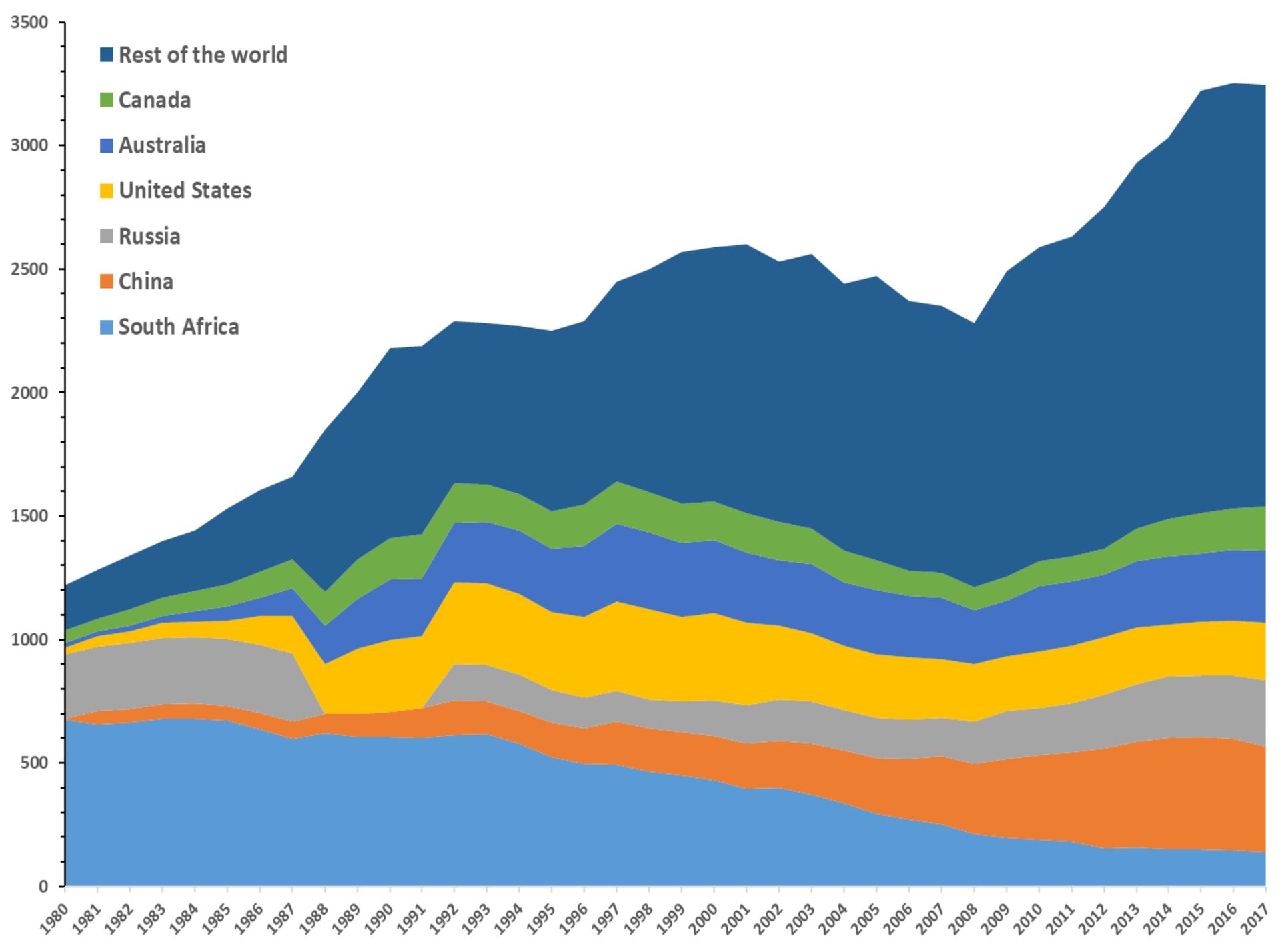
Global Expansion Chapter 3



Source:
<https://publishing.cdlib.org/ucpressebooks/view?docId=ft758007r3&chunk.id=d0e5034&toc.depth=1&toc.id=d0e5034&brand=ucpress>



Source: <http://www.miningartifacts.org/South-African-Mines.html>



The rest of the world?

China	426.1	Kazakhstan	55.1
Australia	295	Mali	52.2
Russia	270.7	Colombia	50.6
United States	230	Tanzania	49.1
Canada	175.8	Burkina Faso	49.1
Peru	162.3	Philippines	47.9
Indonesia	154.3	Chile	35.9
South Africa	139.9	Dominican Republic	35.3
Mexico	130.5	Suriname	33.4
Ghana	101.7	Turkey	26.1
Uzbekistan	84.9	Venezuela	25.4
Brazil	79.9	Zimbabwe	23.3
Papua New Guinea	61.9	Côte d'Ivoire	22.7
Argentina	61	Guinea	22.4
Dem. Rep. of the Congo	60.1	Guyana	20.4

Source Thomson Reuters (2018)

Ghana: Controversy, Corruption, and Chinese Miners

Gordon Crawford, Gabriel Botchwey



Uganda: Gold as a (Trans)National Treasure

Eleanor Fisher, Lorenzo D'Angelo,
Ronald Twongyirwe, Esther van de Camp





Informalization
chapter 4

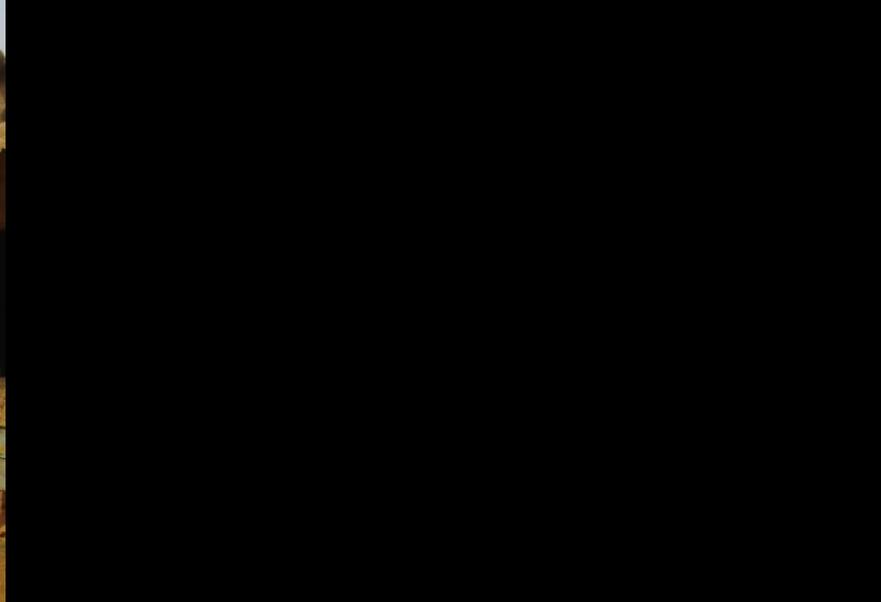


**Outsourcing and subcontracting
in LSGM**

The expansion of informal ASGM

China	426.1	Kazakhstan	55.1
Australia	295	Mali	52.2
Russia	270.7	Colombia	50.6
United States	230	Tanzania	49.1
Canada	175.8	Burkina Faso	49.1
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Dem. Rep. of the Congo	60.1	Guyana	20.4

Source Thomson Reuters (2018)



Resistance

Brazil: Forever Informal

Marjo de Theije



Burkina Faso: Global Gold Expansion and Local Terrains

Sabine Luning



Scarcity



Costs



The Democratic Republic of Congo: From Stones in the River to Diving for Dollars

Sara Geenen, Simon Marijsse



Colombia: Legal Loopholes Behind Illegal Gold Trade

Maria Eugenia Robles Mengoa,
Alexandra Uran

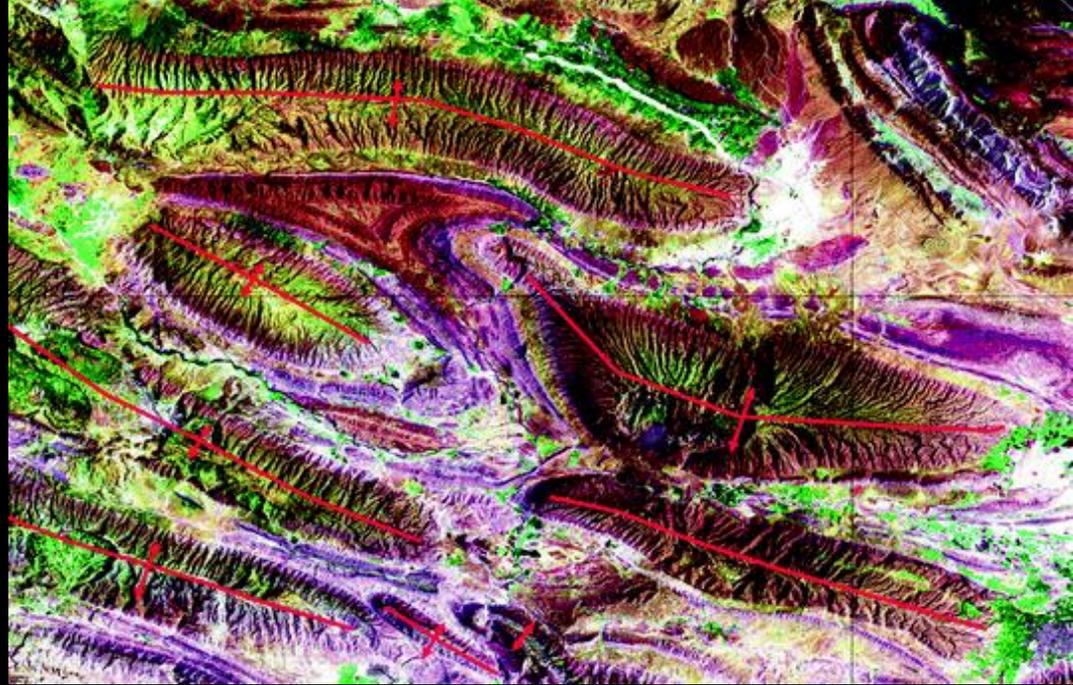




Technological
innovation
chapter 5

Exploration

Source: Roonwal G.S. (2018) Remote Sensing in Mineral Exploration. In: Mineral Exploration: Practical Application. Springer, Singapore.



Source: www.volgold.com



Mining



Witwatersrand C.M. Co.

R. E. S.
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Source: <http://www.miningartifacts.org/South-African-Mines.html>



Source:
<http://www.miningartifacts.org/South-African-Mines.html>

Mining

Source: Massaro & De Theije, 2018



Sale to Zimbabwe Gold Mining Diesel Mobile Piston Air Compressor W-3.2/7
Small Mobile Piston Air Compressor

FOB Reference Price: [Get Latest Price](#)

250,00 US\$ - 1.100,00 US\$ / Set | 1 Set/Sets (Min. Order)

10% OFF Product value more than \$5,000.00, Capped at \$2... [Get Coupon](#) ▾

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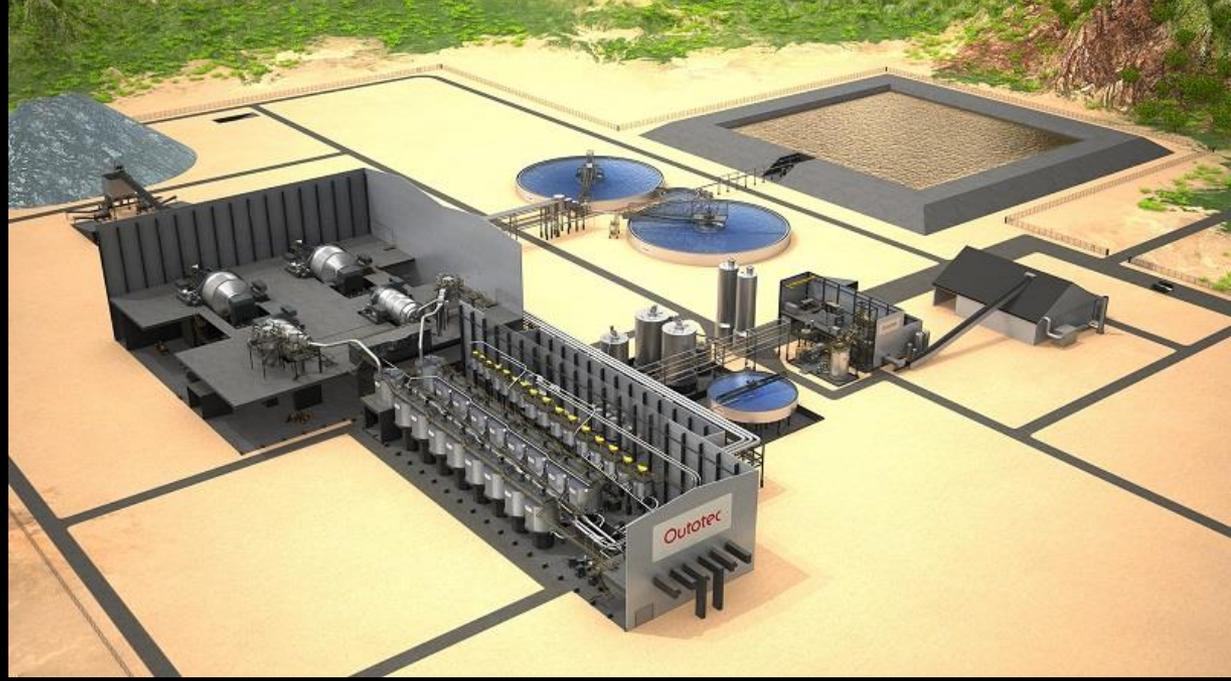


Model Number:

Lead Time:

Quantity(Sets)	1 - 1	>1
Est. Time(days)	10	Negotiable

Processing



Source: <https://www.mining-technology.com/contractors/filtering/outotec/>



Guinea-Conakry and Burkina Faso: Innovations at the Periphery

Cristiano Lanzano



The Philippines: State-sanctioned Informalization

Boris Verbrugge



Thank you!

