

The Team

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Project Overview

- Research project on emerald mining in Colombia and Zambia through the lens of the Jewelry Development Impact Index (JDII).
- Continues research started in Fall 2017 adding more countries researched and building upon and modifying the Fall 2018 methodology to increase scalability.

Objectives

A two-country comparison of Colombia and Zambia

Improved scalability of existing methodology An eight country comparison

Jewelry Development Impact Index Overview

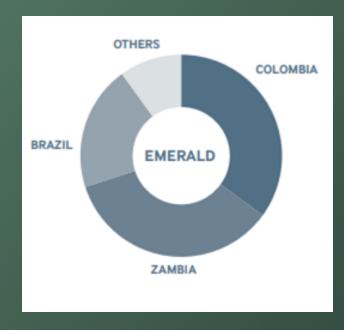
Scoring - Level of Risk to Human Security

0	Always or Yes	No Risk
1	Almost Always	Very Low Risk
2	Usually	Low Risk
3	Sometimes	Moderate Risk
4	Almost Never	High Risk
5	Never or No	Very High Risk

- Production of jewelry has a significant impact on the economies, development, conflict management, and peace in the countries in which the industry functions.
- Presently, the international jewelry industry lacks a standardized tool to measure how it impacts socioeconomic activities.

Emeralds Around the World

- Emeralds are a variety of the mineral beryl and must have a rich green color or else are classified as green beryl, aquamarine or heliodor.
- Naming affects pricing and marketability.
- Many common imitations.



Estimated geographical distribution (as of 2015)



Zambia and Colombia



Overview of Emerald Mining in Colombia





Key Findings: Colombia

- Government institutions in place help lower risk to human security.
- Presence of informal mining.

"Today, criminal mining brings more money to criminal groups, to guerrilla groups, to mafias... than drug trafficking" - Former President Juan Manuel Santos, 2015

- Lack of enforcement mechanisms for environmental regulation.
- Afro-Colombian and indigenous peoples are disproportionately affected by displacement.

Overview of Emerald Mining in Zambia





Key Findings: Zambia

- Capital Flight: Lack of beneficiation limits Zambia's ability to leverage its economic potential.
- Low local demand for finished emerald products.
- Informal and unlicensed sales drive down market prices.
- Exclusion of women in large-scale mining.
- Effects of mining on the HIV/AIDS epidemic in Zambia.



Comparison



Colombia's Fura emerald

Differences

- Formal vs. informal
- Remediation processes after the closure of mines
- Open pit vs. tunneling
- Presence of non-state actors

Similarities

- Indigenous people displacement
- Weak environmental regulation enforcement
- Informal child labor

Zambia *Lion* emerald





- Increasing internal effectiveness and oversight
- Enforcement of regulations and policies
- Formalizing the mining industry
- Increase access to and quality of health care

Gaps and Successes

- Available data was generalized.
- Lack of specific information to the emerald mining industry.
- Information on governance was quite limited and potentially biased.
- Additional concrete information on the informal markets.

Methodology Overview

- Indicators and sub-indicators
- Identification of key questions; in line with OECD Guidelines
- Interviews with key informants
- Literature review and desk research
- Averaging

Modifications

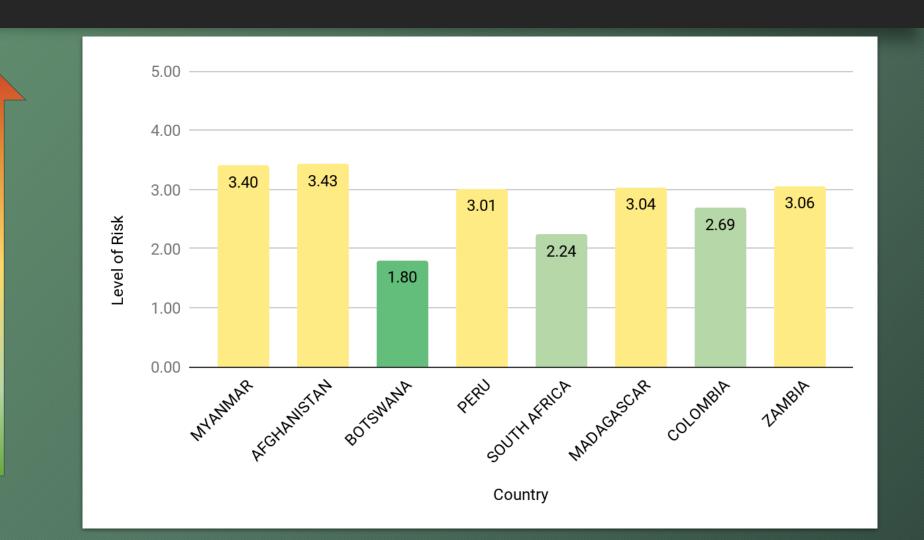
Standardized Scoring

- Previously: 0-1 scale for some questions; 0-5 score for others.
- Scoring method changed to standardize the 0-5 scoring across all questions.

Scalability

- Moving from case studies to a comparable index score.
- Broader questions applicable to more countries.
- Eight-country Comparison

Eight-Country Comparison



Conclusion

Questions