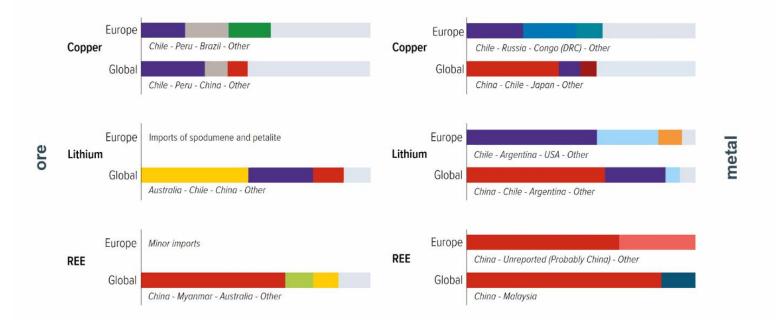


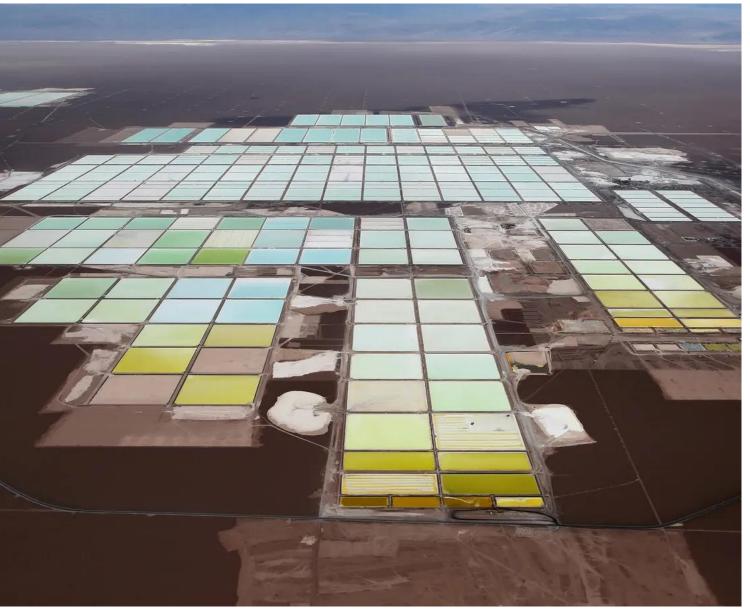
The mineral revolution

Unprecedented effort to meet demand for 'transition minerals':

- Recycling
- Domestic production
- Import of mined ores and manufactured metals









What does the mineral revolution have in store for LMICs?

Do existing 'ethical supply chain initiatives' succeed in ensuring a more sustainable mineral revolution?





Clear environmental costs

Questionable socioeconomic impacts

- Consolidation of smaller (family) farms into larger holdings
- Mechanization leading to (on-farm) job loss
- Benefits those with capital to invest



Ofsett by obvious benefits



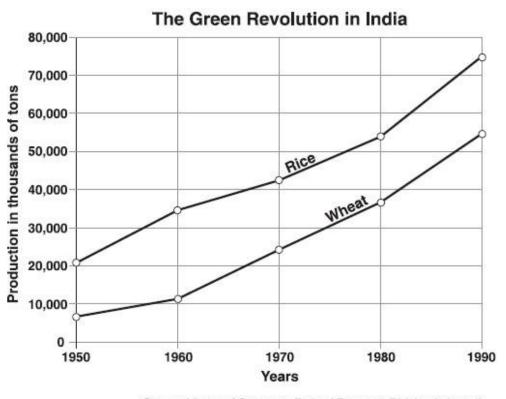
STRONG PRODUCTIVITY
GROWTH



ENHANCED FOOD SECURITY



GROWING ON-FARM INCOME → BOOST FOR OFF-FARM INCOME



Source: Library of Congress, Federal Research Division (adapted)

From a grain deficient nation to food security for all **Green Revolution**

The green revolution: A bilan

- Clear positive impacts for LMICs
- Blind for environmental and socioeconomic externalities?







Adverse environmental impacts





Questionable socio-economic outcomes



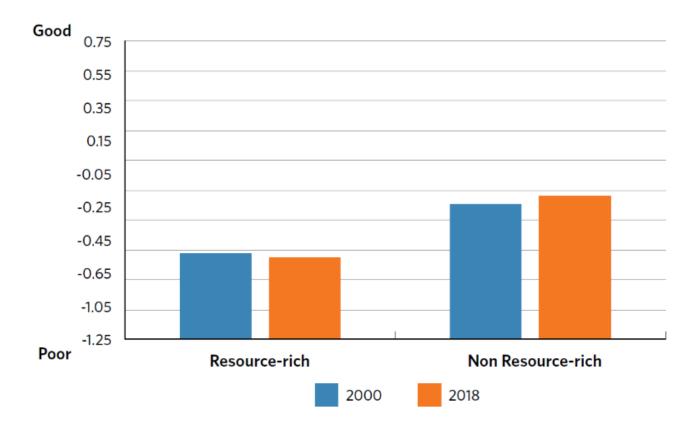






CHART 0.2: Control of Corruption, 2000 & 2018 (WGI): Resource-Rich and Non Resource-Rich Developing Countries

Base sample has 137 developing countries, of which country groupings include Resource-rich (79), Non Resource-rich (58).



Source: Kaufmann, Kraay, and Mastruzzi 2010, Kaufmann 2019.

The resource curse explained

The resource curse is a phenomenon that occurs when a country has an abundance of natural resources but cannot grow its economy. There are several reasons for it:

CORRUPTION

Bribery and embezzlement are rife in the mining and extractions industries, from extraction to the sale of the resources.





POOR GOVERNANCE

Often, governments rely too much on revenue from these resources and neglect other sectors of the economy.

INEFFICIENCY

Money from natural resource exploitation is used inefficiently and is not invested in the economy.





LACK OF TRANSPARENCY

The details of contracts between governments and mining companies are often kept a secret.

VOLATILE PRICES

Fluctuating resource prices also make countries that become over-reliant on their natural resources vulnerable.





THE DUTCH DISEASE

his refers to a situation where the development of one sector of the economy results in the decline of other sectors.

All bad news?

- Institutions matter
- Economic structure matters
- Type of mining matters

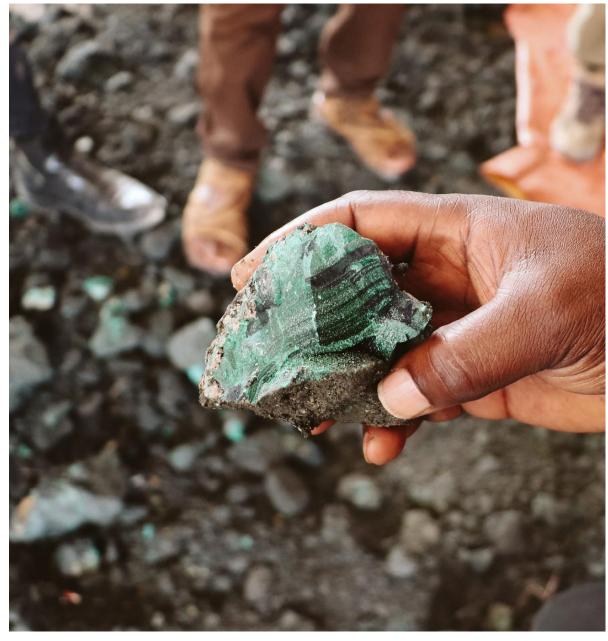




Is artisanal and small-scale mining different?













The mineral revolution: a bilan

- Adverse environmental impacts
- Questionable socio-economic impacts
- Benefits **not** yet there for everyone to see









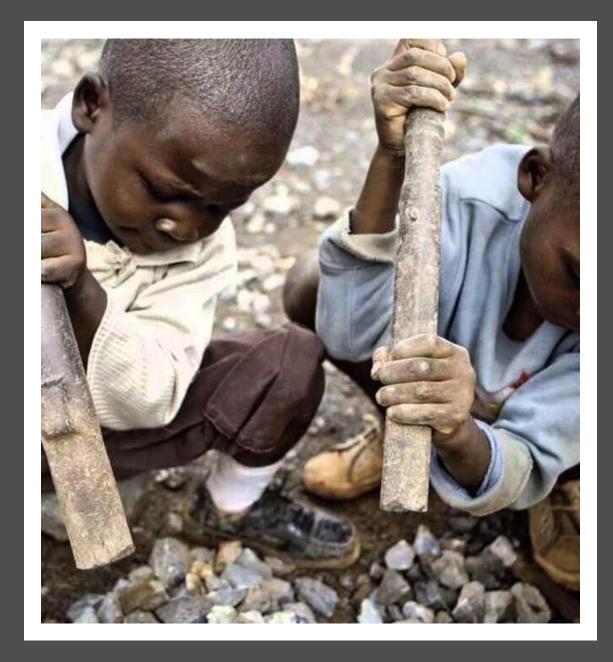


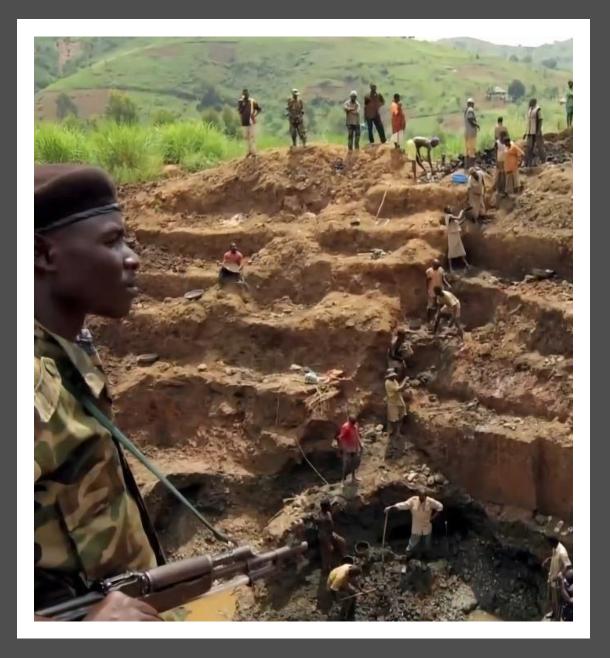
Can 'ethical supply chain initiatives' do the trick?

IRMA ENGAGEMENT MAP

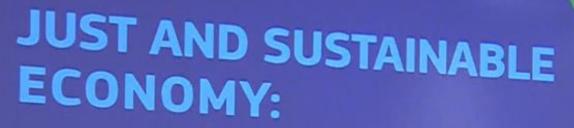
increasing transparency and catalyzing connections between mining stakeholders





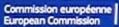






COMPANIES TO RESPECT
HUMAN RIGHTS AND ENVIRONMENT
IN GLOBAL VALUE CHAINS







European Commission Commission européenne



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