

Strengthening Development Minerals Governance in Fiji Using 'Digital Earth Pacific'

Gary Lee- Pacific Community (SPC)

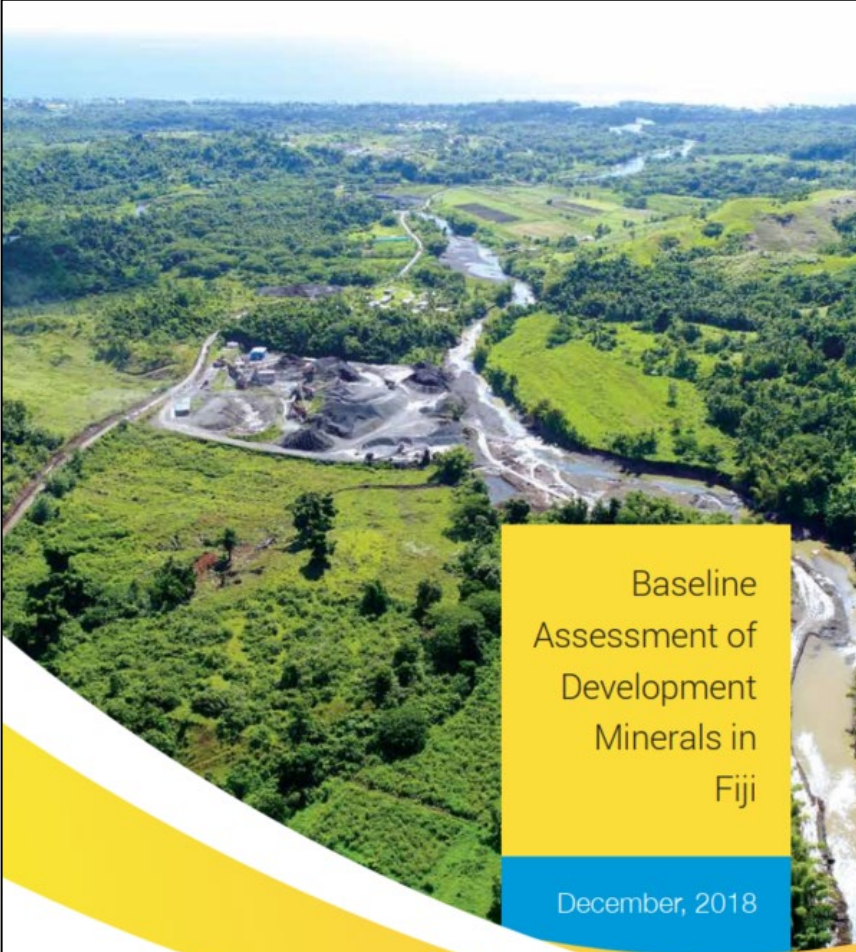
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ACP-EU Development Minerals
Programme









Baseline
Assessment of
Development
Minerals in
Fiji

December, 2018

Programme Partners:



ACP-EU Development Minerals Programme.
Implemented in Partnership with UNDP
www.developmentminerals.org

‘Development Minerals’ are minerals and materials that are mined, processed, manufactured and used domestically in industries such as construction, manufacturing, and agriculture. Development Minerals are economically important close to the location where the commodity is mined and include industrial minerals, construction materials, dimension stones and semi-precious stones.

Franks, DM, Pakoun, L and C Ngonze. 2016. Development Minerals: Transforming a neglected sector in Africa, the Caribbean and the Pacific. United Nations Development Programme.



Annual Global Consumption



food **4 billion t**



Wood **6 billion t**



Iron **2 billion t**



Aggregates **50 billion t**



Oil **4 billion t**



copper **20 million t**



gold **2 thousand t**



Annual Extraction in Fiji



Uses





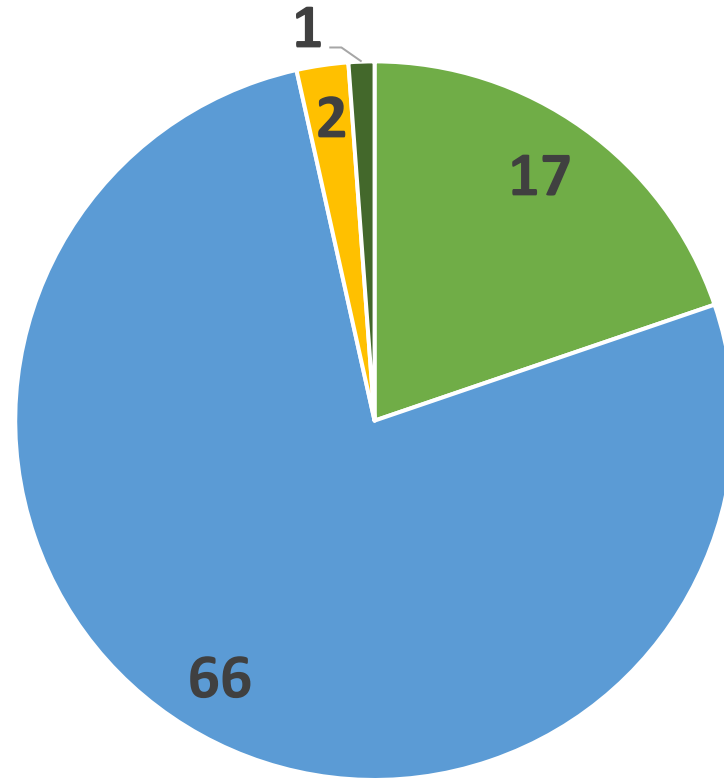
Important linkages to all 17 SDG's but paradoxically neglected from the agenda



(United Nations, 2015)



Fiji extraction site overview



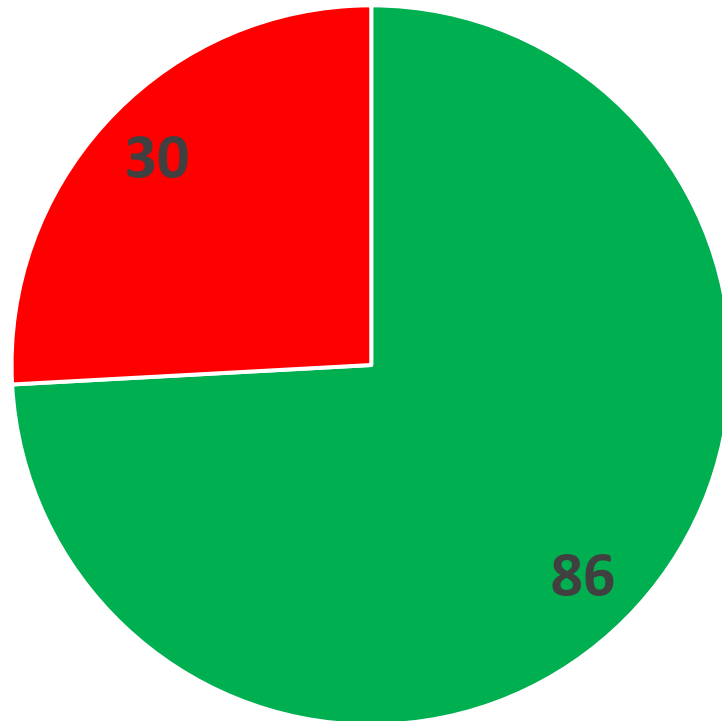
- Hard rock quarry
- River extraction
- Soft rock quarry
- Sand quarry



Illegal/unregulated extraction

Baseline Report 2018

Ministry Records



■ Regulated ■ Unregulated

MLMR identified
46 illegal sites
over the period
2016-2021



Environmental & Social Impacts





Financial impacts

Sector Value

Official
Gross Output
FJ\$ 53 M

Estimated
Gross Output
FJ\$ 284 M

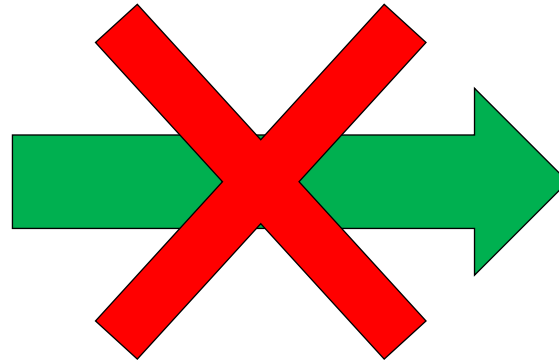
Royalties

Royalties
received
FJ\$ 1.9 M

Estimated
royalties due
FJ\$ 10.2 M



Business environment impacts: hinder transition to quarries



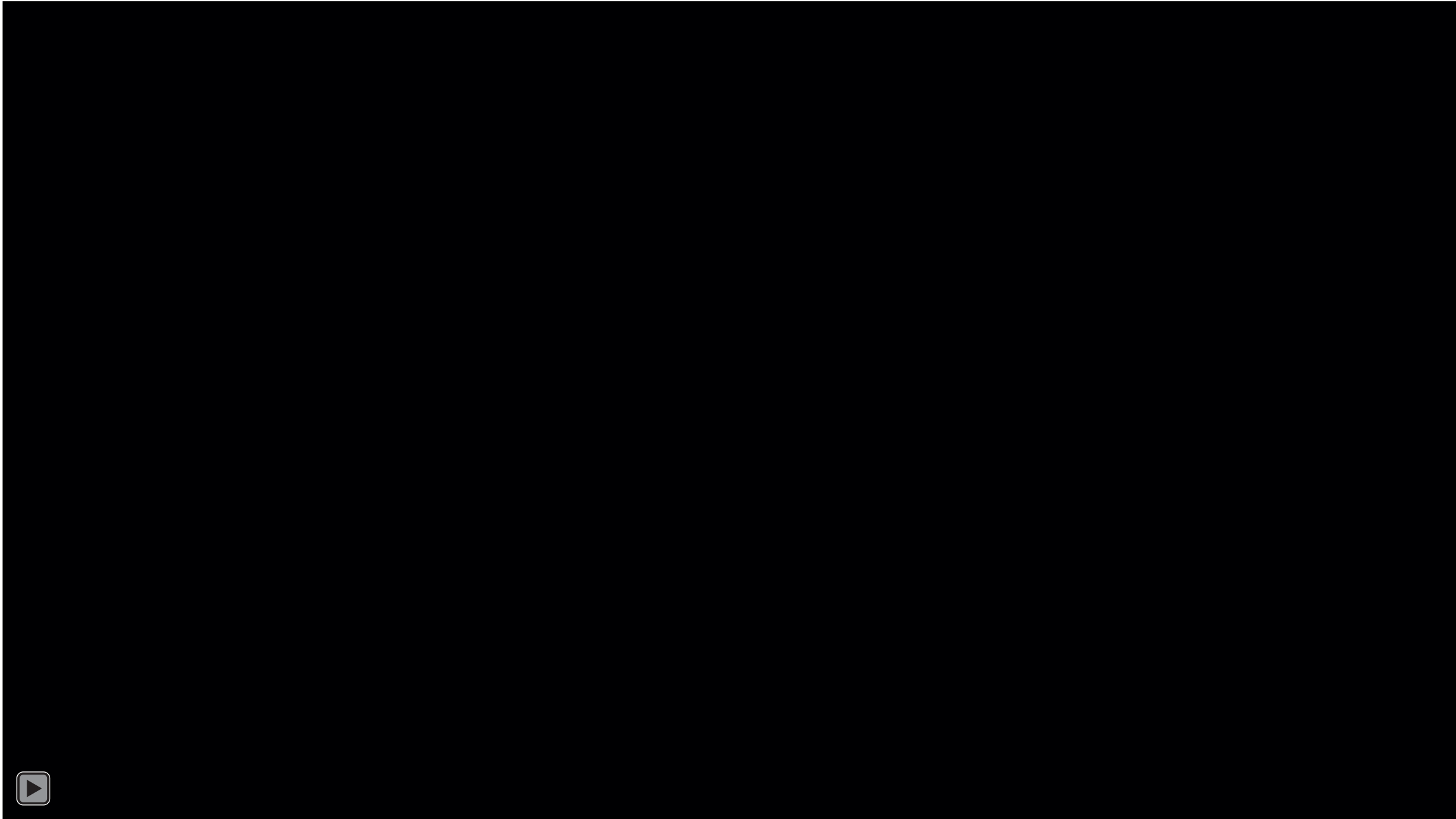
Current Monitoring



Enhanced Monitoring



- ✓ Monitor Fiji's rivers at the national scale using satellite data.
- ✓ Detect changes indicating potential areas of illegal extraction.
- ✓ Support Govt to efficiently allocate limited human resources.
- ✓ Support Govt to enforce regulations.
- ✓ Deterrence: "eye in the sky".





Pacific
Community
Communauté
du Pacifique

Vinaka, Thank You.

<https://www.spc.int/DigitalEarthPacific>