

Day 1: 22 May 2024 Plenary session 4 Responsible sand and silicates: implications for due diligence





Welcome



CREATE CHANGE



Dr Louise Gallagher

Senior Fellow, Global Centre for Mineral Security, The University of Queensland





Global awareness of sand and sustainability challenges is rising. Momentum is building.

International public policy, research

2021



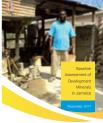
Construction Raw Materials

2022



2019

2017



2018



Media and civil society

How child labour in India Guardian makes the paving stones beneath our feet

SCIENTIFIC AMERICAN

Feb 2024

Inside the Crime Rings Trafficking Sand



REUTERS GRAPHI

Sand mining in Vietnam's Mekong Delta sinks homes, livelihoods Nov 2023

April 2021

WORLD ECONOMIC FORUM

Sand mining is close to being an environmental crisis. Here's why - and what can be done about it Sept 2023

March 2024



YaleEnvironment360 Feb 2019

Sand mining: the global (1141) environmental crisis you've probably Feb 2017 never heard of

The Hidden Environmental Toll of Mining the World's Sand

By far the largest mining endeavor globally is digging up sand, mainly for the concrete that goes into buildings. But this little-noticed and largely unregulated activity has serious costs – damaging rivers, wroaking havec on coastal

BY FRED PEARCE - PERSONNY 6, 30 P.

Private sector



2023

An Invitation to Explore Responsible Sourcing of Sand and

27 Apr 2023 | 08:30 - 10:00 Partner session - Auditorium 2023

BES 6001 Framework Standard for Responsible Sourcing

V4.0 2022

2021





Coming Q4 2024

An OECD baseline of social and environmental risks in sand and silicate supply chains

Multi-stakeholder dialogue

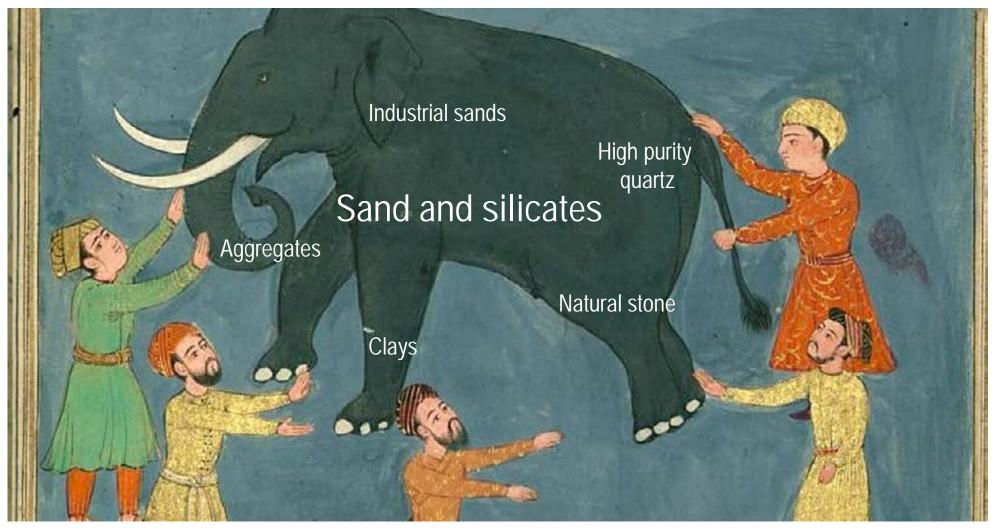
Annex II AND Environmental Handbook risks

Desktop study





Sand and silicates are big part of responsible minerals supply



Rumi (1207-1273) Townspeople, Who have Never Seen an Elephant, Examine its Appearance in the Dark, 1663 AD | Walters Art Gallery / Wikimedia Commons



Sand and silicates are significant because of the scale of their extraction, use and impacts around the world





Dr Uyanga Gankhuyang

ACP-EU
Development
Minerals
Programme
Manager, UNDP





Annual global sand and silicate production and consumption volumes are ~70,000x greater than other materials often discussed at the OECD Forum

Material	Annual volume (metric tons)
Gold ¹	
Cobalt ²	
Lithium ³	740,800 mt
Tin ⁴	
Tantalum ⁵	
Tungsten ⁶	

Material	Annual volume (metric tons)
Sand and gravel ¹ Industrial sand and gravel ²	
Clays (US only) ³ High purity quartz (US only) ⁴	~51.2 billion mt
Feldspar (US only) ⁵ Natural stone (internationally traded volumes only) ⁶	



LSM production



SMEs, ASM production







Sand and silicates risks overlap strongly with the OECD Annex II and Environmental Handbook risks

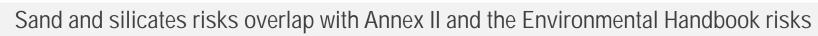




Mr Rana Sengupta

CEO, Mine Labour Protection Campaign Trust Delve Exchange, South Asia Coordinator





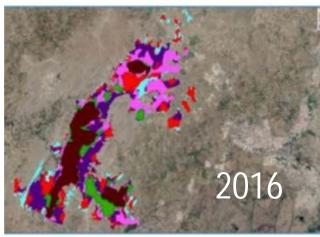






Case study: Social and environmental risks in sandstone supply chains

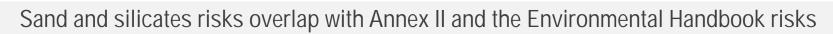




5 x growth in sandstone quarrying in 25 years in Jodhpur, India (Singhal and Goel, 2020)



Slice of a lung affected by silicosis (CC BY-SA 3.0)









Significant sectors are highly dependent on sand and silicates, and will need to pursue responsible sourcing soon





Mr Mihai Popa

Raw Material
Leader for
Inorganic materials,
IKEA of Sweden





Case study: Materiality of sand and silicates to IKEA's supply chains





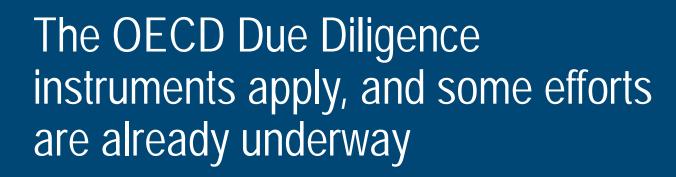


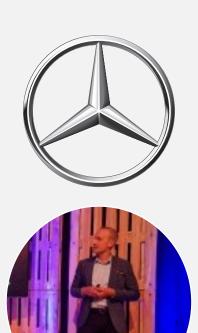












Mr Jan Knacksterdt

Project Coordinator, Raw Materials & Human Rights, Mercedes-Benz AG





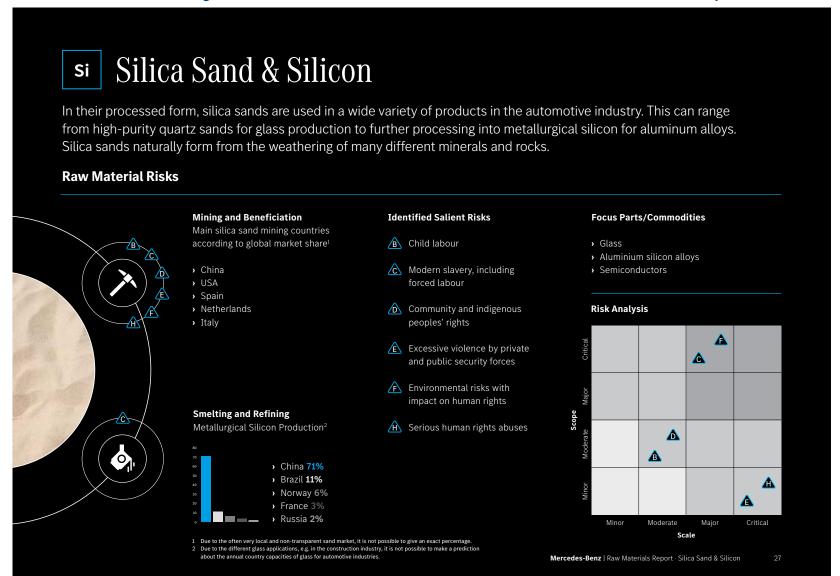
Sand and silicates contribute to car production in 7 ways



Photo credit | 360° Umweltcheck Mercedes-Benz EQS



Case study: Mercedes Benz's 2023 Raw Materials Report



Audience reflections

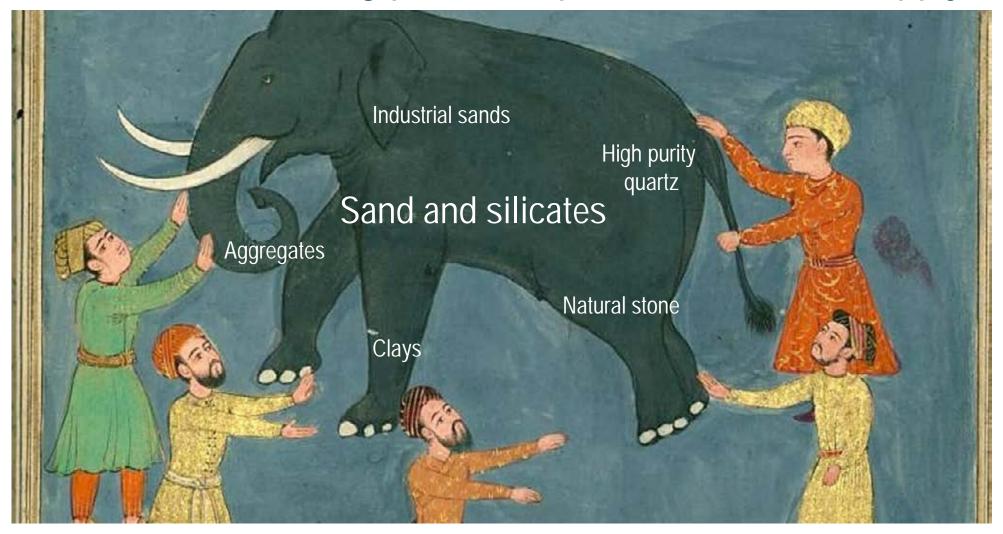
Panelists' reflections

One take away reflection?

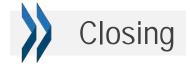
What would you like to see happen next?



Sand and silicates are big part of responsible minerals supply



Rumi (1207-1273) Townspeople, Who have Never Seen an Elephant, Examine its Appearance in the Dark, 1663 AD | Walters Art Gallery / Wikimedia Commons



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Thank you!

