Invisible mining and the resource management competency framework for a world in transition
Invisible Mining

The global context

- Climate change
- Biodiversity crisis
- Rising inequality
- Poverty
- Social conflicts

Source: https://feralatlas.supdigital.org/world/capital
Invisible Mining
The impact of commoditization

- All ores are equal
- Cash costs
- Low revenue
- Poor social and environmental performance

Source: SNL Metals & Mining
Invisible Mining
The impact of commoditization

- Value transferred to downstream industries

Source: https://feralatlas.supdigital.org/world/capital

Source: StartupAUS in Business Insider AU
Invisible Mining
Political and social constraints

- Public opposition
- Resources nationalism

![Map of Resource Nationalism Index 2019 with rankings and countries marked in various colors.](https://feralatlas.supdigital.org/world/capital)
Invisible Mining
Securing access to resources

Options:
1. Domestic supply
2. Trade

PROBLEMS:
- Public opposition
- High costs
- Low grade/small deposits

Source: https://feralatlas.supdigital.org/world/capital
Invisible Mining
Comprehensive extraction

Options:
1. Domestic supply
2. Trade

PROBLEMS:
- Public opposition
- High costs
- Low grade/small deposits

SOLUTIONS:
- ‘comprehensive extraction’

Hilton et al. (2018). Transforming our world’s natural resources: A step change for the United Nations Framework Classification for Resources?

Source: https://feralatlas.supdigital.org/world/capital
Combination of current progress in:

1. R&D
2. Investment
3. Skills

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Florence copper project in Arizona

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However, since transparency and accountability are crucial to maintaining public trust in the UNFC and the UNRMS, the CP TF is preparing sector-neutral recommendations regarding competency requirements of individuals who prepare estimates pertaining to the quantities and value of resources.
## Competent Person Task Force

### Members

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Thank you!

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UNECE
Date 29 I 04 I 2021, Geneva