



SLO in MaDiTraCe

TARANTULA CLUSTERING EVENT

Social License to Operate (SLO) in mining sector and LCA methodologies for (re)processing of low-grade primary and secondary resources 19th April 2023

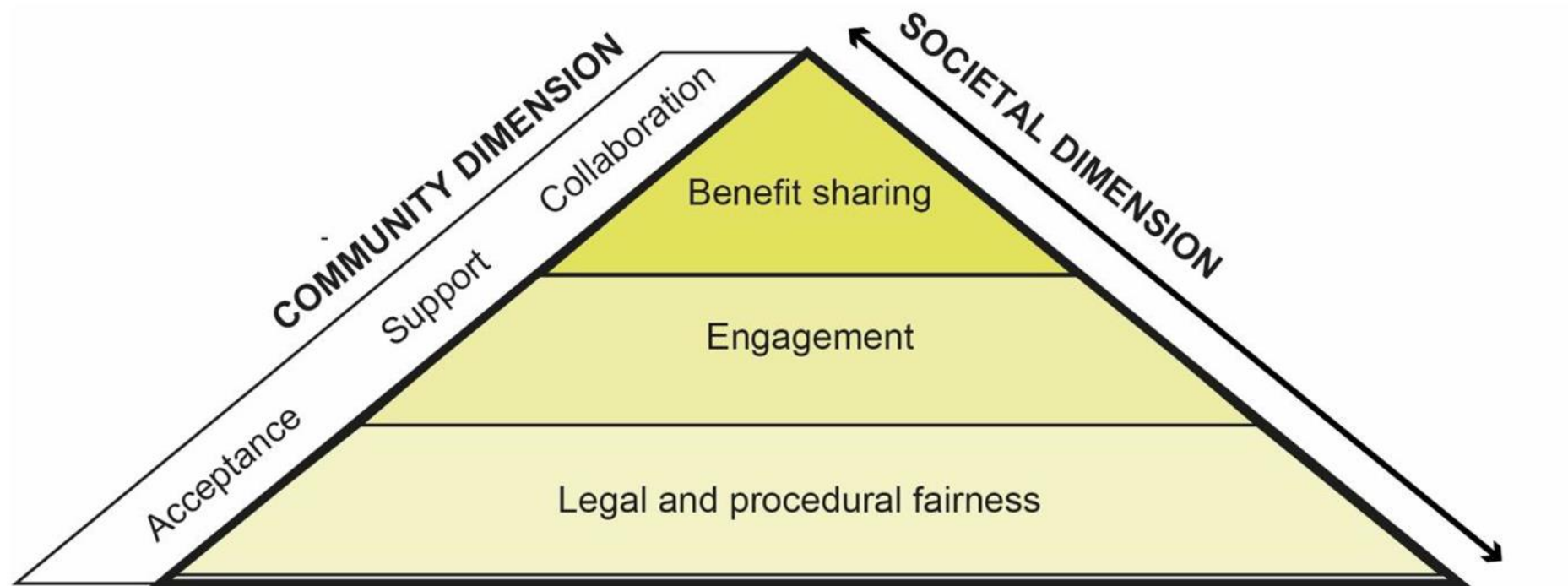
The TARANTULA project has received funding from the European Union's EU Framework Programme for Research and Innovation Horizon 2020 under Grant Agreement No 821159 - <https://h2020-tarantula.eu/>

- **Social Licence to Operate (SLO)**
 - Background
- **MaDiTraCe**
 - Overview
- **CERA 4in1 certification scheme**
 - Consideration of SLO

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Social Licence to Operate

“perception of the mining industry is a key piece of the SLO puzzle”



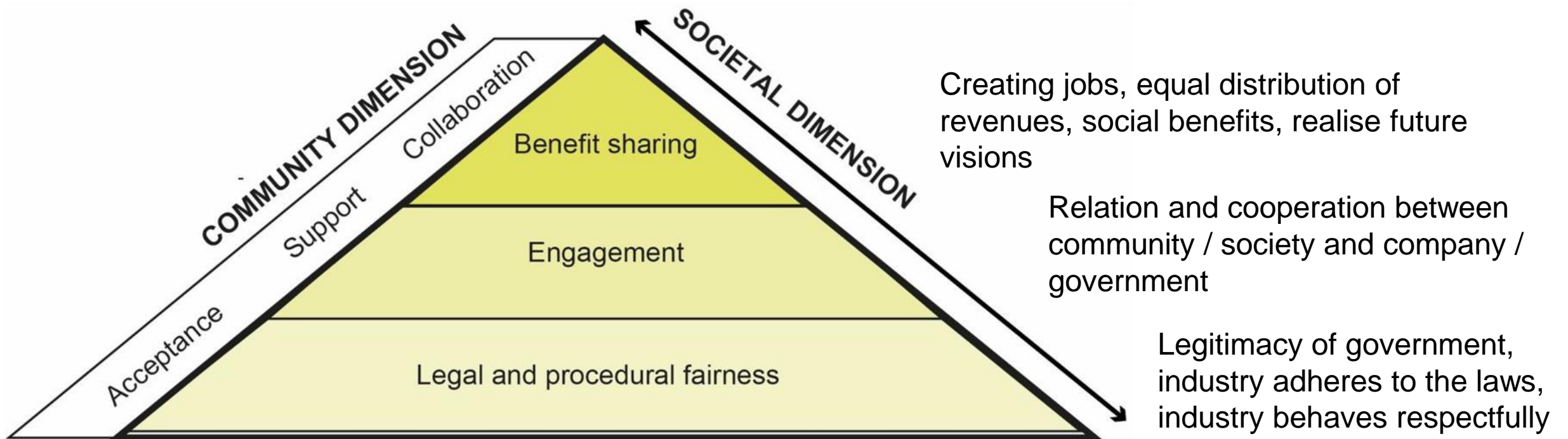
Community SLO

Demonstrating community engagement plans and a clear commitment from the company to comply with regulatory requirements.

**Does not
always
align**

Societal SLO

Company's relation to “the wider society and various constituent groups” / Society can influence governance, policy and legislation



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MaDiTraCe

Material and digital traceability for the certification of critical raw materials (MaDiTraCe)

- **Purpose:** Technological solutions for tracking and certifying raw material flows in complex supply chains
- **Conditions:** 2023-2026 (3 years) / Total budget: 11 M€



MADITRACE

Partners



Advisory Board



Chemical traceability of raw materials

- Material fingerprinting toolkit for traceability of raw materials
- Defines material's origin based on its chemical components
- Supports the exclusion of "conflict minerals" from products

Increases company's credibility in procurement

Digital traceability of raw materials

- Digital traceability of raw materials through the value chain
- Ensures the compliance to EU regulations, e.g. the Digital Product Passport (DPP) via digital certificates
- Supports the decentral control of supply chain due diligence

Verifies company's transparency

Certification of responsible sourced raw materials

- Tracking of raw materials within the supply chain
- Responsible sourcing of raw materials and its manufacturing
- Ensures compliance of international regulations, e.g. DPP
- Supports sustainable development in mineral raw materials sector

Controls company's responsibility and legal compliance on operational level

SLO achievement starts at community level to improve society's perception of the mining industry

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Certification

CERA 4in1 is the first and so far only certification concept that proves sustainable development along the entire mineral raw material value chain - from exploration, through extraction and processing, manufacturing until end-products.

CERA 4in1 targets **all minerals globally** and is applicable to **any size of company**.



4 standards in 1 System

Covers every step of the value chain and is thus optimised for each value chain actor

Exploration

CRS

Mining & Processing

CPS

Supply chain

CCS

Final product

CFS



CERA 4in1 Readiness Standard

- Investors
- certifies the reports about the (pre-) investment phase

CERA 4in1 Performance Standard - upstream

- Operators
- certifies a facility or sequence of operations
- **Market Entry**

CERA 4in1 Chain of Custody Standard

- OEMs
- certifies intermediate products and focuses on the traceability

CERA 4in1 Final Product Standard

- Consumer
- certifies consumer goods, indicated by a product label

Definition of Sustainability



Corporate Governance

- Legal compliance
- Best available practice
- Business integrity
- Stakeholder involvement
- Supply chain due diligence

Key Aspects e.g. Corruption and bribery, Business ethics, stakeholder engagement / grievances / reporting



Social Responsibility

- Human & community rights
- Labour conditions
- Occupational health & safety
- Safety & security

Key Aspects e.g. community protection and development, land rights, labor conditions, remuneration, OHS



Environmental Responsibility

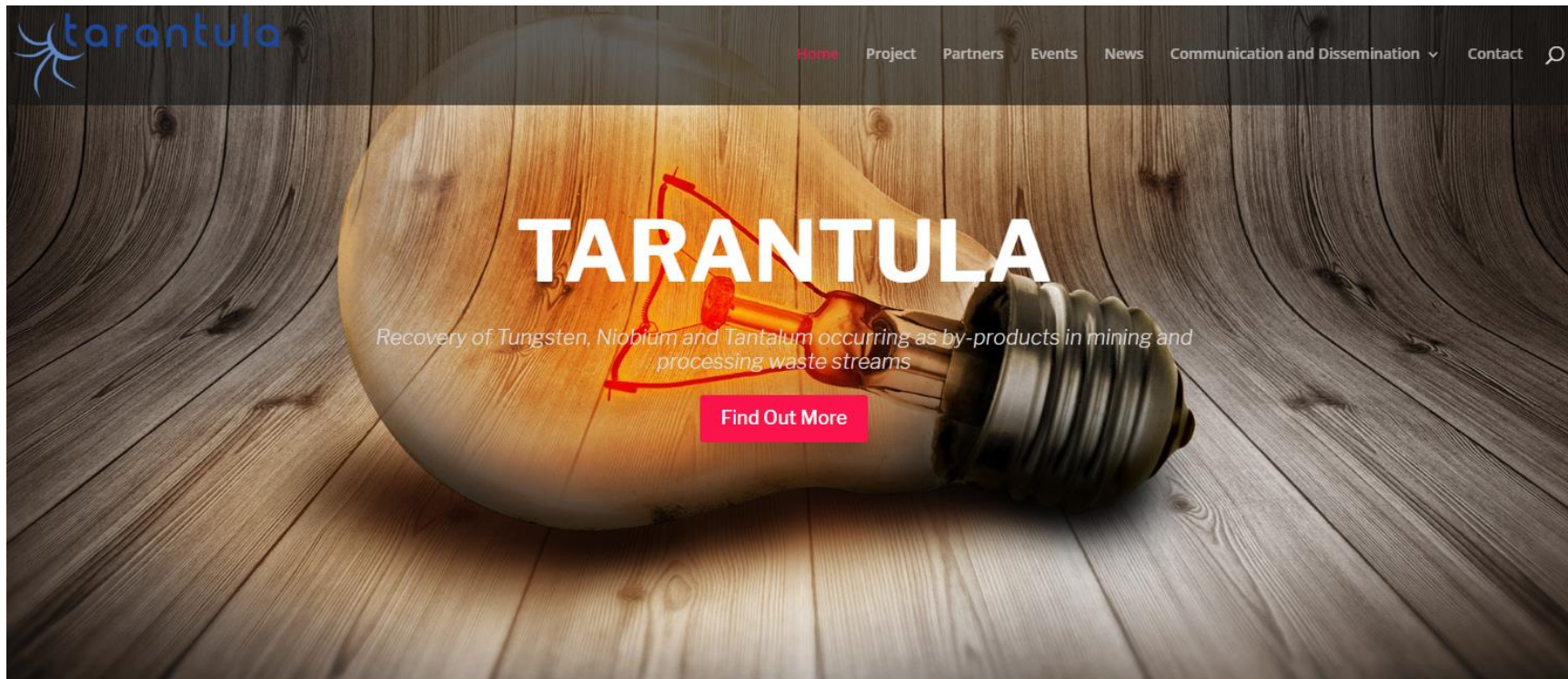
- Emission & waste
- Resource use & efficiency
- Energy input
- Biodiversity & closure

Key Aspects e.g. air quality, waste management, water management, GHG, Biodiversity

→ Achievement of the different SLO levels by individually assessing the key aspects on operational level

[MaDiTraCe / CERA 4in1: lukas.foerster@dmt-group.com](mailto:lukas.foerster@dmt-group.com)

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