Energy & Mines Digital Trust

The Future of Digital Standards for Sustainable Supply Chains

May 12, 2023
What is Energy & Mines Digital Trust?

EMDT is enabling and accelerating the B.C. government's entry into a digital trust ecosystem.

This initiative is creating a simple and secure way to share sustainability data, certifications, and credentials.
Key Terms & Concepts

- Digital Credentials
- Digital Trust Ecosystem
- Traction
- Governance Framework
EMDT Timeline

2021
- Developed Proof of Concept
- Convened Advisory Committee
- Technology testing pilot with Climate Action Secretariat

2022
- Developed Traction
- Designed five digital credentials in the mining and natural gas sectors
- Expanded ecosystem to 17 participants

2023
- Combined development teams with CITZ OCIO
- Completed two natural gas and two mining pilots
- Potential to launch a critical minerals pilot as part of UNCEFACT project.

Funding
- Phase 1 Funding
  - Approved Jul 2021
- Phase 2 Funding
  - Approved Mar 2022
- Phase 3 Funding
  - Approved Mar 2023

Events
- Presented remotely at UNFCCC COP26
- Presented at Hyperledger Forum in Ireland
- Presented at UNFCCC COP27 in Egypt
- Invited to speak at UN/CEFACT Forum in Switzerland
- Premier’s Award nomination
- Cleantech Award winner
- Invited to speak at UN/CEFACT Forum in Switzerland
EMDT's Milestones in growing the Global Ecosystem

Five Credentials
Use cases in the mining and natural gas sectors.

17 Use Case Participants
Representing provincial, national, and global interests.

Over 140 International Stakeholders
With interest in digital trust solutions.

Three Award Submissions
For an innovative, unique approach.

Over 20 Event Presentations
United Nations COP27.
Strategic Alignment and Partnerships

**Global**
- UN Center for Trade Facilitation and Electronic Business

**Pan-Canadian**
- Federal & Provincial Critical Minerals Strategies
- Pan-Canadian Workplan

**British Columbia**
- British Columbia Critical Minerals Strategy
- ESG Center of Excellence
Use Case Examples: Toward Sustainable Mining

- Enthusiasm among pilot participants.
- Increasing desire for verified ESG data at the mine site level.
- Reduced administrative burden.
- EMDT’s governance work with pilot participants will apply internationally, with a notable potential for wide scale adoption.
TSM Demonstration Video
**TSM Production Timeline**

- **May - June**: Finalize governance documentation and refine user interface
- **June - July**: Determine end-to-end process and explore technical integrations
- **July - August**: Prepare guidance documentation, user training, and technical setup
- **September - October**: TSM pilot in production
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Explore the EMDT Case Study