

Energy & Mines Digital Trust

The Future of Digital Standards for
Sustainable Supply Chains

May 12, 2023



Ministry of
Energy, Mines and
Low Carbon Innovation



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.



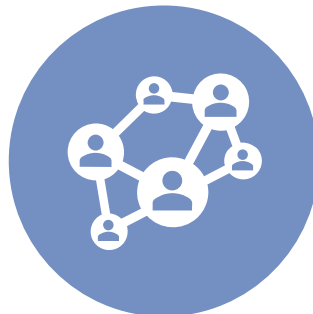
Key Terms & Concepts

Digital Credentials



Traction

**Digital Trust
Ecosystem**



**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.

Deliverables

Funding

Events

Phase 1 Funding
Approved Jul 2021

Phase 2 Funding
Approved Mar 2022

Phase 3 Funding
Approved Mar 2023

Presented remotely at UNFCCC COP26

Presented at Hyperledger Forum in Ireland

Presented at UNFCCC COP27 in Egypt

Premier's Award nomination

Cleantech Award winner

Invited to speak at UN/CEFACT Forum in Switzerland



Digital Trust Ecosystem

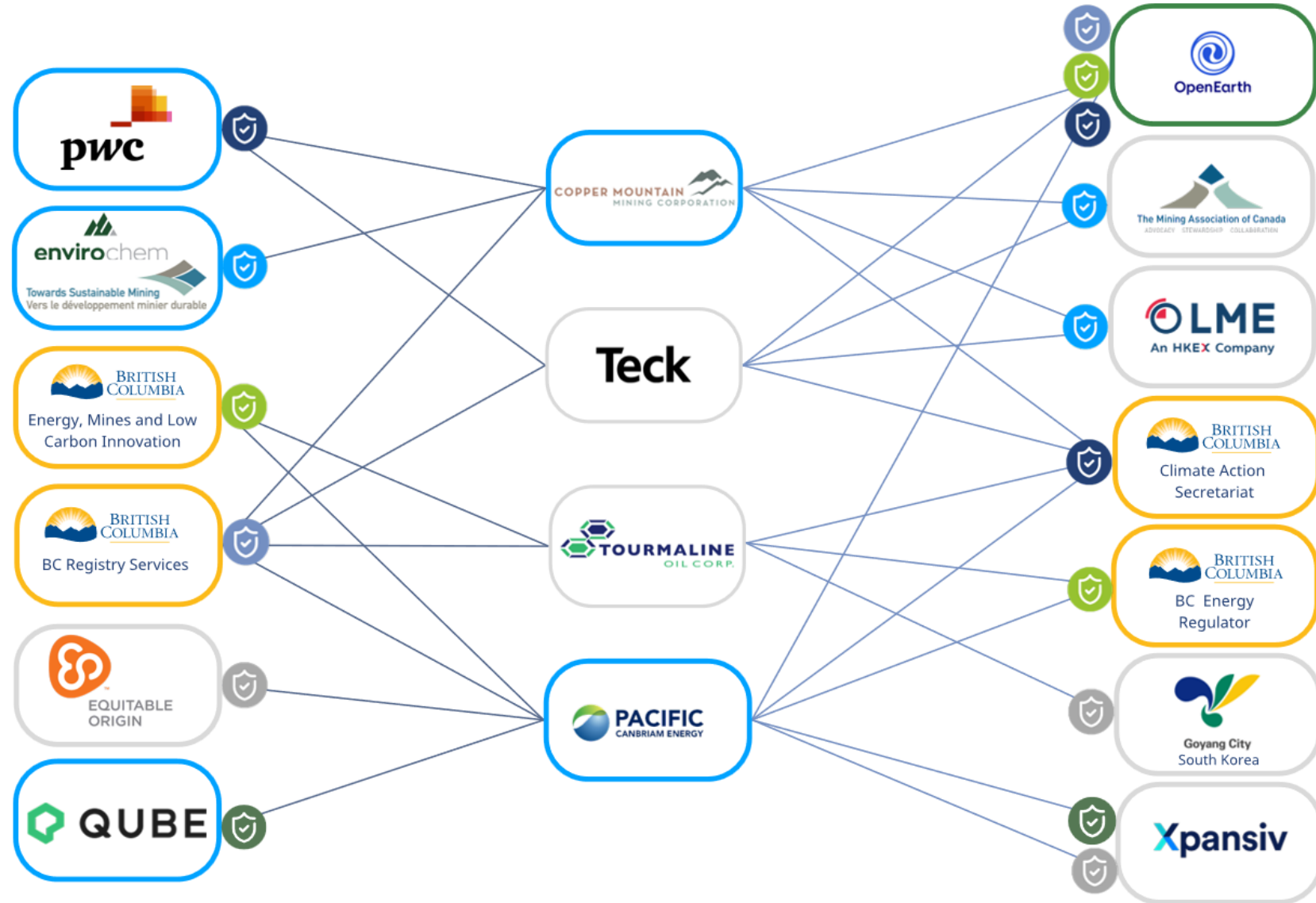
LEGEND

Digital Credentials

- Greenhouse Gas Emissions Report Verification
- Natural Gas Tenure
- Towards Sustainable Mining
- Business Registration
- EO100
- Monthly Qube Report

Digital Wallet Technology

- Traction
- Northern Block
- ACA-Py Integration
- Spherity
- To Be Determined





EMDT's Milestones in growing the Global Ecosystem





Strategic Alignment and Partnerships

Global



- UN Center for Trade Facilitation and Electronic Business

Pan-Canadian

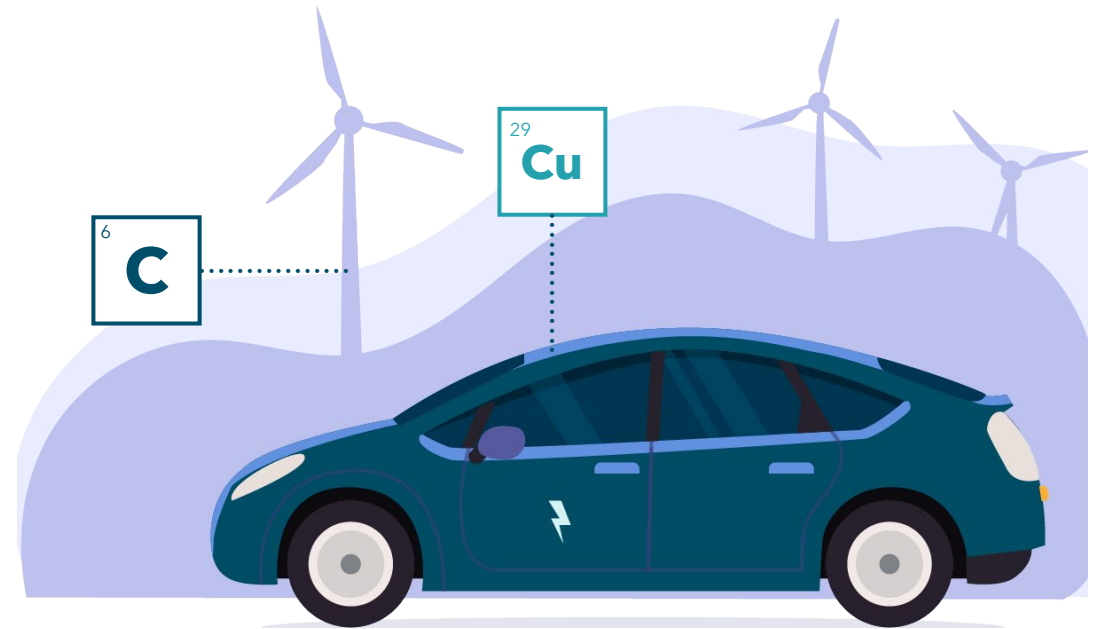


- Federal & Provincial Critical Minerals Strategies
- Pan-Canadian Workplan

British Columbia



- British Columbia Critical Minerals Strategy
- ESG Center of Excellence





Use Case Examples: Toward Sustainable Mining



KEY TAKEAWAYS

- 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.



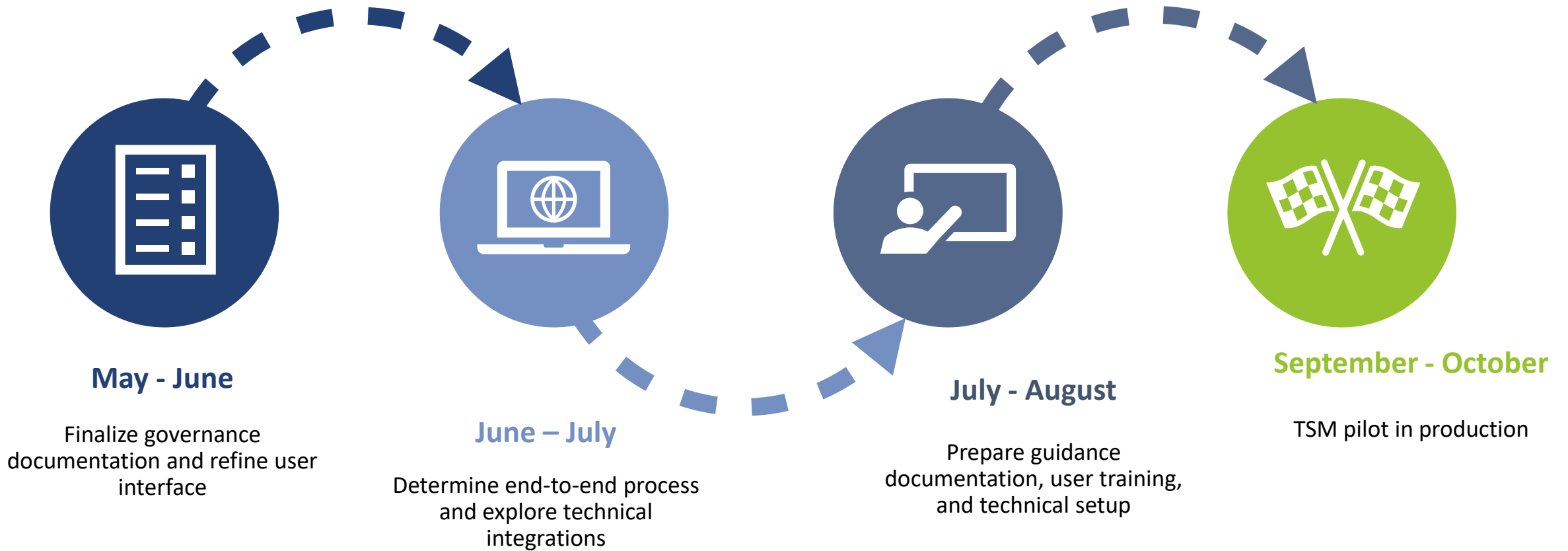
TSM Demonstration Video



ENERGY & MINES
DIGITAL TRUST

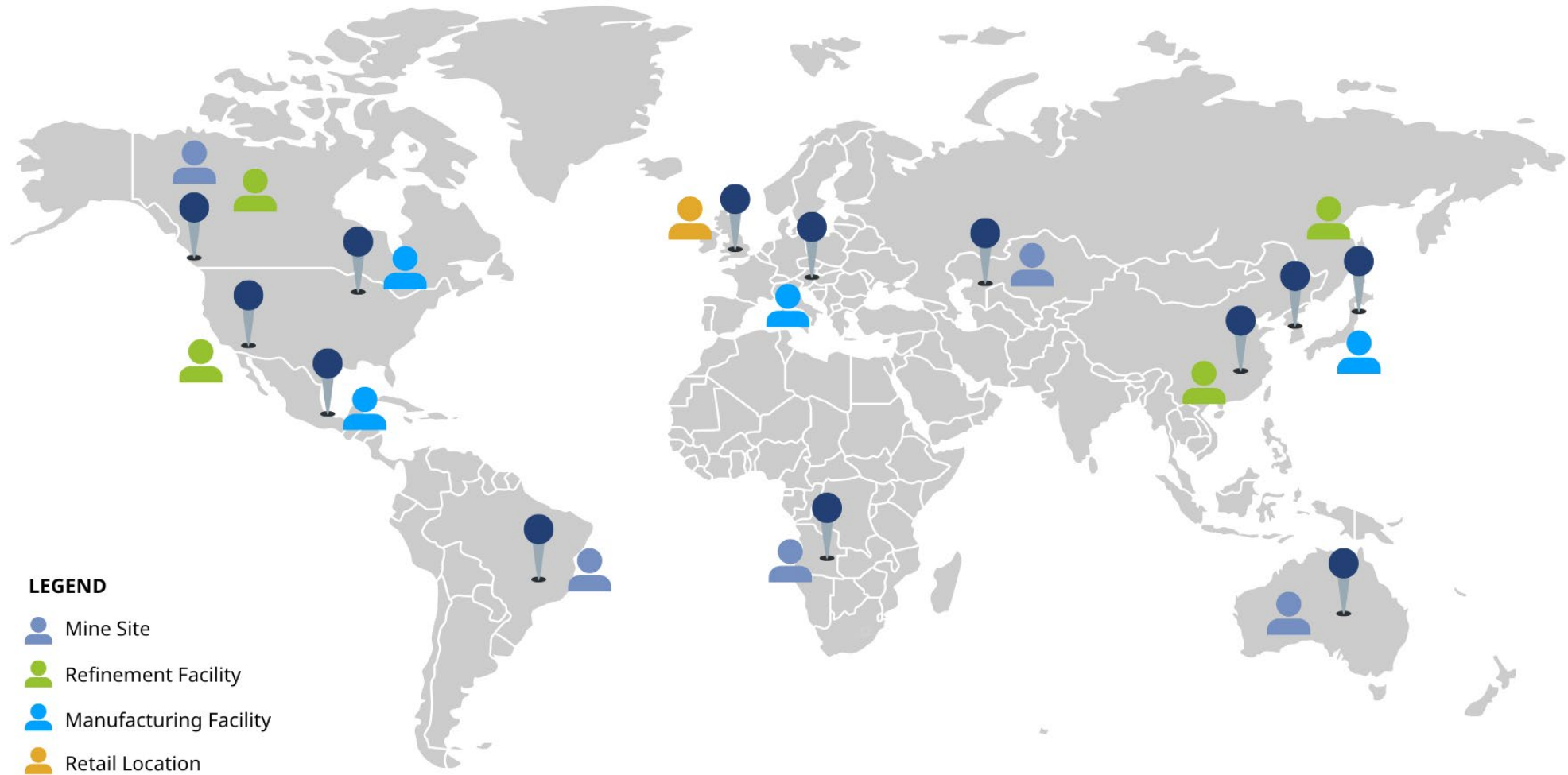


TSM Production Timeline





Critical Mineral Traceability in Production





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Explore the
EMDT Case Study

