Energy & Mines Digital Trust

Development & Digital Services Section Meeting

March 16, 2023







Ministry of Energy, Mines and Low Carbon Innovation





Brings additional functionality to B.C. Government's pioneering contributions to open-source digital trust technology

Enables B.C. energy & mining companies to prove where their products come from and how they are produced

Key Terms & Concepts

Digital Credentials





Traction

Digital Trust Ecosystem

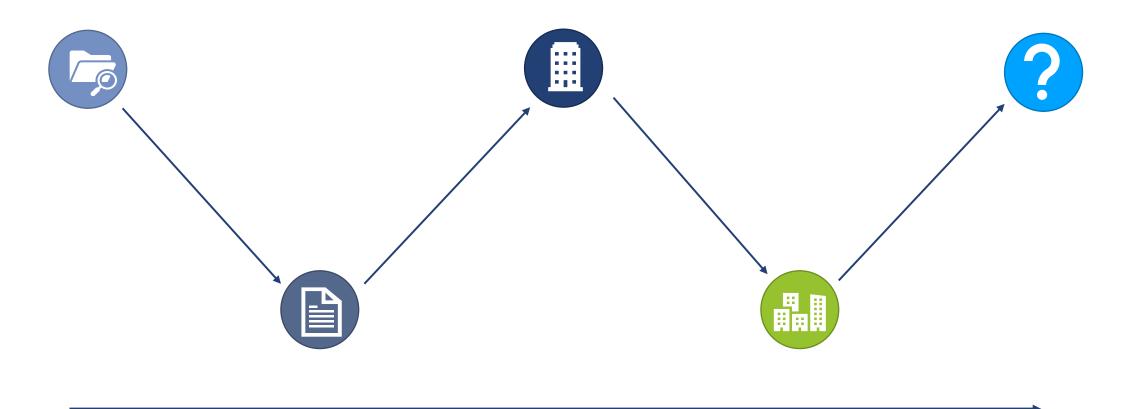




Governance Framework



Current Challenge

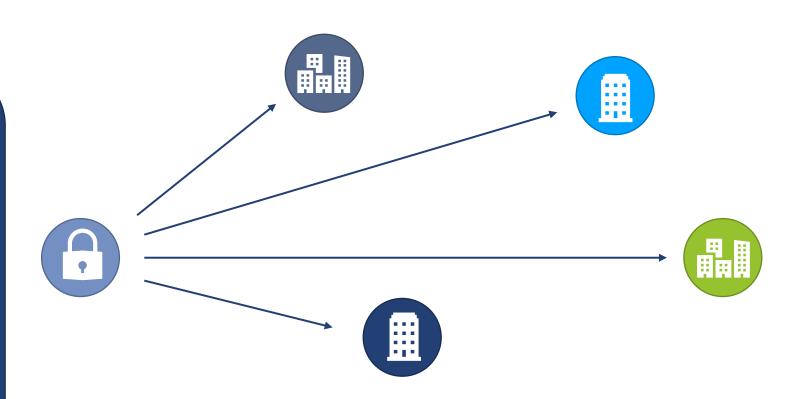


Over time, risk increases and trust is lost.



Digital Trust Solution

With digital credentials, information can be trusted, regardless of where, or to whom, it is shared.





Digital Credentials



EFFICIENT REPORTING

A digital trust ecosystem makes it quick and easy to share data that proves natural resource products were responsibly sourced.



INCREASED ACCURACY

Digital credentials are checked in real-time and there is no risk of data manipulation when shared.



IMPROVED TRUST

Digital credentials are tamper-proof so data cannot be manipulated during transmission. Information can be trusted.



PRIVACY PRESERVING

Organizations
share only the
information they
choose.
Digital credentials
make it easy to
customize specific
data requests.



MAXIMIZED MARKETS

Natural resource companies that verify responsiblysourced products can compete in a global market that values sustainability.



This cutting edge technology positions B.C. as a global leader and enables a digital trust framework with many business applications.

EMDT Timeline

2021

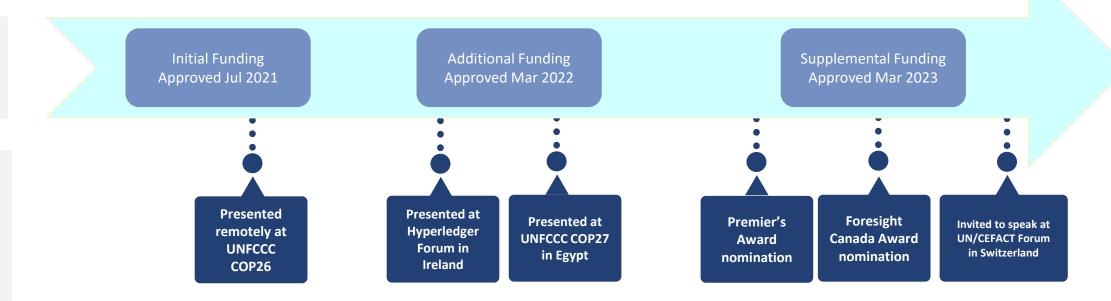
- Developed Proof of Concept
- Convened Advisory Committee
- Technology testing pilot with Climate Action Secretariat

2022

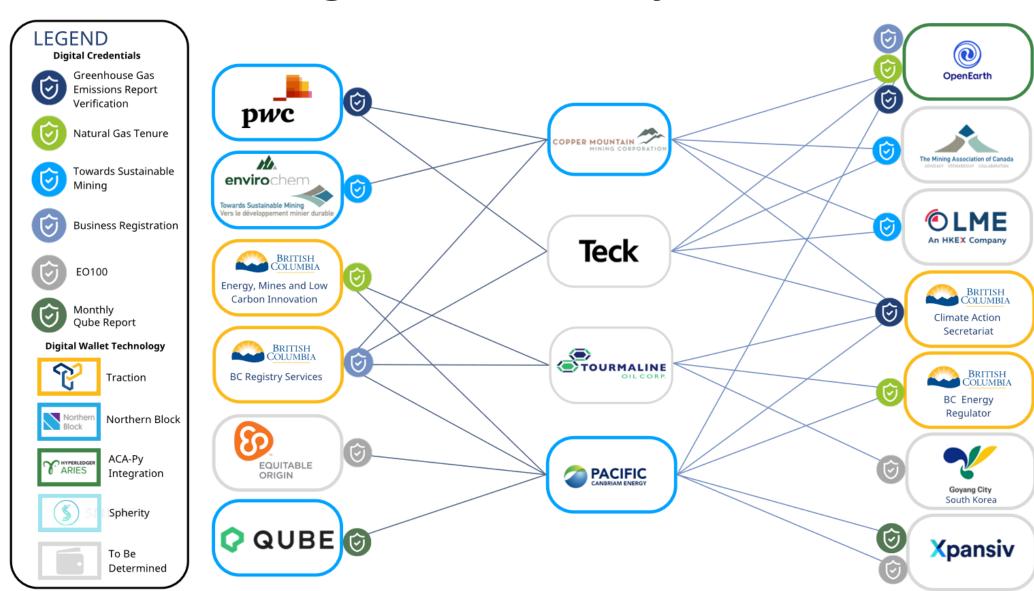
- Developed Traction
- Designed five digital credentials in the mining and natural gas sectors
- Expanded ecosystem to 17 participants

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 UN/CEFACT project.

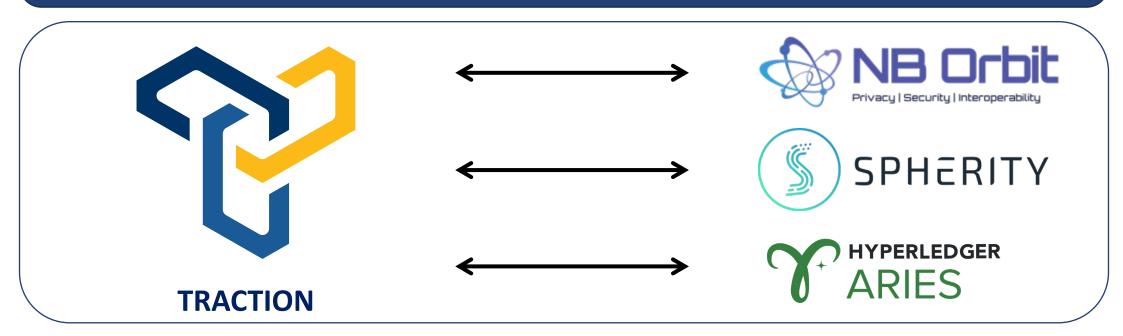


Digital Trust Ecosystem



Interoperable Technology

Anyone using interoperable technology can send and receive digital credentials.





Opportunities



Cross-border trade



Supply chain traceability



Net zero and ESG reporting



Image: Copper Mountain Mining Corporation



Strategic Alignment: Critical Minerals

Global



UN Center for Trade Facilitation and Electronic Business

Pan-Canadian

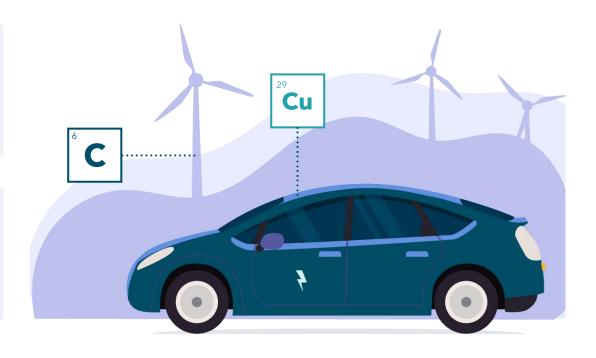


- Federal & Provincial CriticalMinerals Strategies
- Pan-Canadian Workplan

British Columbia



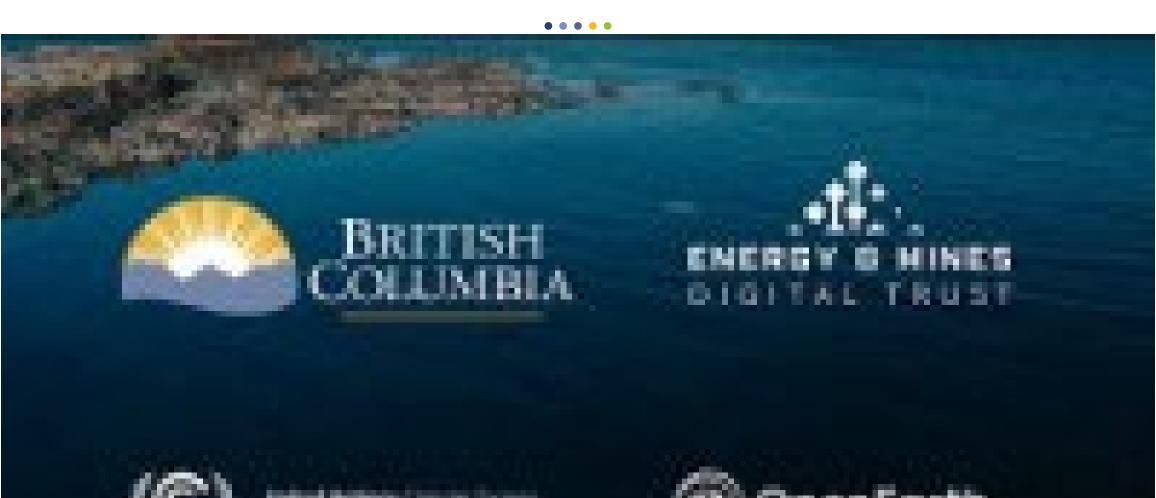
- British Columbia Critical
 Minerals Strategy
- ESG Center of Excellence





Demonstration Video







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Explore the EMDT Case Study

