CO_2LOCK CORP.

Brucite-Rich Serpentinized Peridotite (BRSP)

Hard Rock CO_2 Storage

Large-scale - Permanent - Affordable - Verifiable CO_2 Storage

OVERVIEW

CO_2 Lock :

- Is focused on commercializing CCS mineralization of Brucite-Rich Serpentinized Peridotite (BRSP) which is a far-superior to other host rocks such as Basalt, resulting in lower cost and faster offset creation
- Is advancing 3 different methods of CCS
  - Ex-situ water from BRSP
  - Ex-situ CO_2 injection into processed BRSP
  - In-situ injection directly into BRSP at depth
- Has acquired 6 years of significant lab and field work to confirm the CCS potential
- Is acquiring tenure for CCS project development
- Has a solid founding Team, which will be expanded in the near term to advance its commercialization strategy
- Focused on commercializing the mineralization process to achieve the key metric targets of volume, price, verification and permanency

CO_2 LOCK – COMMERCIALIZING CCS

CO_2 Lock created through the CO_2 storage discoveries by FPX Nickel Corp.

FPX Nickel Corp.
TSX-V:FPX

- FPX global search for mineral deposits to supply growing demand for "green" nickel used in batteries and electric vehicles
- World-class mineral deposit located in central British Columbia and 245 sq km of mineral tenure acquired to establish the Decar Nickel District

- FPX partnered with UBC and Natural Resources Canada to demonstrate CO_2 storage potential of Decar Nickel District
- 6 years and ongoing lab and field work
- Confirmed BRSP minerals at Decar, and other examined global locations, have very significant CO_2 storage capacity

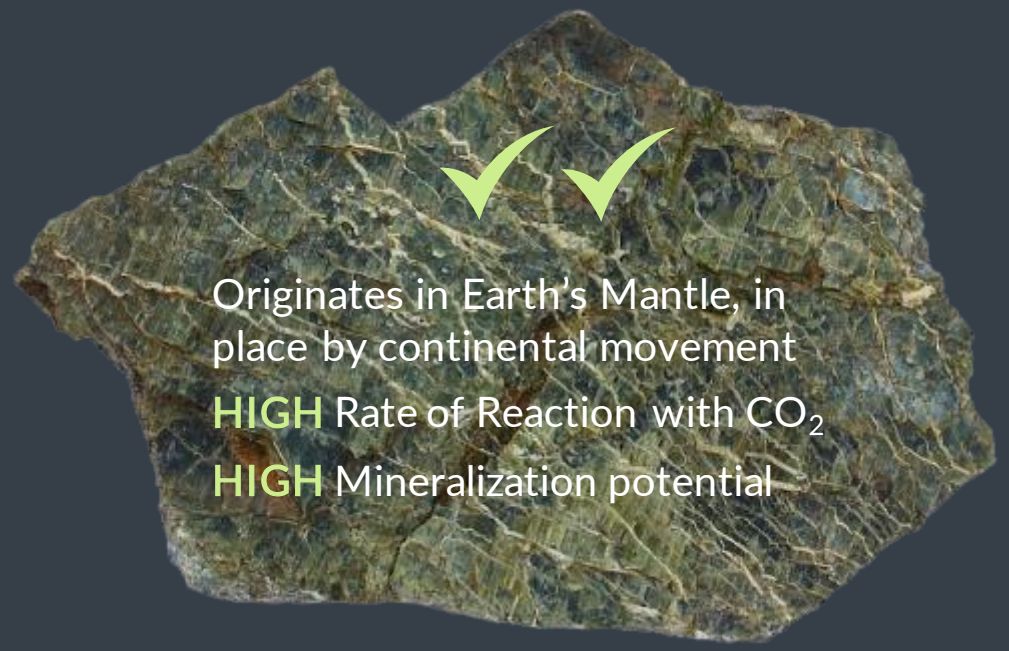
CO_2 LOCK CORP.

- CO_2 Lock created to focus on commercialize CCS using BRSP

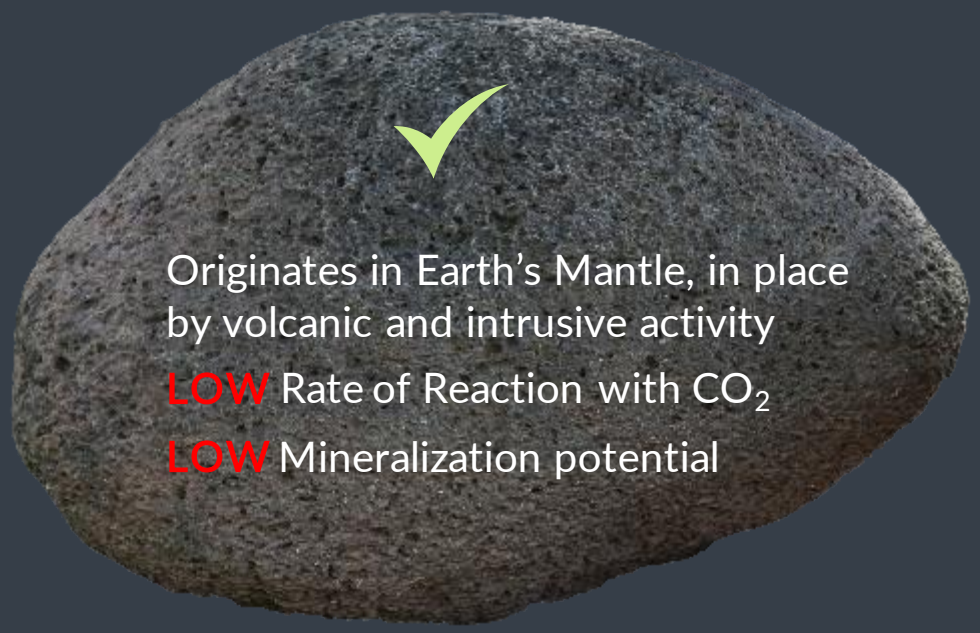
THE BRUCITE-RICH SERPENTINIZED PERIDOTITE ADVANTAGE

Faster CO_2 reaction rate and larger volume than other options means lower cost and faster offsets

CO_2 LOCK stores CO_2 in hard rock called serpentinized peridotites – the brucite-rich form is a superior host with significantly faster and larger storage potential than basalts



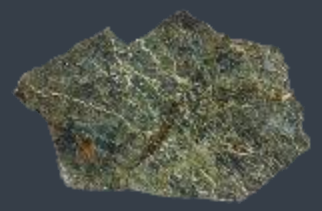
BRSP



BASALTS

HOW WE PERMANENTLY STORE CO_2

Order of commercialization potential using BRSP



BRSP Rock

Ex-Situ Water Extraction

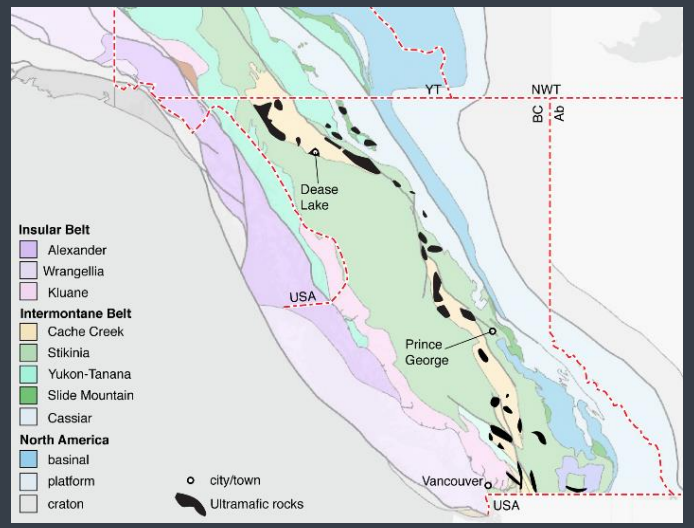
Ex-situ Mineralization

In-Situ CO_2 Injection

Chemistry & Engineering

CO2 LOCK HAS PROVEN SCIENCE

- Research at UBC and NRCan using FPX Nickel mineral samples has confirmed carbon storage capabilities of BRSP
- Geological research at UBC confirms significant presence of SP in British Columbia
- Demonstration projects using similar but different materials confirms technology
- CO_2 Lock is focused on commercializing the mineralization process to achieve the key metric targets of volume, price, verification and permanency



"…ex-situ carbon mineralization has an estimated sequestration capacity of 56 Gt CO2; this represents more than 800 years of GHG emissions in B.C. at current rates."[1]

1. The Carbon Mineralization Potential Of Ultramafic Rocks In British Columbia: A Preliminary Assessment Mitchinson, D., Cutts, J., Fournier, D., Naylor, A., Dipple, G., Hart, C.J.R., Turvey, C., Rahimi, M., Milidragovic, D. (2020). Geoscience BC Report 2020-15/MDRU Publication 452,

REVENUE MODEL

CO_2 Lock focus is on project development

Focus on BRSP

Acquire Tenure

Develop CO_2 Storage Projects

Store and Verify CO_2

Monetize Mineralized CO_2

License IP

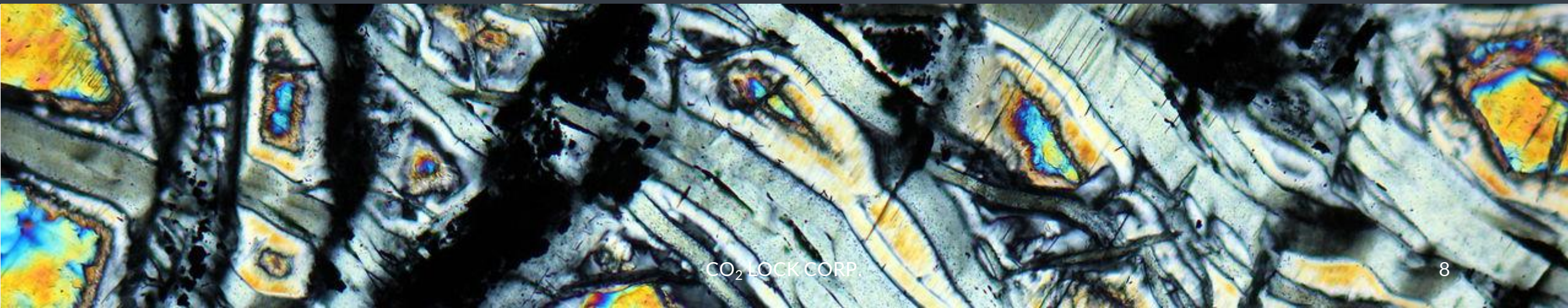
CO_2 LOCK HAS 4 WORKSTREAMS

EXPLORATION &
TENURE AQUISITION

EX-SITU
WATER EXTRACTION

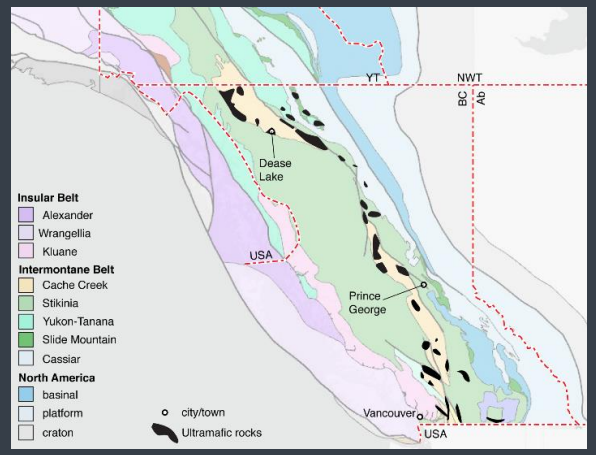
EX-SITU
MINERAL EXTRACTION

IN-SITU
CO_2 INJECTION



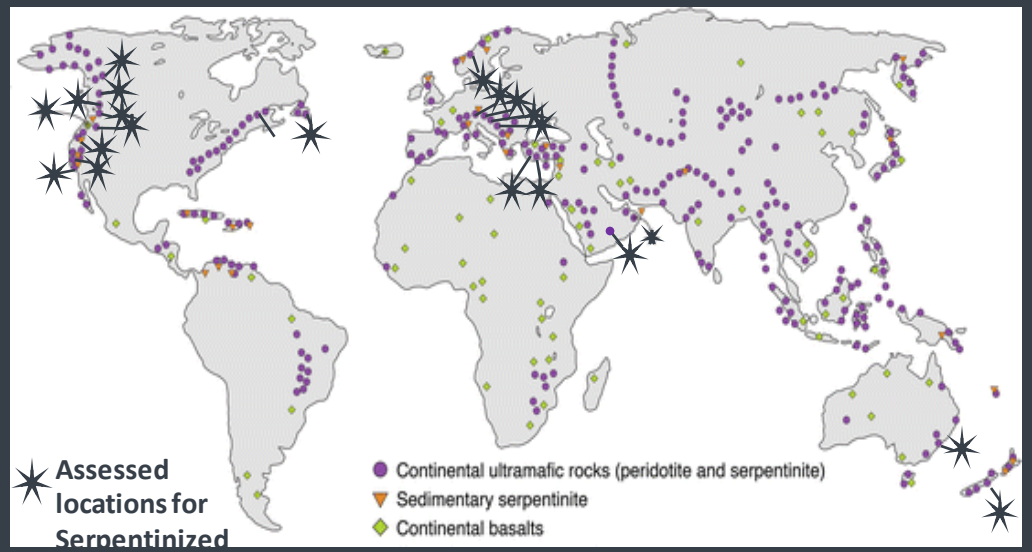
EXPLORATION AND TENURE ACQUISITION

CO2 Lock is acquiring additional tenure to support commercialization



- Using data provided by FPX Nickel and internal geological expertise, CO_2 Lock is acquiring tenures in areas of BC with BRSP occurrences for CCS project development
- Focus for tenure acquisition in areas that are near major industrial centers and infrastructure access

- Global tenures acquisition plan will focus on occurrences and potential for CCS project development



EX-SITU MINERALIZED CO_2

Alkaline water is extracted from BRSP

CO_2 stream is injected into the alkaline water to mineralize the CO_2

Resulting material repurposed in agriculture, forestry, and other sectors

Development Sequence

- Tenure acquisition
- Regulatory approvals
- Acquire CO_2 supply
- Drill water injection and recovery wells
- Compression and pumping
- CO_2 storage verification

EX-SITU PROCESSED MATERIALS

A new way to using mining technology to store CO_2

Serpentinized Peridotite rock is extracted and processed

Processed rock is either:

Regularly churned and watered to accelerate and maximize reaction with atmospheric CO_2, or

A CO_2 stream is injected into the materials to accelerate and maximize mineralization.

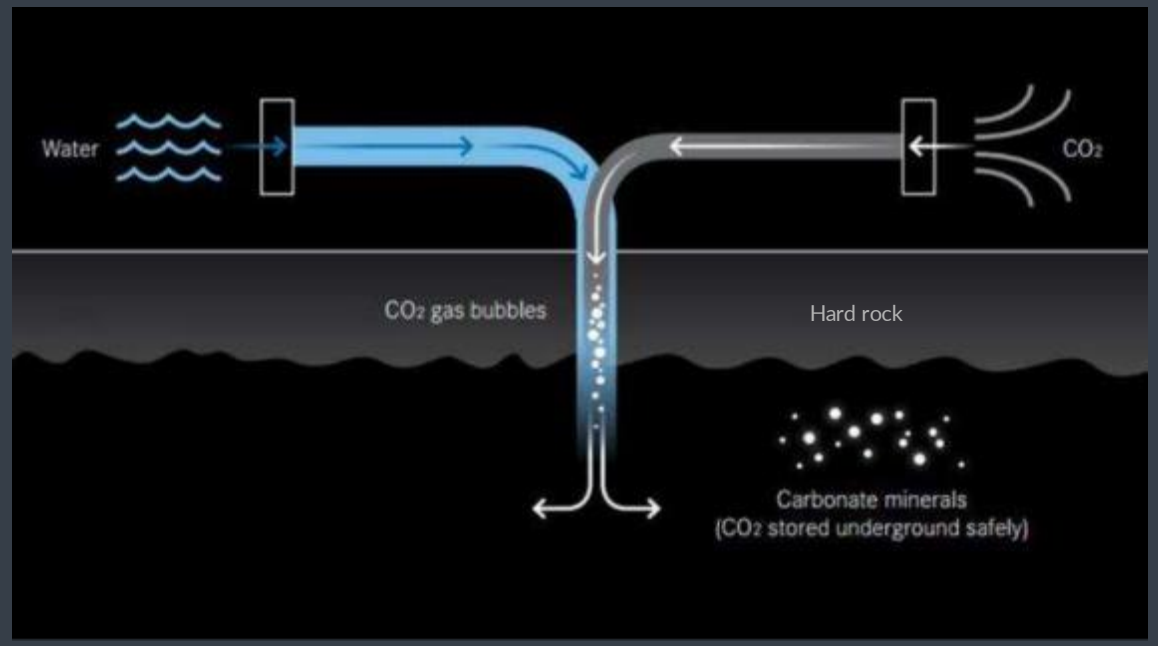
Resulting material will permanently mineralize CO_2

Development Sequence

- Tenure acquisition
- Complete regulatory approvals
- Mineral extraction and processing
- Material preparation
- Acquire CO_2 supply
- Compression and pumping
- CO_2 storage verification

IN-SITU STORAGE

Reimaging mining and oil and gas technologies to permanently store and verify CO_2



https://phys.org/news/2016-10-co2-stone.html

Development Sequence

- Tenure acquisition
- Regulatory approvals
- Acquire CO_2 supply
- Drill water injection and recovery wells
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TEAM

Science, business and resource sector leaders with track records of success

DR. PETER M. D. BRADSHAW, P.ENG.
FOUDING DIRECTOR

Chairman, FPX Nickel Corp.

Geologist with 45 years international mineral exploration and R&D experience in over 30 countries with Barringer Research, Placer Dome and Orvana Minerals

Founder or co-founder of several successful companies which are now public

Member, Canadian Mining Hall of Fame

Founder of BRIMM (Bradshaw Research Initiative for Minerals and Mining) at UBC

MARTIN TURENNE, CPA, CA
FOUNDING DIRECTOR

President, CEO and Director of FPX Nickel Corp.

Senior executive with over 15 years' experience in the commodities industry

Extensive leadership experience in strategic management, fundraising, economic analysis, financial reporting, regulatory compliance and corporate tax

DAVID MOLINSKI, BA, MNRM
FOUNDING DIRECTOR & CEO

Principal, OnPoint Consulting

25-year career in energy sector

Extensive career in government including Assistant Deputy Minister, Oil and Gas Division, BC Ministry of Energy, Mines and Low-Carbon Innovation and

Led Policy and External Affairs Team with Chevron Canada

PATH TO COMMERCIALIZATION

$1.5M
Investment Round

$25-50M
Investment Round

2022 | 2024 | 2026 | 2028 | 2030 | 2032

Phase 1 – Start Up

Build Executive and Scientific Team

Advance R&D Program

Acquire non-dilutive funding

Acquire tenure and conduct field exploration

Phase 2 – Acquire properties; Large-Scale Demonstration Project; Global Expansion Planning

Develop and execute large-scale demonstration projects (ex-situ and in-situ)

Plan initial Commercial Project

Initiate global evaluation for additional projects – select portfolio of project options

Phase 3 – Operation and Global Project Short List

Commence initial Commercial Project

Identify and create prioritized list of global projects to advance

Phase 4 – Global Expansion, Create Portfolio of Projects

Focus on global expansion

Create portfolio of global projects

Produce project development plans and economics for highest priority global projects

CONTACT

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