



Mining Services Vietnam



March, 2026

# CAPABILITY STATEMENT

Practical, high-quality mining solutions from exploration to operations. Western standards, local expertise.

Website

<https://dma-msv.com/>

GET STARTED



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# 01. COMPANY OVERVIEW



**Mining Services Vietnam (MSV)** is a Vietnam-based mining services company **delivering practical, high-quality solutions** to uncover potential and drive progress for our clients across Southeast Asia.

**Leveraging our strong local presence**, regional experience, and international technical capability, MSV provides **cost-effective**, practical mining solutions that meet **Western technical and safety standards**, while remaining aligned with local cost structures and operating conditions.



**High-standard  
Cost-effective**

**Mining services**

**Protect the environment**

**Ensure safety & well-being**

**of people and  
communities**



## Key Mining Jurisdictions



Vietnam



Laos



Cambodia



Thailand



Malaysia

## Our Commodities

Gold

Copper

Zinc

Nickel

Antimony

Lead

# 01. COMPANY OVERVIEW



## EXPLORATION & GEOLOGICAL SERVICES

MSV provides an end-to-end exploration capability, combining program design, execution, and technical reporting using in-house teams, equipment, and specialist support. This integrated approach improves data quality, schedule control, and cost efficiency.

1

Grassroots exploration

2

Geophysical surveys

3

Geological database management and technical reporting

4

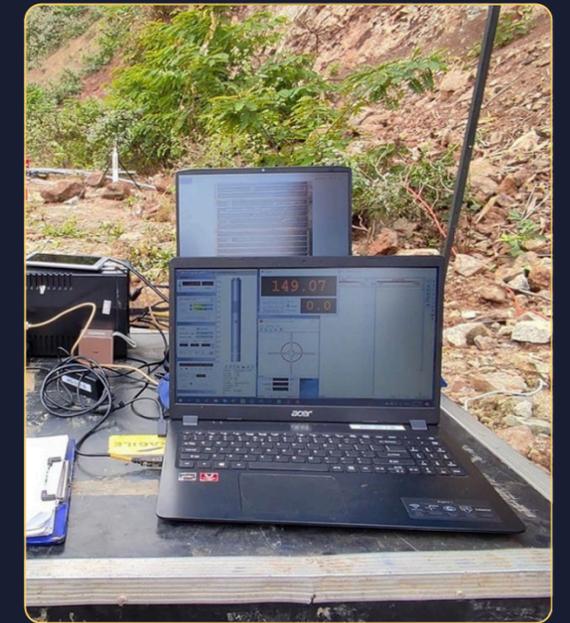
In-house core logging, sampling, laboratory management, data preparation



## RESOURCE & RESERVE DEVELOPMENT

MSV develops geological, resource, and reserve models using industry-standard software including Surpac and Micromine, compliant with local, JORC, and NI 43-101 reporting requirements.

Reserve development includes mine optimisation and reserve conversion studies, supported by an extensive internal cost database, with certification provided by MSV's Competent Persons where required.



## PROJECT DELIVERY

MSV operates as Owner's Representative or EPCM contractor, managing engineering, procurement, construction, and commissioning to achieve scope, cost, schedule, quality, safety, and performance objectives.



## OPERATIONAL READINESS & SUPPORT

MSV supports the transition from development to steady-state operations, establishing robust, compliant operating organisations, including HR, procurement, finance, governance, HSE, and reporting systems.



# 02. COMPANY HISTORY

COMPANY



## FROM THE ORIGIN



### The Blackstone Minerals Limited

The Blackstone Minerals Limited (ASX:BSX), an Australian publicly listed company owned several mining assets, including a copper/gold porphyry project in the Philippines, a gold exploration tenement in Canada (Gold Bridge) and the Ta Khao Project in Vietnam, a fully integrated mine to refinery nickel project



2025

The Group established BSXC which was renamed to Mining Services Vietnam JSC (MSV), a mining services company specializing in exploration, mining, and mineral processing, supported by leading Vietnamese and international experts, and equipped with modern exploration technologies ranging from drilling to geophysical surveys



Continuous

MSV has provided and continues to provide consultancy services for exploration, mining, and mineral processing projects in Cambodia (the Sambo Gold Project, Kratie Province), Laos (gold and nickel projects of Cavico Company, Bolikhamsay Province, Au project - Sayxombun Province), and Vietnam (Ban Phuc Nickel Mine, Son La Province)



Dec 2025

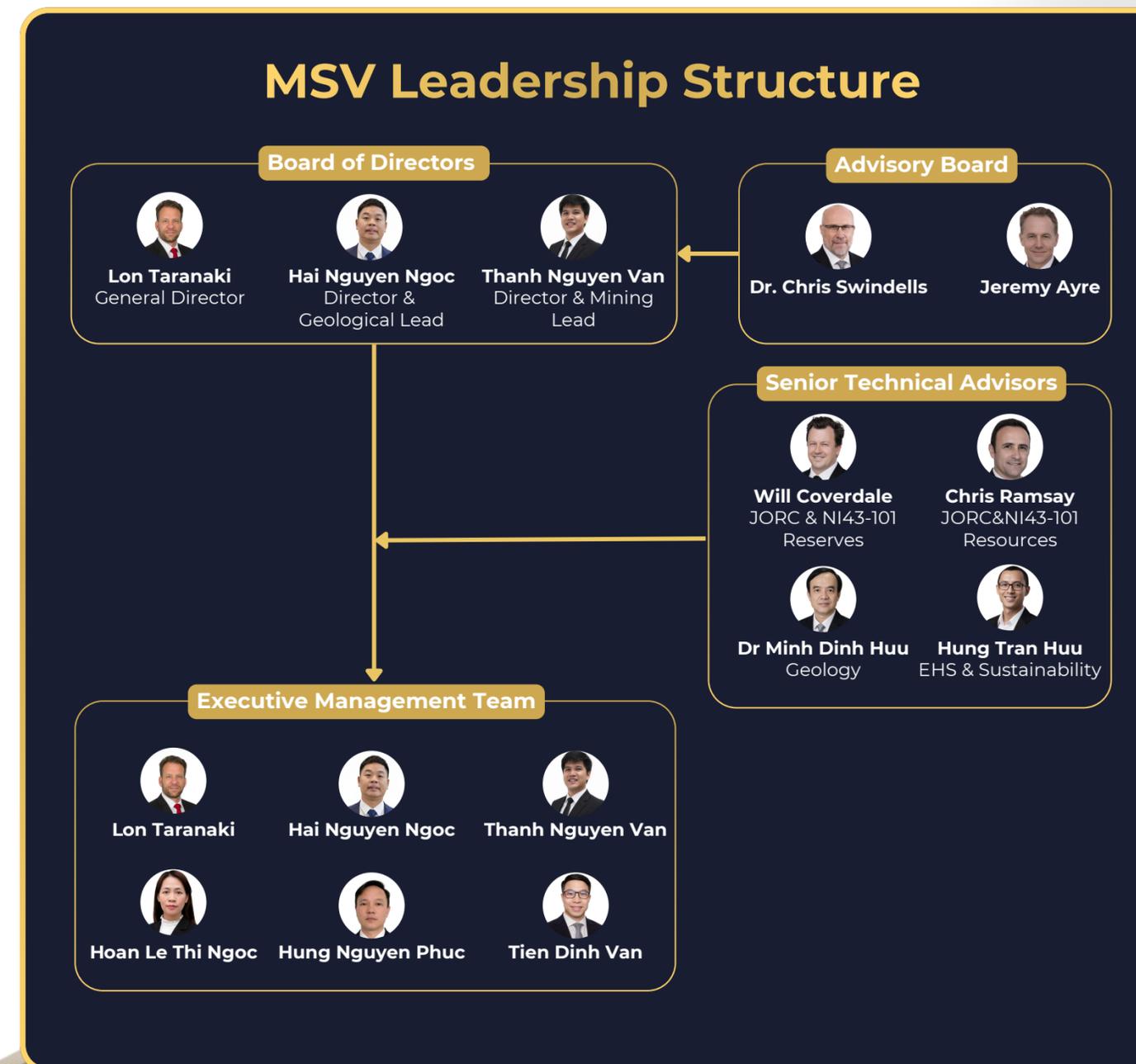
MSV separated from Blackstone Minerals and has been operating as an independent company

# 03. LEADERSHIP KEY PERSONNEL

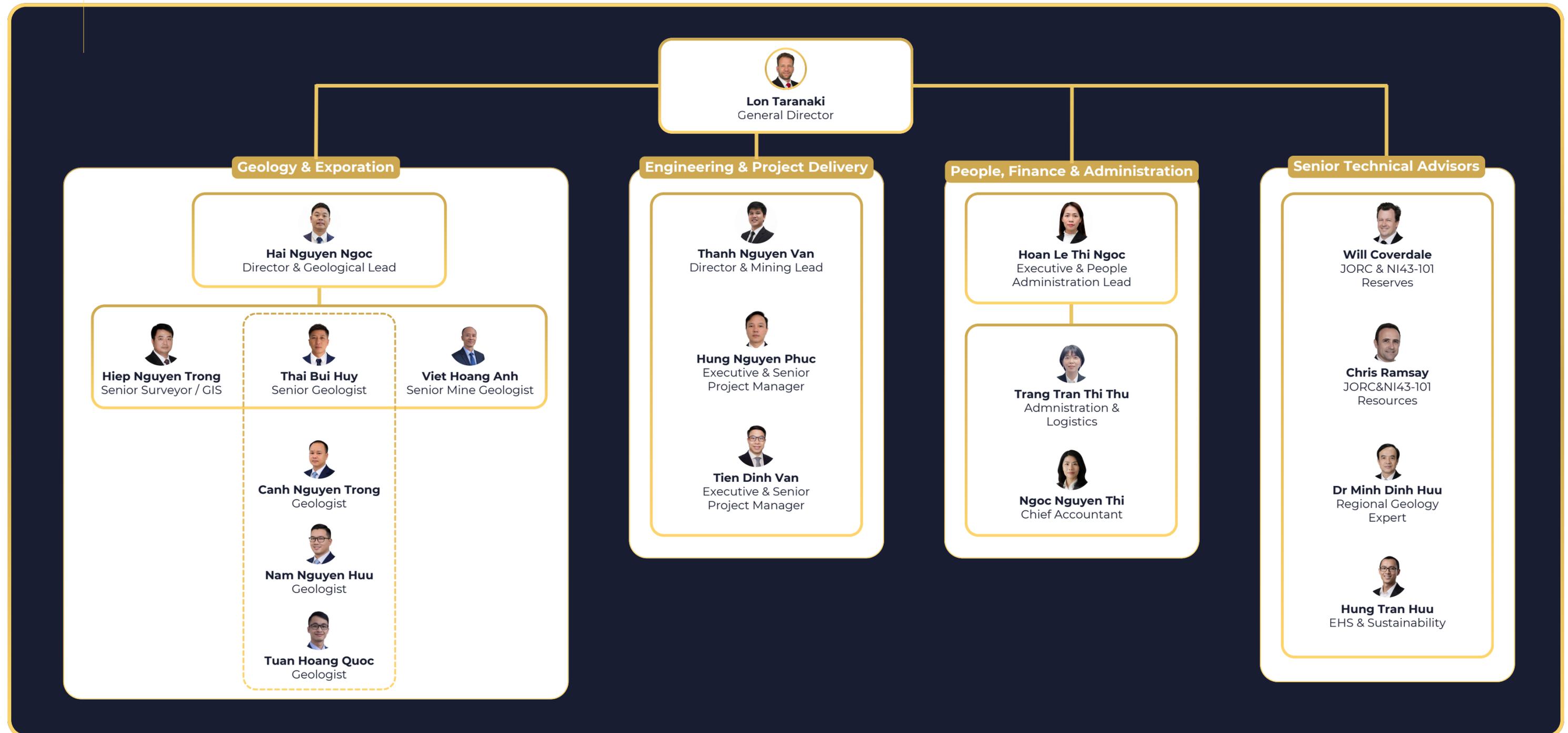


MSV has established a **strong local technical and management team**, supported by experienced and highly respected mining professionals. The company is guided by an **Advisory Board** of accomplished industry leaders, **providing strategic oversight and independent advice.**

In support of the executive management team, MSV has also engaged a group of **Senior Technical Advisors** who provide **JORC and NI 43-101 sign-off capability**, along with specialist expertise across **environmental, health, safety and sustainability (EHS&S)** and **geological disciplines**, ensuring robust governance, technical assurance, and compliance with international standards



# 04. COMPANY ORGANIZATIONAL CHART



# 04. COMPANY ORGANIZATIONAL CHART



## Experienced **Geology Team**

### Qualifications

- Exploration Geologists
- Mine Geologists
- Geophysicists
- Surveyors
- Drillers

### Capability

- Desktop geological reviews
- Exploration program design & implementation
- Grass roots exploration (mapping, soils, trenching)
- RC & diamond core drilling
- Core mapping
- Geological database management
- Geological modelling
- Resources modelling
- QA & QC management
- JORC standard qualified
- Reporting
- Survey-Lidar + GPS + Total Station
- Sample analysis management



**Hai Nguyen Ngoc**  
Director & Geological Lead



**Thai Bui Huy**  
Senior Geologist



**Hiep Nguyen Trong**  
Senior Surveyor/GIS



**Viet Hoang Anh**  
Senior Mine Geologist



**Canh Nguyen Trong**  
Senior Geologist



**Nam Nguyen Huu**  
Geologist



**Tuan Hoang Quoc**  
Geologist

# 04. COMPANY ORGANIZATIONAL CHART



## Experienced Engineering & Project Delivery Team

### Qualifications

- Mining Engineer
- Civil Engineer
- Mechanical Engineer

### Capability

- Mine Design
- Mining Operation
- Drill & Blast design and Management
- Fixed Plant Maintenance
- PFS & DFS Study Management
- Geotechnical Study Management
- Under Ground and Open Cut Capability
- Road Design
- Preventative Maintenance Planning
- EIA management
- Licensing & Permitting



**Thanh Nguyen Van**  
Director & Mining Lead



**Hung Nguyen Phuc**  
Executive & Senior Project Manager



**Tien Dinh Van**  
Executive & Senior Project Manager

# 05. COMPANY MEMBER CURRICULUM VITAE



## Lon Taranaki

### General Director

- Bachelor of Engineering - Minerals Processing
- Executive MBA - NUS Singapore
- Accelerated Leadership - London Business School
- AusIMM Membership

#### Leadership, Project Delivery & Mining Services

The company is led by a senior mining executive team with over 30 years of international experience delivering mining and resource projects across Southeast Asia and global jurisdictions.

#### English Proficiency

Spoken ★★★★★ Written ★★★★★

### Core Capabilities

- End-to-end mining project development and delivery
- Corporate and strategic advisory for resource companies
- Technical expertise across gold, copper, nickel, coal, and base metals
- Regional execution capability across Vietnam, Cambodia, Indonesia, Thailand, Brunei, and Singapore

### Track Record

- Established and led national management teams in Vietnam
- Returned loss-making mining operations to profitability
- Scaled renewable energy IPP projects for mining clients
- Senior leadership roles in ASX -listed and private mining companies

### Value Proposition

- Reduced technical, regulatory, and execution risk
- Accelerated project timelines
- Alignment with international investors and lenders
- Practical, commercially grounded solutions in emerging markets

# 05. COMPANY MEMBER CURRICULUM VITAE



## Hai Nguyen Ngoc

### Director & Geological Lead

- Master of Science in Geology
- Certificate of Exploration Project Management
- Post Graduate Diploma in Mineral Exploration
- AusIMM Membership

#### Exploration & Resource Geology Capability

The company's geological capability is supported by senior technical leadership with nearly 20 years of professional experience in mineral exploration, mine geology, and resource development across Southeast Asia and international jurisdictions.

#### English Proficiency

Spoken ★★★★★

Written ★★★★★

#### Core Capabilities

- Mineral exploration and mine geology across multiple commodities
- Resource definition, estimation, and technical reporting
- Geological modelling, interpretation, and data integration
- Exploration proposal preparation and permitting support, including IP, IC Dossier, and exploration licences
- Management and interpretation of drilling, sampling, and geotechnical data
- Proficient use of industry-standard geological software including MapInfo, Surfer, Micromine, and Surpac

#### Track Record

- Contributed to resource upgrade programs in Ni-Cu sulphide systems, supporting improved resource confidence and classification
- Led preparation of reserves reports and exploration proposals for Ni-Cu projects during 2023-2024
- Supported the successful application and extension of exploration licences for major mineral projects in Vietnam
- Provided appraisal and technical review support for copper, gold, rare earth, and iron projects across Vietnam, Canada, and Laos

#### Value Proposition

- Reduced geological, technical, and permitting risk
- High-quality, defensible geological and resource documentation
- Strong alignment with international exploration and reporting standards
- Practical, field-driven geological insight supporting decision-making and project advancement

# 05. COMPANY MEMBER CURRICULUM VITAE



## Thanh Nguyen Van

### Director & Mining Lead

- Bachelor of Science in Mining
- Certificate of Explosive Management
- Certificate of Mine Rescue

The company provides experienced underground & open-pit mining engineering capability, supporting mine development, production, & regulatory compliance across a range of commodities & operating environments. This capability combines hands-on operational mining experience, mine planning & engineering systems, and regulatory permitting support, enabling safe, efficient, compliant mining operations.

### English Proficiency

Spoken ★★★★★ Written ★★★★★

### Core Capabilities

- Underground and open-pit mining engineering and operations support
- Mine planning, scheduling, production optimisation
- Preparation and support of mining proposals and permitting documentation (IP, IC Dossier, EIA, mining licences)
- Integration of mining engineering inputs with geology and surveying teams
- Use of industry-standard mining and geological software including MapInfo, Surpac, VentSim, RingKing, and AutoCAD
- Underground void scanning and cavity monitoring using C-ALS and CMS systems

### Track Record

- Contributed to underground mining operations at the Ban Phuc Nickel Mine (2011–2016), supporting production in massive sulphide vein systems
- Provided underground mine planning support at the Phuoc Son Gold Mine (2016)
- Supported open-pit nickel mining operations at Cao Bang in disseminated sulphide systems (2017–2021)
- Contributed to combined open-pit and underground nickel operations at Ban Phuc (MSV & DSS) from 2022 to present, serving in a senior mining engineering role
- Served as a member of appraisal councils assessing rare earth, copper, and nickel projects across Vietnam and Canada

### Value Proposition

- Practical, production-focused mining engineering support
- Improved mine planning confidence and operational efficiency
- Reduced technical and regulatory risk through compliant permitting inputs
- Strong integration between mining, geology, and survey disciplines
- Experience across both underground and open-pit mining environments

# 05. COMPANY MEMBER CURRICULUM VITAE



## Hoan Le Thi Ngoc

### Executive & Human Resource Lead

- Master of Human Resources
- SHRM Senior Certified Professional® (SHRM-SCP)

The company provides human resources, organisational design, and talent management capability supporting mining & industrial projects across multiple stages of development, from project start-up through steady-state operations. This capability combines strategic HR leadership, hands-on implementation, & industry-specific experience, with strong focus on mining-sector workforce requirements, compliance, operational effectiveness.

#### English Proficiency

Spoken ★★★★★

Written ★★★★★

#### Core Capabilities

- Human resources management across mining, fintech, FMCG, and industrial sectors
- Organisational structure design and HR system establishment
- Development and implementation of HR policies, procedures, and governance frameworks
- Recruitment, talent acquisition, and workforce planning
- Payroll management and HR operations support
- Implementation of global HR systems and platforms (SAP, HRIS, Ignite, and related systems)
- HR project management and stakeholder engagement
- Leadership, consultation, communication, and relationship management

#### Track Record

- Provided senior HR supervision for the Ban Phuc Nickel Mine under Asian Mineral Resources (2012–2016)
- Served as HR Business Partner and Talent Acquisition Supervisor at Home Credit Vietnam (2016–2021)
- Led HR functions at Blackstone Minerals (2021–2025), supporting upstream and downstream project development
- Currently leading HR operations for Mining Services Vietnam (MSV) (2025–present)
- Provided HR system set-up, policy development, and talent acquisition support for the Mankayan Gold Project, Philippines (2025)
- Delivered HR consulting services for the Sambo Gold Project, Cambodia, supporting end-to-end HR system establishment and workforce mobilisation

#### Value Proposition

- Rapid, compliant HR system set-up for new and expanding projects
- Strong alignment between organisational structure and operational needs
- Effective recruitment and workforce mobilisation in emerging markets
- Reduced people and compliance risk through structured HR governance
- Practical, mining-industry-focused HR solutions that support project delivery

# 05. COMPANY MEMBER CURRICULUM VITAE



## Hung Nguyen Phuc

### Executive & Senior Project Manager

- Bachelor of Science in Mechanical
- General ASME CODE Training Course
- Certificate of ABB Certificate for motors and generators for hazardous areas

This capability integrates project management, multi-disciplinary engineering, and quality-driven execution, delivering technically compliant and operationally reliable facilities.

#### English Proficiency

Spoken ★★★★★ Written ★★★★★

#### Core Capabilities

- Project management and engineering coordination across mining and industrial projects
- Engineering design for structural steel, piping, and mechanical systems
- Mechanical analysis, optimisation, root-cause analysis, and cost-reduction initiatives
- Preparation and support of permitting and design documentation (IP, IC Dossier, EIA)
- Engineering support for mining concentrate plants and refinery facilities
- Fabrication, installation, and QA/QC for thermal power plants and oil & gas facilities
- Application of international engineering standards including ASME and ASTM
- Proficient use of engineering and design software including AutoCAD, Tekla, and Microsoft Office

#### Track Record

- Senior engineering support for the Ta Khoa Project, Vietnam (2022–present): design, permitting, execution activities
- Delivered engineering design work with accuracy within ±15%, supporting cost control/ project planning
- Submitted IP Dossier documentation supporting regulatory approvals
- Supported pCAM test work in Australia, contributing to downstream processing development
- Led engineering teams for both concentrate plant and refinery projects at Nui Phao Mining (2015–2021)
- Served as QA/QC Manager for thermal power plant projects at Lilama 18 (2012–2015)
- Supervised oil & gas shutdown activities at HIAPSE Engineering (2012)
- Managed maintenance and fabrication packages for oil & gas projects at Enersys & Flowserve (2009–2012)
- Supervised project execution and quality control at Doosan Heavy Industry Vietnam (2008–2009)
- Supported application/ extension of exploration licences for Ni–Cu projects Ta Khoa (2014, 2018)

#### Value Proposition

- Integrated engineering & project management from design through execution
- Reduced technical, cost, schedule risk through disciplined engineering control
- Strong QA/QC, compliance with international engineering standards
- Proven experience across mining, processing, power, oil & gas sectors
- Practical, execution-focused engineering support aligned with project outcomes

# 05. COMPANY MEMBER CURRICULUM VITAE



## Tien Dinh Van

### Executive & Senior Project Manager

- Master of Transport Works
- Certificates in Construction Supervision and Engineering Design of Transport

This capability integrates technical civil engineering, project and contract management, and multi-stakeholder coordination, enabling delivery of infrastructure assets in challenging regulatory, geographic, and contractual environments.

#### English Proficiency

Spoken ★★★★★

Written ★★★★★

#### Core Capabilities

- Infrastructure, transport, civil engineering design, delivery
- Management of topographic, geotechnical, hydrology surveys and studies
- Project management across feasibility, detailed design, and construction phases
- Contract management under multi-million-dollar contracts and FIDIC contract frameworks
- Management of contractors & subcontractors through construction execution
- Coordination, leadership of multidisciplinary design teams
- Preparation & management of permitting and approval documentation
- Proficient use AutoCAD - infrastructure design systems

#### Value Proposition

- Integrated infrastructure and civil project delivery from concept through construction
- Reduced schedule, cost, and interface risk through disciplined project and contract management
- Strong capability operating under FIDIC and donor-funded project frameworks
- Effective coordination across government, contractors, and international stakeholders
- Proven delivery experience in complex, multi-province and cross-border environments

#### Track Record

- Led infrastructure and civil studies for the Ta Khoa Nickel Refinery Project, Son La, Vietnam (2022–2024), including geotechnical investigations, investment policy dossiers, and permitting approvals
- Coordinated detailed design and approval processes for the Northern Mountain Provinces Connectivity Project across Lai Chau, Lao Cai, and Yen Bai provinces, Vietnam (2019–2021)
- Managed design teams and approvals for ADB-funded BOT infrastructure projects in Vangnam and Mandalay, Myanmar (2017–2018), including training and capacity development of local engineers
- Served as EPCM lead managing all client and contractor interfaces for the Southern Coastal Corridor Project (SCCI) in Kien Giang–Ca Mau provinces, Vietnam (2016–2018)
- Managed subcontractors for construction of three railway stations and the Yen Vien–Lao Cai railway upgrading project, Phu Tho–Lao Cai provinces, Vietnam (2013–2015)
- Led design and approval processes for the Infrastructure Construction Project for Van Canh Urban Area, Hanoi
- Led design and approval processes for the Hoanh Mo Border Gate Infrastructure Project, Quang Ninh Province
- Delivered multiple additional infrastructure and civil projects across Vietnam and the region

# 05. COMPANY MEMBER CURRICULUM VITAE



## Viet Hoang Anh

### Senior Mine Geologist

- Bachelor of Science in Geology

#### Underground Geology & Mine Operations Capability

The company provides experienced underground mine geology capability supporting active mining operations, resource control, and production optimisation, with particular strength in Ni-Cu sulphide systems and underground environments.

#### English Proficiency

Spoken ★★★★★ Written ★★★★★

### Core Capabilities

- Underground geological mapping, face mapping, and structural interpretation
- Grade control, ore-waste boundary definition, and production support
- Geological block modelling and underground resource control
- Supervision of underground drilling programs, including drill core logging, sampling, and QA/QC
- Design, management, and validation of underground drilling and face-sampling databases
- Interpretation of geological structures, rock mass conditions, and ground behaviour
- Integration of geology into mine planning and operational decision-making
- Proficient use of Vulcan, Surpac, Micromine, MapInfo, and Discovery geological software

### Track Record

- Supported resource upgrade programs for massive Ni-Cu sulphide ore bodies, contributing to reclassification of resources (333 category) and subsequent mining licence approvals
- Played a senior underground geology role during active production at the Ban Phuc Ni-Cu Mine (2013-2016), providing day-to-day geological support to mining operations
- Contributed to the successful application and extension of exploration licences for Ni-Cu projects at Ta Khoa, including approvals covering ~49.7 km<sup>2</sup> (2014) and ~34.7 km<sup>2</sup> extensions (2018)
- Contributed to the Ban Phuc Ni-Cu Project reserves report (2023-2024), supporting resource definition, mine planning, and production forecasting

### Value Proposition

- Improved grade confidence and ore control in underground operations
- Reduced geological and structural risk through disciplined mapping and data management
- Strong alignment between geology, drilling, and mining teams
- Practical, production-focused geological input that supports safe, efficient, and predictable mine performance

# 05. COMPANY MEMBER CURRICULUM VITAE



## Hiep Nguyen Trong

Senior Surveyor / GIS

- Master of Geodetic

### Surveying, Exploration Data & Resource Support

This capability combines field-proven surveying expertise with robust digital data systems & exploration reporting support, providing accurate, defensible inputs for geology, mine planning, and regulatory approvals.

### English Proficiency

Spoken ★★

Written ★★★

### Core Capabilities

- Topographic, underground, & down-hole surveying using certified survey systems
- GNSS, total station, digital level, UAV-based surveying
- UAV & LiDAR data acquisition, processing, integration
- Exploration & mining data management, validation, archiving
- Preparation & support of exploration reports, budgets, & licence documentation
- Geological, mining, geophysical mapping, data integration
- Resource-related data support (ore body interpretation & drill-hole identification)
- Proficient use of AutoCAD, MicroStation, MapInfo, Surpac, Vulcan, Leapfrog, Datamine Discover 3D, and Global Mapper

### Track Record

- Supported resource upgrade programs for massive Ni-Cu sulphide systems, contributing to reclassification of resources (333 category) and subsequent mining licence approvals
- Participated in the successful application and approval of exploration licences for Ni-Cu projects at Ta Khoa (49.7 km<sup>2</sup>, 2014)
- Supported the successful extension of exploration licences for Ni-Cu projects at Ta Khoa (34.7 km<sup>2</sup>, 2018)
- Contributed to the Ban Phuc Ni-Cu Project reserves report (2023–2024)
- Supported preparation of the Ban Phuc Ni-Cu Exploration Proposal (2024)
- Provided appraisal and technical support for copper, gold, rare earth, and iron projects across Laos

### Value Proposition

- Accurate, reliable surveying and spatial data to support exploration and mine planning
- Reduced technical and compliance risk through disciplined data management
- Strong integration between surveying, geology, and resource teams
- Defensible technical inputs aligned with regulatory and reporting requirements
- Practical, field-proven support for exploration and resource development programs

# 05. COMPANY MEMBER CURRICULUM VITAE



## Thai Bui Huy

### Senior Geologist

- Master of Science in Geology

#### Exploration Geology & Drilling Support Capability

This capability integrates field-based geology, drilling and geotechnical supervision, and technical reporting, ensuring exploration data is accurate, defensible, and aligned with mining and regulatory requirements.

#### English Proficiency

Spoken ★★

Written ★★★

### Core Capabilities

- Supervision of exploration drilling and geotechnical activities
- Geological mapping, sampling, and sample logging at site
- Preparation and support of exploration data and documentation for licensing submissions
- Provision of geological guidance and instructions to mining operations
- Ore type classification and ROM PAD definition for processing facilities
- Identification and mapping of geological structures and zones of poor ground conditions affecting mining
- Down-hole surveying using certified survey systems
- Proficient use of geological and mining software including MapInfo, AutoCAD, Vulcan, and Surpac

### Track Record

- Contributed to resource upgrade programs for massive Ni-Cu sulphide ore bodies, supporting reclassification of resources (333 category) and subsequent mining licence approvals
- Participated in the successful application and approval of exploration licences for Ni-Cu projects at Ta Khoa (49.7 km<sup>2</sup>, 2014)
- Supported the successful extension of exploration licences for Ni-Cu projects at Ta Khoa (34.7 km<sup>2</sup>, 2018)
- Contributed to the Ban Phuc Ni-Cu Project reserves report (2023–2024)
- Supported preparation of the Ban Phuc Ni-Cu Exploration Proposal (2024)
- Served as a member of appraisal councils assessing copper, gold, rare earth, and iron resources across multiple projects in Laos

### Value Proposition

- Reliable, well-controlled exploration and drilling programs
- Reduced geological, drilling, and permitting risk
- Strong integration between exploration, mining, and processing teams
- High-quality technical inputs supporting licensing, resource upgrades, and operational decisions
- Practical, site-driven geological insight that improves project outcomes

# 05. COMPANY MEMBER CURRICULUM VITAE



## Canh Nguyen Trong Geologist

- Bachelor of Science in Geology

### Exploration Geology & Site Operations Capability

This capability integrates hands-on field geology, exploration drilling supervision, and operational geology support, ensuring accurate geological interpretation and practical inputs to exploration programs and mining activities.

### English Proficiency

Spoken ★★

Written ★★★

### Core Capabilities

- Supervision of exploration drilling activities and field programs
- Geological mapping, sampling, and sample logging at site
- Provision of geological instructions for mining operations, including face markup for underground drilling and blasting
- Classification of ore types in ROM PADs for processing facilities
- Identification and mapping of geological structures and zones of poor ground conditions
- Field-based geological data collection using compass, GPS, and standard geology instruments
- Proficient use of exploration and mining software including MapInfo, AutoCAD, Discover, Surpac
- Basic optimisation support for open-pit mining operations

### Track Record

- Conducted exploration activities at the Samua Bronze Project, Huaphan, Laos (2008–2009)
- Contributed to rare earth exploration at Nam Xe, Phong Tho, Lai Chau Province (2009–2010)
- Supported iron ore exploration programs at Tung Ba, Vi Xuyen, Ha Giang Province (2010–2013)
- Provided geological support to gold mining operations at Pang Khan, Xaynhabury, Laos (2010–2013)
- Supported exploration management at Fespar-Quartz deposit, Phu Tho Province (2016–2019)
- Contributed to the Ban Phuc Ni-Cu Project reserves report (2023–2024)
- Supported preparation of the Ban Phuc Ni-Cu Exploration Proposal (2024)
- Served as a member of appraisal councils assessing copper, gold, rare earth, and iron resources across multiple projects in Laos

### Value Proposition

- Reliable, practical geological support in field and operational environments
- Improved geological understanding and ore classification at site level
- Reduced geological and operational risk during exploration and early mining stages
- Strong integration between geology, drilling, and mining teams
- Field-driven insight supporting efficient and safe project execution

# 05. COMPANY MEMBER CURRICULUM VITAE



## Nam Nguyen Huu

### Geologist

- Bachelor of Science in Geology

This capability integrates site-based exploration support, data management, and technical reporting, ensuring accurate, compliant, and defensible inputs for project evaluation and approval.

### English Proficiency

Spoken ★★ ★

Written ★★ ★★

### Core Capabilities

- Supervision of exploration and geotechnical drilling activities
- Sampling and sample logging at site
- Site-based exploration support and field coordination
- Preparation and management of exploration data and technical reports
- Support for exploration proposals, reserve reports, and permitting submissions (IP, IC Dossier, exploration licences)
- Down-hole surveying using certified survey systems
- Proficient use of exploration and geological software including MapInfo, AutoCAD, and Surpac

### Track Record

- Prepared technical data supporting reserve approval for the Diatomit Project, Phu Yen
- Contributed to the Ban Phuc Ni-Cu Project reserves report (2023–2024)
- Supported preparation of the Ban Phuc Ni-Cu Exploration Proposal (2024)
- Served as a member of appraisal councils assessing copper, gold, rare earth, and iron projects across Vietnam, Canada, and Laos

### Value Proposition

- Accurate, well-controlled exploration and drilling data
- Reduced technical and permitting risk through compliant documentation
- Strong integration between field activities and technical reporting
- Reliable support for reserve approvals and exploration licensing
- Practical, site-driven inputs aligned with regulatory and reporting standards

# 05. COMPANY MEMBER CURRICULUM VITAE



## Tuan Hoang Quoc

### Geologist

- Bachelor of Science in Geology

This capability integrates site-based exploration support, data management, and technical documentation, ensuring exploration inputs are accurate, traceable, and compliant with regulatory and reporting requirements.

### English Proficiency

Spoken ★★

Written ★★★

### Core Capabilities

- Supervision of exploration and geotechnical drilling activities
- Sampling and sample logging at site
- Site-based exploration support, mapping, and field coordination
- Preparation and management of exploration datasets and documentation
- Support for exploration proposals, reserve reports, and permitting submissions (IP, IC Dossier, exploration licences)
- Proficient use of exploration and geological software including MapInfo, AutoCAD, Surfer, and Surpac

### Track Record

- Contributed to the Ban Phuc Ni-Cu Project reserves report (2023–2024)
- Supported preparation of the Ban Phuc Ni-Cu Exploration Proposal (2024)
- Provided exploration and data support to the Cavico Gold Project in Laos

### Value Proposition

- Reliable, well-controlled exploration data and site support
- Reduced technical and permitting risk through disciplined data handling
- Strong linkage between field activities and formal technical reporting
- Practical, exploration-focused support aligned with regulatory requirements

# 06. FULL SUITE OF EXPLORATION EQUIPMENT AVAILABLE



## DRILL RIGS

Item	Equipment	Units	No.	Details
1	GK-300 Drill	Set	6	Drill to 300m depth
1	GX-ITD Drill	Set	4	Drill to 150m depth

## SAMPLE PROCESSING

Item	Equipment	Units	No.	Details
2	Handheld sample analysis equipment	Set	2	XRF method consists of two parts, Niton and Vanta, 300–500 samples/day, rapid analysis of elemental content
2	Almonte Pattern Cutter	Piece	1	100m samples/day

## GEOPHYSICS

Item	Equipment	Units	No.	Details
5	Downholes Survey DaviFlex	Set	1	Measure slope angle and borehole azimuth
5	Trucore Kit	Set	1	Core orientation platform for planned exploration project
5	Ground EM Tool	Set	1	EM Measurement
5	Borehole Transfer Field Measurement Equipment (DHEM)	Set	1	DHEM Measurement
5	3DIP Excitation Polarity Measuring Device	Set	1	3DIP Measurement

## GEODESY TOOL

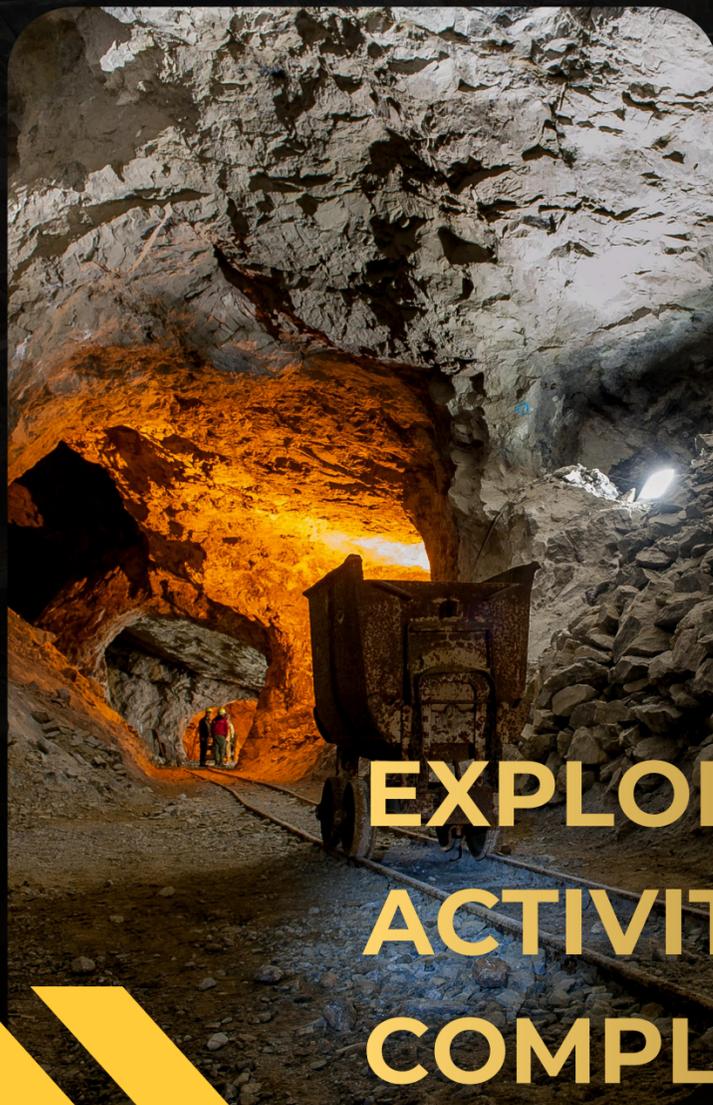
Item	Equipment	Units	No.	Details
3	Lidar - Drone	Set	1	LiDAR systems capture highly accurate 3D data
3	Total station TCRA-1200+	Set	2	Fast, continuous, high-accuracy angle measurements, ideal for scanning facades
3	Total station - Set 230R	Set	2	Fast, continuous, high-accuracy angle measurements, ideal for scanning facades
3	Trimble R2 GPS Locator	Set	3	Surveying GIS field assets
3	CHC Pro II GPS Locator	Set	3	Integrates CHC video photogrammetry technology, supporting video measurement and 3D modeling
3	Phantom V2 Pro	Set	1	30 min flight time, 7 km range, 5-directional obstacle sensing, 1" CMOS sensor with 4K@60fps video
3	VS150 Laser Scanning System	Set	1	3D Scanning Furnace Laser, 250 points/sec, 360° horizontal & 300° vertical scan range
3	Scanning Laser System (C-ALS®) Mk3	Set	1	3D laser scanning and camera recording in borehole

## CAPABILITY (ALL SOFTWARE PACKAGES)

No	Software Packages	Proficient	Ownership	No. Licenses
1	AutoCAD	x	x	1
2	MapInfo	x	x	1
3	Discover	x	x	1
4	Surpac	x	x	3

No	Software Packages	Proficient	Ownership	No. Licenses
1	Vulcan Mapteck	x	x	1
2	Micromine	x		
3	ATV structural analysis of drill hole	x		

# 07. DELIVERING RESULTS ACHIEVEMENTS & TRACK RECORDS



**EXPLORATION  
ACTIVITIES  
COMPLETED**



No	Exploration Activities Completed	Unit	Quantity	Timeline
1	Geological Map 1/25,000	Km <sup>2</sup>	497	2014–2016
2	Geological Map Measurement Volume 1/2,000	Km <sup>2</sup>	1,727	2014–2016
3	Volume of drilling performed	m	131,647 (706 holes)	2014–2022
4	Volume of trenches made	m <sup>3</sup>	3,752 (117 trench)	2014–2016
5	Sample	Sample	44,439	–
6	Volume of drill core samples taken and analyzed	Sample	27,411	2014–2022
7	Volume of soil samples taken and analyzed	Sample	17,028	2014–2018
8	EM Measurement Volume	Station	4,392	2014–2021
9	Volume measured from the ground	Point	4,341	2008–2010
10	Measured weight from the aircraft	Miles	280	1996
11	3D-IP Measurement Volume	Point	348	2023
12	Excavated furnace volume	m	9.068	2021–2022
13	ATV Scan Cracks, drill holes Vertical Structure	holes	20	2022

# 07. DELIVERING RESULTS ACHIEVEMENTS & TRACK RECORDS



2004

- Mineral Resources update Ban Phuc Nickel-Copper Prospect (JORC standard)

2006

- Exploration report of Ban Phuc Nickel Mine, Bac Yen District, Son La Province
- Report on conversion of reserves and resource levels – Ban Phuc Nickel Mine

2013

- Report on exploration and upgrading of resource blocks II-333 to VII-333 – Ban Phuc mine

- Project of exploration & upgrading of resource blocks II-333, III-333, IV-333, V-333, VI-333 & VII-333 – Ban Phuc nickel mine, Bac Yen district, Son La province

2014

- Exploration report of Ban Phuc Nickel Mine, Bac Yen District, Son La Province

- Nickel-copper ore exploration project in Ta Khoa area, Muong Khoa, Ta Khoa, Hong Ngai, Song Pe communes, Bac Yen district and Ta Hoc area, Mai Son district, Son La province

2018

- Mineral Resources update Ban Phuc Nickel-Copper Prospect (JORC standard)

2022

- Nickel-copper exploration report in Ta Khoa area

2023

- Appraisal of Exploration Report – Nickel Mine Suoi Cun, Cao Bang Province
- Synthesis and Appraisal of Nickel Oxide Mine Records – Bolikhamsay Province, Laos
- Buko Nickel Mine Reserve Assessment – Canada
- Synthesis and assessment of potential Dong Pao rare earth mine – Lai Chau Province, Vietnam

- Nickel-copper ore exploration project in Ta Khoa area (Apply for new exploration license)

2024

- Synthesis and assessment of Cu ore in Sao Tua mine – Son La Province, Vietnam
- Synthesis and assessment of Cu ore in Suoi Thau, Trinh Tuong mine – Lao Cai Province, Vietnam
- Synthesis and assessment of Mn Dong Tam and Coc He ores – Ha Giang Province, Vietnam
- Synthesis and assessment of Mn ore in Ban Khuong and Ta Van – Cao Bang Province, Vietnam
- Synthesizing and constructing the Gold Project – Bolikhamsay Province, Laos
- Summary and evaluation of potential Annammine Gold Mine – Vientiane, Laos

**TECHNICAL  
REPORTS, PAPERS  
& PROPOSALS**



Implemented Schemes & Reports



Reports

# 07. DELIVERING RESULTS ACHIEVEMENTS & TRACK RECORDS



## SCIENTIFIC WORK CARRIED OUT



No	Scientific Work Carried Out	Unit	Timeline
1	Suoi Dan Nickel Sulfur Mineralization (Dinh Huu Minh)	Technical Paper	2023
2	Geological structure and characteristics of Nickel sulphur mineralization – Ban Phuc Son La Mine (PhD Thesis – University of Mining and Geology)	Thesis	2003
3	Geological characteristics and controlling factors of nickel mineralization in Northeast Ban Phuc Mine (Master's thesis)	Thesis	2013
4	Application of ultrasonic borehole (ATV – Acoustic Televiwer) to analyze fracture structure of rock foundation	Technical Paper	2024



# 08. OUR PROJECTS



## SAMBO CAMBODIA

Aug 2025 - Ongoing

**GOLD**  
Commodity

### DESCRIPTION

Providing the client with a full suite of services to take their project from exploration through production.

#### SERVICES

Exploration & Geological Services ✓

Resource & Reserve Development ✓

Project Delivery (Owner's Team & EPCM) ✓

Operational Readiness & Support ✓

#### DELIVERY MODELS

Advisory ✓

EPCM ✓

Embedded Teams

# 08. OUR PROJECTS



## CAVICO LAOS

Aug 2024 - Aug 2025

**GOLD**  
Commodity

### DESCRIPTION

Provided the client with grass roots exploration services (mapping, soils, rock chips and trenching) and drill target generation for gold.

#### SERVICES

Exploration & Geological Services ✓

Resource & Reserve Development

Project Delivery (Owner's Team & EPCM)

Operational Readiness & Support

#### DELIVERY MODELS

Advisory ✓

EPCM

Embedded Teams

# 08. OUR PROJECTS



## XUAN LOC THO

Aug 2025 - Ongoing

**NICKEL**  
Commodity

### DESCRIPTION

MSV has 3 engineers embedded in the client's team to help advance permitting, licensing and project studies (including feasibility study & EIA)

#### SERVICES

Exploration & Geological Services

Resource & Reserve Development

Project Delivery (Owner's Team & EPCM) ✓

Operational Readiness & Support

#### DELIVERY MODELS

Advisory

EPCM

Embedded Teams ✓

# CONTACT INFORMATION



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