

### Labour a Key Influencers of a Project's Financial Success: BC Mining Perspective

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CENTRE OF TRAINING EXCELLENCE IN MINING

#### **Today's Presentation**

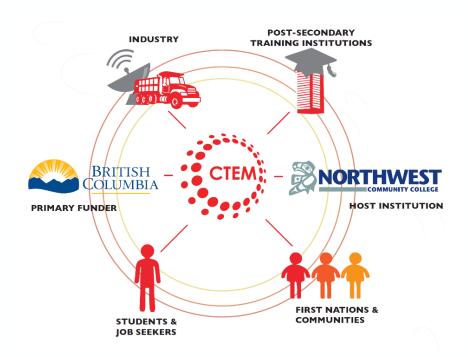
- CTEM Overview
- BC Mining Labour Market Information
- Questions and Discussion



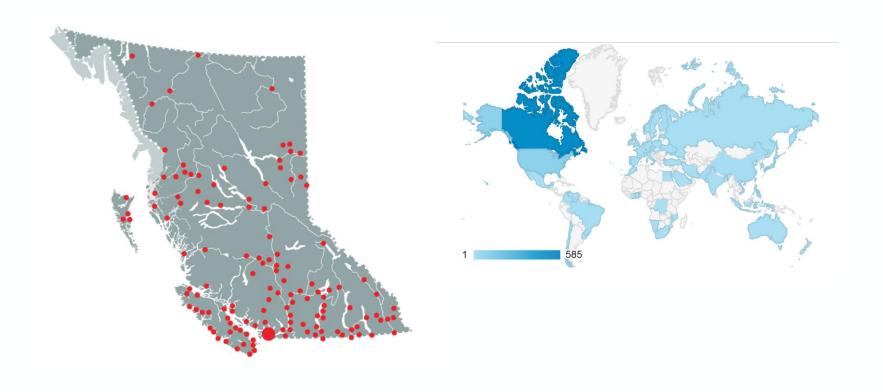
#### **CTEM**

VISION

A province-wide virtual hub that facilitates collaborative, innovative training opportunities for the British Columbia mining industry, job seekers and communities.



#### CTEM's Influence – Provincial and Global



#### Significance of Skills Shortage Impact on Projects



Source: EY, 'Business Risks Facing Mining & Metals 2013 – 2014, 2014.

#### Preparing for the Future:

Mining Labour Market Outlook for British Columbia



#### Key Recognition





Funding provided through the Canada-British Columbia Labour Market Development Agreement.











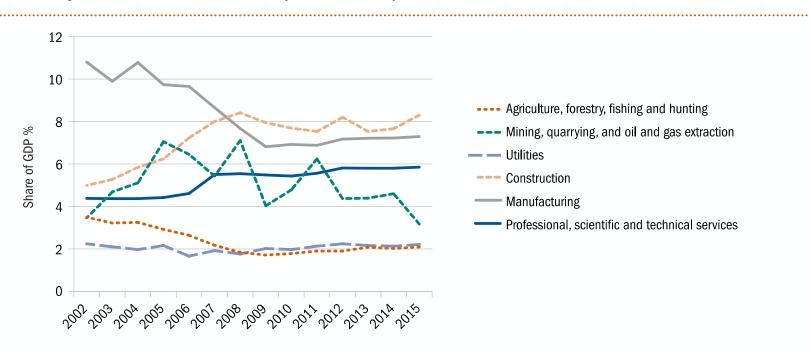
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Mining is an important sector in BC



## Mining is one of the major contributors to BC's economy

#### Industry share of GDP in BC (2002–2015)



Source: Statistics Canada. Table 379-0028 — Gross domestic product (GDP) at basic prices, by North American Industry Classification System (NAICS), provinces and territories, annual (percentage share), CANSIM (database), (2016)

#### Mining Generating Jobs & Boosting Economies



- 3-15% of employment in a country is mining (direct, indirect and induced)
  - 2-20% of Economic Contribution
    - Fluctuate between countries and over time
    - BC's 8.7 Billion of gross mining revenue (2016)

Source: International Council on Mining and Metals (ICMM), 'Role of Mining in National Economies', Third Edition.; PriceWaterhouse Coopers, 'The Minng Industry in British Columbia 2016', 2017.

#### Significance of Skills Shortage

Mining employers need a continuous flow of individuals through the "talent pipeline" to ensure they have a sufficient pool of qualified workers to meet future hiring requirements and support competitiveness and growth in the mining industry in British Columbia.

Source 'Preparing for the Future: Mining Labour Market Outlook for British Columbia 2016 - 2026



# 2 A look at the future



## If the mining industry expands, there will be a need to hire up to 20,000 workers over the next 10 years

#### Forecast of mining employment in BC by scenario (1987–2026)



Source: Mining Industry Human Resources Council, (2016)

#### Hiring requirements persist in all economic scenarios

#### BC cumulative hiring requirements forecast by scenario (2017–2026)

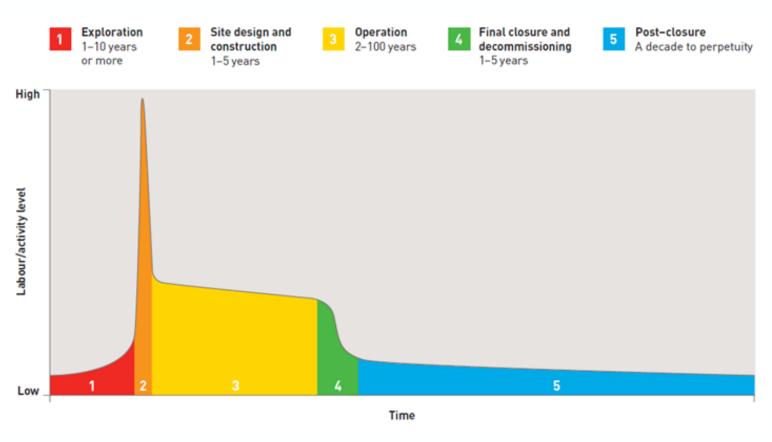
	Net Change in Employment	Replacement Requirements		Cumulative Hiring
		Retirement	Non-Retirement	Requirements
Contractionary	-5,985	6,670	6,295	6,975
Baseline	-730	7,415	7,015	13,705
Expansionary	3,980	8,105	7,690	19,770

Source: Mining Industry Human Resources Council, (2016)

# January (CAPEX and OPEX)



#### Labour needs over a project cycle

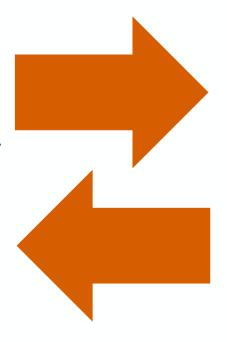


Source: International Council on Mining and Metals (ICMM), 'Mining's Contribution to Sustainable Development – An Overview', 2012.

#### Struggle to be Ready (a.k.a. the RISKS)

#### Individual

- Timing
- Job alignment / availability
- Cost of training
- Transferability
- Personal/Family
- Bridge to Employment



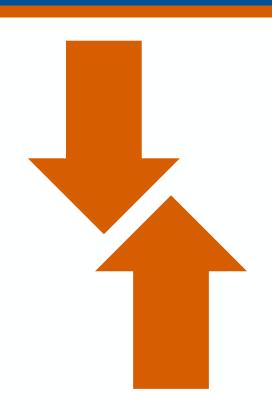
#### Company

- Delays in starting
- High capex cost
- Cost of training
- Retention
- Social Benefits
- Bridge to Employment

#### Consequences

#### Individual

- Timing
- Job alignment
- Cost of training
- Transferability
- Personal/Family



#### Company

- Delays in starting
- High capex cost
- Cost of training
- Retention
- Social Benefits

## The Disconnect



#### Skills Miss-Match

- Alignment of Training Opportunities
- Skill Transferability
  - Mining Life Cycle
  - Projects & Sectors
- Skills Upgrading



#### Job Postings



Source: BC HR Mining Task Force, 'BC Skilled Immigrant Report – Phase 1 and Phase 2', 2015.

#### Significance of Skills Shortage

"The focus on 'Canadian experience' combined with other biases employers may harbour not only costs employers their competitive edge, but it can cost them the opportunity to be innovators in their field."

Source: Fiona Macfarlane, IEC-BC Board Member quote from IECBC 2016 Employer Forum Final Report, March 2016. 6 THANK YOU

Questions?



## 5

Recommendations in the report



#### Collaboration is an Answer

























































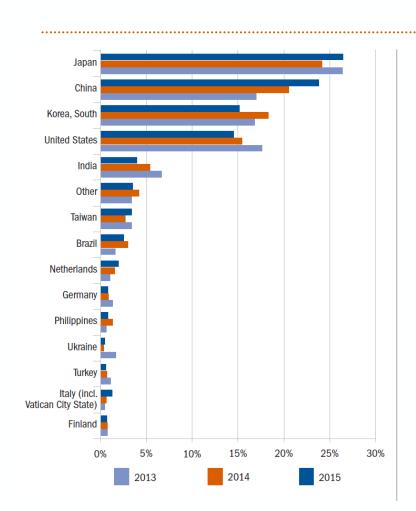




#### Key sources of labour supply

- Strengthen collaborative partnerships between employers and government to support labour market information collection and strategies for attraction, retention and transition of mining workers through mine life cycles.
- 2. Build upon findings to develop strategies to address critical job vacancies and support a sustainable workforce.

#### Destination of domestic mining exports from BC



#### Factors for Leaving

#### 50-50 Split

