

November 8, 2016

2016



### **PRESENTATION OVERVIEW**

- 1. What is Labour Market Information (LMI)?
- 2. Why do we need LMI?
- 3. Recent trends
- 4. HR challenges for mining
- 5. Diversity in the mining workforce

## What is LMI and what is it used for?

### Information on:

- 1) the demand for labour
- 2) the supply of workers

## Used in decision-making

- Government policy setting and spending
- Education programs and curriculum
- Employers hiring, retention, succession planning
- Career seekers what jobs are available and where
- Students what subjects and where to get the skills



# Demand for labour in mining

### **External influencers**

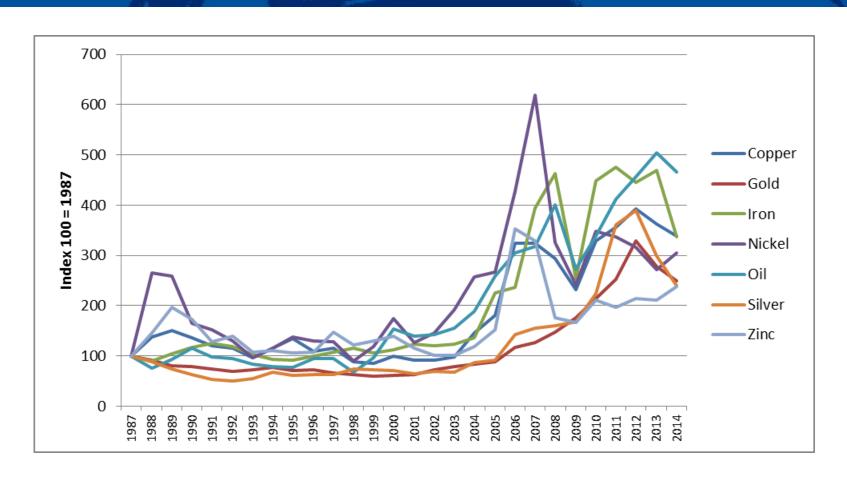
- Price of commodities mined
- Interest rates
- Exchange rate

## Internal considerations (output and inputs)

- Production levels
- Workers and machinery
- Productivity of labour and capital



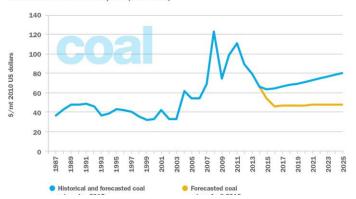
# Commodity price super cycle



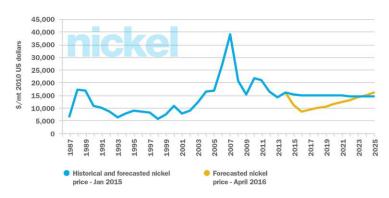


# Adjustments in the outlook for prices

#### Historical and forecasted coal prices (1987-2025)

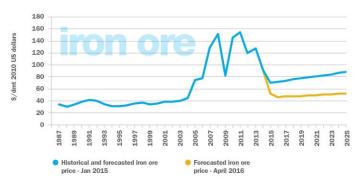


#### Historical and forecasted nickel prices (1987-2025)



Source: Mining Industry Human Resources Council, World Bank, 2016

#### Historical and forecasted iron ore prices (1987-2025)



Source: Mining Industry Human Resources Council, World Bank, 2016

#### Historical and forecasted copper prices (1987-2025)

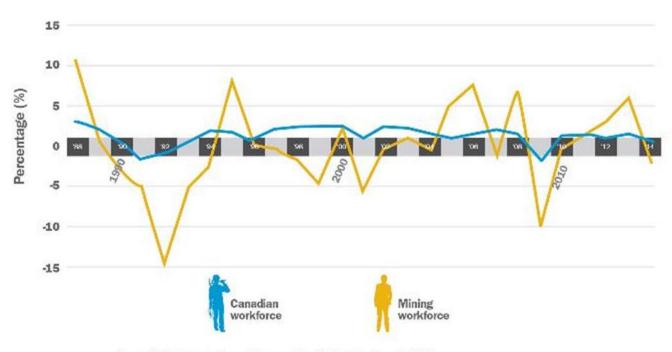


Source: Mining Industry Human Resources Council, World Bank, 2016



# Mining employment is more volatile

Annual percentage changes in employment, mining workforce and Canadian workforce (1988-2014)





# Supply of workers

<u>Entries:</u> new graduates, immigration, transition from other industries

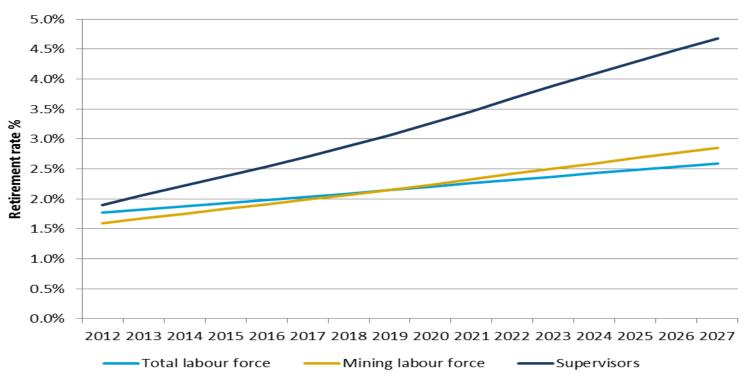
**Exits:** retirement and other reasons



# Exits

## 90,000 people will leave the industry by 2020

Almost 60 percent are retiring



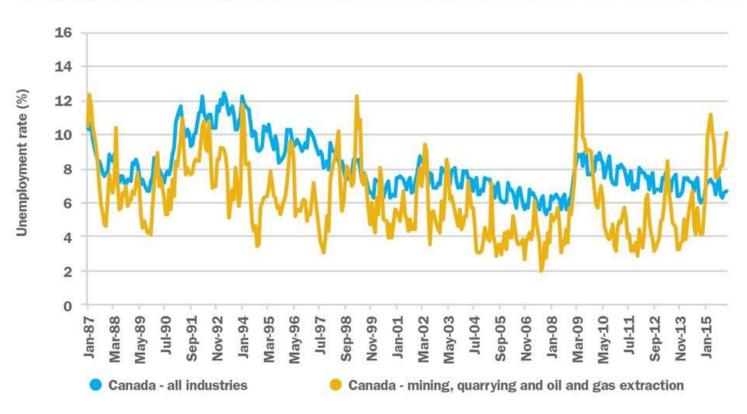
# Supply of workers

...is the result of the collective actions of a group of diverse individuals, each making personal and career choices



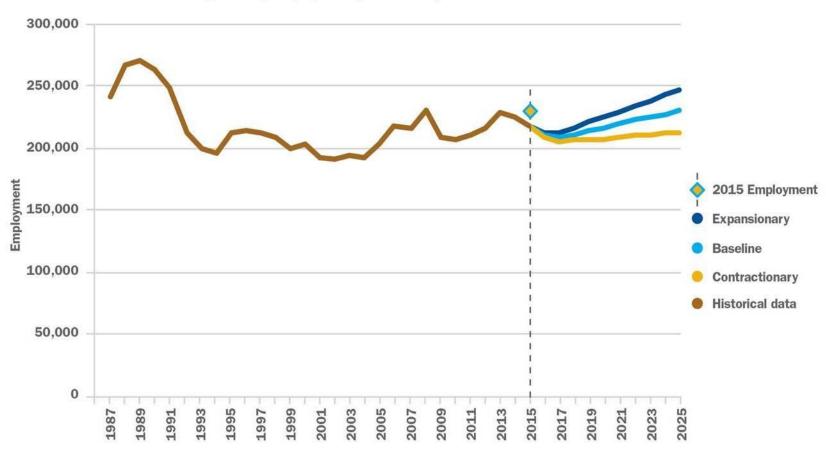
# Bigger swings in unemployment

Unemployment rate in Canada, all industries and in the mining industry (January 1987-December 2015)



# A contractionary scenario, reflective of recent industry performance

Historical and forecasted mining industry employment (1987-2025)



# Hiring requirements persist in all economic scenarios

#### Cumulative hiring requirements forecasts by scenario (2016-2025)

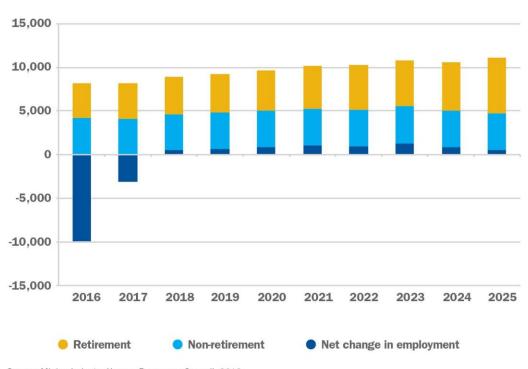
	Net Change in Employment	Replacement Requirements		Cumulative Hiring
		Retirement	Non-Retirement	Requirements
Contractionary	-6,330	48,600	41,830	84,110
Baseline	11,640	51,030	43,800	106,490
Expansionary	27,740	53,260	45,600	126,590

Source: Mining Industry Human Resources Council, 2015



# Replacement-requirements are the main driver of new hires

#### Annual hiring requirements forecast, contractionary scenario (2016-2025)



Source: Mining Industry Human Resources Council, 2016



## Assessing the talent gap – new entrants to mining

Comparing the hiring requirements to new entrants

- 70 occupations
- Graduates or school leavers
- Immigration
- Others



# Occupational gaps illustrated

#### **Hiring requirements**

- Construction managers
- Land surveyors
- Civil engineering technologists and technicians
- Other professional engineers
- Engineering managers

The gap between hiring requirements and new entrants is highest in these occupations

**New entrants** 



# Gaps emerge as the economy recovers

#### Occupational gaps, broad categories by scenarios (2016-2025)

Occupational Grouping	Contractionary	Baseline	Expansionary
Trades and Production Occupations	11,430	4,560	-1,615
Professional and Physical Science Occupations	21,560	980	-76
Human Resources and Financial Occupations	190	-390	-900
Support Workers	900	230	-380
Technical Occupations	2,660	1,820	1,070
Supervisors, Coordinators, and Foremen	1,260	40	-1,050
Total	18,604	7,244	-2,956

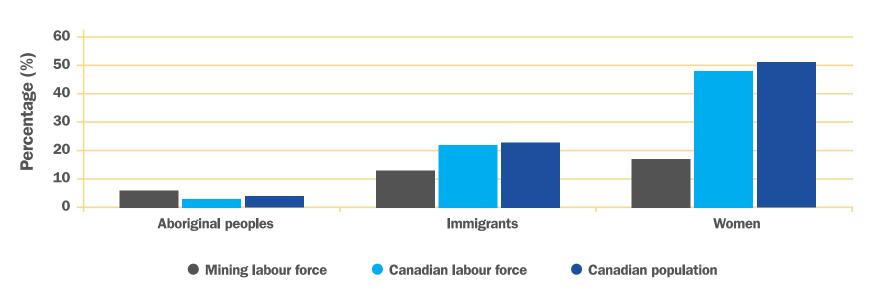
Source: Mining Industry Human Resources Council, 2015



KEY SOURCES OF LABOUR SUPPLY: DIVERSITY IN THE WORKFORCE

# Diversity in the Mining Labour Force

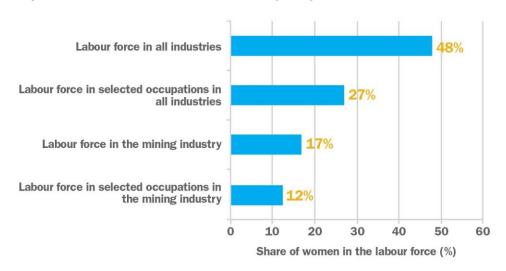
#### **Diversity in Canada's mining labour force (2011)**





# Women underrepresented in the mining industry and mining-related occupations

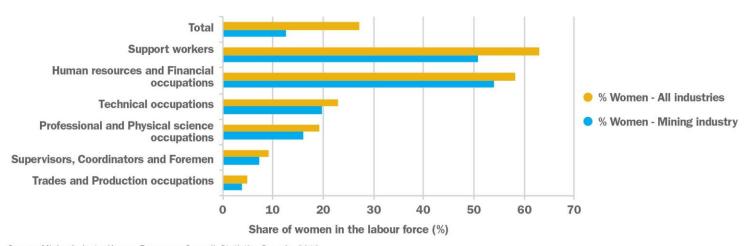
#### Representation of women in the labour force (2011)





# There are fewer women in the occupations that mining needs most

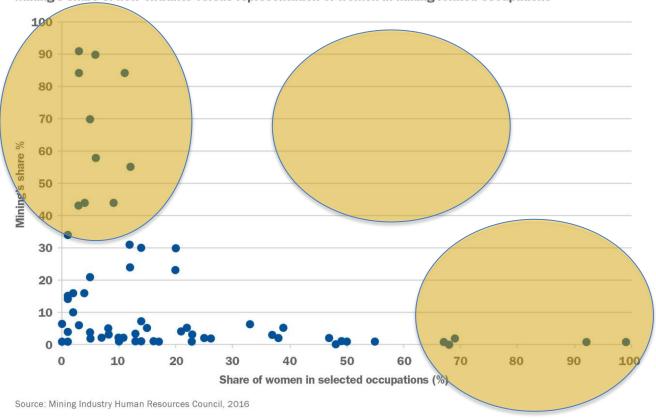
Representation of women in all industries and in mining, by broad occupational category (2011)





# Fewer women as occupations become more mining specific

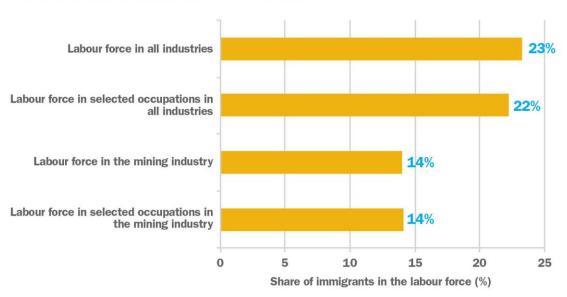






## Mining industry not getting its share of immigrants

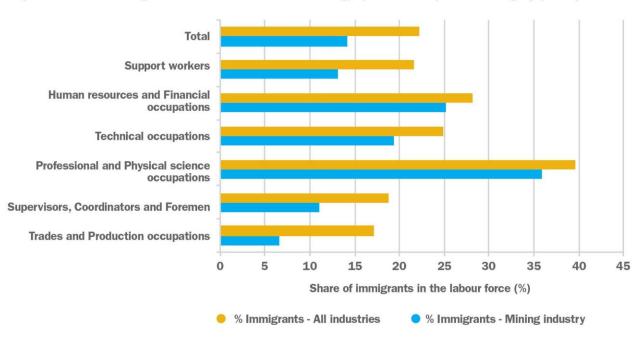
#### Representation of immigrants in the labour force (2011)





## Engagement of immigrant workers could be improved

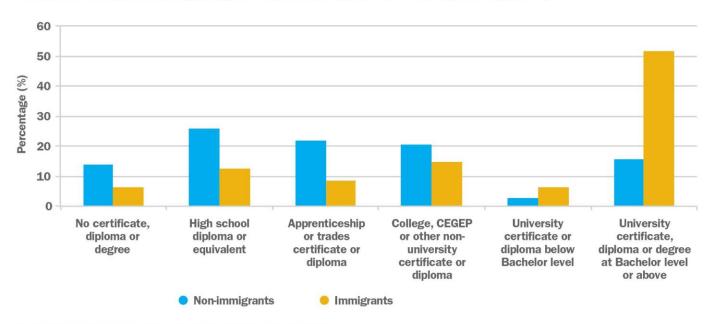
Representation of immigrants in all industries and in mining, by broad occupational category (2011)





## Immigrants more likely to hold a university degree

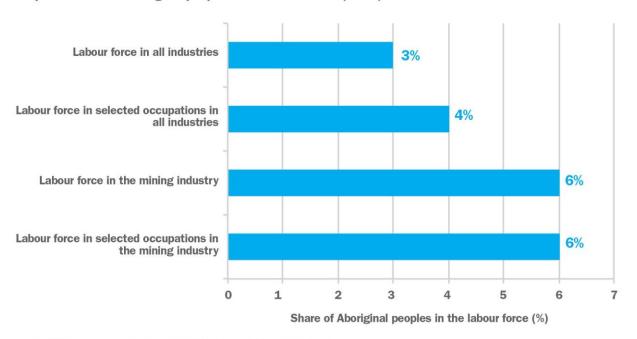
#### Educational attainment among immigrants and non-immigrants in the mining industry (2011)





# The mining industry is relatively successful in engaging Aboriginal peoples

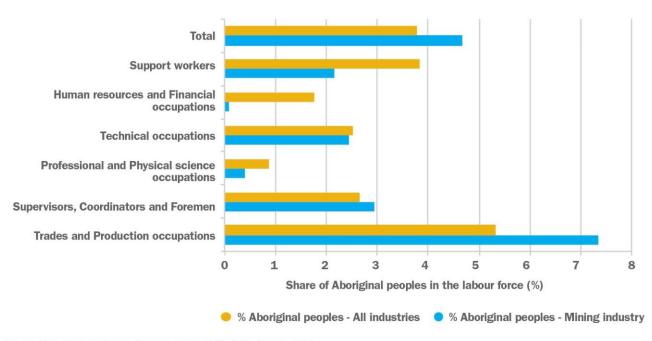
#### Representation of Aboriginal peoples in the labour force (2011)





# But lagging in the attracting Aboriginal people to some roles

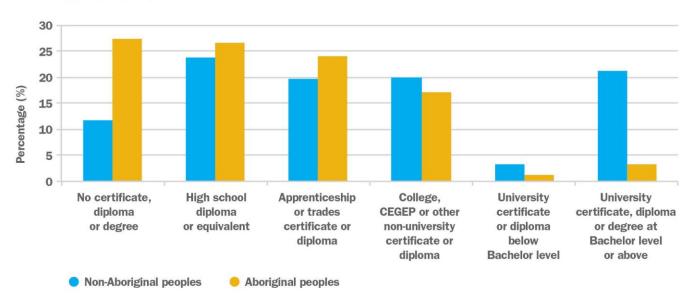
Representation of Aboriginal peoples in all industries and in mining, by broad occupational category (2011)





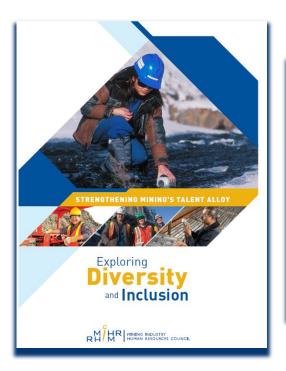
# Imbalance in educational attainment limits career opportunities

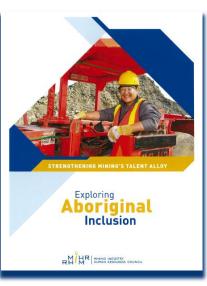
Highest level of educational attainment in Canada's mining labour force, Aboriginal peoples and non-Aboriginal peoples (2011)





# Strengthening Mining's Talent Alloy: Exploring Diversity and Inclusion







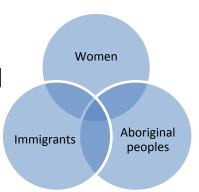


**Published April 2016** 



## Background: What are the Employment Barriers?

- Lack of career awareness or negative perceptions
- Lack of diverse senior leaders, role models and mentors
- Inflexible workplace practices
- Problematic workplace culture
- Inequitable opportunities for career advancement
- Lack of Industry network





# **Summary Findings**

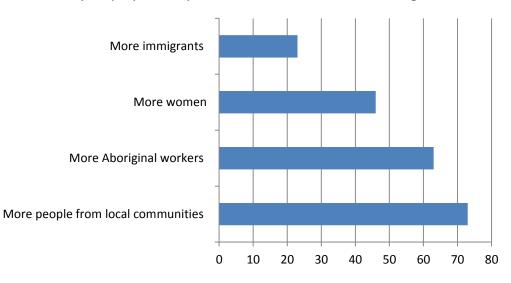
# There is some good news and room for improvement.

- Employers are trying to create inclusivity.
- Diverse talent pools are enthusiastic about their experience in mining.

### There are issues of equity.

- Access to opportunities,
- 'Fitting in' to the mining culture
- Recognition for qualifications.

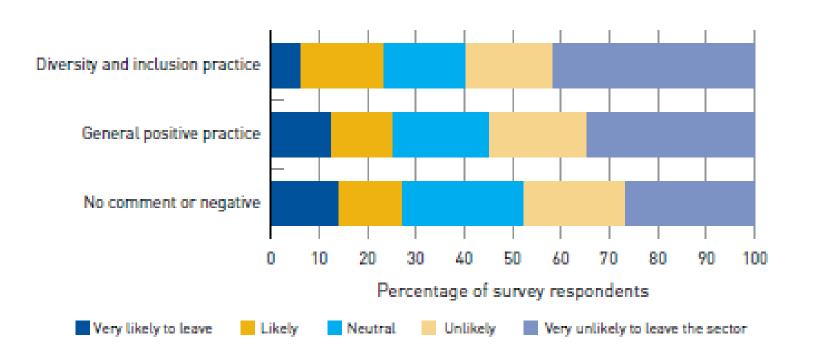
My employer always or often takes action to encourage ...





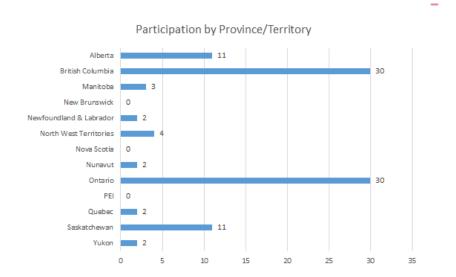
# Diversity and Inclusion Practices are Impactful

Figure 3: Diversity and inclusion practice and intentions to leave the sector

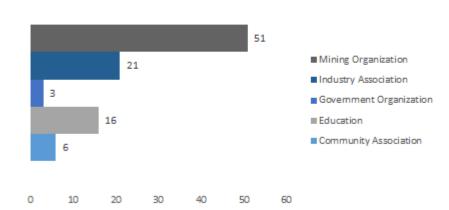




## National Diversity Dialogue: May 5 – 31, 2016



#### Participation by Organization Type



- 97 Participants (6 MiHR staff)
- 46 Women, 24 men and 27 provided no response to gender
- 17 Aboriginal, 4 new immigrant participants



## Key Themes identified in the National Diversity Dialogue

- Flexibility
- Greater collaboration
- Partnerships
- A broader definition of diversity
- Importance of success stories
- Shifting perspectives



# Building the Diversity and Inclusion Strategy – what are the strategic areas of focus?

- ✓ Building Inclusive Culture in Mining Workplaces
- ✓ Removing Systemic Barriers
- ✓ Ensuring Inclusion throughout Career Pathways (attraction, development, retention, transition).
- ✓ Championing Flexible workplace arrangements/practices
- ✓ Industry Partnerships for Inclusion



## **QUESTIONS?**

Barbara Kirby
Senior Director, LMI
Mining Industry HR Council
bkirby@mihr.ca