





#### Mining in Canada

HR Challenges and Opportunities





#### Overview of Presentation

- Human Resources Challenges in the Minerals and Metals Industry
- Sector Study Key Findings
- Recommendations
- Conclusions
- MiHR's role





## HR Challenges in the Minerals and Metals Industry

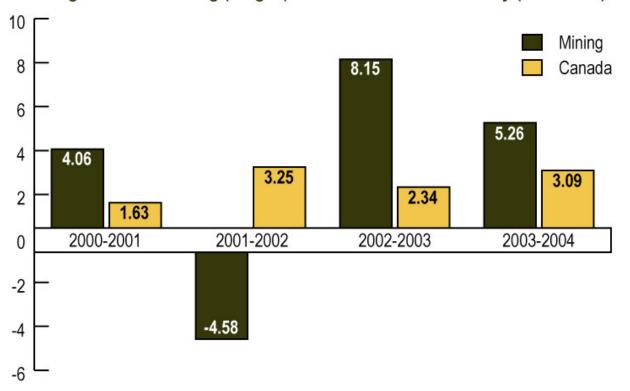
- The minerals and metals industry is one of Canada's most productive industrial sectors
- However, much of the current workforce is planning to retire
- Fewer and fewer young people are entering mining careers
- The industry suffers from an image problem, hampering recruitment efforts





#### Industry Growth

Change in GDP – Mining (Stage I) and the Canadian Economy (2000-2004)



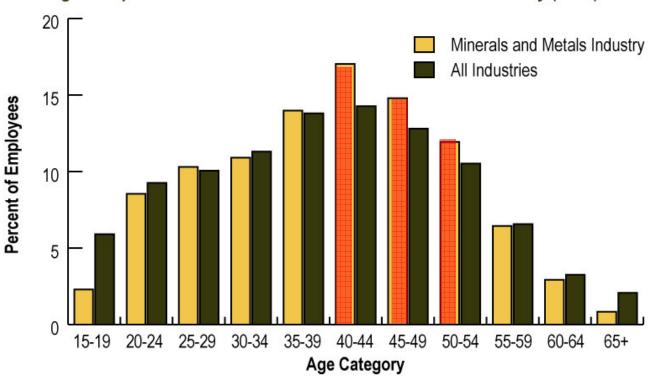
Source: Statistics Canada CANSIM table 379-0017





#### An Aging Workforce

Age Composition of the Canadian Minerals and Metals Industry (2001)



Source: Statistics Canada, 2001 Census





#### Retirement Projections

#### Estimated Retirement Trends for the Industry – Employer and Employee Forecasts (2005)

Time Period	Employer Estimate % Retiring	Employee Estimate* % Retiring
Five Years (2005-2009)	14.5%	16.9% <sup>1</sup>
10 years – cumulative (2005-2014)	24.5%	40.0%

Based on 2004 labour force baseline of 78,184 workers

1 Includes employees planning to take early retirement





#### Supply & Demand Gap

#### Estimated Supply and Demand Gap - Summary

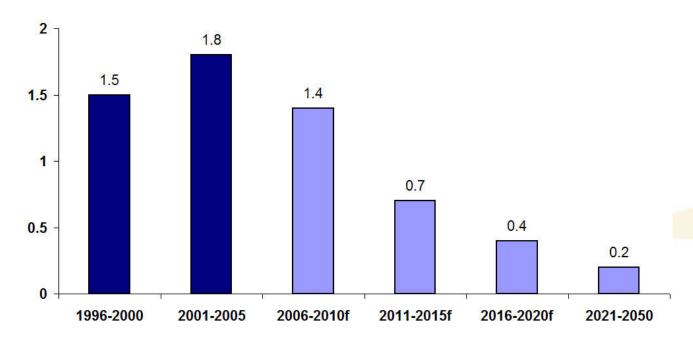
	Cumulative Ten-Year Gap (2005 – 2014)		
Scenario	No Growth	Low Growth	High Growth
Estimated Total Workforce (based on a total 2004 workforce of 78,184)	82,712	90,343	93,672
Total Cumulative Demand	36,470	57,150	81,970
Total Cumulative Supply	8,910	9,800	11,160
"Gap" to be filled by other sources	27,560	47,350	70,810





#### Canadian Labour Force Growth

#### Labour Force Growth Percent, average annual compound growth rate



f=forecast

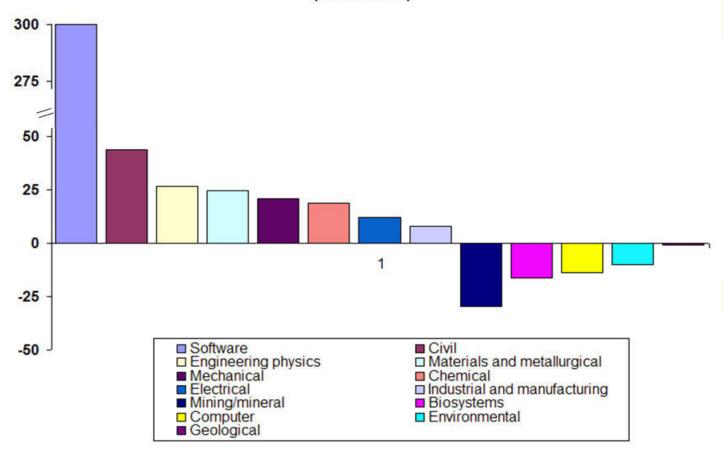
Source: The Conference Board of Canada; Statistics Canada





#### **Engineering Enrollment**

Trends in Engineering Undergraduate Enrolment by Discipline (2000-2004)

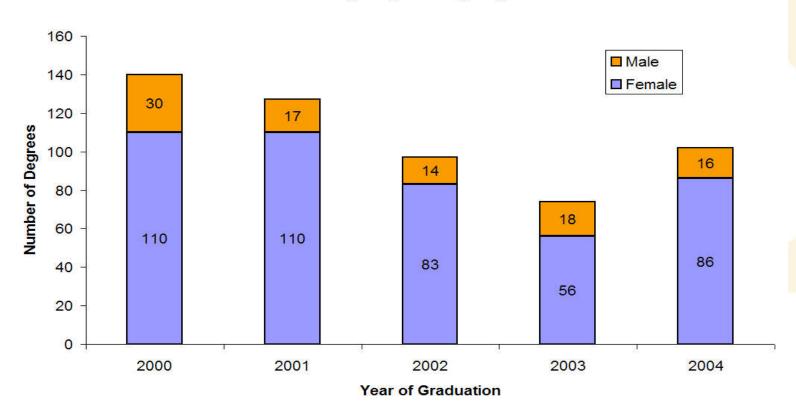






#### Mining Engineering Graduates

#### **Total Mining Engineering Degrees Awarded**



Source: Canadian Council of Professional Engineers





## Recruitment & Retention Challenges

- Competition for skilled labour
- Awareness and perception of the industry
- Commuter operations
- Delayed retirement





#### Meeting Skills Requirements

- Education and training
- Skills requirements and the northern workforce
- Impact of technological change
- Certification requirements
- Skills gap provided by post-secondary mining programs





#### Opportunities

- Youth
- Women
- Aboriginal Community
- New Canadians





#### Call to Action - Objectives

- A. Increase and make best use of all potential sources of supply
- B. Address existing and expected skill gaps in the industry
- C. Ensure standardization of skills and consistency of training delivery
- D. Ensure that all stakeholders are aware of and understand the critical human resources issues





## Objective A - Increase/Make Best Use of All Supply Sources

- Promote the industry to youth
- Develop national strategy focused on Canada's Aboriginal workforce
- Actively target non-traditional groups





#### Impressions of the mining industry?

Total (n=474)

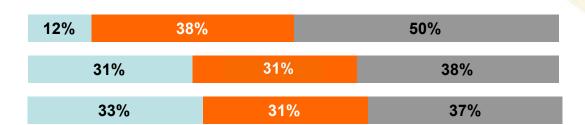
31% 32% 38%

Age

16-17 (n=42\*)

18-24 (n=120)

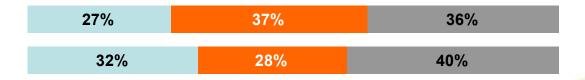
25-35 (n=312)



Location

**Urban (n=180)** 

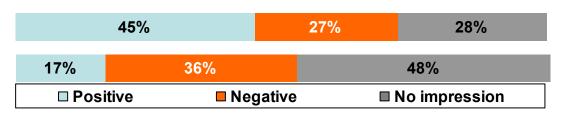
Rural (n=294)



Gender

Male (n=232)

**Female (n=242)** 

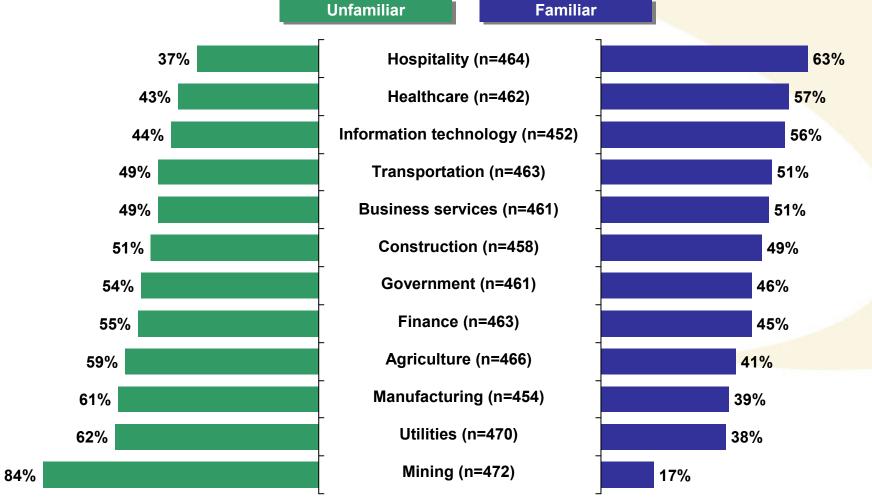


Source: Ipsos Reid Survey





Canadian Youth Familiarity with the Following Industries.

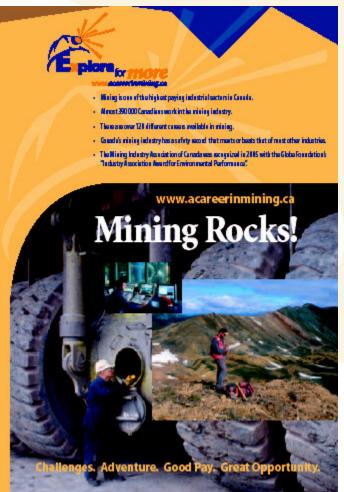


Source: IPSOS REID Survey, MiHR Council









To explore for more, go to www.acareerinmining.ca







#### **ASSAY LAB TECHNICIAN**

Name: Frank Kwissiwa

Employer: Placer Dome, Musselwhite Mine

Education: Marathon High School

Compensation: \$18-\$29/hour



Frank Kwissiwa works as an assay lab technician at the Musselwhite goldmine, 480 km north of Thunder Bay. He plays a very important role within the mine since he prepares rock samples to test them for gold content. Information gained from assay results helps define the ore body - or the amount of gold in the ore - providing dues to geologists and mine planners where to drill and blast.

The quality of life is one of the best perks of the job. Musselwhite is a fly-in, fly-out operation located on the south shore of Opapimiskan Lake surrounded by pristine wilderness. The two weeks in, two weeks out rotation allows Frank to spend quality time with family and friends at his borne. "Accommodations at the mine are excellent," Frank says. "They reall the at us well." He has his own room in the mine's bunkhouse and can go fishing, sailing, or kayaking in the evenings. There's also a full size gymnasium, a weight room, saunas, pool tables and a TV lounge.

Frank's job allows him to make a meaningful contribution to his company as well as have an active personal lifestyle spending time with his daughter and pursuing his hobbies playing hockey, baseball, and camping.





## Canada

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If you're looking for a career where discoveries are made...

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## Objective B - Address Industry Skills Gaps

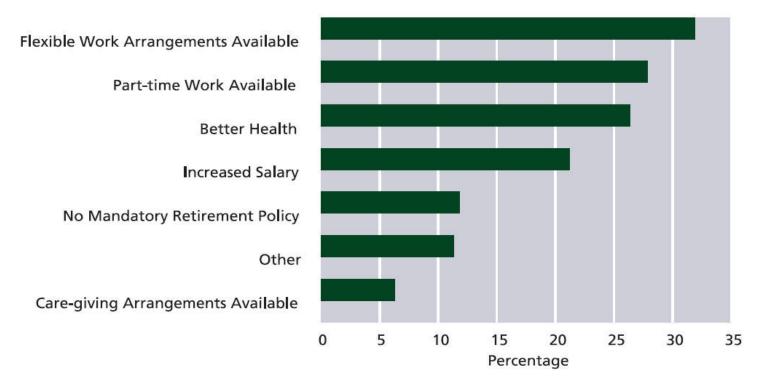
- Undertake proactive HR practices and workforce planning
- Develop programs to attract retired workers and retain older workers
- Encourage mentoring programs
- Develop collaborative, cross-industry education and training strategy





#### Retention Strategies for Retirees

Recent Retirees Would Have Continued to do Paid Work if:



Source: Statistics Canada, Schellenberg (2004)





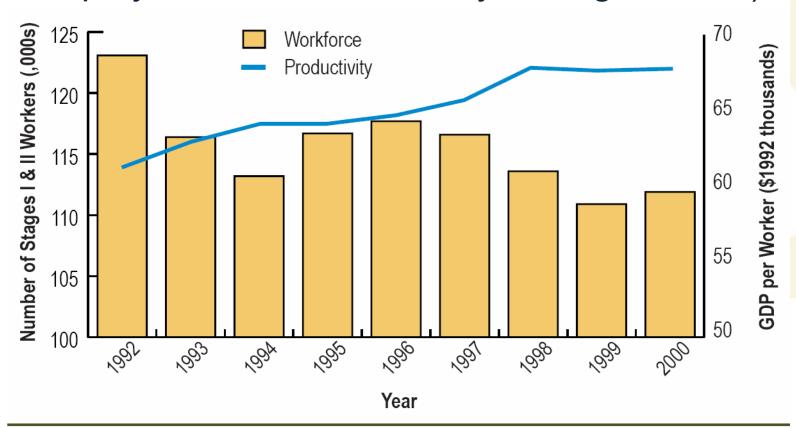
## Objective C - Standardized Skills & Consistent Training Delivery

- Present a clear case for the potential benefits of occupational standards, certification and program accreditation to employers and other industry stakeholders
- Develop and implement national occupational standards
- Standardize credentials for professional occupations





#### Employment vs. Productivity – Stages 1 & 2)

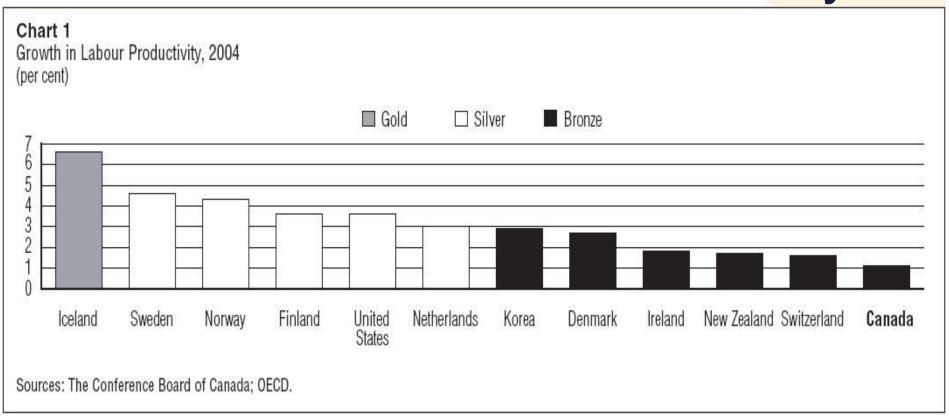


Source: Statistics Canada; Labour Force Survey





#### Growth in Labour Productivity







#### Objective D - Awareness

- Develop and implement a communications strategy
  - Raise awareness and understanding of the issues
  - Promote collaboration





#### Conclusions

- The Canadian Minerals and Metals Industry will be facing a human resources crisis within ten years
- To mitigate risk, the industry will work collaboratively with education and governments to attract, recruit and retain skilled workers
- No single solution will address the problem





#### MiHR's Role

- Expanded governance structure
- Strategic Priorities 2005-2008
  - 1. Career Awareness
  - 2. Aboriginal inclusion
  - 3. Occupational standards
  - 4. Inclusion of women
  - 5. Retention of older workers
  - 6. Better practices in workforce planning





#### Thank you for your attention

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