



“Vision Zero” a Workplace Without Harm

Alex Gryska - Bogota Colombia September 2019

Eight dead in Zimbabwe mine explosion

🕒 1 week ago 👤 Mining Editor 📖 3 Min Read



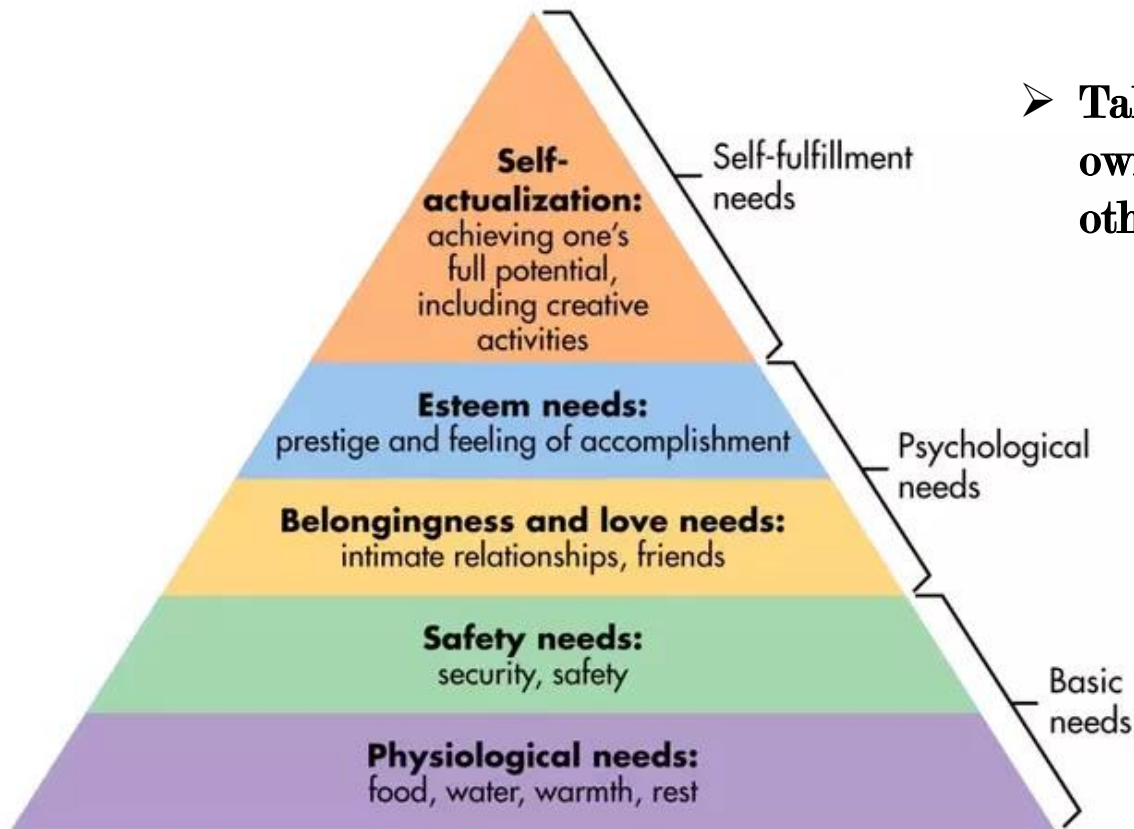
In another tragic incident in Zimbabwe, nine illegal miners have died.



Reality Check

- **Raise of hands if....**
 - **A family member has died in a mining incident.**
 - **You have lost a friend/colleague in a mining incident.**
 - **You suffered a serious injury in a mining incident.**
 - **A friend/colleague has suffered a serious injury in a mining incident.**

Maslow's Hierarchy of Needs As it Applies to Safety



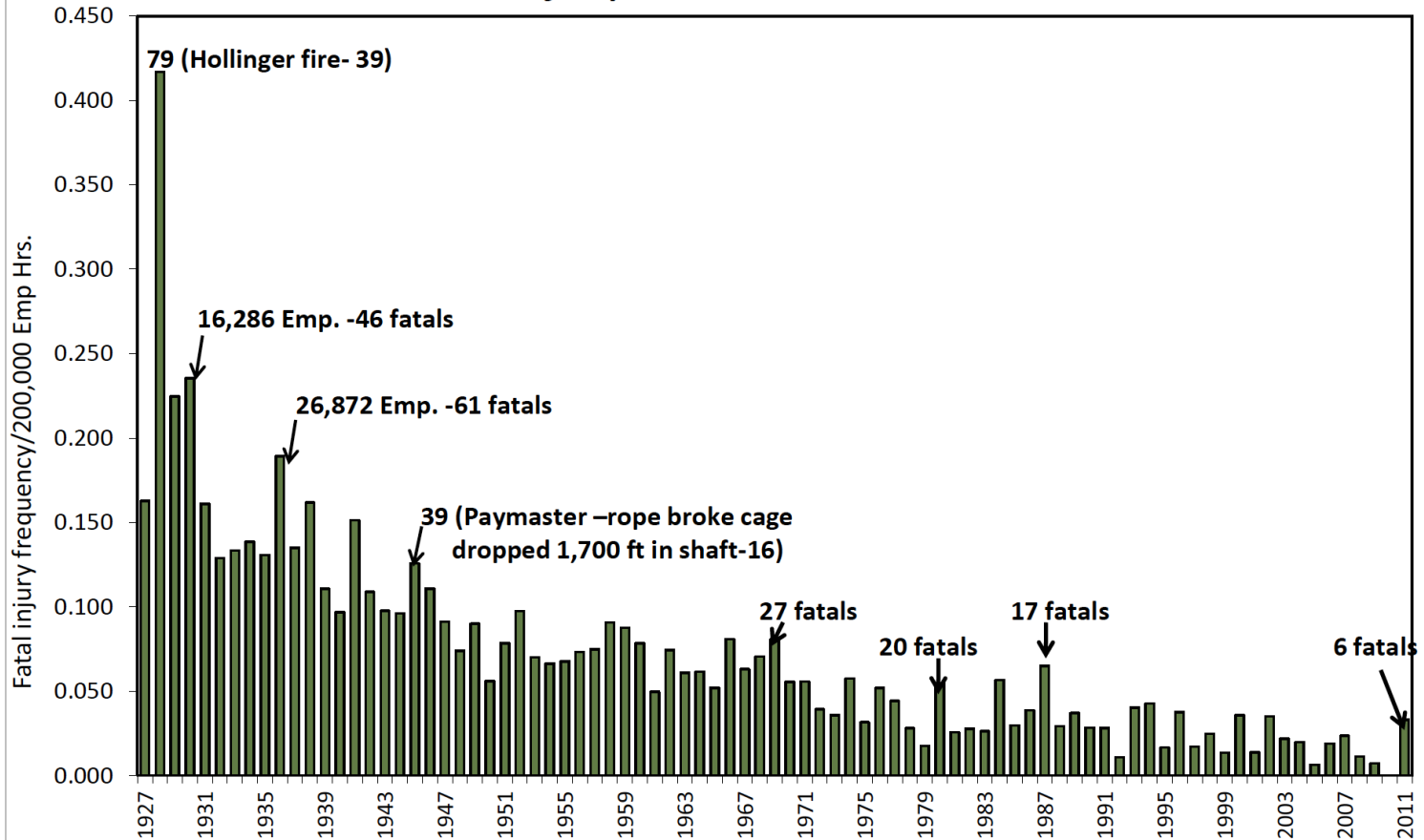
➤ Taking responsibility for our own safety along with the safety of other workers.

➤ Recognizing that we are responsible for our own safety.

➤ Belief that others will take care of our health and safety.

Ontario Mining Industry

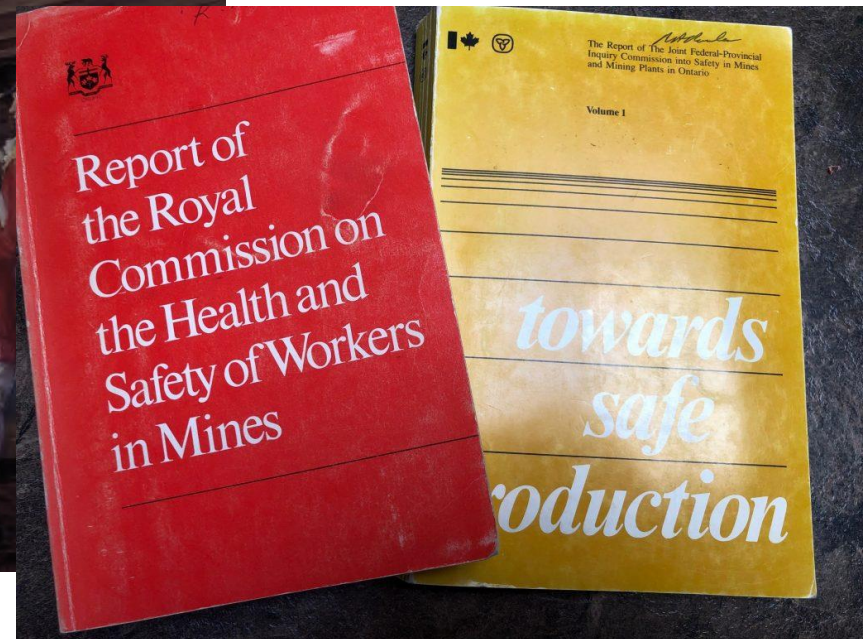
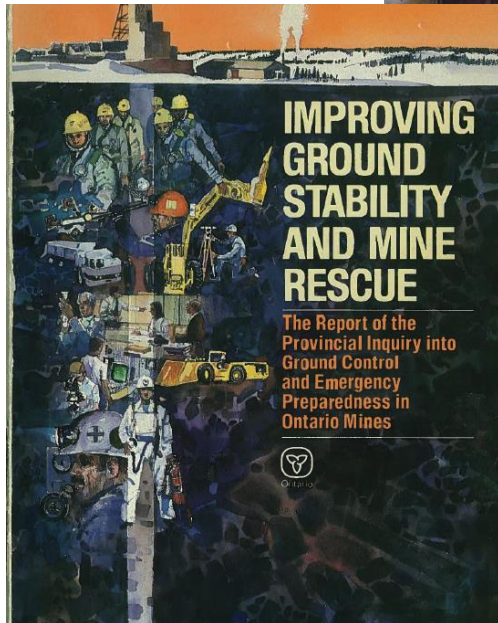
Fatal Injury Rates 1927 to 2011



Source: Ontario Department of Mines, Report on the Mining Accidents in Ontario, 1927 - 1951
WSN Mining Sector Injury Statistics, 1952 - 2011.



Ontario Mining Industry is High Profile

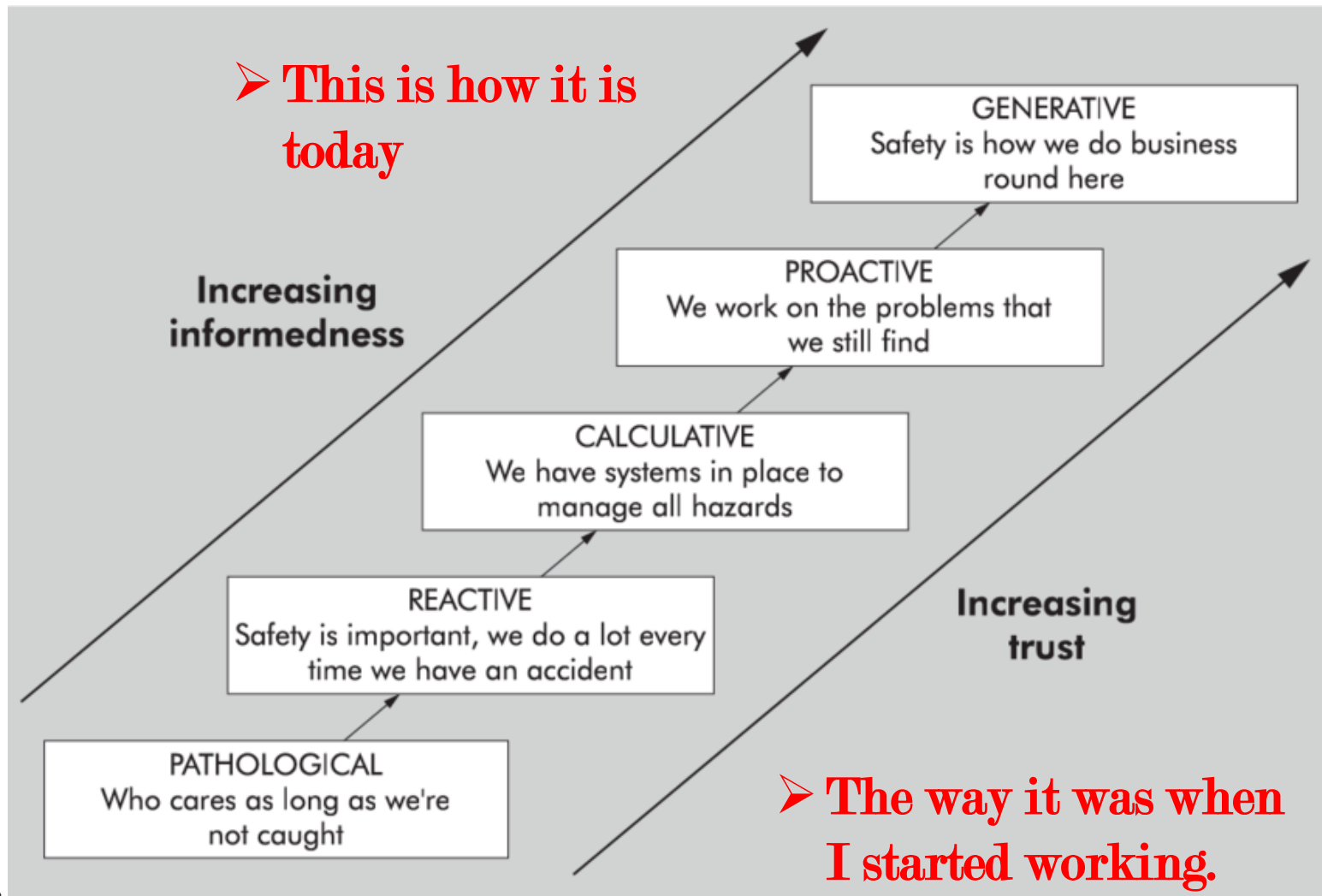


Prevention Begins with Investigation

- **Hollinger Mine Inquiry 1928 - Godson Report**
- **Royal Commission on the Health and Safety of Workers in Mines 1976 – Ham Report**
- **Joint Federal-Provincial Inquiry Commission into Safety in Mines and Mining Plants in Ontario – 1981 Burkett Report**
- **Improving Ground Stability and Mine Rescue 1986 – Stevenson Report**
- **Mining Health, Safety and Prevention Review 2015**

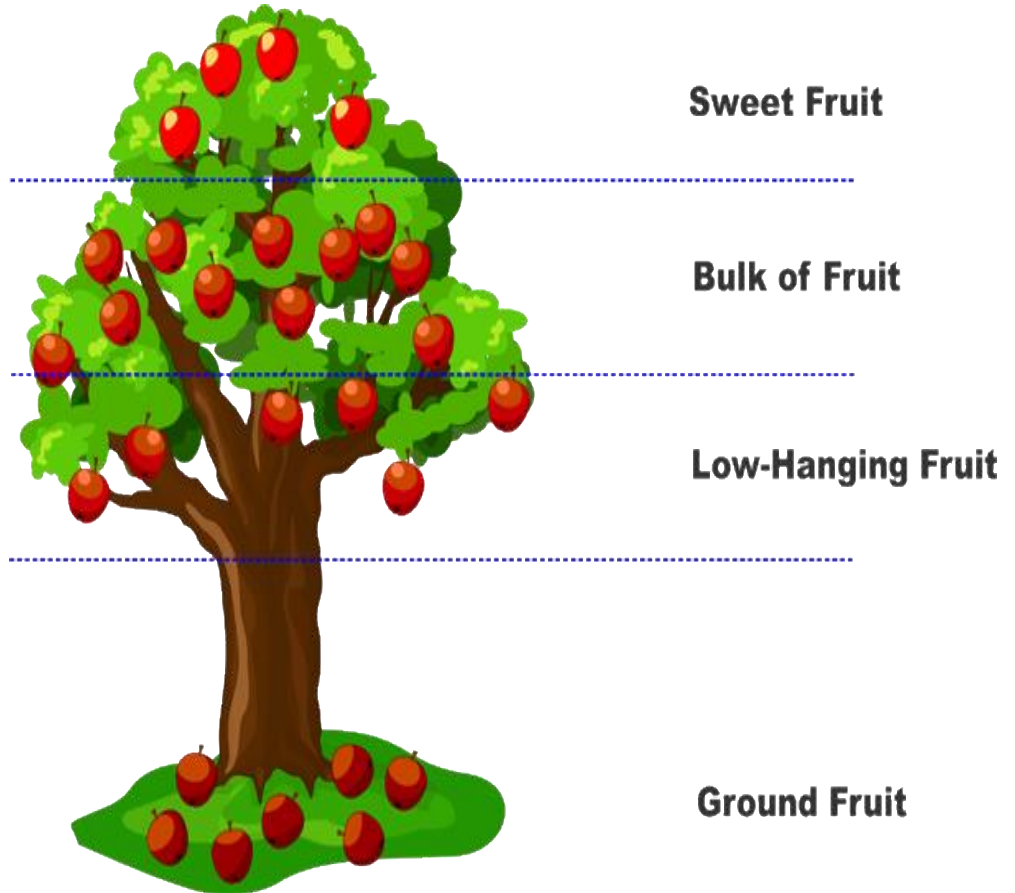


Evolution of Safety Behaviour



Changing “Impossible” to “Possible”

- Getting to “Zero Harm”.
- Making significant improvement.
- Identifying and tackling the easiest tasks first.

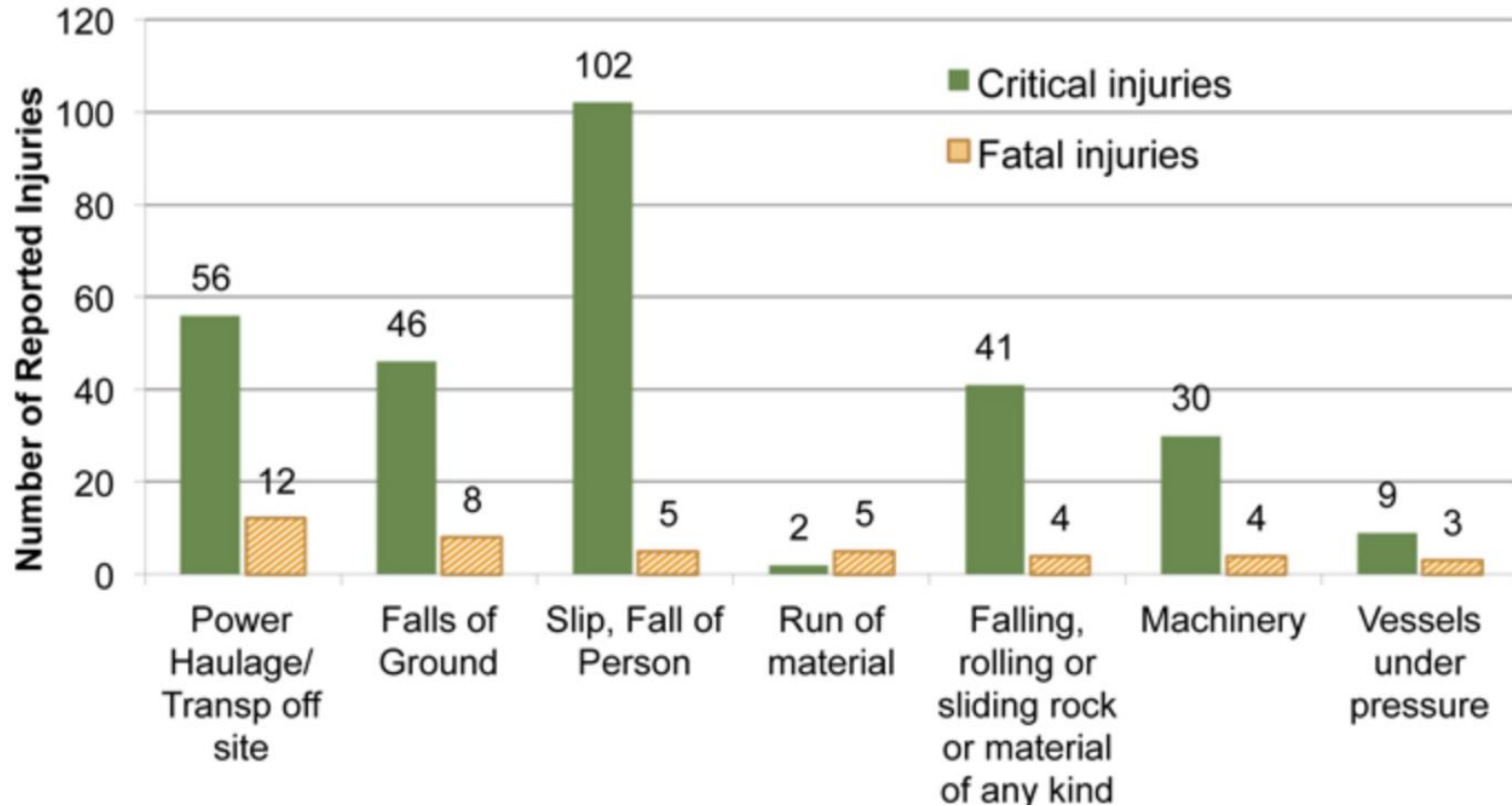


Competency Based-Training is Essential

- **Hard Rock Underground**
 - **Soft Rock**
 - **Mill Process Workers**
 - **Diamond Drillers**
-
- **Each has a introductory modules,**
 - **Specialty modules and**
 - **Modules for supervisors**



Identifying Key Sources of Harm



The Need for Data Collection and Analysis

Identifying “Killer” violations

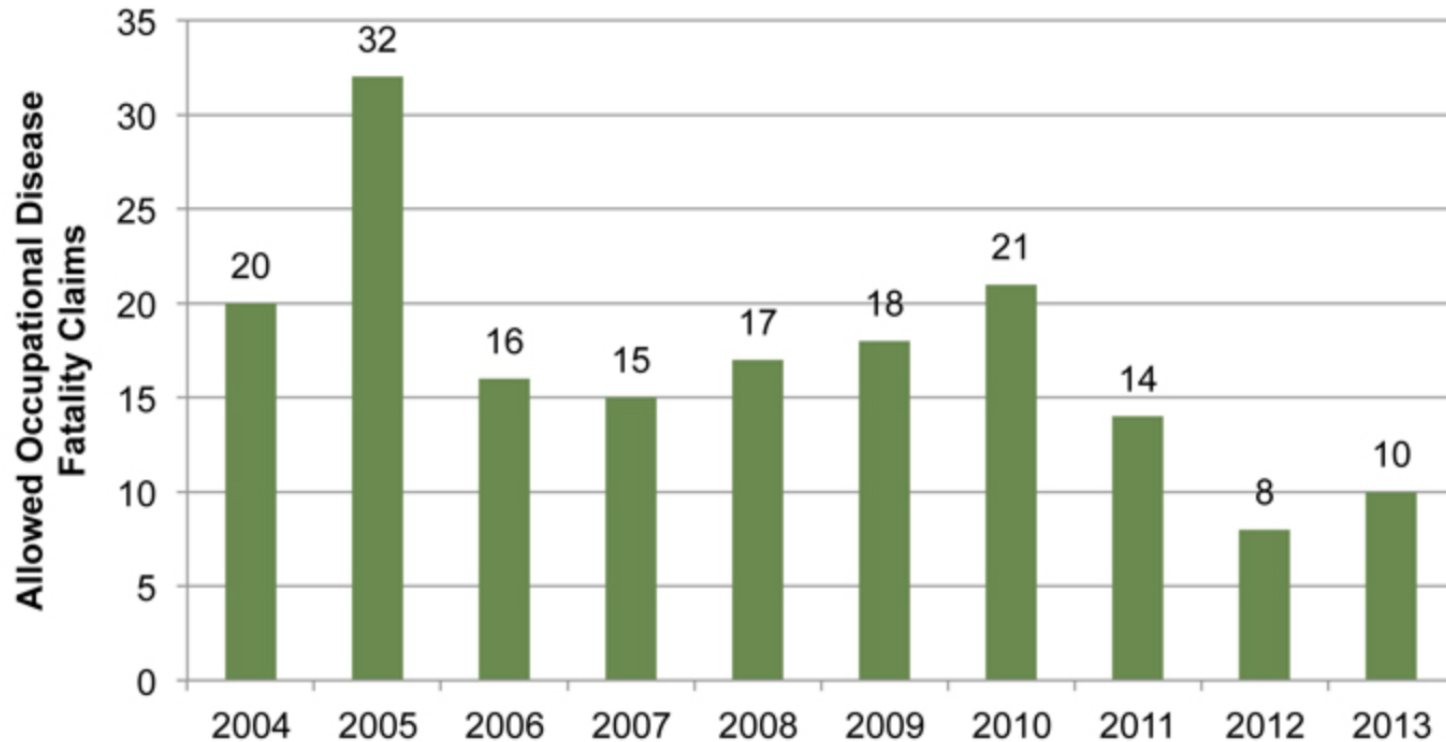
- Ventilation
- Explosives use and handling
- Mobile equipment.
- Rockbursts and falls of ground.
- Falls of persons.

And the yet unresolved issue

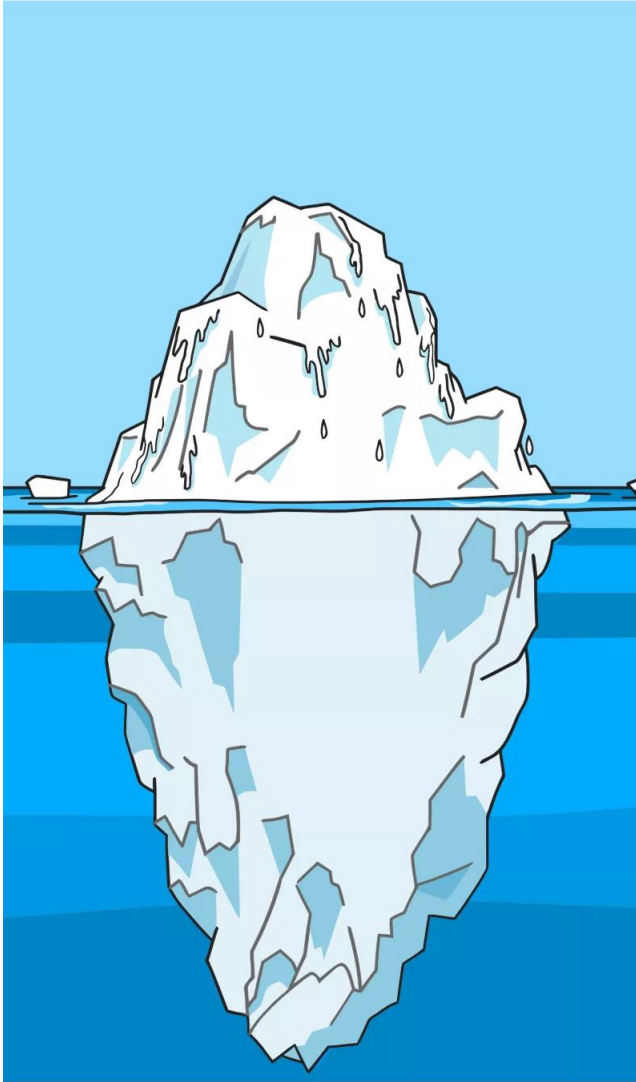
- Occupational Health related injury.



Occupational Illness Claims Ontario



How much Does a Lost Time Injury Cost?

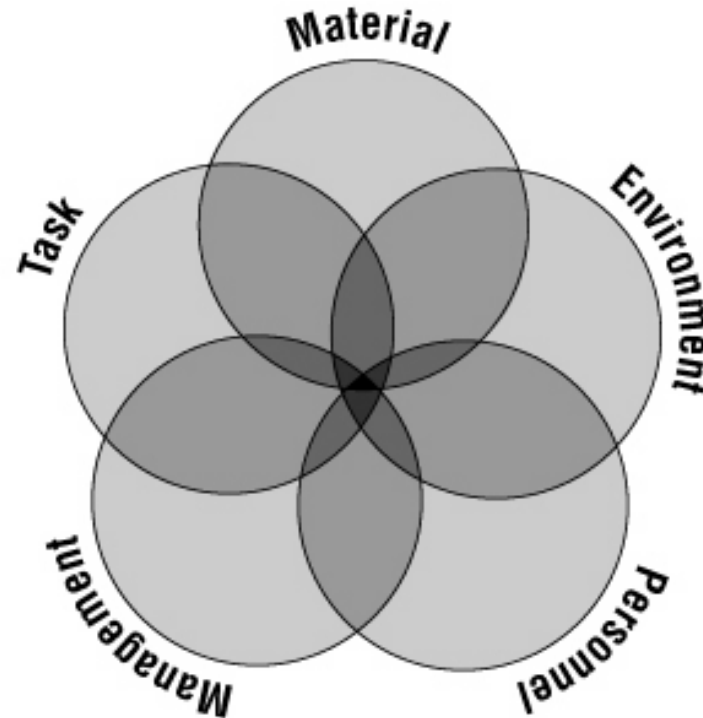


Ontario 2007 (Average)

- Direct cost \$21,300,
- Indirect cost \$85,200.
- Total Cost \$106, 500

Thorough Investigation - Determine “Root Cause”

- **Training**
- **Supervision and Instruction**
- **Policies and Procedures**
- **Work environment**



- **Competency is essential.**

Mandatory Mining Inquests

- Who was the deceased?
- Where did the death occur?
- When did the death occur?
- How did the death occur (medical cause)?
- By what means did the death occur?

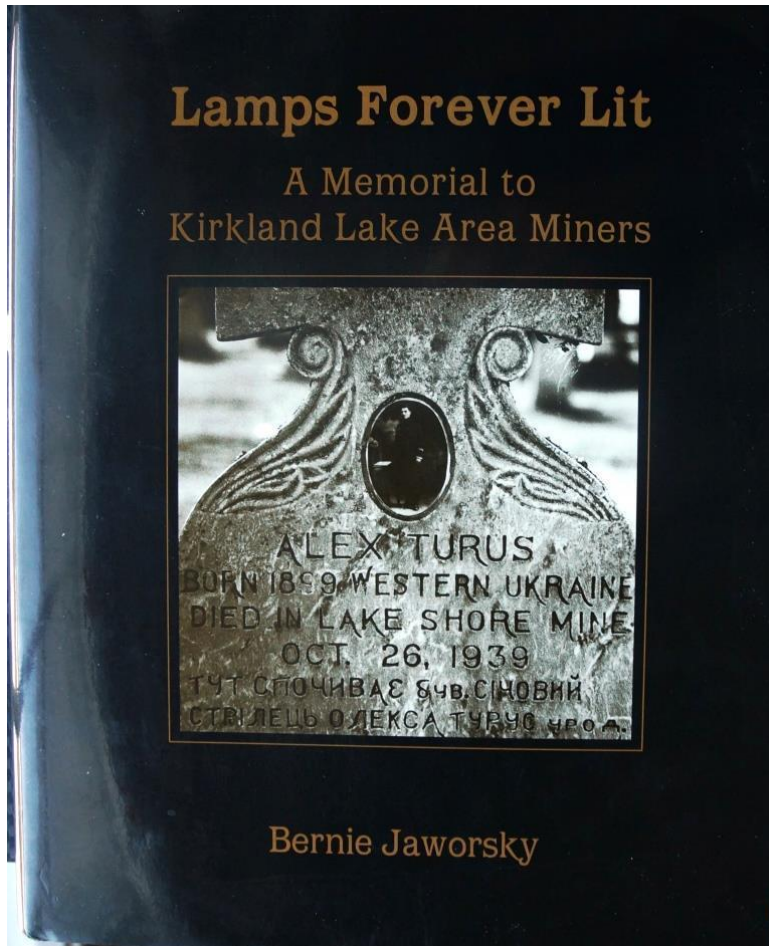
Jury may make recommendations that will prevent a similar event from occurring again in the future.

Fallen miner's wife hopes inquest 'can save somebody else's life'

Coroner's inquest jury makes nine recommendations, primarily intended to improve mine safety, after 38-year-old Pascal Goulet was killed while working at the Lac Des Iles mine on July 10, 2014.

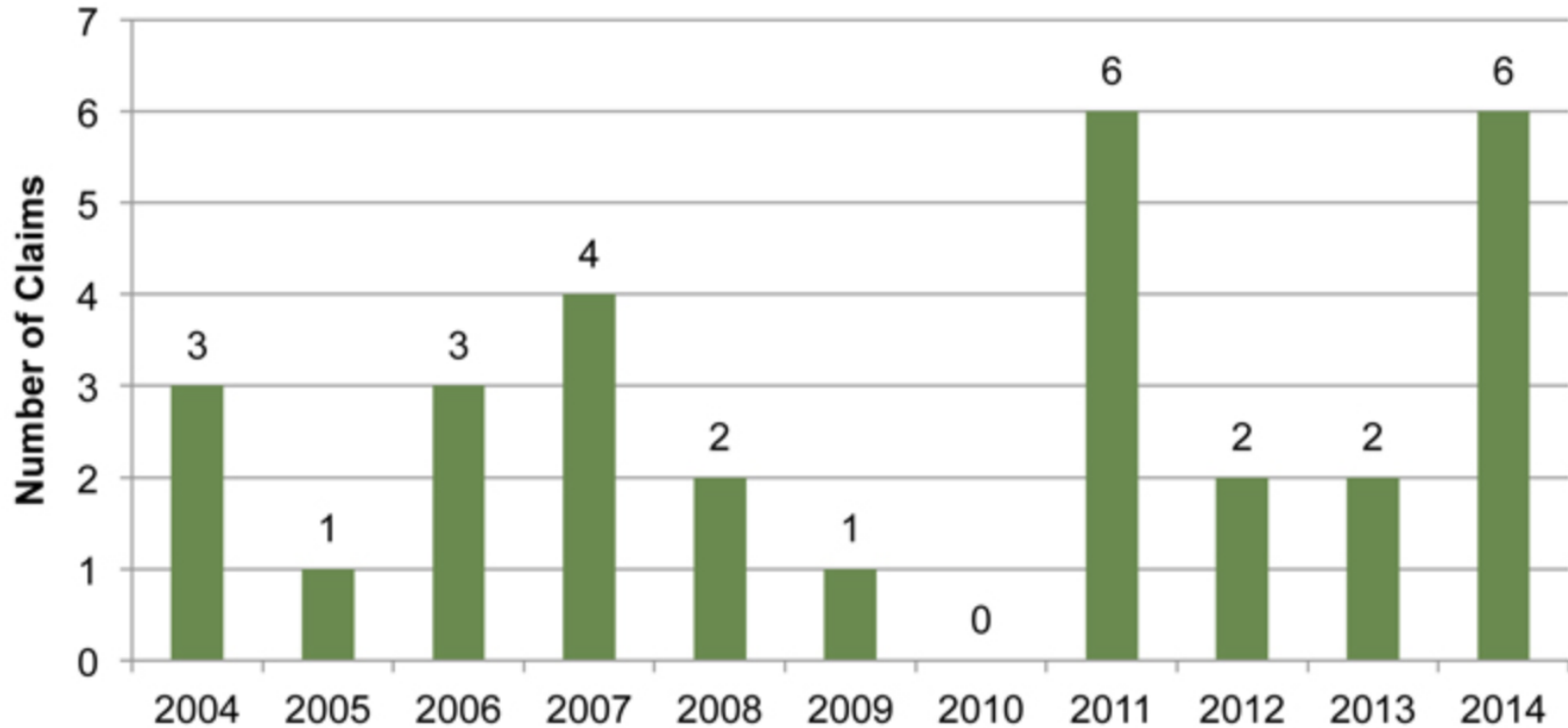


Understand the Impact of Loss



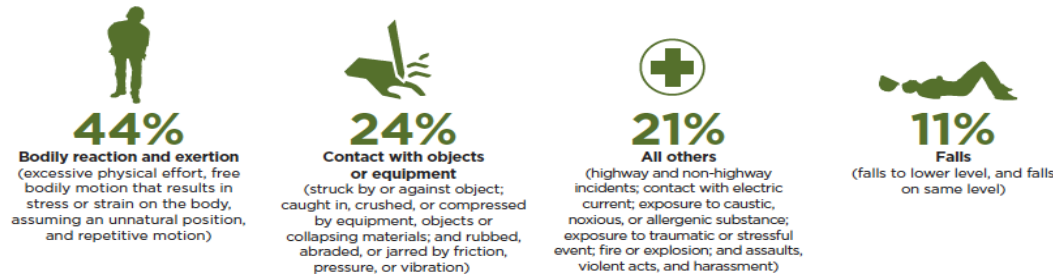
- Compilation of the more than 300 miners who were killed in Kirkland Lake mines from 1918 to 1999.
- Stories of who these miners were, why they came to Canada and to the mines and what was important to them.
- All wanted a better life for themselves and their families.

Traumatic Fatalities Ontario 2004 - 2014

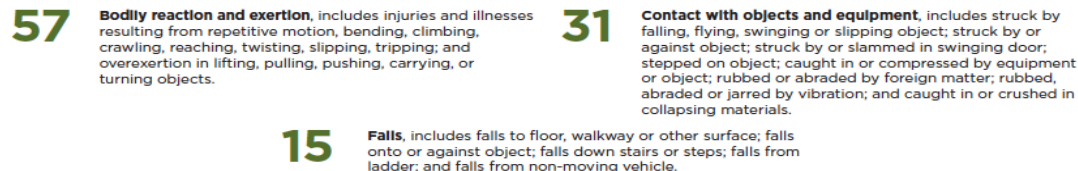


Ontario Mining Sector Performance 2018

Workplace Health and Safety Snapshot for Ontario Mining Sector in 2018

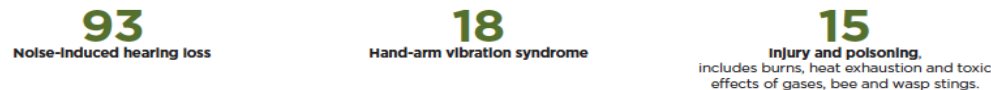


Most common lost-time Injuries



Top 3 Occupational Diseases

Based on approved WSIB claims for healthcare, being off work, loss of wages, or permanent disability



Can You Imagine a Workplace Without Harm?



Always Remember!

"The most important thing to come out of a mine is the miner."

Frédéric Le Play (1806-1882)

French sociologist and inspector general
of mines of France



Safety is Knowing What's Important

Дякую!

¡Gracias!

Ďakujem!

Thank You!

Danke!

Спасибо!

Mercie!

Cảm ơn bạn!

Děkuji!

Mulțumesc!

謝謝！

Рақмет сізге!

Dziękuję!

