



IMPLICATION OF NEW HEALTH AND SAFETY REFORMS ON TUNNELS

PRESENTATION TO NEW ZEALAND TRENCHLESS TECHNOLOGY FORUMS

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WHO WE ARE

- **Workplace health and safety regulator**
- **Our role is to:**
 - **engage with industries and sectors to lift performance**
 - **enforce the law**
 - **provide education and guidance**
 - **provide health and safety leadership**

WHAT WE NEED TO ACHIEVE

**At least 25% reduction in deaths
and serious injuries at work by
2020.**

10% reduction by 2016

WORKPLACE HEALTH & SAFETY

- **75 people die on the job every year**
- **1 in 10 workers is harmed**
- **600-900 die from work-related diseases**
- **200,000 ACC claims for work-related harm**
- **\$3.5 billion in costs (2-4% of GDP)**
- **Significant emotional toll**

OUR PRIORITIES

1. **Targeting risk:** focus on acute, chronic & catastrophic harms
2. **Working together:** work collaboratively with others for maximum effect
3. **Rebuilding Canterbury safely:** focus on construction, occupational health & high-risk populations
4. **Working smarter:** implement a clearer regulatory regime
5. **Strengthening our organisation:** build a high-performance agency

TUNNELLING OPERATION

- **A tunnelling operation is an operation involving extraction of fill.**
- **Its purpose is to create a tunnel or shaft, or enlarge and extend any tunnel or shaft.**

LINK TO HEALTH AND SAFETY IN EMPLOYMENT ACT 1992

- **If a project is a tunnelling operation, it also meets the definition of a mining operation**
- **Direct coverage under the Health and Safety in Employment (Mining Operations & Quarrying Operations) Regulations 2013**

HHU POSITION

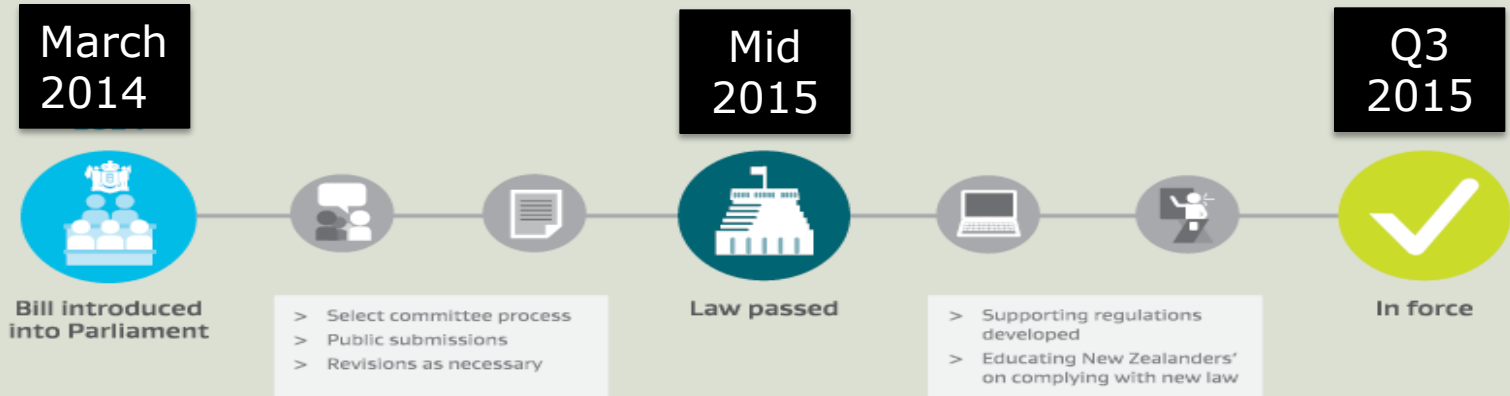
- **HHU Extractives will focus on tunnelling that:**
 - **Has mine workers working underground**
 - **Uses explosives underground at the operation; or**
 - **the operation relates to a tunnel or shaft that is, or is intended to be, more than 15m long; or**
 - **the concentration of methane is likely to be more than 0.25% of the general body of air in any working area at the operation.**

DIRECTIONAL DRILLING & MICRO TUNNELLING

**Will not be covered,
regardless of length
or depth, if no
person would
'ordinarily' work
there**



HEALTH AND SAFETY AT WORK ACT



APPLYING THE NEW LEGISLATION

- **PCBU - primary duty to ensure health and safety of workers**
- **Workers - duty to keep themselves and other workers safe**

Health and safety at work is everyone's responsibility.

What do you do?



A Preliminary Hazard Analysis should be undertaken in the form of what is typically referred to as a Broad Brush Risk Assessment.



Look at the whole of the mining operation at a high level to identify hazards.



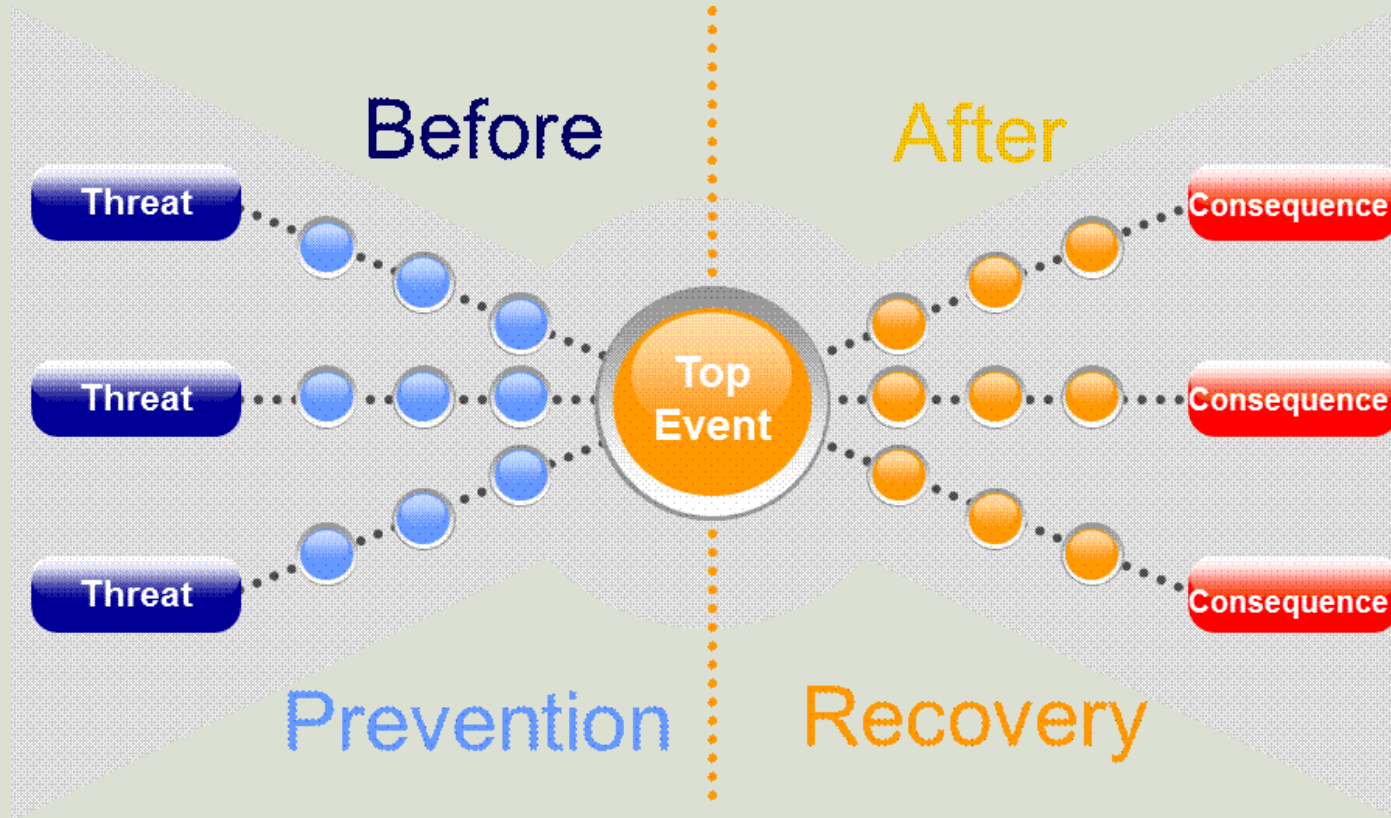
Develop a risk register use it as a baseline with which to further develop more detailed risk assessment and controls.



This process identifies critical hazard areas that require Principle Hazard Management Plans (PHMP) and standard operating procedures to be developed.



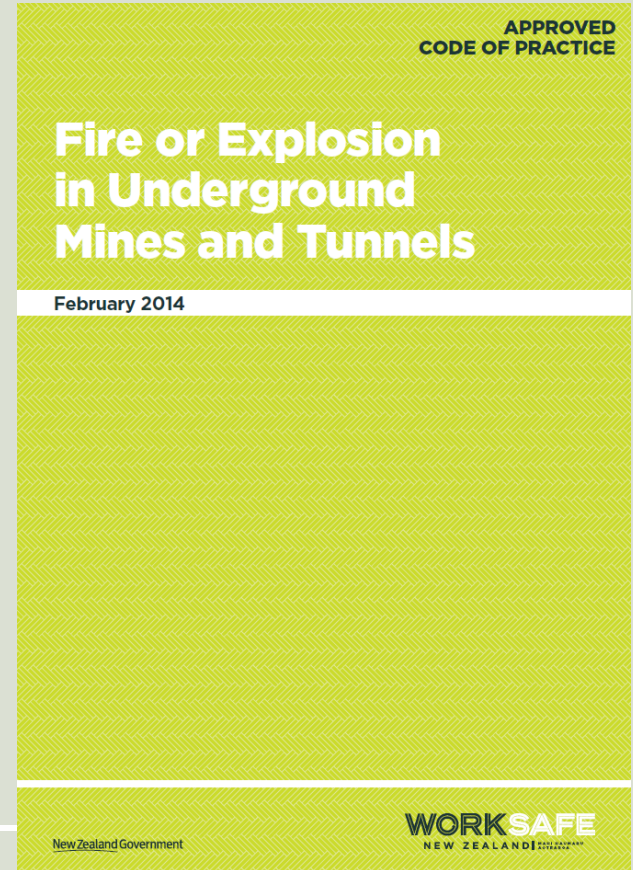
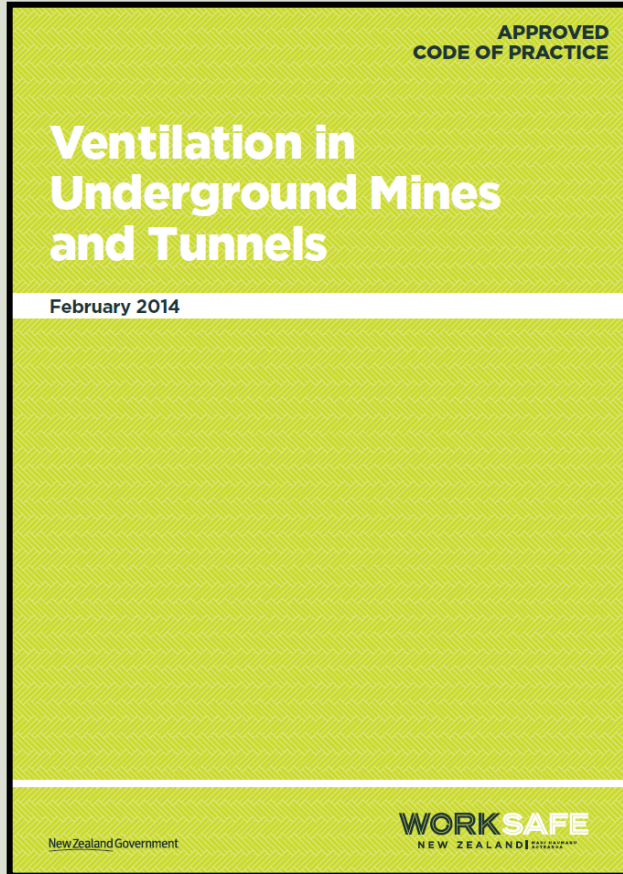
RISK ASSESSMENT



WHERE DO I START?

- **Start with a project plan**
- **Don't throw out what you already have**
 - **Controls are controls**
- **Identify and target high consequence**

REGULATIONS AND GUIDANCE



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Everyone who goes to work
comes home healthy and safe
Everyone has a role to play