

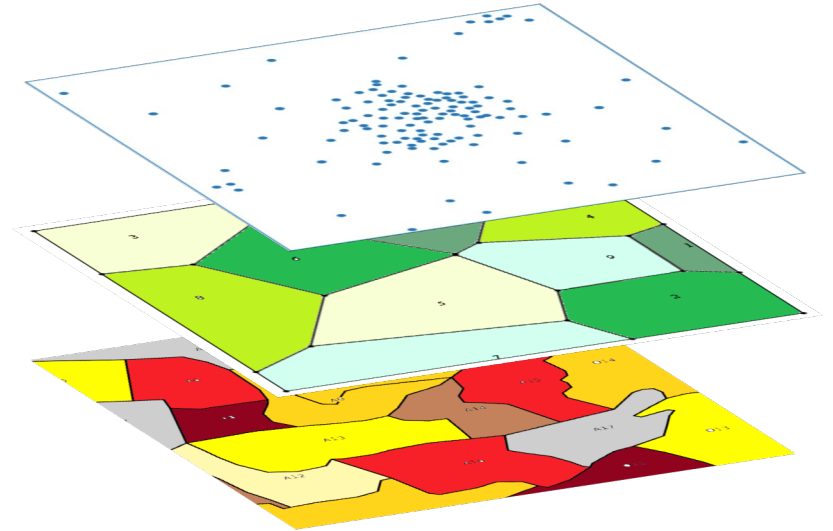
Isabel Muller



# Corporate permitting in landfolio®

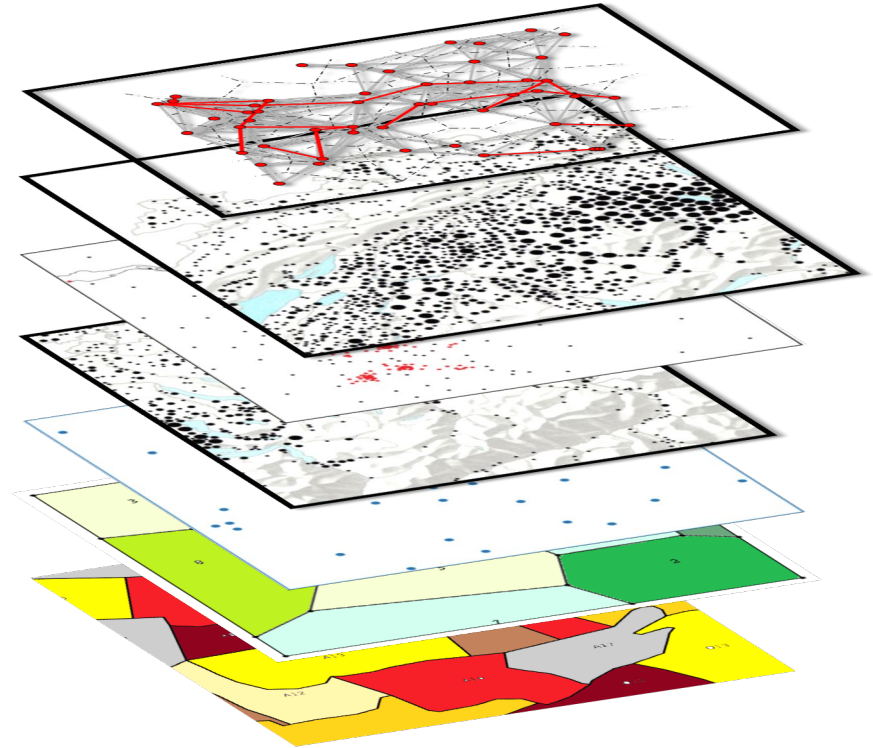
# In the past the focus was on

- Management of
  - Mineral Rights
  - Land
  - Environmental Licenses
- Looking at
  - Conditions
  - Stakeholders
  - Processes/Workflow
  - Reporting
  - Maps



# Compliance is more than that

- Management of permits
  - Mineral Rights
  - Land
  - Environmental Licenses
  - Blasting and explosives
  - Communication
  - Engineering
  - Transportation
  - Etc.



# Why should I care about permitting?



# Delays

## Ramp-up for Anglo American's Minas Rio mine likely delayed to 2021

16th October 2018 BY: REUTERS



## Minnesota Court Rejects Major Permits for PolyMet Mine

By The Associated Press

Jan. 13, 2020



ST. PAUL, Minn. — The Minnesota Court of Appeals on Monday rejected some of the most important permits for the planned PolyMet copper-nickel mine in northeastern Minnesota, giving a major victory to environmentalists.



In this file photo from June 25, 2019, Judy Cavanaugh stands with others at a rally against the Pebble Mine in front of U.S. Sen. Lisa Murkowski's Juneau office. (Michael Penn | Juneau Empire File)

## Final impact statement for Pebble Mine delayed for three months

Army Corps of Engineers says it will take the time to review public comments

# Non-compliance

## Tegeta's mines riddled with non-compliance, MPs told

May 30 2018 11:23 Khulekani Magubane

fin24



Cape Town – Optimum Coal Mine and the Shiva Uranium Mine, once owned by the Gupta family's Tegeta, were guilty of operational non-compliance – breaking mining regulations and posing risks to workers.

This is according to a submission from the Department of Mineral Resources to Parliament's portfolio committee on mineral resources on Wednesday.

Optimum's operations have been under **business rescue** and the National Union of Mineworkers has cast doubt on the business' ability to pay salaries. **The Bank of Baroda on Tuesday gave the South African Reserve Bank formal notice of its intention to exit SA.** Its earlier attempts to exit left Optimum : companies with no banking facilities, resultir Gupta-owned businesses seeking an urgent prevent the bank from leaving the country.



The Star Edition  
CHANGE LOCATION

Ahead of his recent budget vote, Minister of Enterprises Pravin Gordhan told reporters th site visit to Optimum Coal Mine, he learned t

"Tower cranes used on plants were not main the cranes. Pressure vessels were not routir of equipment until non-compliance was fixed

## Illegal runoff still a problem at Rhode Island quarry

By Frank Carini ecoRI News 5 hrs ago 0



1 of 2



### Athlete of the Week

Athlete of the Week: January 11

Sponsored by Antonino Auto Group: This year The Westerly Sun will be selecting school Athlete of the Week. Voting close Monday and the selection will be annour Thursday. The nominees for the week er 18 are:

Lurie Willott Charitha basketball Jim

on New London Turnpike that out a Rhode Island pollutant

**THE STAR**

LOCAL **CANADA** POLITICS WORLD OPINION LIFE SPORTS ENTERTAINMENT BUSINESS STAR INVESTIGATIONS  
Ontario British Columbia Alberta Quebec Nova Scotia

**CANADA**

## Environmentalists allege De Beers failed to report on mercury in water



By **Tanya Talaga** Global Economics Reporter  
 **Tues., Dec. 6, 2016** | 5 min. read



# Fines, complaints, damaged reputation

## Acacia Mining fined for breaching environmental regulations

INTERNATIONAL / 10 JANUARY 2019, 6:30PM / REUTERS



## Anglo fined \$6.2m for environmental breaches at Los Bronces mine in Chile

Cecilia Jarama | May 5, 2015 | 10:45 am Base Metals Top Companies Europe Latin America Copper

## New Hope fined for breach at Acland coal mine

Steven Trask

31 Jul 2019, 9:04 a.m.



Work carried out at the New Acland mine site on Queensland's



## Lumina Copper faces charges, up to \$55m fine for environmental breaches in Chile

Cecilia Jarama | February 19, 2019 | 9:55 am Base Metals Precious Metals Suppliers & Equipment Asia Canada Latin America Copper Gold

## Mining directors face R10m fine, jail time for pollution

COMPANIES / 11 MARCH 2017, 2:41PM / SHEREE BEGA



The No 6 tailings pile at the Blyvooruitzicht Gold Mine. Picture

Johannesburg - The Green Scorpions have hauled and Village Main Reef gold mining companies to court and environmental degradation.



NEW ZEALAND / LOCAL DEMOCRACY REPORTING

## Water quality complaints on the rise on West Coast

6:50 pm on 10 January 2020

Share this



Lois Williams, Local Democracy Reporter  
@loiswilliamsnz | lois.williams@rnz.co.nz

Complaints about water pollution on the West Coast are on the rise and a good number involve small gold mining operations.



# Closures/Down-time

23 JANUARY 2020 NEWS

## Centerra receives permits to restart open-pit mining at Kumtor

SHARE 

Canadian firm Centerra Gold has received all the necessary permits and approvals to restart open-pit mining at the Kumtor mine in the Kyrgyz Republic.

## State closes four mines in Pike and Perry, citing permit violations

By Nicole Ziege @NicoleZiege Jan 25, 2020  0

Four coal mines in Pike County and Perry County, all owned by American Resources Corporation, have been ordered to close after the Kentucky Division of Mine Safety removed the company's mining permits, citing permit violations.



## Kerr to restart Arizona's Copperstone 'in near term'

24TH JANUARY 2020

BY: CREAMER MEDIA REPORTER

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FONT SIZE:  

The US Bureau of Land Management (BLM) has formally approved TSX-listed Kerr Mines' mining plan of operation (MPO) at the Copperstone gold project, in Arizona.

BLM issued a decision of record (DoR) based on the significant impact, marking the conclusion of a permit licensing effort that started in 2018.



# To summarise - Why should I care?

Delays

Fines

Complaints

Down-time

Loss of income

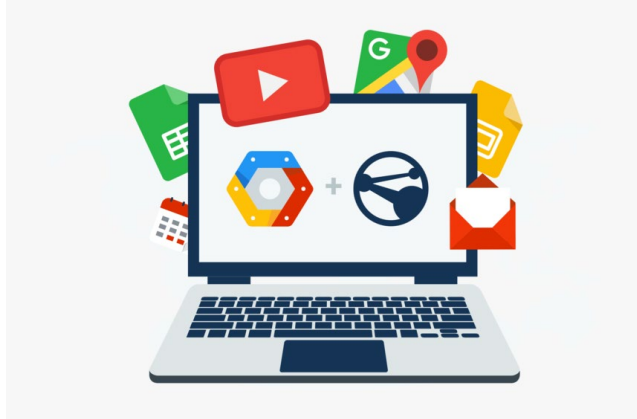


Non-compliance

Jail time

Damaged  
reputation

# Why do I need a permitting system?



# Permitting is complex!

- Many different permit types governed by many different laws
- Many conditions and commitments to track for each permit
- Many stakeholders
- Different levels to cater for – from the permit owner all the way to the global manager

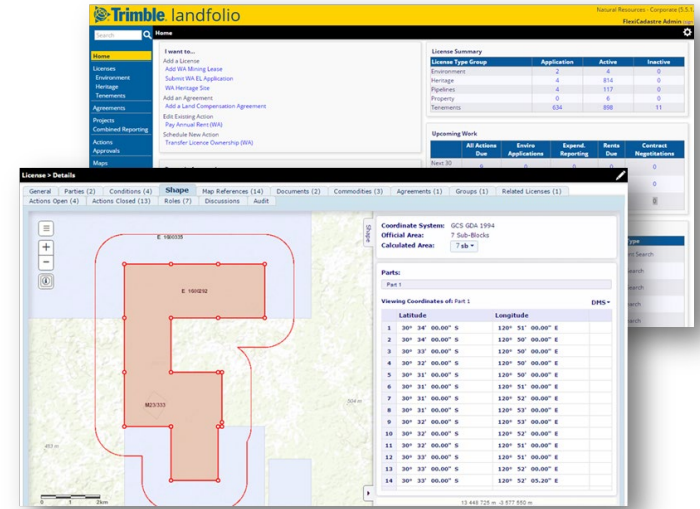


# Different stakeholders, different questions



# Why landfolio® for permitting?

- Leverage existing landfolio® functionality
- Extend landfolio® to include wider permitting
- Add more license type groups e.g.
  - Blasting & Explosives
  - Communication
  - Engineering
  - Health & Safety
  - Transportation





# The Permit Owner

Which permits are expiring soon? Am I compliant?

What should I be focussing on for my permits this month?



## landfolio® Licenses

- Dates e.g. Expiry date
- Conditions & Commitments
- Actions with due dates and responsible users
- Automated Notifications with escalations

# The Project Manager

- landfolio® Licenses
  - Linked to a project group
  - Automated Reports per project
  - Generic workflow
    - Acquisition
    - Maintenance
  - Project permitting map



# The Site Manager



- landfolio® licenses
  - Automated Reports per site
    - Exceptions
    - Compliance
  - Site dashboard
  - Site permitting map

# The Regional Manager

- landfolio® licenses
  - Automated Reports per region
    - Exceptions
    - Compliance
  - Regional dashboard
    - Site comparisons
  - Regional permitting map



# The Global Manager

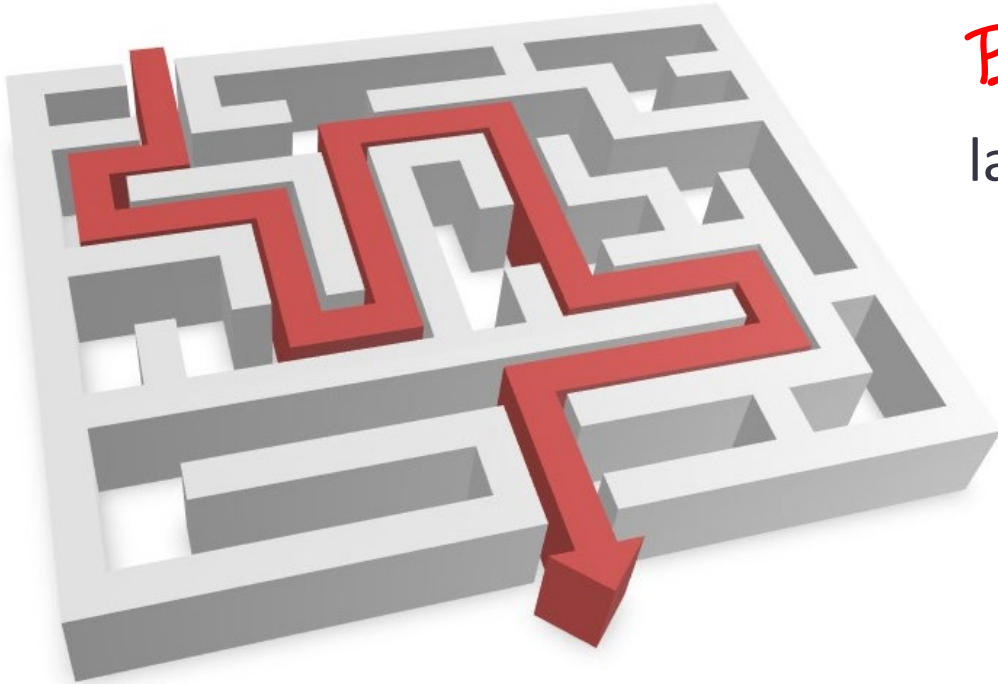


Are we  
compliant on  
all the sites  
globally?

- landfolio® licenses
  - Global Automated Reports
    - Exceptions
    - Compliance
  - Global dashboard
    - Regional comparisons
  - Global permitting map



# Permitting is complex!



**BUT**

landfolio® can help you manage



