



**MHSC**

**Mine Health and Safety Council**

**Summit Milestone Performance and Progress made since the 2014  
Mine Occupational Health and Safety Summit**

*Lester Martin and Florence Magampa  
Technology Transfer and Knowledge Facilitators  
21<sup>st</sup> November 2018*

# PRESENTATION OUTLINE

- MHSC Mandate
- Purpose and Objectives of the 2018 Summit
- 2014 Occupational Health and Safety Milestones
- 2016 Principals Pledge
- Summary of Progress Made
- Conclusion
- Way Forward



# MHSC MANDATE

- Advise the Minister on all occupational health and safety issues in the mining industry relating to legislation, research and promotion.
- Review and develop legislation (regulations) for recommendation to the Minister
- Promote health and safety culture in the mining industry
- Oversee research in relation to health and safety in the mining industry
- Liaise with other bodies concerned with health and safety issues
- Host a biennial summit to review OHS performance in the mining industry



# 2018 Summit Purpose and Objectives

## Objectives:

- **Review Progress towards Achievement of Summit Milestones Set in 2014**
- **Reflect and Engage on Current Year's or Past 2 Years OHS Performance**
- **Analysis of Recent Disasters to Further Mitigate on Identified Risks, Prevent Recurrences**
- **Develop an Action Plan with Interventions to Address identified OHS Challenges, Impacting on OHS**

## Milestones Achievements



# 2014 OHS Summit milestones

## Elimination of fatalities and injuries

- Zero fatalities by Dec 2020
- 20% reduction in serious injuries per year by Dec 2016
- 20% reduction in lost time injuries per year from Jan 2017

## Rehabilitation of mine workers injured in the line of duty

## Elimination of occupational diseases- By December 2024 95% of all exposure measurement results must be below the following limits for the respective respirable dust:

- 0.05 mg/m<sup>3</sup> for silica dust
- 1.5 mg/m<sup>3</sup> for platinum dust
- 1.5 mg/m<sup>3</sup> for coal dust
- No new cases should occur amongst previously unexposed individuals

## Elimination NIHL

- By December 2024, noise emitted by equipment should not exceed 107 dB(A).
- By December 2016, no employee Standard Threshold Shift limit will exceed 25 dB from the baseline .

## Integrate and simplify compensation systems

## Reduction and prevention of TB, HIV & AIDS

- By December 2024, the TB incidence rate should be at or below the National TB incident rate.
- 100% of employees offered HIV Counseling and Testing (HCT) annually & all eligible employees linked to an Anti Retroviral Treatment (ART) programme.

## Culture Transformation Framework

- 100% implementation of the Leadership, Risk Management, Data Management, Diversity Management, Leading Practice and Bonus and Performance Incentive pillars by December 2020.

## Beyond 2024

- Implementation of the Integrated Mining Activity, Technology, Inspectorate, Tripartism, Regulatory Framework

**ESTABLISH CENTRE OF EXCELLENCE FOR RESEARCH, RESEARCH IMPLEMENTATION AND CAPACITY-BUILDING**



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# 2016 Principals Pledge

## **Tripartite Visible Felt Leadership & Relationship Building**

**Develop a Programme of Engagement for Principals Stakeholders on Regular Basis**

## **Trust Deficit**

**Stakeholders to Address Trust Deficit ,Moving from Transactional to Transformative Approach on OHS Matters**

## **Communication**

**Improving Communication Amongst the Stakeholders and within stakeholders groupings**

## **Empowerment of Supervisors**

**Empowerment of Workers: Occupational Health and Safety Representatives, Union Shop-Stewards ,Supervisors and Women in the South African Mining Industry**

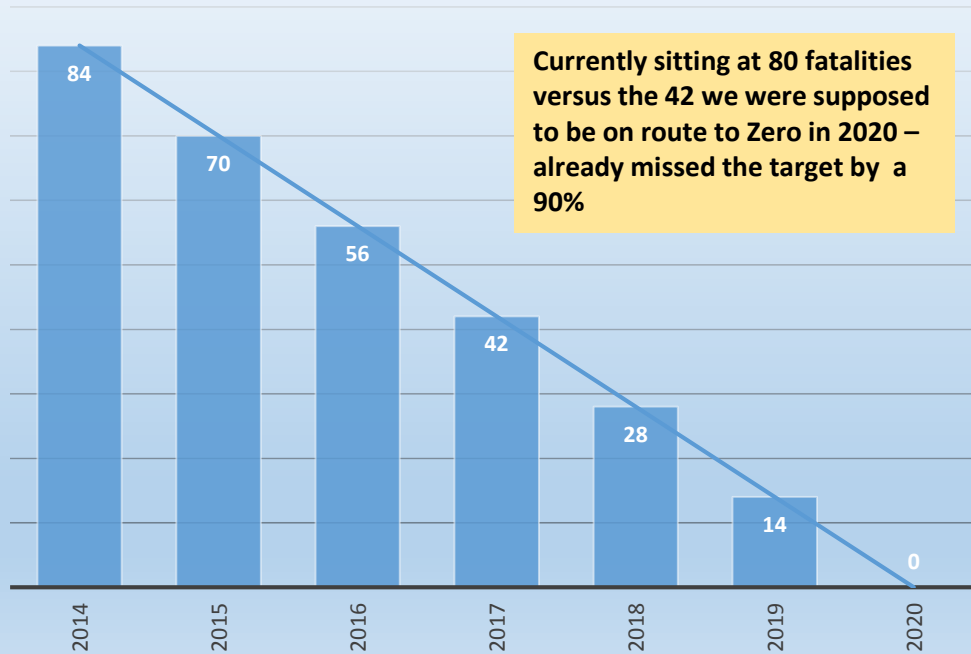
## **Annual OHS Days**

**Mining companies Hosting Health and Safety Days**

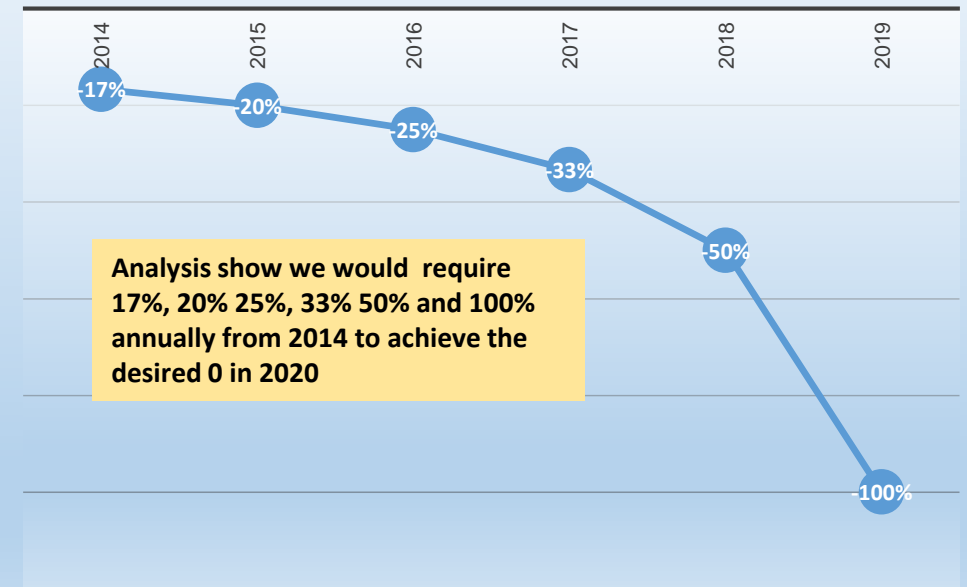


# Projections of Fatalities 2014 - 2020

## Trend to reducing 84 Total Fatalities in 2014 to 0 fatalities in 2020

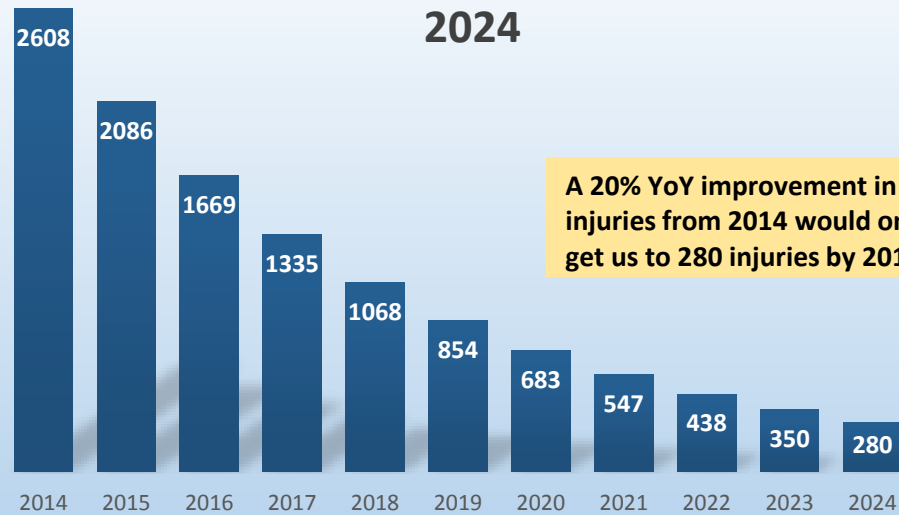


## The trend of reducing 84 total fatalities in 2014 to 0 fatalities in 2020



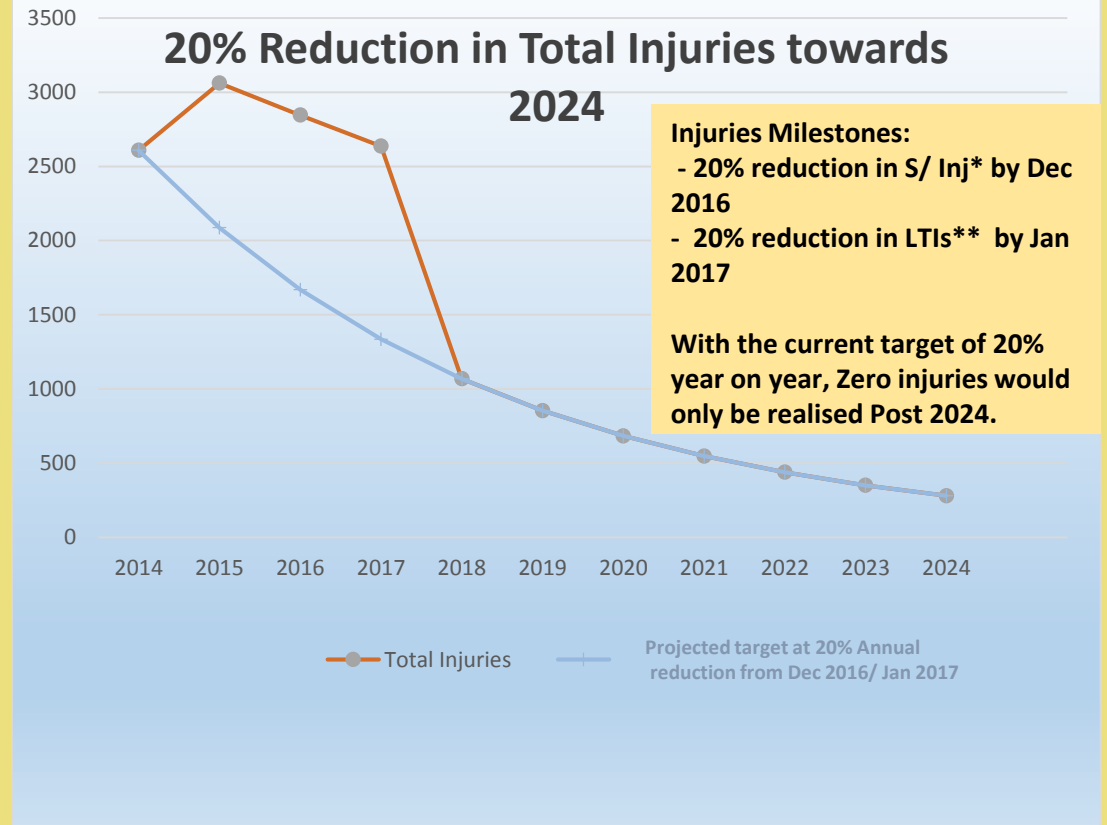
# Projections & Actuals of Injuries 2014-2024

## 20% Reduction in Total Injuries towards 2024



A 20% YoY improvement in injuries from 2014 would only get us to 280 injuries by 2014.

Total Injuries = Lost Time Injuries + Serious Injuries



**Injuries Milestones:**  
 - 20% reduction in S/ Inj\* by Dec 2016  
 - 20% reduction in LTIs\*\* by Jan 2017

With the current target of 20% year on year, Zero injuries would only be realised Post 2024.

**S/Inj (Serious Injury)\*** = Injury incapacitating injured from performing normal/ similar occupation for 14 days or more, or which causes the injured to suffer loss of a joint/ part of a joint / permanent disability.

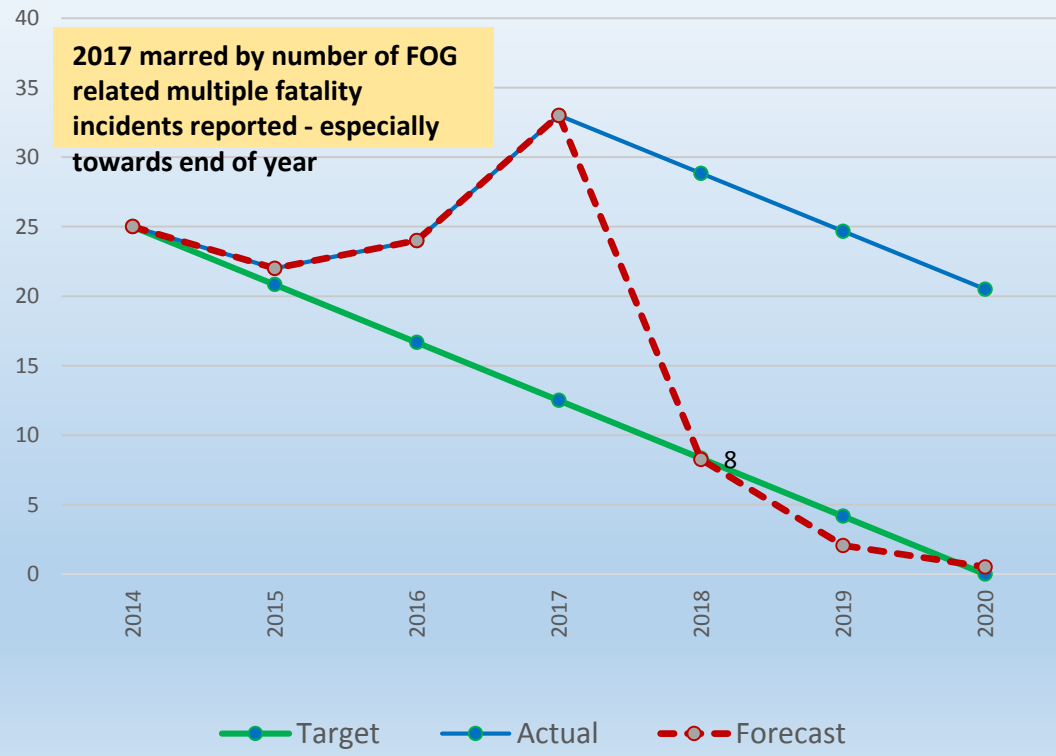
**Lost Time Injury (LTI) \*\*** = An injury which incapacitates injured from performing normal or similar occupation on the next calendar day.



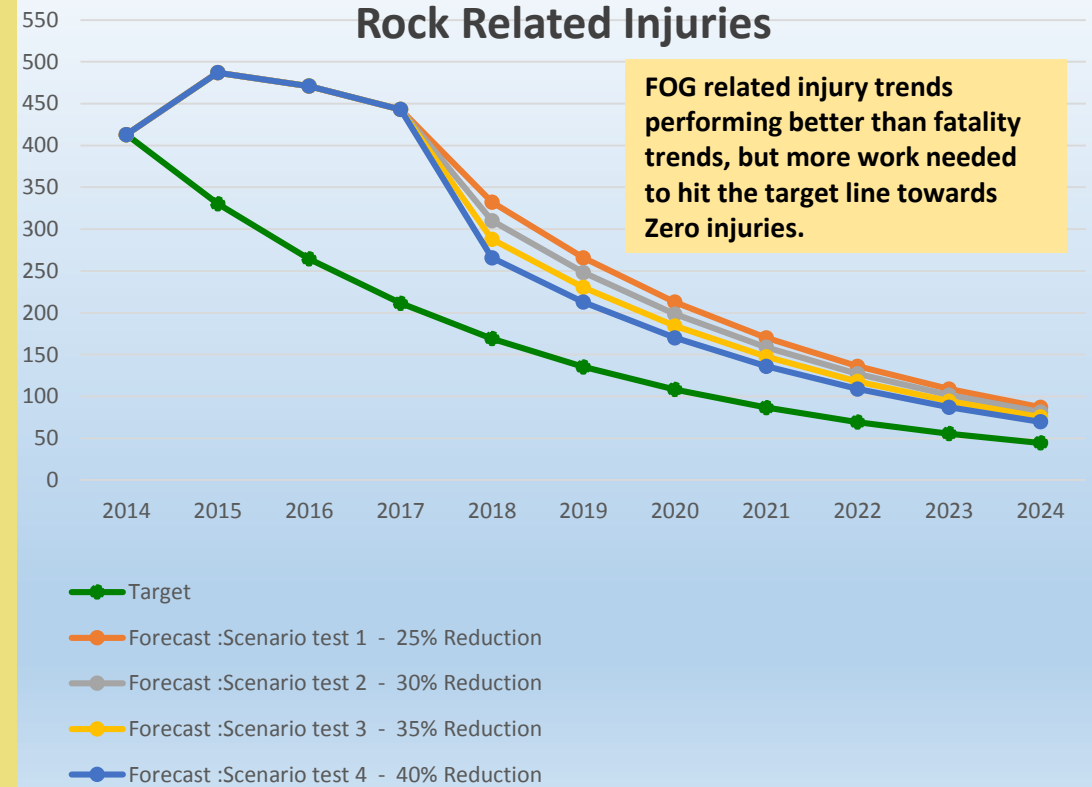


# Falls of Ground Related Fatalities & Injuries 2014 - 2020

## Rock Related Fatalities



## Projected reductions vs the target(20%) : Rock Related Injuries



# OHS Milestones Online Reporting System



MHSC



## Milestone Reporting Portal

E-mail

Password

I'm not a robot  reCAPTCHA  
Privacy - Terms

[Register New User](#) [Forgot Password](#) [Login](#)

SUPPORT : [portalsupport@mhsc.org.za](mailto:portalsupport@mhsc.org.za) or [082 405 9188](tel:0824059188)

## MENU

Mine Information

Reporting Tracker

Reports ▾

Occupational Medicine(OM) Milestones

Culture Transformation Framework (CTF)  
Milestones

Occupational Hygiene Milestones

→ Mines with dust containing respirable crystalline silica (RCS)

→ Mines with respirable platinum mine dust (RPMMD)

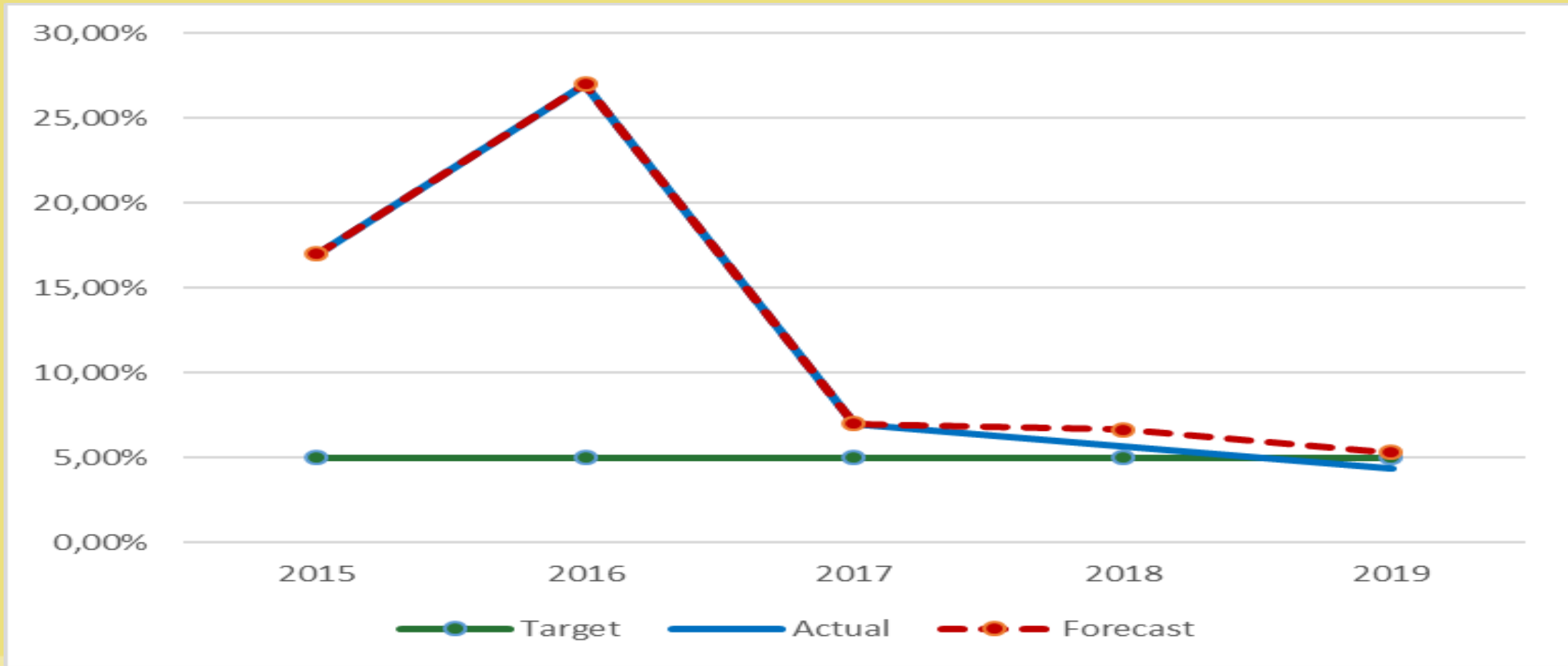
→ Mines with respirable coal dust (RCD)

→ Mines with process or equipment that emits sound pressure  
level of  $\geq 85$  dB (A) at any workplace (Noise Management)

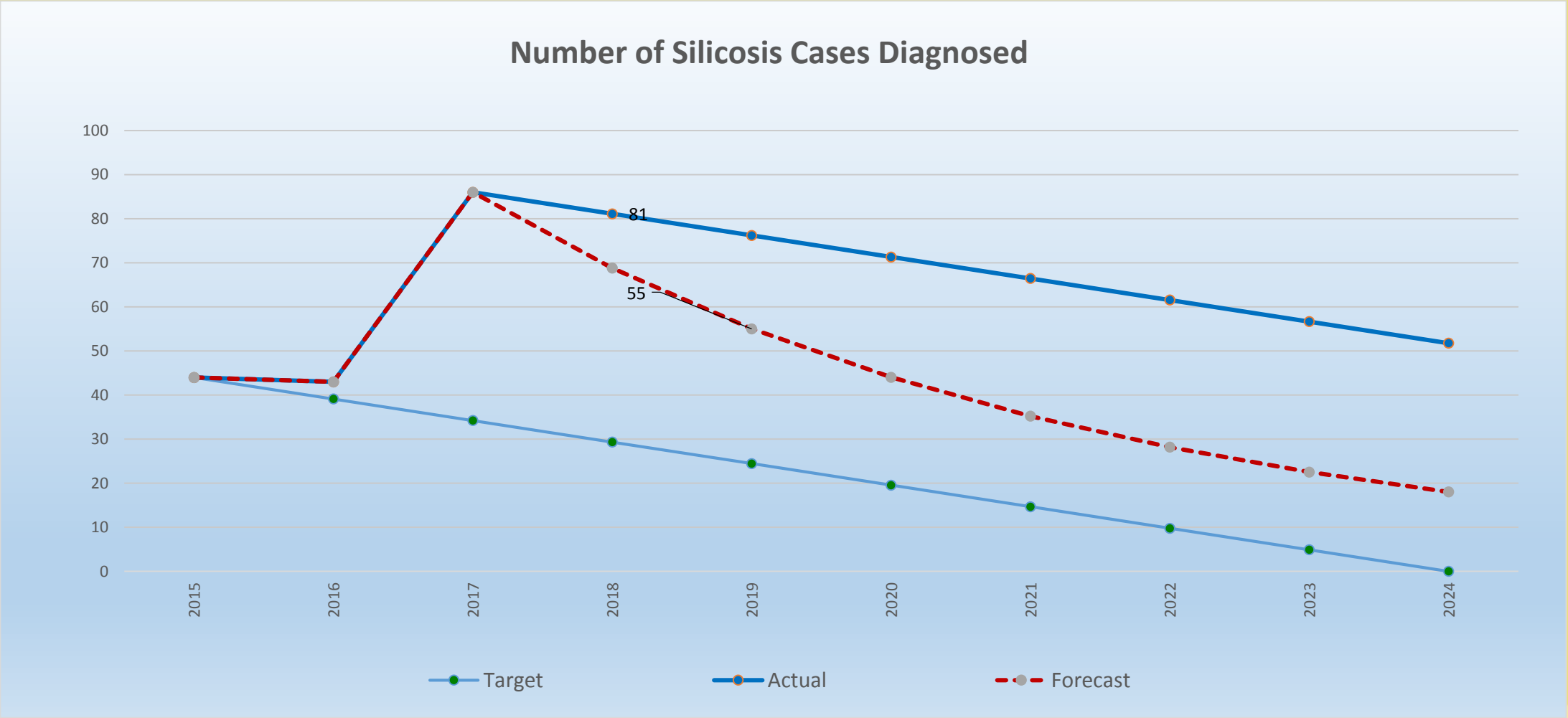
Select Another Mine

Request For New Mine

# ELIMINATION OF OCCUPATIONAL LUNG DISEASES: EXPOSURE MEASUREMENTS OF RESPIRABLE CRYSTALLINE SILICA



# ELIMINATION OF OCCUPATIONAL LUNG DISEASES: Elimination of Silicosis

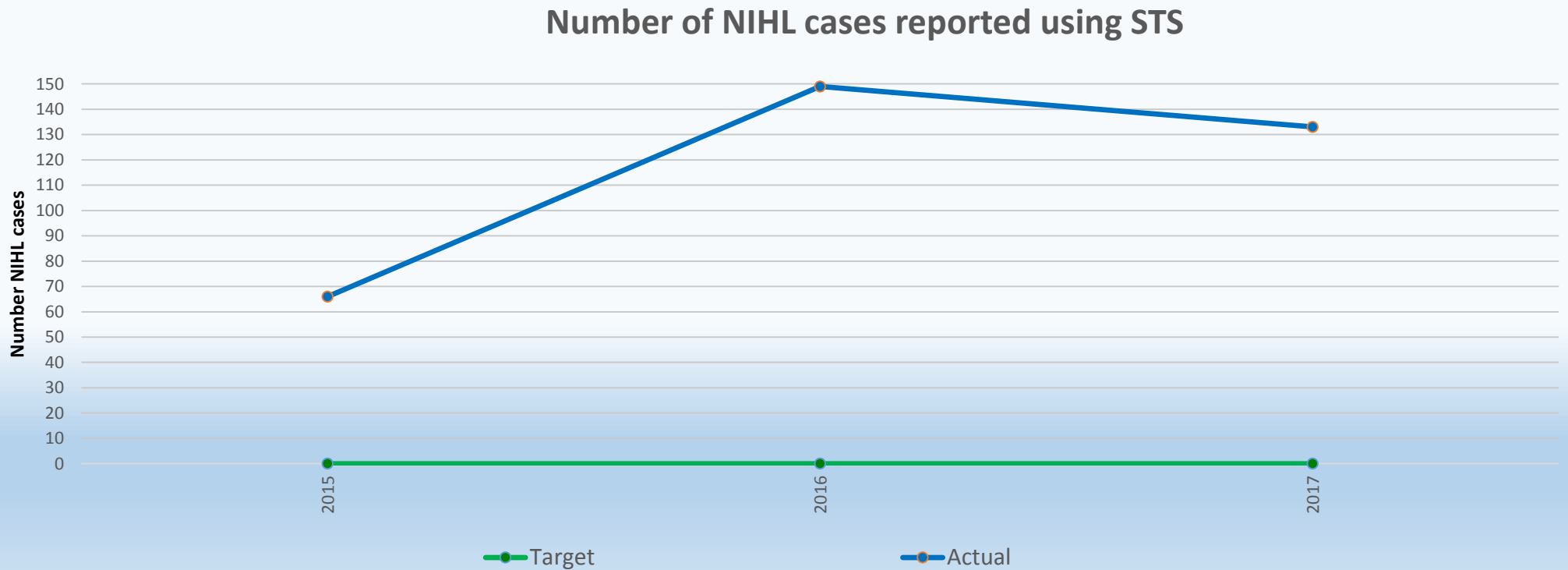


# ELIMINATION OF OCCUPATIONAL LUNG DISEASES: Elimination of Coal Workers Pneumoconiosis

## Number of Coal Workers Pneumoconiosis cases diagnosed

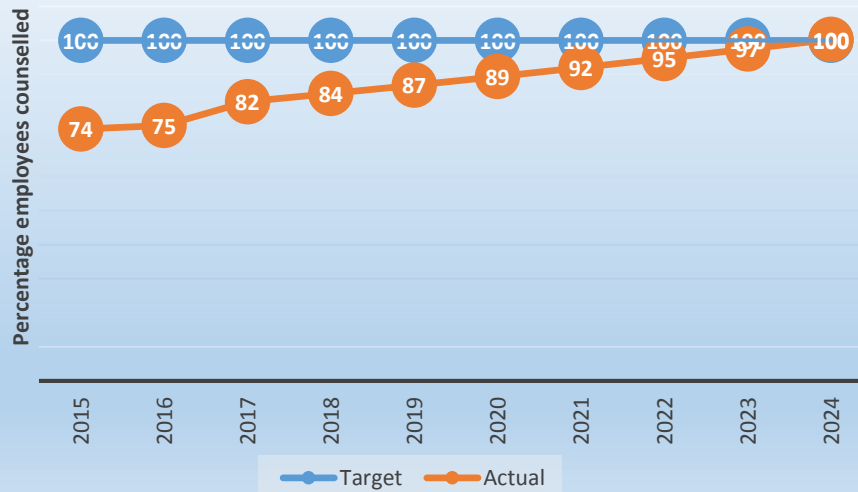


# ELIMINATION OF NOISE INDUCED HEARING LOSS: FOR THE INDIVIDUAL

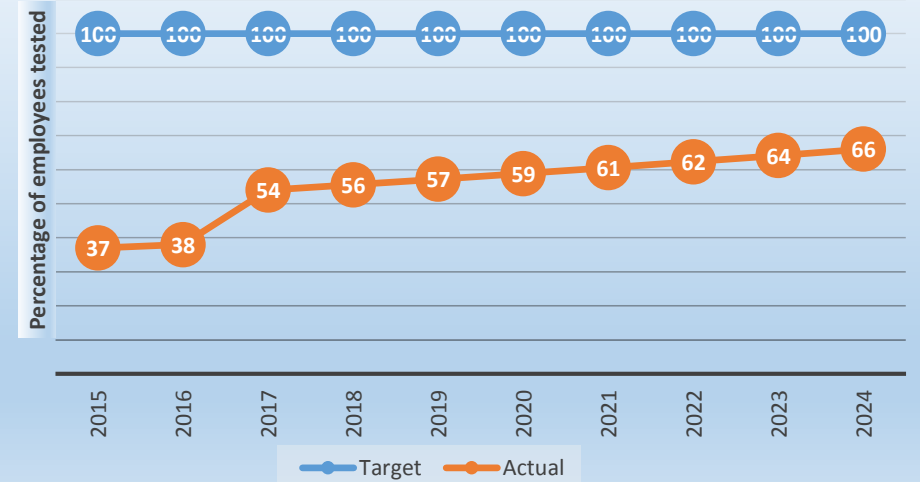


# REDUCTION AND PREVENTION OF HIV & AIDS INFECTIONS

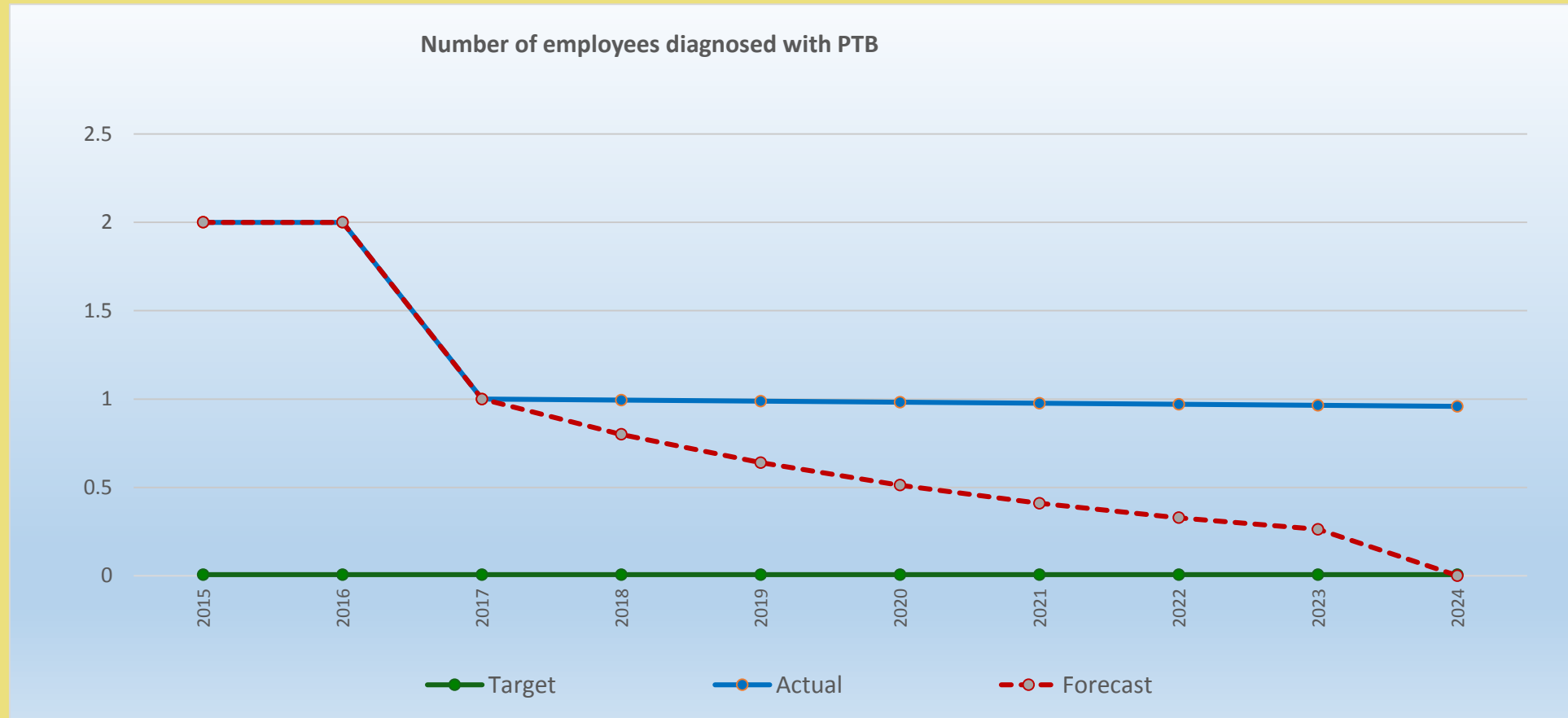
## Percentage of employees counselled for HIV



## Percentage of employees tested for HIV



# REDUCTION AND PREVENTION OF PULMONARY TB INFECTIONS



National TB incidence rate: 0,00593  
<https://www.tbfacts.org/tb-statistics-south-africa/>



# CoE Quickwin Projects Supporting Milestones

CoE Partners as research providers: 7 out of 9 Completed

1. Underground and surface Communication System – In progress
2. Rockmass Condition Assessment Tools - Completed
3. Independent Support Testing Capability - Completed
4. Continuous Dust Monitoring and Suppression – Not contracted yet
5. Missing Persons Locator Systems - Completed
6. Collision Management Systems - Completed
7. Understanding the Impact of Technology on People in the South African Mining Sector - Completed
8. Diesel Particulate Matter (DPM) Measurement and Controls – Completed
9. Statutory Equipment - Completed



# CONCLUSION & WAY FOWARD

- **The Milestones Achievement Concerning Taking into Account the Current Trends, A lot More Work is Required**
- **Implementation of 2016 Principals' Recommitment Needs to be Prioritised by all stakeholders**
- **Action Plan Currently being Implemented Requires (Various initiatives and projects)**
- Assess Interventions Currently used and an Analysis of What Worked and What Did Not.
- What can Tripartite Stakeholders Collectively and Individually do in Bringing about a Step Change to Improve the Industry OHS Performance and Harness the Achievement of Summit Milestones and Targets?
- Exploring New Ways to Address the OHS Challenges

**High Exposures to Occupational Hazards and Loss of Lives Remains Unacceptable!!**



# MINE HEALTH AND SAFETY COUNCIL

**EVERY MINE WORKER RETURNING FROM  
WORK UNHARMED EVERYDAY**



***STRIVING FOR ZERO  
HARM***



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