



MHSC

Mine Health and Safety Council

PARLIAMENTARY PORTFOLIO COMMITTEE

2021/22 ANNUAL REPORT

11 OCTOBER 2022

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LEGISLATED MHSC MANDATE



- Advise the Minister on all occupational health and safety issues in the mining industry including legislation, research and promotion.
- Review and develop legislation for recommendation to the Minister (Focus on Regulations).
- Oversee research in relation to health and safety in the mining industry.
- Liaise with other bodies concerned with health and safety issues (MQA, State Departments and various Stakeholders).
- Promote occupational health and safety culture in the mining industry.



VISION AND MISSION



Vision Statement

Zero harm to mine employees and communities affected by mining activities.

Mission Statement

To promote a culture of occupational health and safety in the mining industry and to make a meaningful contribution to improved occupational health and safety through a tripartite relationship between mine employers, mine employees and the state.

VALUES



Values

The MHSC prides itself on a set of shared values that inform and guide the interaction between employees, stakeholders and the mining industry at large. The acronym “CIRA” represent MHSC core values: **Caring, Integrity, Respect and Accountability**

Goals

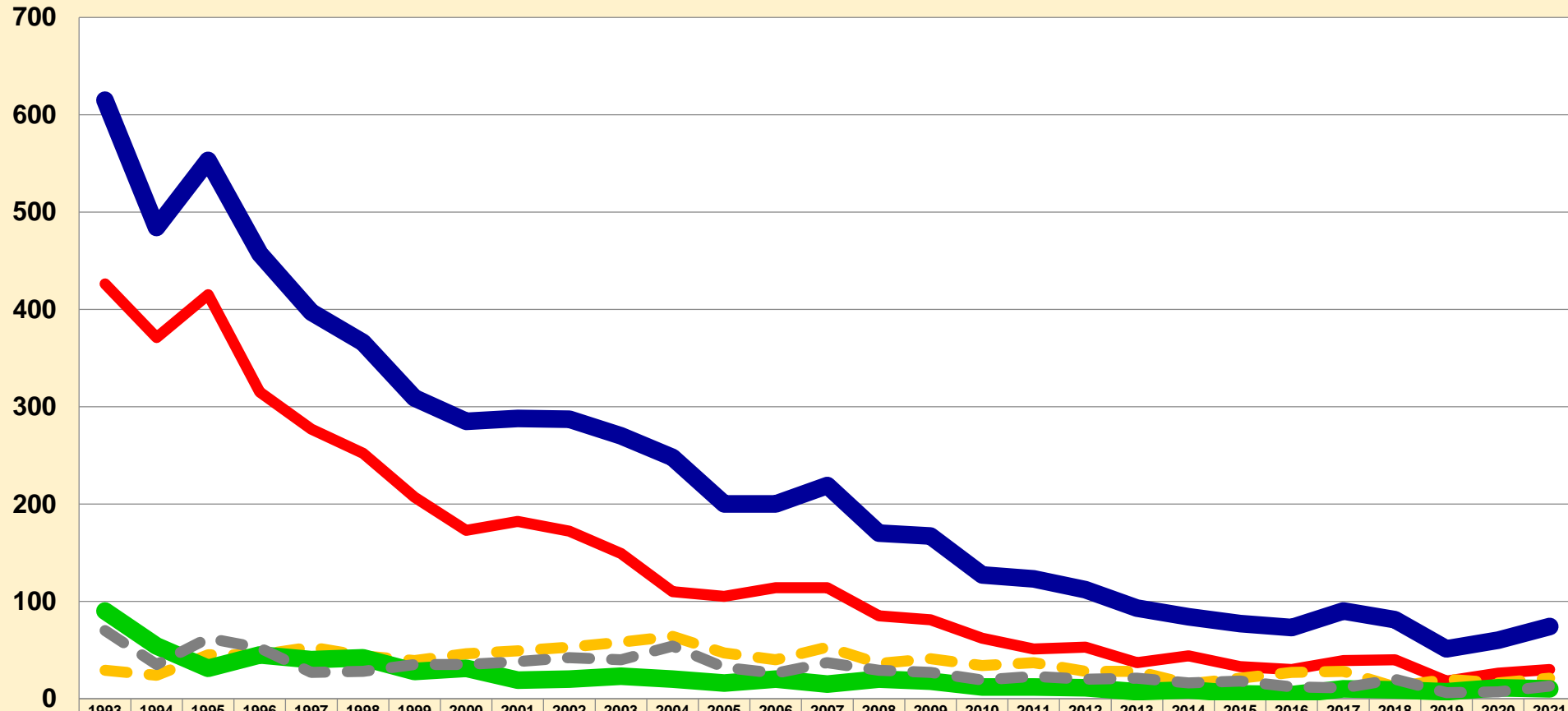
MHSC is pursuing the following goals and all the strategic objectives will be linked to achievement of these goals:

- Zero Harm to employees and communities as a result of mining activities.
- Providing knowledge leadership in mining Occupational Health and Safety.

Slogan

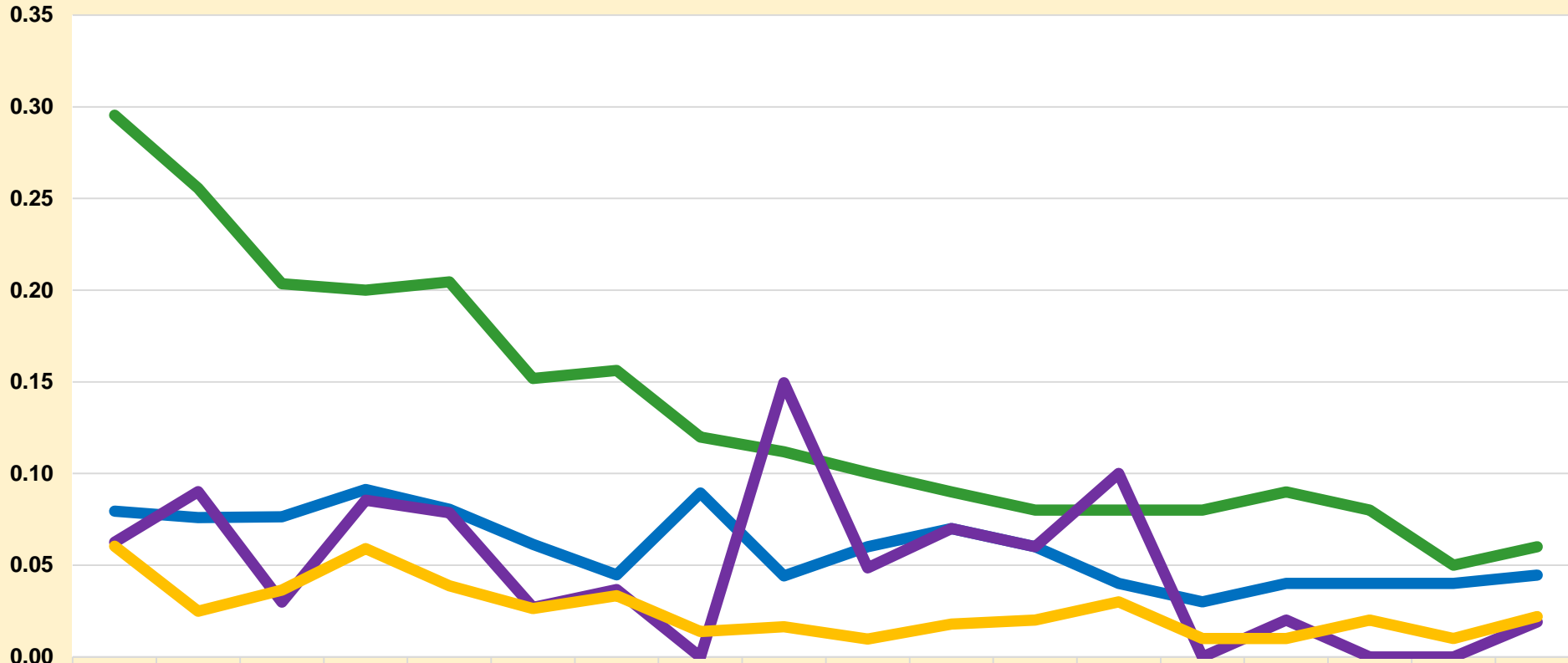
- Every mine worker returning from work unharmed every day. Striving for Zero Harm

FATALITIES BY COMMODITY



	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Gold	426	371	415	315	277	252	207	173	182	172	149	110	105	114	114	85	81	62	51	53	37	44	33	30	39	40	18	26	30
Platinum	29	24	45	45	53	44	39	46	49	53	58	64	47	40	53	36	41	34	37	28	28	15	21	27	28	12	20	16	21
Coal	90	54	31	45	40	42	28	31	19	20	23	20	16	20	15	20	18	12	12	11	7	9	5	4	10	9	7	11	10
Other	70	35	62	52	27	28	35	35	38	42	40	54	32	26	37	29	27	19	23	20	21	16	18	12	11	20	6	7	13
All	615	484	553	457	397	366	309	285	288	287	270	248	200	200	219	170	167	127	123	112	93	84	77	73	90	81	51	60	74

INTERNATIONAL COMPARISON ON FATALITY RATES



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
South Africa	0.30	0.26	0.20	0.20	0.20	0.15	0.16	0.12	0.11	0.10	0.09	0.08	0.08	0.08	0.09	0.08	0.05	0.06
United States (US)	0.08	0.08	0.08	0.09	0.08	0.06	0.04	0.09	0.04	0.06	0.07	0.06	0.04	0.03	0.04	0.04	0.04	0.04
Canada (Ontario)	0.06	0.09	0.03	0.09	0.08	0.03	0.04	0.00	0.15	0.05	0.07	0.06	0.10	0.00	0.02	0.00	0.00	0.02
Australia	0.06	0.02	0.04	0.06	0.04	0.03	0.03	0.01	0.02	0.01	0.02	0.02	0.03	0.01	0.01	0.02	0.01	0.02

— South Africa
 — United States (US)
 — Canada (Ontario)
 — Australia

FATAL ACCIDENTS BY COMMODITY*



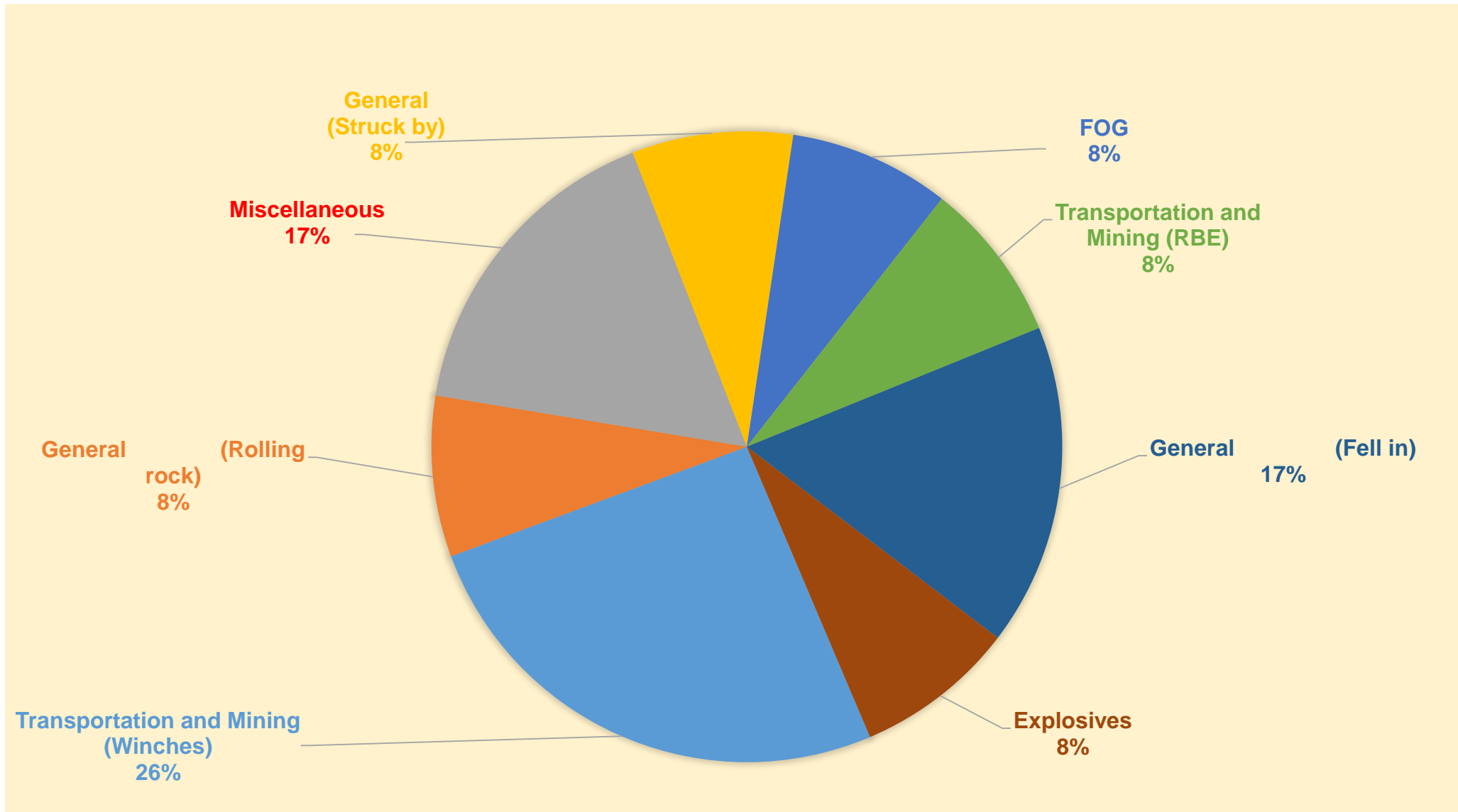
Commodity	1 Jan – 03 Oct 2021	1 Jan – 03 Oct 2022	% Change
Gold	17	8	(53%)
Platinum	10	11	10%
Coal	6	4	(33%)
Other	5	7	40%
Total	38	30	(21%)

FATALITIES BY COMMODITY*



Commodity	1 Jan – 03 Oct 2021	1 Jan – 03 Oct 2022	% Change
Gold	17	12	(29%)
Platinum	10	13	30%
Coal	6	5	(17%)
Other	5	7	40%
Total	38	37	(3%)

FATALITY CLASSIFICATION*

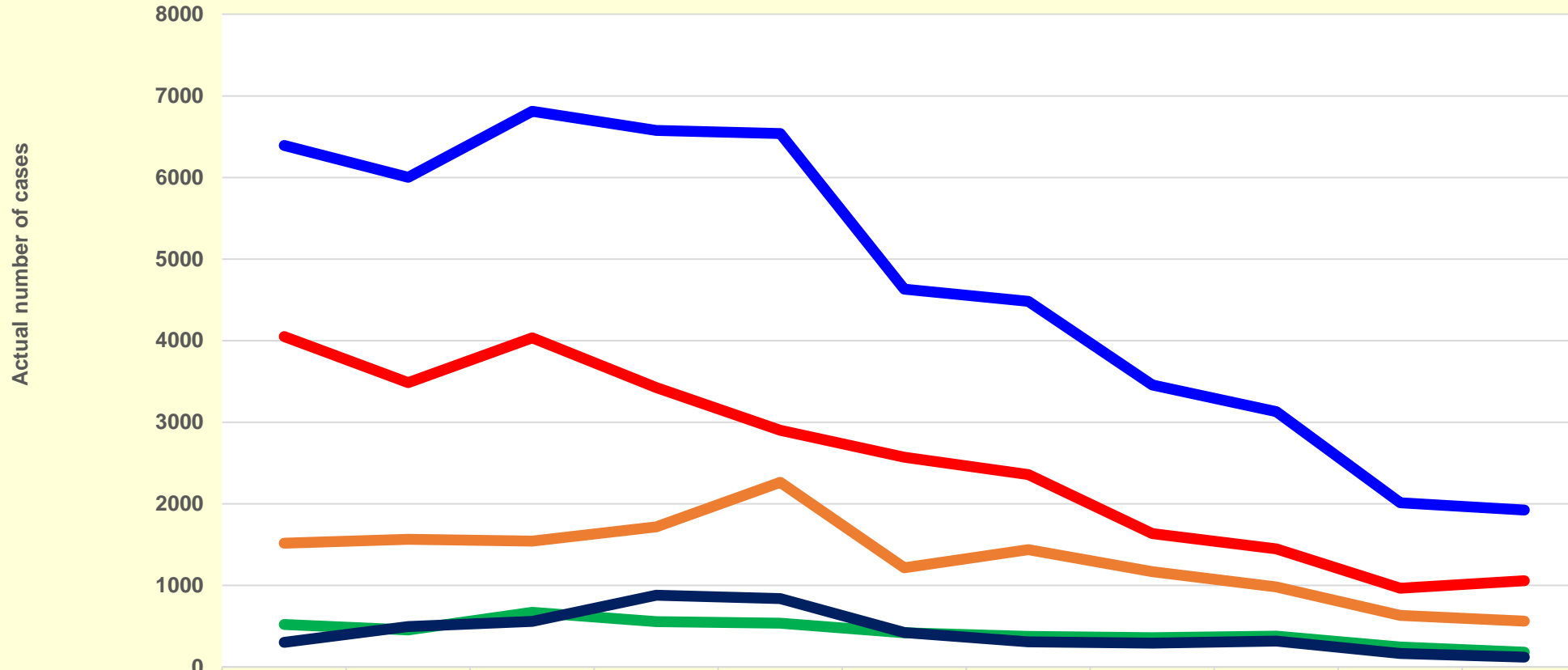


INJURIES BY COMMODITY*



Commodity	1 Jan – 03 Oct 2021	1 Jan – 03 Oct 2022	% Change
Gold	564	382	(32%)
Platinum	793	759	(4%)
Coal	136	148	9%
Other	171	180	5%
Total	1664	1469	(12%)

MAIN OCCUPATIONAL DISEASES REPORTED



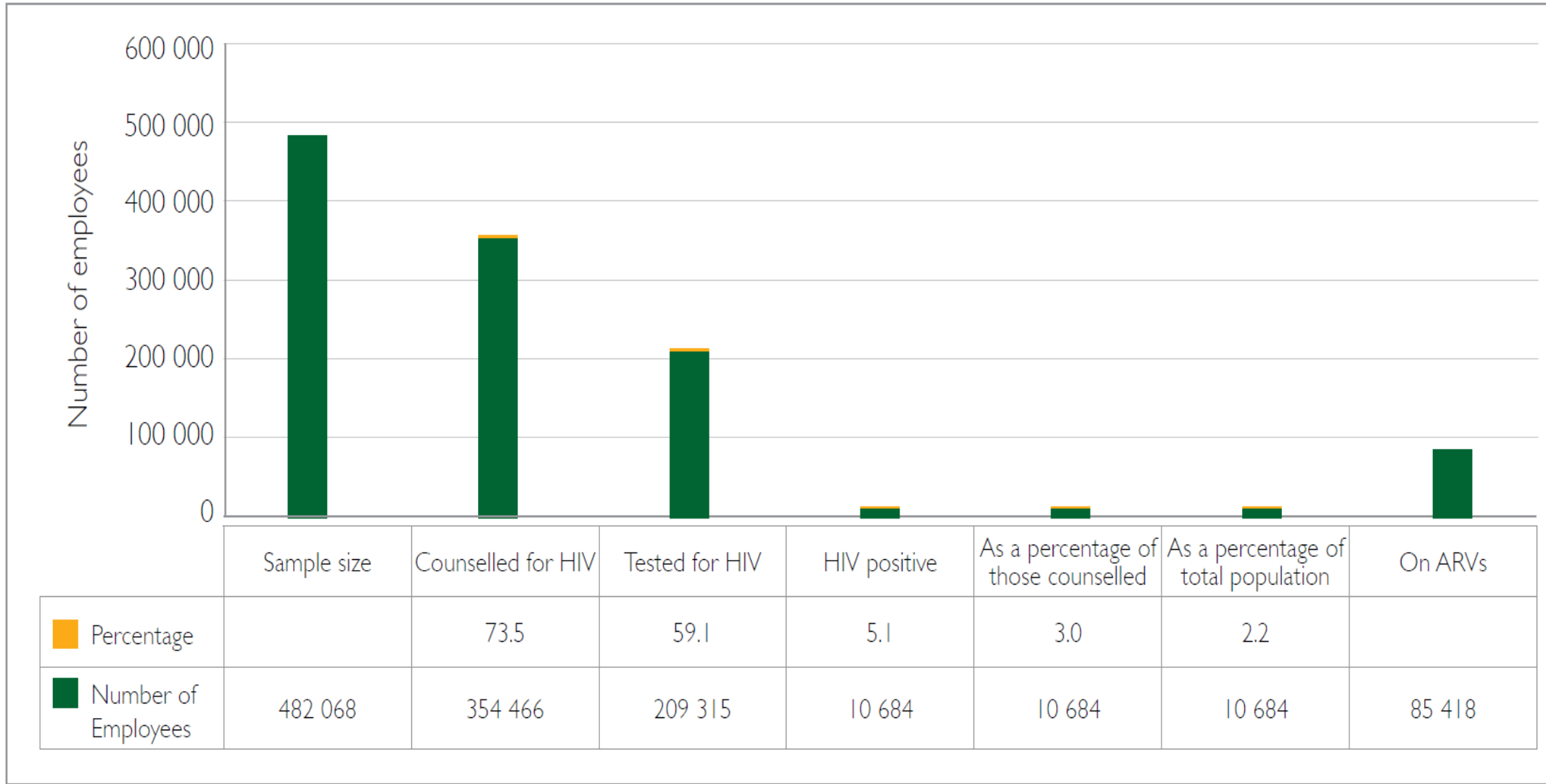
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Gold	4052	3486	4035	3425	2903	2572	2360	1637	1449	967	1 058
Platinum	1517	1565	1544	1717	2263	1218	1440	1169	983	632	563
Coal	521	456	671	556	536	420	375	360	379	247	181
Other	304	496	560	879	838	422	308	292	319	167	122
TOTAL	6394	6003	6810	6577	6540	4632	4483	3458	3130	2013	1 924

COVID – 19 CASES AND VACCINATION



Indicator	Number
Cases	65 997
Recovered	64 975
% Recovery	98,5%
Active Cases	272
Deaths	750
Vaccinated	342 485 (75%)

HIV COUNSELING AND TESTING (HCT) SERVICES



Project completed in 2021/22 Financial year

1. **Underground and surface communication system**

The purpose of the project was to develop a proof of concept for a wireless communication system for underground mines, based on Wi-Fi over power line communication (which uses OFDM) as well as ZigBee communication in emergency situations.

2. **What are the employees experience of health and safety measures in the SAMI**

The research study sought to obtain perspectives of the employees on the various health and safety measures in the SAMI and abroad, as this group is often overlooked in the formulation of the various initiatives for enhancing occupational health and safety. The research was aimed at investigating the experiences of employees of the health and safety measures in the SAMI.

Project completed in 2021/22 Financial year

3. Is the current medical surveillance adequate to monitor all human organs for Crystalline Silica

Respirable crystalline silica exposure results in pneumoconiosis and other fibro-genic lung diseases. As a result, medical surveillance programs globally and in the SAMI focuses on non-invasive clinical examinations of the cardiorespiratory organs. Recent record review and case study articles of silica-exposed individuals have found increased risk of other diseases. **Purpose** is determine if “*The current crystalline silica dust exposure medical surveillance system in the (SAMI) is comprehensive to monitor all organs adverse health outcomes?*”

Project completed in 2021/22 Financial year

4. Capacity of mine health facilities to accommodate communities

Surrounding communities in mining areas are exposed to various health and environmental risk. Many of these communities travel long distances to access health care facilities. However, there is a potential that health care facilities at mines have excess capacity that can benefit surrounding communities. So this study intends to investigate the type, scale, and potential to extend these health care services to surrounding communities.

5. OHS risk management guidelines

Part of the 2014 Summit Milestones and Culture Transformation Framework. The research aimed to develop standardized OHS guidelines, of which there are none in the mining industry on Risk Management pillar.

MHSC ADVISORY NOTES IN PROGRESS



LEGISLATION/REGULATIONS	CoE RESEARCH OUTCOMES ADVISORY NOTES
1. Trackless mobile machinery for the implementation of suspended sub-regulations dealing with diesel equipment	1. CoE 180607 “Review the Current Airborne Exposure Limits as Listed in Schedule 22.9(A)”.
2. Chapter 15 regulations dealing with appointments, duties and responsibilities, and qualifications and competencies: in final stages of completion	2. CoE 180906 “Determine the capacity of Mine Health Facilities to accommodate surrounding communities.
	3. CoE 190605 “Is the Current Crystalline Silica Dust Exposure Medical Surveillance System in the SAMI Comprehensive to Monitor all Organs Adverse Health Outcomes?”
	4. CoE 180901 “Development of a Framework for Employers to effectively manage contractors to improve OHS performance in the SAMI”.

HEALTH & SAFETY SUMMIT 2022



The MHSC will be hosting the **SA Mining Health and Safety Summit on 13 -14 October 2022**, *Gallagher Estate, Midrand* where mining principals and stakeholders will:

- Review progress towards achievement of the milestones agreed at the 2014 OHS summit for implementation by 2024.
- Reflect and engage on the current year's OHS performance and derive solutions that will assist industry to improve.
- Recommit to the achievements of Zero Harm to ensure that every mineworker returns from work unharmed everyday.

Health Issues

1. Elimination of Noise Induced Hearing Loss
2. Prevention of mine fires and explosions
3. Elimination of TB/HIV/AIDS
4. Elimination of Occupational Lung Diseases

Safety Issues

1. Right to refuse dangerous work
2. Fall Of Grounds
3. Transportation
4. Women In Mining
5. Culture Transformation Framework
6. Emerging Risks



25 years in Pursuit of Zero Harm

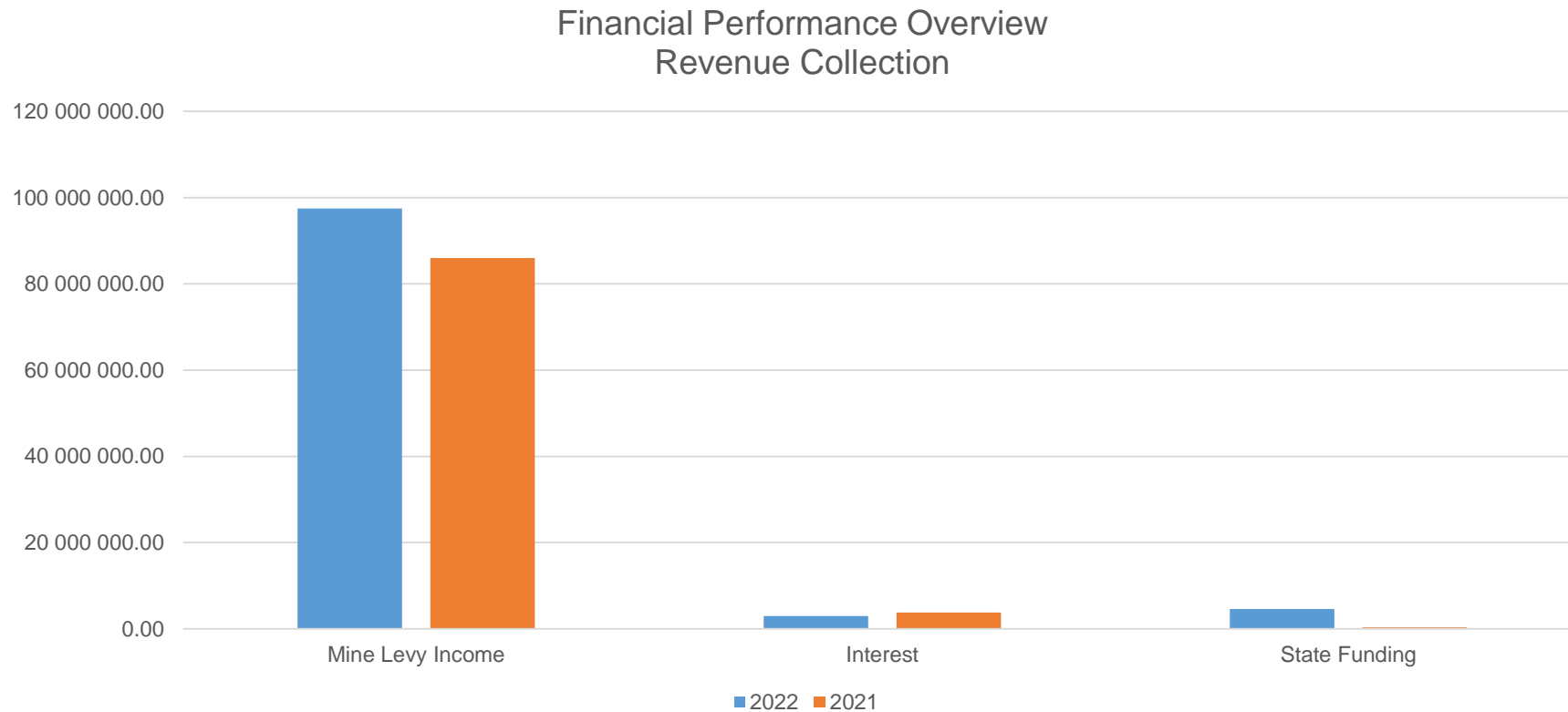
STATEMENT OF FINANCIAL PERFORMANCE AS AT 31 MARCH 2022



	2022	2021
	R	R
Total Revenue	100 760 365,07	90 585 050,00
Revenue from non-exchange transactions		
Mine Levy Income	97 458 375,24	85 989 626,00
Interest	3 001 506,19	3 777 285,00
State Funding	4 581 000,00	344 000,00
Levy Rebate	(5 228 134,23)	-
Other income	947 617,87	474 139,00
Expenditure	(105 841 979,46)	(102 113 139,00)
Employee Costs	(50 352 081,31)	(52 608 774,00)
Depreciation and amortisation	(2 137 693,14)	(4 112 183,00)
Finance Costs	(44 041,34)	(43 932,00)
Lease Rentals on Operating Lease	(3 012 064,60)	(3 132 873,00)
Debt Impairment	(2 876 932,63)	(5 427 645,00)
Loss on disposal of assets	-	(591 274,00)
Operating Expenses	(39 442 527,71)	(23 166 700,00)
Research expenditure	(7 513 286,05)	(12 615 436,00)
COVID-19	(463 352,68)	(414 322,00)
Deficit for the Year	(5 081 614,39)	(11 528 089,00)

Irregular expenditure decreased from R22m in FY 2019/20 to R2.6m in FY 2021/22

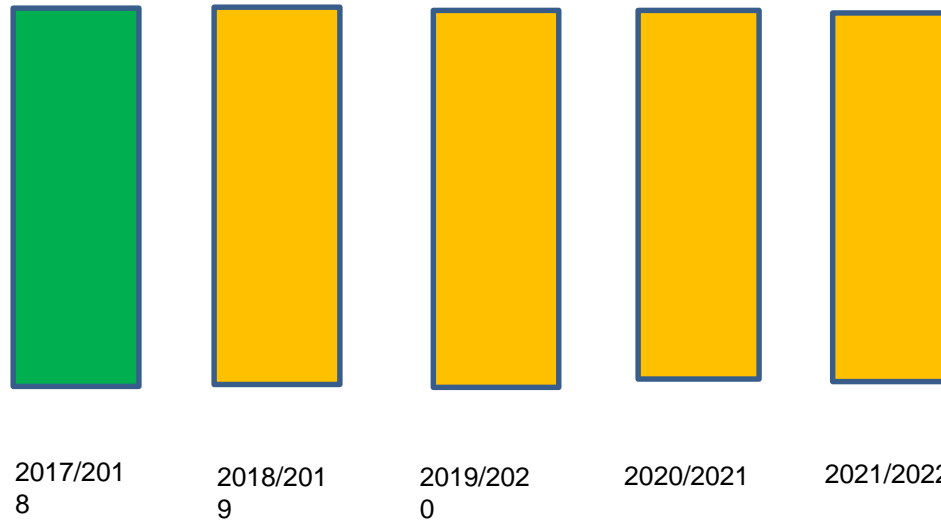
FINANCIAL PERFORMANCE OVERVIEW REVENUE COLLECTION



- **81% revenue collection against a target of 70%**

AUDIT OUTCOMES

- Five year trend analysis on MHSC Audits Outcomes



AUDIT MATTERS HIGHLIGHTED BY AGSA



- Accounting
- Consequence Management
- Irregular Expenditure
- Contract Management
- Performance Information

ACTION PLAN ON AG FINDINGS



- **Training on GRAP Standards**
 - Training of Finance Officials on GRAP standards
- **Implementation of Consequence Management**
 - Implement the outcomes of the investigations
- **Prevention of Irregular Expenditure**
 - Continuous Training on SCM processes (bid committee members and end-users)
- **Implementation of Contract Management Framework**
 - Implement the approved contract management framework
- **Improvement on Performance Information**
 - Training on Theory of Change
 - Review of the APP and Strategy Plan



MHSC

Mine Health and Safety Council

STRIVING FOR ZERO HARM

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