

### **Protecting employees**

### **Agenda**

- Prevention of dust
- 2 Harmony's approach to health
- Industry initiatives
- 4 Conclusion



#### **Prevention of dust**



#### **Dust management strategy in Harmony**

- Awareness and training:
  - Initial training
  - Induction / Refresher Training
  - Silicosis Prevention
     Training for Health and Safety Reps (MHSC)
  - Silicosis Awareness
     Communication
  - Continuous Awareness (Asbestikum TV screens)

- Engineering controls:
  - Foggers
  - Airway Spray Systems
  - Spray Cars
  - Multi Stage Filtration
  - Winch Covers
  - Tip Covers
  - Tip Filters



#### **Silicosis Awareness Communication**

An underground worker had been exposed to silica dust in the workplace for over a decade without taking the necessary precautions.



but reach deep inside the lungs.



Several years later he was diagnosed with silicosis, an incurable lung disease.

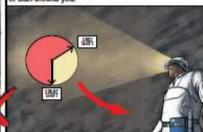


#### Never stand in a visible cloud



you leave the mine premises.

When wearing a dust sampler, don't remove it until the end of the shift. It measures the amount of dust around you.



Always wear respirators when working in dusty areas.



HOW CAN WE PREVENT SILICOSIS IN THE WORKPLACE:



Always water down the work place effectively and repeat during the shift if required.

Use water spray-cars to wet side and foot walls in tunnels

Never sweep the work area with a dry brush or broom, rather wet the area slightly before sweeping.



Maintain good ventilation conditions. Install foggers or dust filters on main tips in main intake airways to ensure good quality air. Fit waterblasts to the end of ventilation columns to trap dust after the blast.







Shower or wash up and change into clean clothes before













to stop dust.

## Extract from E-Learning training programme



In-haulage Sprays



Tip Filter Units



Respiratory Protection Equipment (Dust Masks)



Tip Doors



Spray Cars



Winch Protection Covers



Dust Monitoring Programme



Watering-Down Procedure



### **Engineering controls**

	Planned	<b>Operational</b>
MOSH Leading Practices		
Foggers	78	66
Airway Spray Systems	82	75
Spray Cars	31	20

**MOSH Simple Leading Practices** 

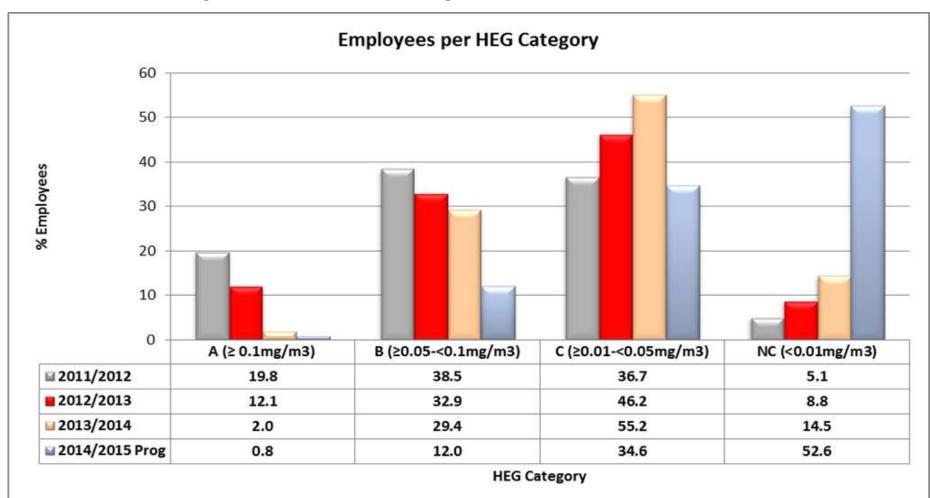
Multi Stage Filtration	38	34
Winch Covers	1171	387

**Harmony Initiatives** 

Tip Covers	63	62
Tip Filters	49	38

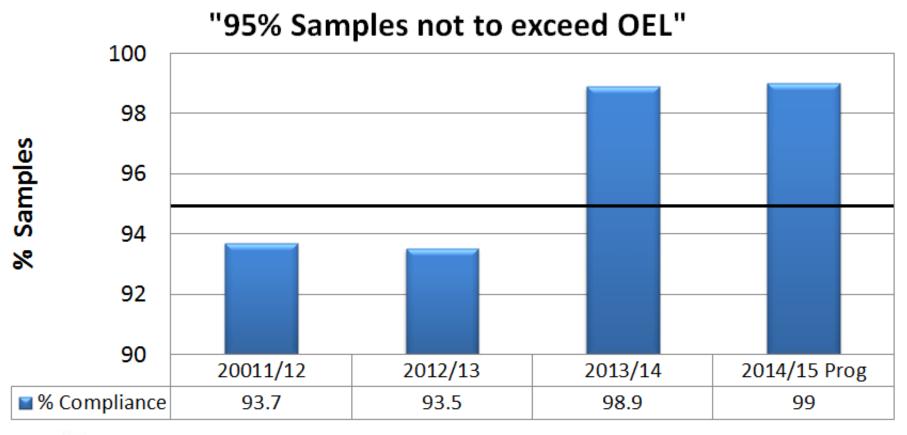


#### **HEG Population Improvement**



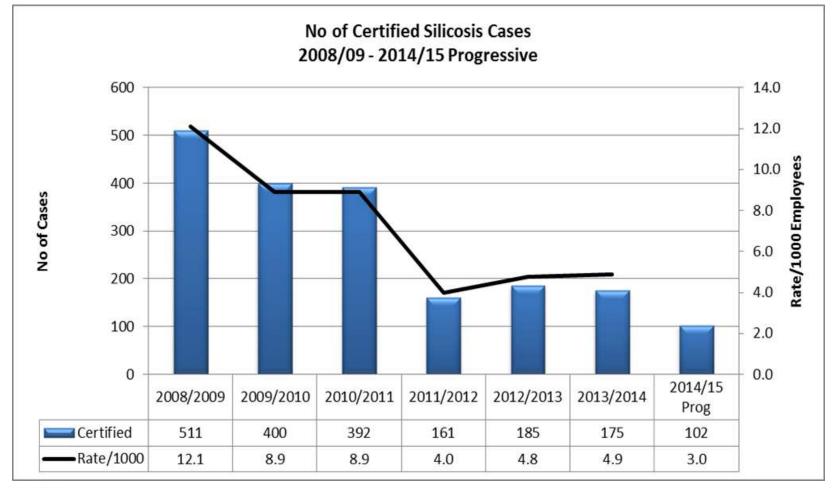


## Milestone Compliance – % Samples below 0.1 mg/m<sup>3</sup>





## Number of Silicosis Cases and Rate/1000 Employees





### Harmony's approach to health



#### A holistic approach to health



Proximity



#### **Based on pillars**

- Promotion and awareness of risks
- Prevention and assessment of risks
- Intervention (programmes)
- Continuous risk e-profiling

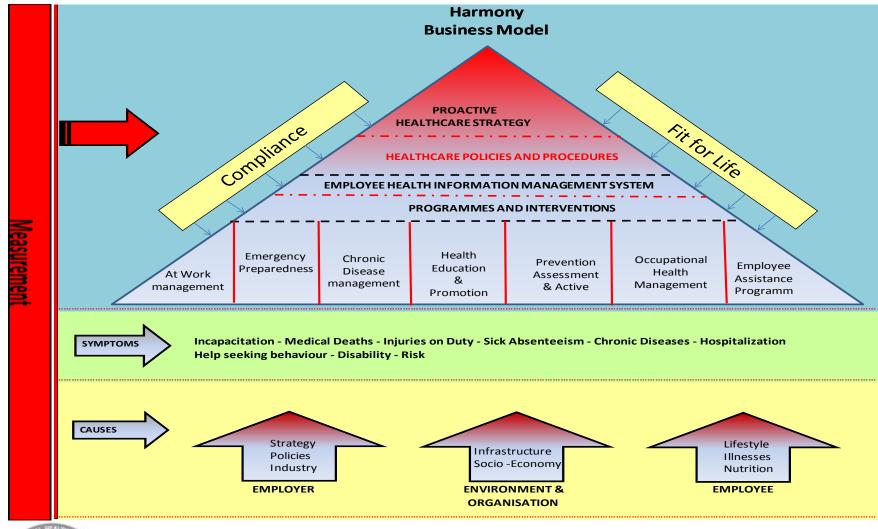
Moving services closer to our people

#### Based on

- Sick
- Hospitalisation
- Referral to specialists
- Terminally ill
- Incapacitation
- Disability
- Death



#### **Harmony Health Care Model**





Components of Pro-active Healthcare model

Promotion and awareness of risks Mental health happy employee? Prevention and assessment of Biological health risks Disease risk Physical Health Interventions **COFs** Safety Exposures Continuous e-risk profiling



## We have a pro-active healthcare strategy

- Early identification of health risks and diseases
  - shaft based medical hubs
  - teams of 25 35 per hub providing a 24-hour service
  - each team has a social worker, health educator, primary healthcare doctor and occupational health specialist.
- Surveillance and screening methods
  - mass yearly case finding
  - yearly compulsory 100% HIV counselling
  - early TB detection using advance technology Gene X-pert.



# We have a pro-active healthcare strategy...cont'd

- Management of TB
  - All employees and contractors
  - mandatory isolation of identified cases
  - ARV treatment offered @ CD4\* count < 500
  - referral system extended to include Southern African Development Community (SADC)
  - collaboration with local and Lesotho governments.
- Prevention
  - UV lights in risk areas
  - research to provide UV light protection on buses and use at homes?

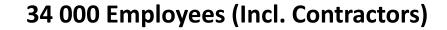


#### Prevention, promotion and education

- ✓ TB And HIV clinics on the mines with individual monitoring by healthcare professionals
- ✓ Healthcare workers trained to recognise most prevalent diseases
- ✓ Screening this diseases at healthcare centres
- ✓ Campaigns, e-learning, quarterly pamphlets, mine-based health and safety topics, podcast, LCD monitors underground covering, HIV, TB, Lifestyle behaviours



#### **Harmony Healthcare 2014 Fact Sheet**



**Average Age Workforce = 43** 

Male = 43 & Female = 38

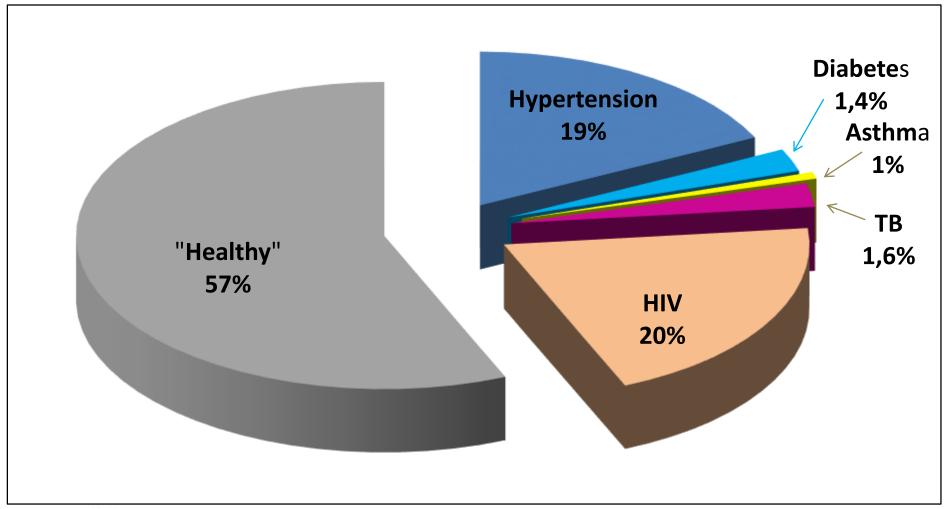
**HIV/AIDS** prevalence = 22%

4 640 Employees on ARV/HAART

**Sick Absenteeism Rate = 4.88%** 



### Harmony burden of disease fact sheet





#### **Achievements since 2009**

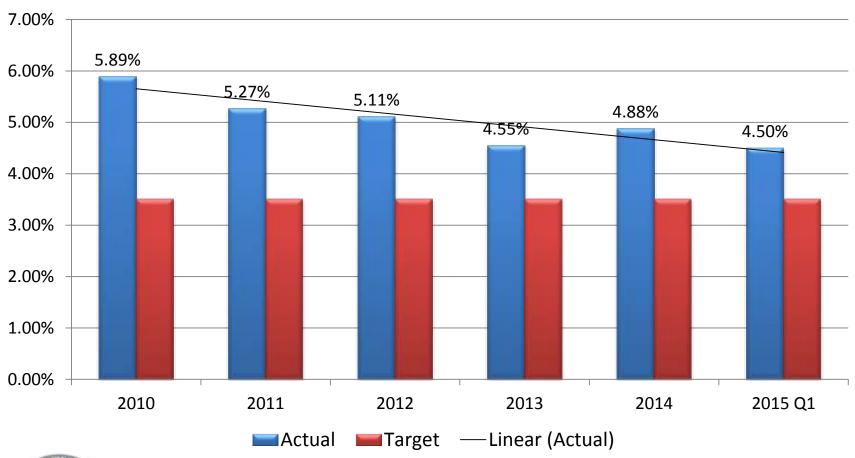
•	Sick	leave trends	-25%
		icave cicias	

- Hospitalization costs -35%
- Mortality in service trends -46%
- TB incident trends -50%



#### **Outcomes**

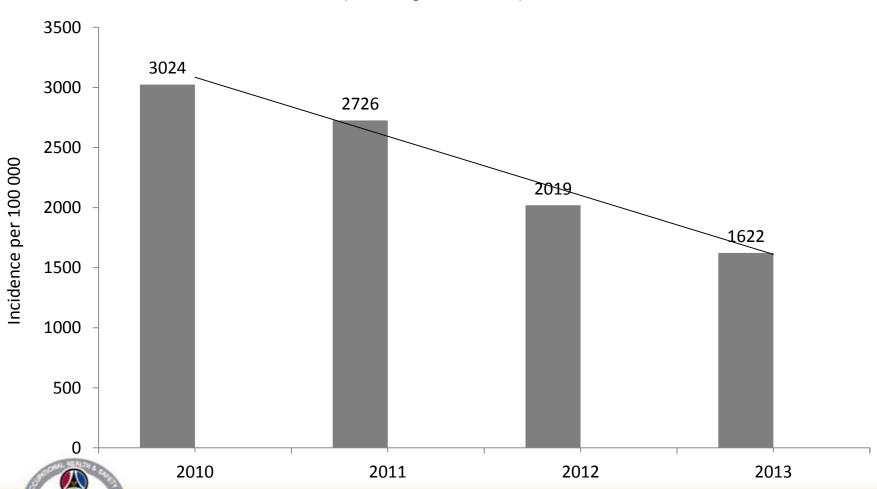
#### **Sick Absenteeism Trends**





#### **Declining TB incidence for Harmony**

TB incidence for calendar years 2010 - 2013 (including contractors)



#### **Occupational Lung diseases**

#### **Industry Initiatives**



### QUESTIONS?

