Tyre Deflation Leading Practice Adoption Workshop

NW, GP & FS Region

28 June 2019

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SOUTH AFRICA

REGISTRATION:

08:30 - 09:00

WORKSHOP STARTS:

09:00

	Duration	Responsibility
Emergency preparedness	**5 min**	Venue Rep
Workshop opening and welcome	**10 min**	K. Motseme
MOSH Noise Sponsor Key note address	**25 min**	P. Steenkamp
MOSH Adoption system overview	**45 min**	W. Deysel
Tea Break	**30 min**	
Overview of theTyre Deflation SLP	**45 min**	Source Mine
Tyre Deflation SLP Video	**30 min**	Source Mine
Leading Practice Adoption Guide	**30 min**	W. Deysel
Registration for Adoption & Break	**30 min**	MOSH Noise Team
Way Forward	**20 min**	M. Mudau
Workshop close and lunch	**1 hr 00 min**	

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Emergency Preparedness

Venue Rep

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Workshop Opening, Welcome & Context

Mr. K. Motseme

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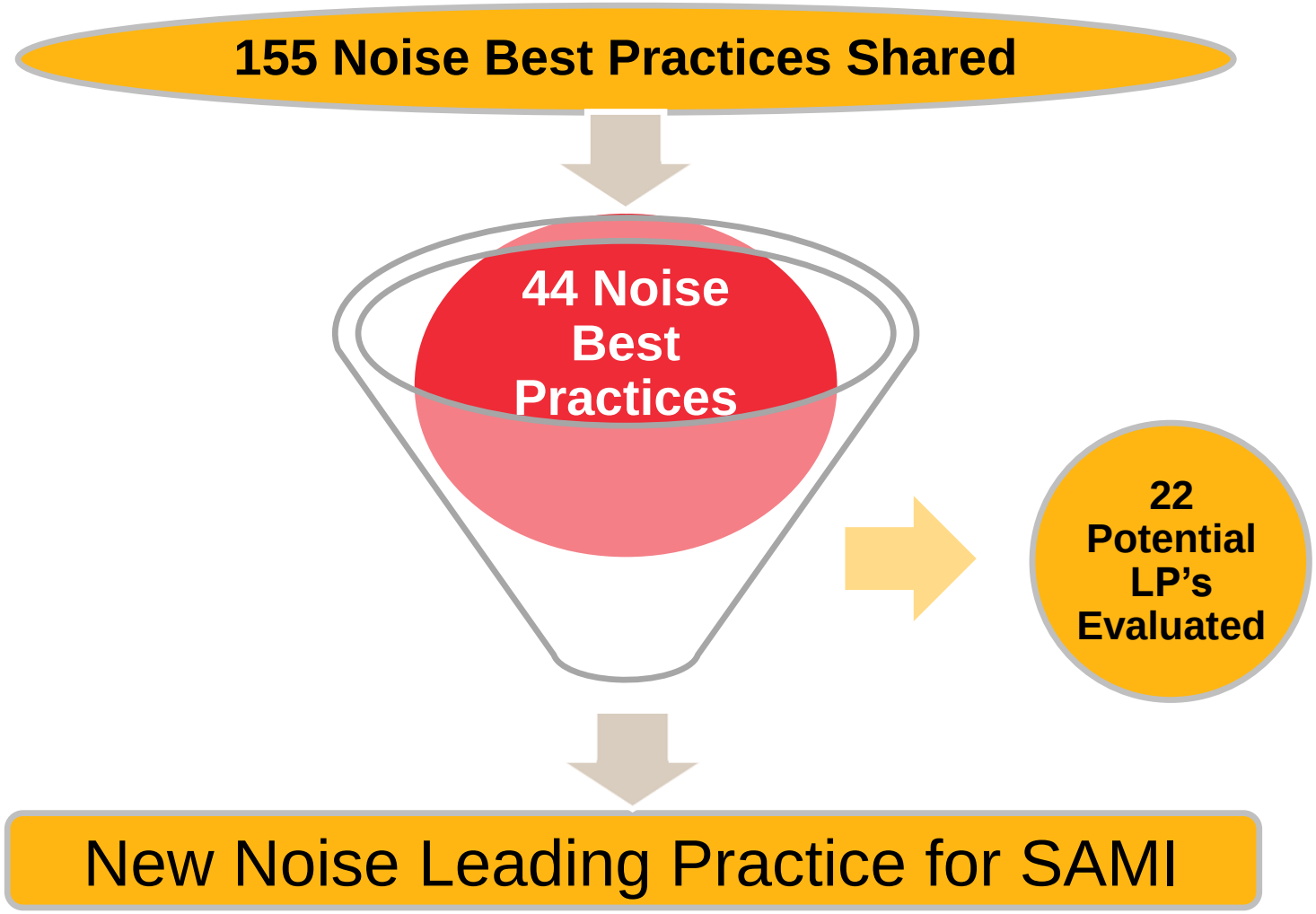
NOISE LEADING PRACTICE JOURNEY



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WORKSHOP PURPOSE

To provide guidance for:

1. **To present details of the leading practice**
2. **Illustrate the value case and process for its adoption**
3. **Establish a focus group for adoption**
4. **Widespread adoption of the simple leading practice across all potential adoption mines.**

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MOSH Noise Sponsor Key Note Address

Mr. P. Steenkamp

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MOSH Adoption System Overview

Mr. W. Deysel

28 June 2019

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ABOUT THE MINERALS COUNCIL SOUTH AFRICA

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Brief Overview of the Minerals Council South Africa

- A comprehensive Brand Health Assessment was conducted.
- A new brand and Minerals Council South Africa was launched on 23 May 2018.
- A proper plan to address legacy issues was adopted.
- A membership compact was developed, approved and signed by member companies.
- Undertake proactive communications.
- Facilitated the first month-long Safety and Health campaign (17 August – mid Sept 2018)

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ABOUT THE MOSH LEARNING HUB

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Our Strategic Direction

Vision

To be pioneers in people centred Health and Safety solutions on the journey to zero harm

Mission

To play a leadership role in enabling the South African mining sector to improve Health and Safety through people centric adoption of leading practices, new technologies and innovation

Our Goals

- **Drive a paradigm shift in health and safety -** *Define the new way of mining to achieve & sustain health & safety excellence.*
- **Facilitating the embedding of adoption principles and leading practices in every mine -** *Continuous introduction of technology and change initiatives in a sustainable manner.*
- **Enabling the Learning Hub -** *Dynamic improvement of the department to effectively and efficiently lead the industry's Zero Harm journey.*
- **Collaboration and engagement -** *Improved relations across a wide range of mining stakeholders in achieving the vision of Zero Harm.*
- **Popularising the Learning Hub's (Minerals Council South Africa) value proposition on health and safety -** *Articulating the Learning Hub's contribution as a catalyst for change in Mine Health and Safety.*

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Our commitment

Minerals Council South Africa in general and the MOSH Learning Hub in particular remains ever committed:

- To making mining matter.
- To effectively engaging OUR members and stakeholders through constructive working relationships.
- To lead by example demonstrating progress towards health and safety.
- To promoting zero harm.
- To sharing and adoption of leading practices through among other things – MOSH and other industry structures.

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KEY ASPECTS OF THE MOSH ADOPTION SYSTEM

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Simple logic of the MOSH process

The MOSH Leading Practice Adoption system process may be characterised by the following three main steps:

Step 1

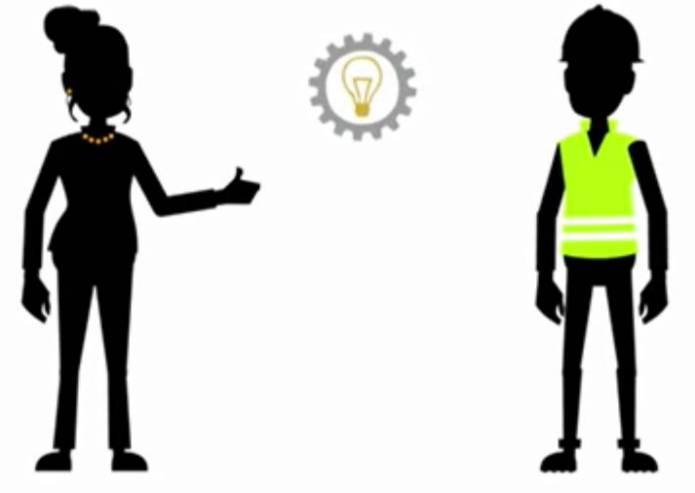
- ***Identify*** **leading practices with the greatest potential to address the major risks**

Step 2

- ***Document*** **the selected leading practice at the source mine where it is already applied**

Step 3

- ***Facilitate*** **widespread adoption of the practice using a Community of Practice for Adoption**



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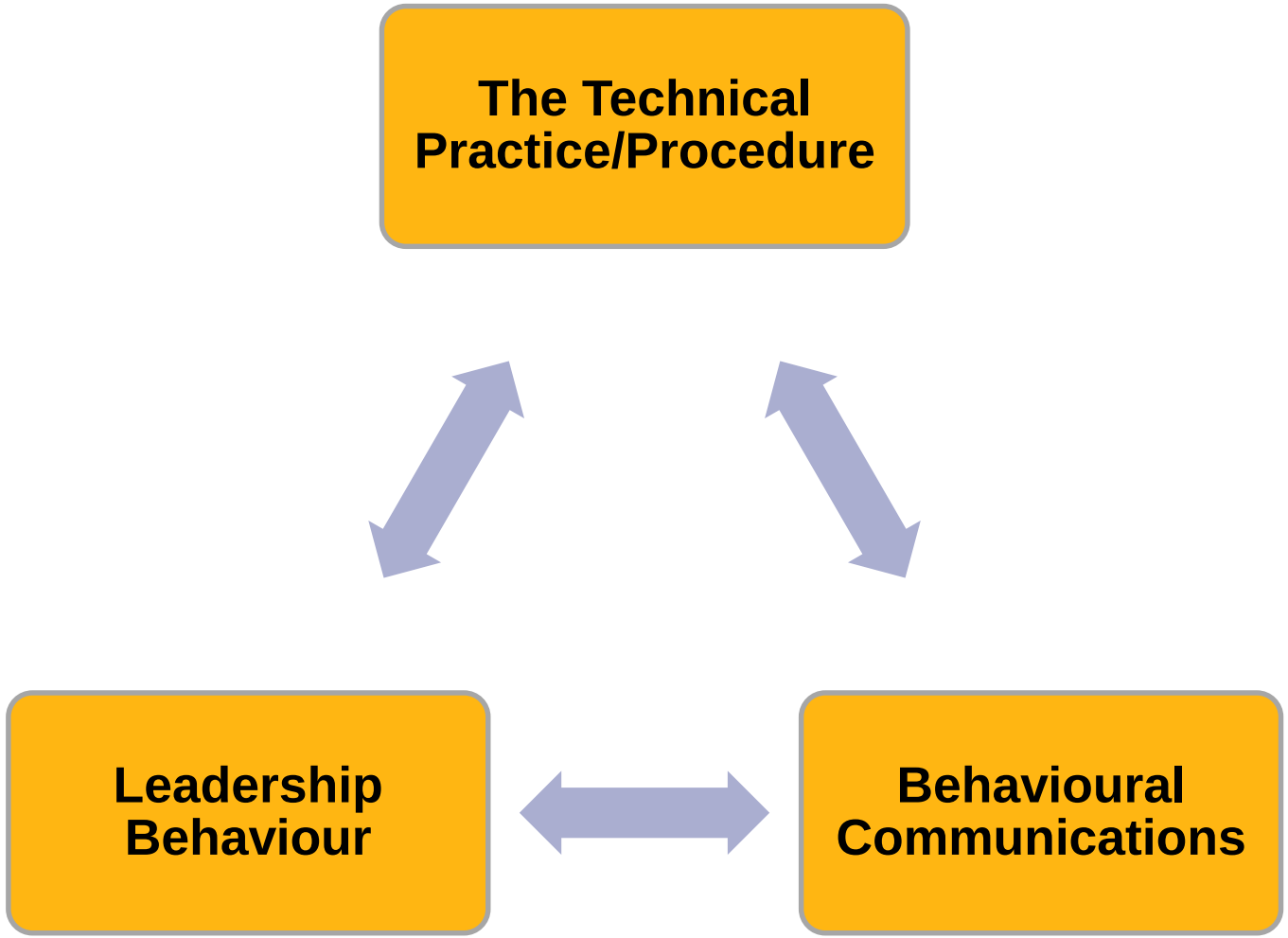
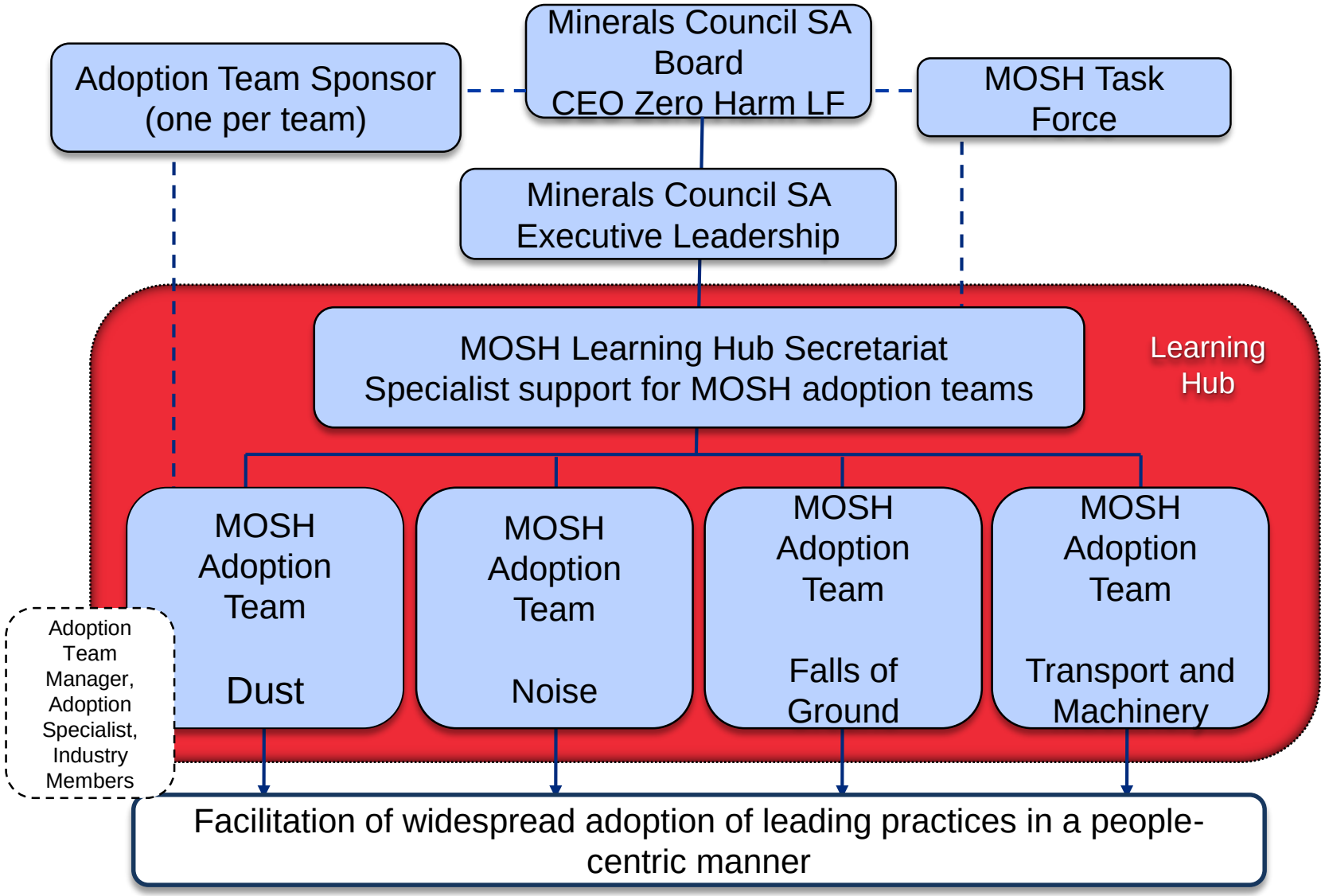
The Three Legs of MOSH Adoption



MOSH structures & Industry Ownership



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MOSH Adoption System: a leading practice in its own right

- MOSH is a systematic and people-centred approach and/or change management methodology for identifying, documenting and promoting leading practices with a view to change the health and safety culture.
- MOSH is grounded on proven science-based behaviour change techniques and industry ownership as an initiative by “industry for industry”.
- It requires early and upfront engagement of those affected to understand their underlying risk perceptions, knowledge gaps, mistaken beliefs, biases, misconceptions, views, concerns.

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Desired Leadership Role: Mine Management

- Accelerate leading practice adoption. – Refrain from “implementation”
- Communicate, engage, align and prepare the ground for behaviour change.
- Make resources available.
- Conduct training for competence and not only for knowledge.
- Create an enabling environment (what leaders say / do or do not say / do not do and how they say or do it has an impact on adoption and sustainability).



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Desired Leadership Role: Regulator & Organised Labour

REGULATOR

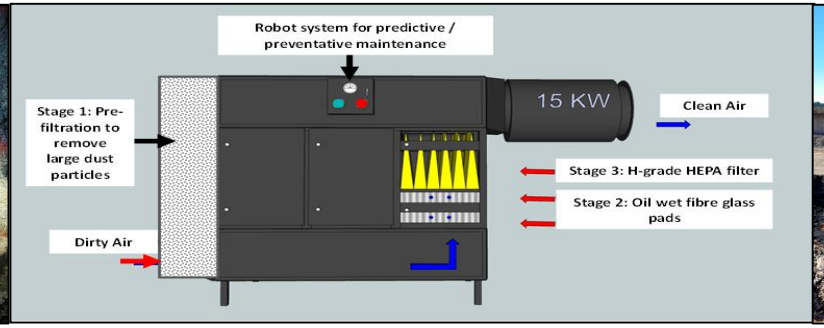
- Given the regulatory function of the DMR the role of its representatives is envisaged to be that of encouragement by asking, among others, the following pertinent questions in a non-instructive manner:
  - Are you are aware of leading practices being promoted?
  - Are you investigating any leading practices being promoted?
  - Are you adopting any leading practices being promoted?

ORGANISED LABOUR

- Engage in debates that seek common solutions and support the adoption of leading practices by recommending ways through which their members can be encouraged to support the adoption of leading practices in their workplaces.

Key MOSH Initiatives

- Facilitate a frank, non-confrontational leadership conversation on what must be done next and differently to achieve ZERO HARM.
- Facilitating adoption of leading practices.
- Improving the quality of leading practice adoption and MOSH impact.
- Building behaviour change capacity and capability at industry level.
- Contributing to people-centred innovation and/ or modernisation.
- Engage the DMR both at national and regional levels.
- Strengthening collaborative initiatives:
  - MOU with the Mine Health and Safety Council
  - Critical control management
  - Learning from incidents (analysis of high potential incidents and/or hazards)



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MOSH Leading Practices – Safety (T&M)

Leading Practice	Description	Benefits	Remarks
Proximity Detection Systems (PDS)	Different types of operating scenarios: • Hard Rock Railbound Equipment (loco to loco). • Coal Underground Trackless (Vehicle to Person). • Hard Rock Underground Trackless Mobile Machinery (Vehicle to Vehicle & Vehicle to Person).	Visual / audible warning to operator to retard – if operator does not respond loco stops Warning, automatic retarding and stopping Audible and visual warning	
Traffic Management Plan	It entails the establishment, maintenance (including adherence to all controls) and improvement of the traffic management system on the operation.	Safe movement of people and vehicles on the operation.	

MOSH Leading Practices – Safety (FOG)

Leading Practice	Description	Benefits	Remarks
Trigger Action Response Programme (TARP)	The level of risk is coded and pre-classified in terms of the risk in poses, namely - minor risk, moderate risk and high risk. Once a risk is identified, a remedial process is triggered which will escalate the problem to the appropriate level required to deal with the risk.	Employees are provided with a formal way to withdraw from dangerous workplaces.	
Ledging	It entails the set up phase of various forms of ledging (up-dip,down-dip, breast, checker-board, wide-raising or wide-winzing) to ensure the safe, sustainable and productive extraction of ore from a stope which is to follow.	Improved multi-disciplinary planning process underpinned by proper leadership and communication behaviour.	
Nets with Bolts	Installation of nets and bolts from the hangingwall in tabular, narrow stoping width of up to 2 metres in underground mines without shales.	Nets provide area protection from hangingwall rockfalls.	
Drilling and blasting guide	Improve the quality of marking, drilling, charging, stemming, and blasting.	Reduce the number of uncontrollable rockfalls.	Still to be promoted during March/April 2019

MOSH Leading Practices – Health (Noise & Dust)

Leading Practice	Description	Benefits	Remarks
Continuous real-time monitoring of airborne pollutant engineering controls	Monitoring instruments are place strategically at identified sources of an airborne hazard and plugged into an existing telemetry network to monitor the ambient air condition continuously in real-time.	Reduce the impact of harmful airborne pollutants at source.	
Scraper Winch Covers	Ensures that the winch drum guard of existing winches are covered using a non-inflammable material that conforms to applicable standards.	Protect workers from exposure to the hazards.	
Multistage Filtration System	Ensures that contaminated air is extracted by means of a fan through the filtration unit at a rate of 5 m^3/s, whereby it undergoes three stages of filtration.	Improve air quality to protect workers from exposure to the hazards	
Industry Buy and Maintain Quiet Initiative (IBMQI)	It is a noise source elimination initiative aimed at managing the noise hazard at the machine design phase involving a collective demand from the industry to nudge OEMs / Suppliers to focus their efforts on noise reduction as part of their product development.	Agreement reached on standardized noise measurement methodology. Critical Noise Equipment have been identified per commodity	Still to agree industry standards on third party verification and OEM engagements
Tyre Deflation Noise Reduction			Currently Being Launched

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Break

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Overview of the Tyre Deflation Noise Reduction SLP

Mr. K. Motseme

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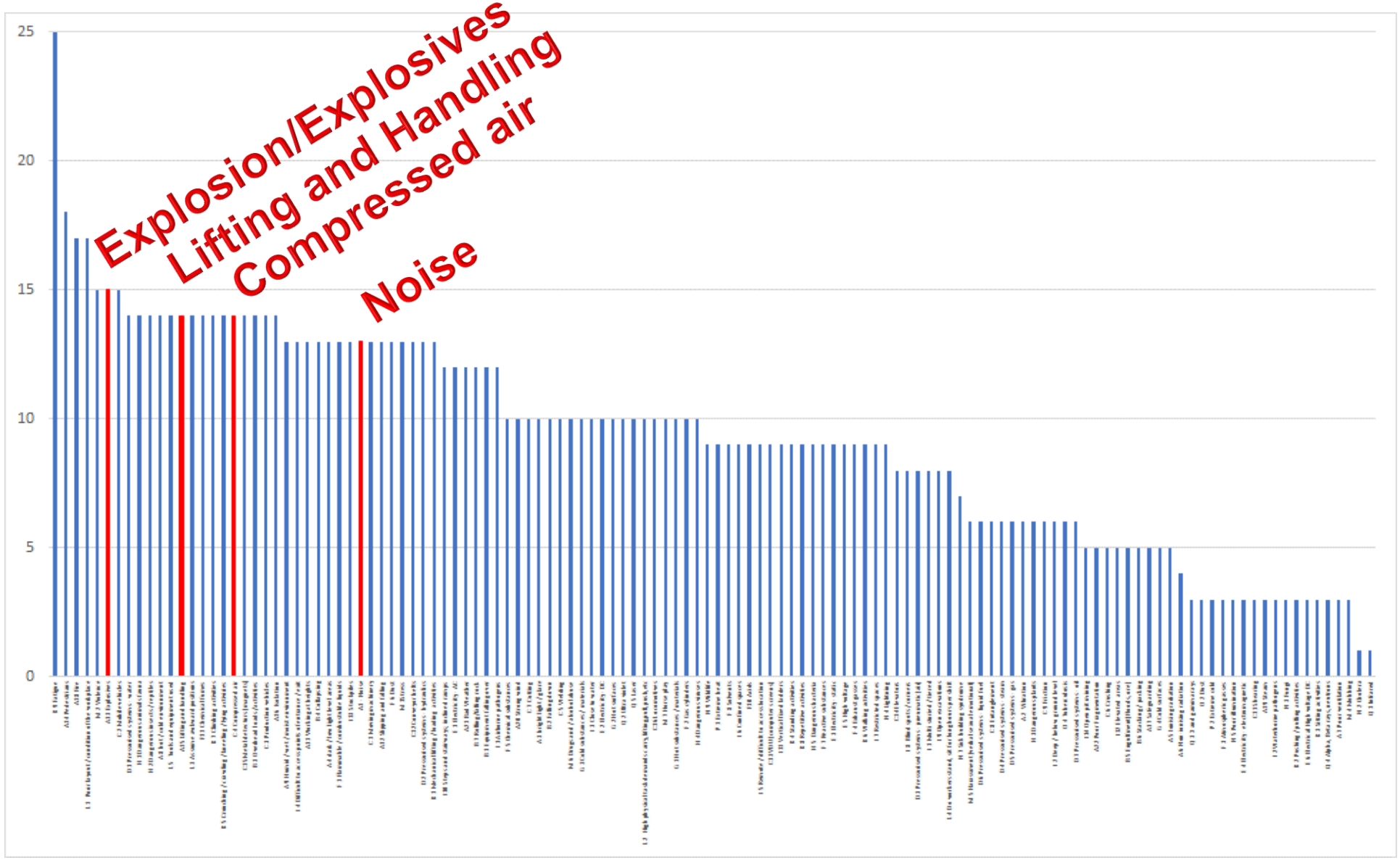
Understanding the Noise Risk



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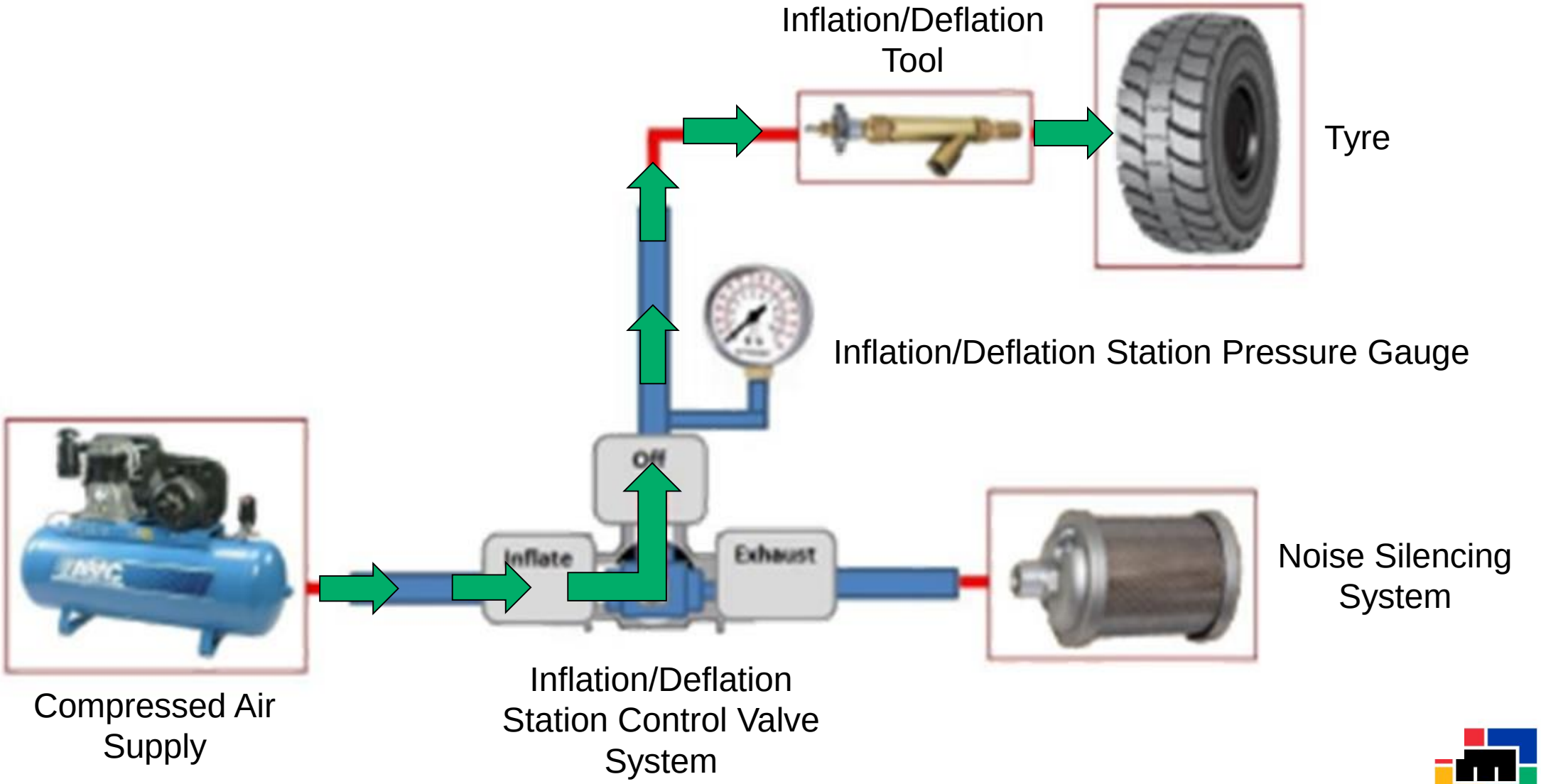
Introduction

- Tyre maintenance normally involves the deflation of the vehicle's tyres
- Deflation of tyres was identified as one highest noise generation activities during tyre maintenance.
- Peak noise emission equalling **118dB** were recorded during tyre deflation.
- High risk for permanent hearing loss
- Use of Hearing protection devices is compulsory during tyre deflation
- The practice consist of two control options which reduces noise emissions during vehicle tyre deflation and primarily focuses on mitigating the noise risk to the employees, by **isolating the noise source position** and remotely releasing it away from the employee's potential exposure position/zone

Tyre Inflation



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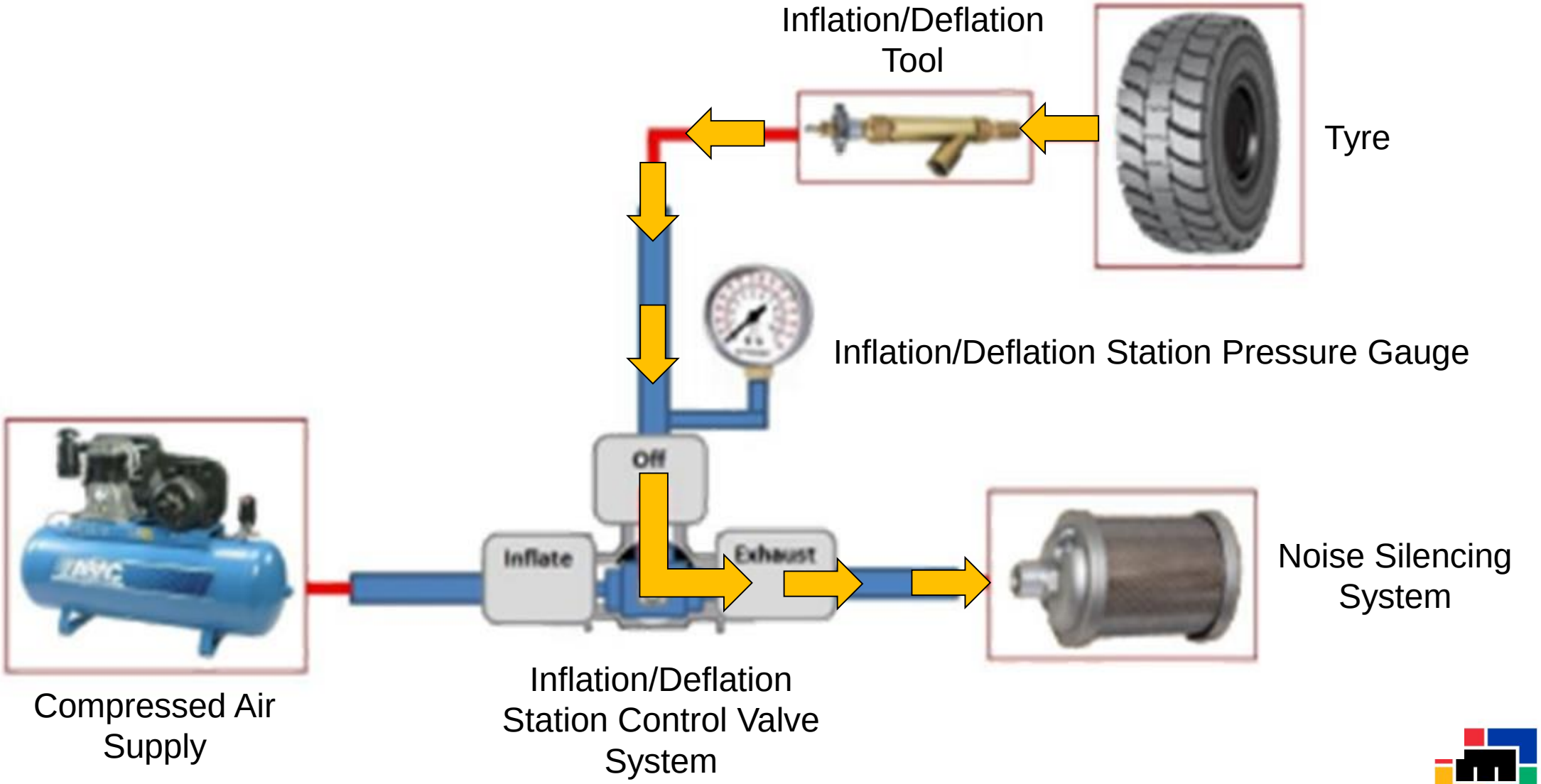
Tyre Deflation



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Trolley Tyre Deflation System

- Muffles sound which protects the hearing of operator whilst deflating the tyre. Muffler connects to the deflation/Inflation Tool either directly or with an extension pipe between the units.
- As per the Source Mine test, the noise emission is reduced to between **59,9-76,7dBA.**
- Can be used as a loose standing unit or fixed to a mobile deflation/inflation trolley – Refer to demonstrations below

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Fixed Pole Tyre Deflation System

- System is a **fixed installation** at a Tyre Workshop. The installation includes a multi-connection manifold connected to a single 63mm pipe which extend to the top of the roof where the air and noise are discharged during deflation.
- All tyres that need to be deflated in the workshop are subjected to this system to reduce noise exposure of employees. Due to the larger diameter pipe being used, the deflation time is shortened significantly
- As per the Source Mine test, the noise emission is reduced to between **54,4-70,1dBA**.

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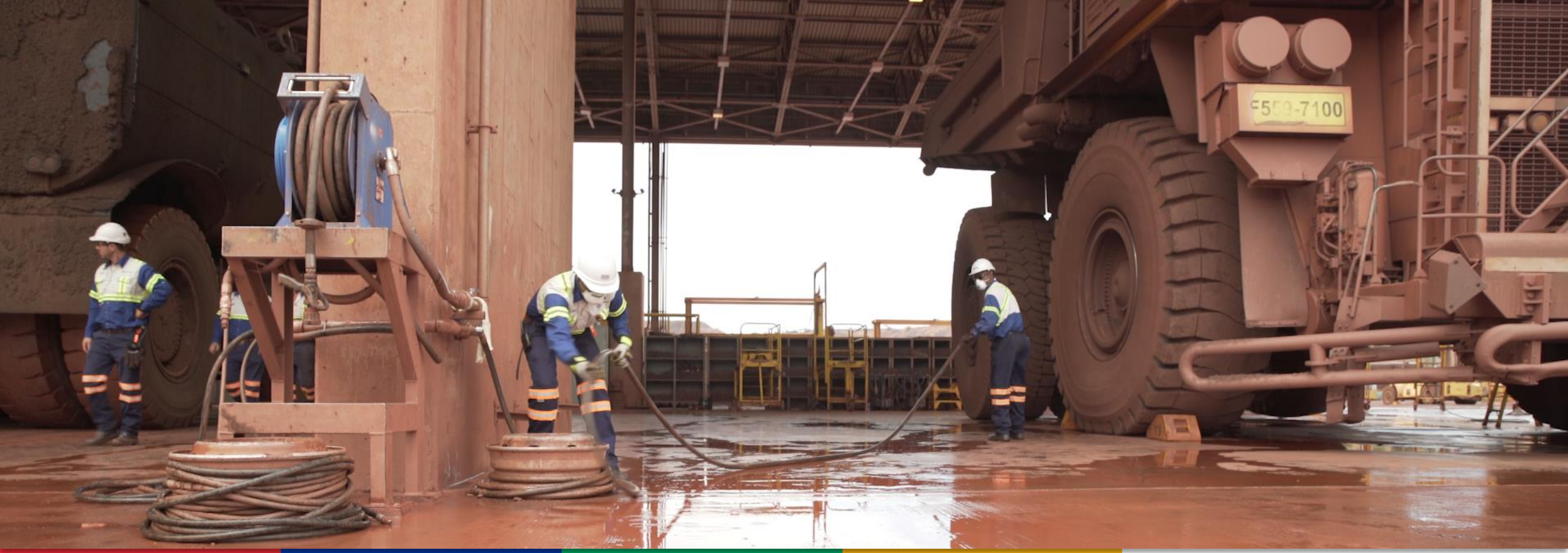

Tyre Deflation Noise Reduction SLP Video

Mr. K. Motseme

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Tyre Deflation Noise Reduction Simple Leading Practice Adoption Guide

Mr. W. Deysel

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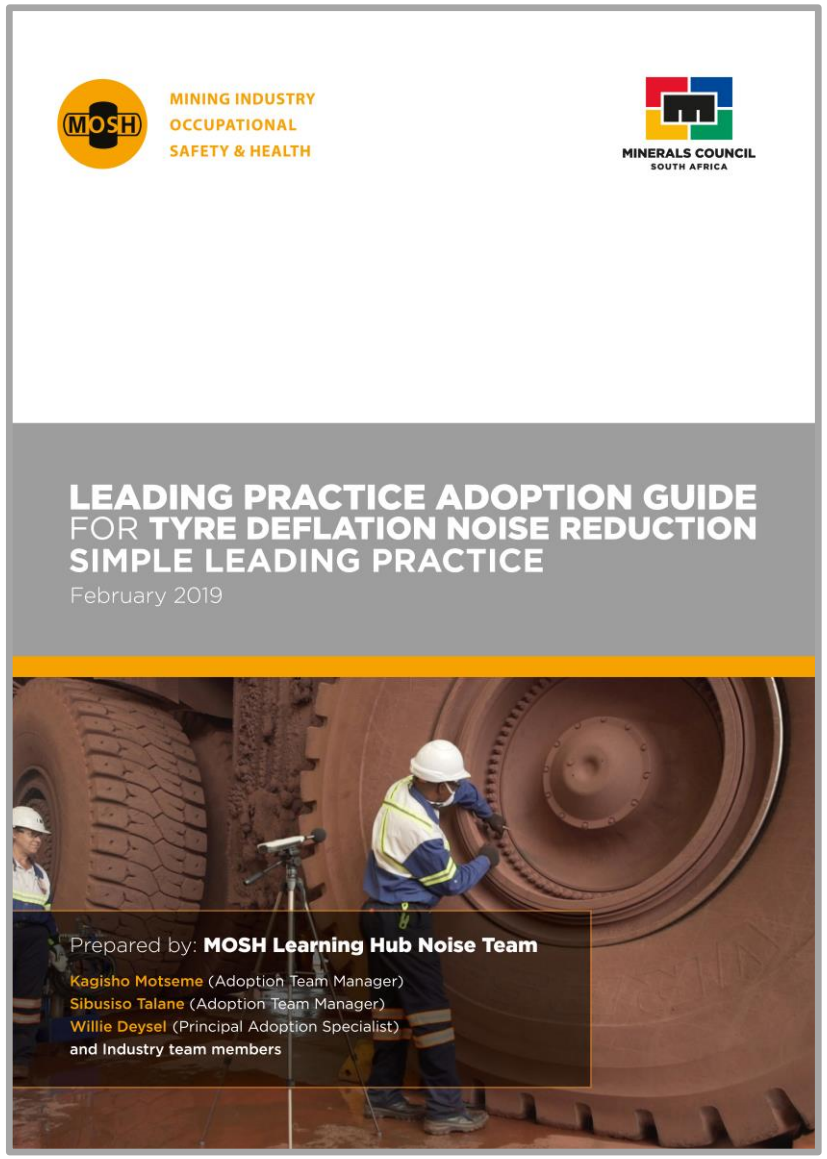
Tyre Deflation Noise Reduction Simple Leading Practice Adoption Guide



PART I: THE MOSH ADOPTION SYSTEM

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PART I: THE MOSH ADOPTION SYSTEM

MOSH Adoption System Elements in the LPAG

1. Background
2. The MOSH Adoption System
3. Simple Leading Practice (SLP)
4. Adoption process and MOSH leading practice/SLP main elements

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PART II: DESCRIPTION OF THE SLP

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PART II: DESCRIPTION OF THE SLP

The Tyre Deflation Noise Reduction Simple Leading Practice

1. Best practice description
2. Problem statement
3. Technical aspects of the practice
   - 3.1 Mobile trolley deflation system
   - 3.2 Fixed pole deflation system
   - 3.3 Inflation/deflation adapter
   - 3.4 Main components of the inflation/deflation tool
   - 3.5 Operation of inflation/deflation tool

PART III: DOCUMENTED BENEFITS OF THE SIMPLE LEADING PRACTICE

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PART III: DOCUMENTED BENEFITS TO DATE

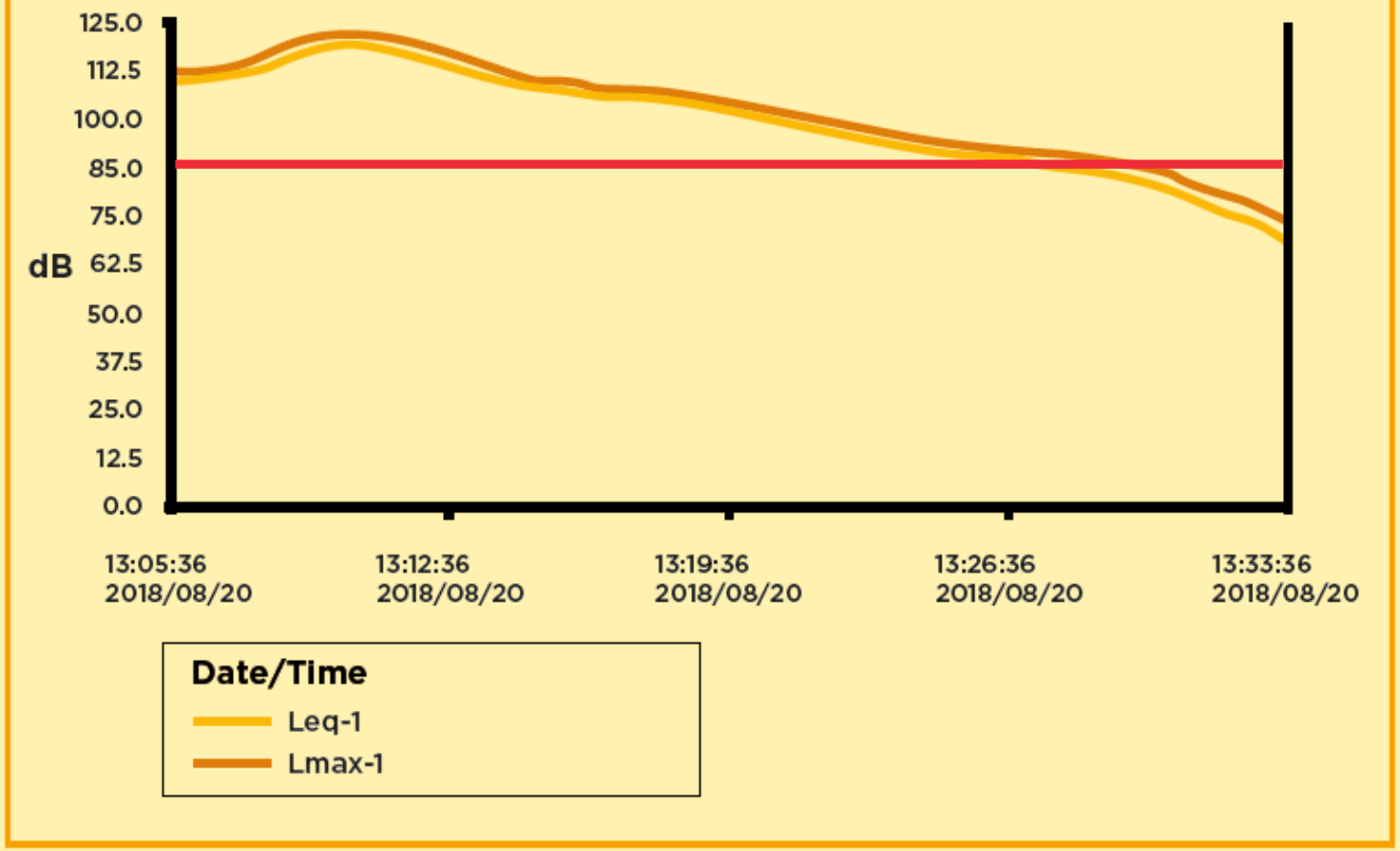
Benefits Documented at the Source Mine – Tyre Deflation Process

1. Noise emission and time study data
2. Noise emission comparison

NOISE EMISSION AND TIME STUDY DATA – TYRE DEFLATION PROCESS

Tyre information		Free-to-air deflation		Trolley system		Fixed system	
Tyre size	*Tyre pressure (kPa)*	*LAeq (dBA)*	*Duration (hh:mm:ss)*	*LAeq (dBA)*	*Duration (hh:mm:ss)*	*LAeq (dBA)*	*Duration (hh:mm:ss)*
LDV							
245/17/R16	240	**89.5**	00:00:35	**71.4**	00:00:27	**63.8**	00:00:25
215/75/R17.5	400	**82.3**	00:01:07	**70.9**	00:00:35	**61.7**	00:00:20
315/80/R22.5	600	**101.3**	00:03:05	**73.8**	00:02:38	**54.4**	00:02:04
Secondary Equipment							
45/65/R45	500	**90.8**	01:00:37	**67.4**	00:55:00	**54.9**	00:27:27
29.5/R25	500	**93.1**	00:20:07	**68.8**	00:15:15	**60.4**	00:07:03
23.5/R25	300	**89.7**	00:19:49	**76.7**	00:13:08	**68.3**	00:07:30
Primary Equipment							
27/R49	700	**96.0**	00:29:00	**59.9**	00:20:18	**58.3**	00:17:47
50/90/R57	700	**107.2**	00:30:21	**73.4**	00:22:46	**68.1**	00:19:19
59/80/R63	700	**102.0**	00:32:15	**74.0**	00:23:14	**70.1**	00:21:52

PART III: DOCUMENTED BENEFITS TO DATE (Before)



Graph 1: *Deflation of a 63" TMM tyre, inflated at a pressure of 600kPa directly to the atmosphere*

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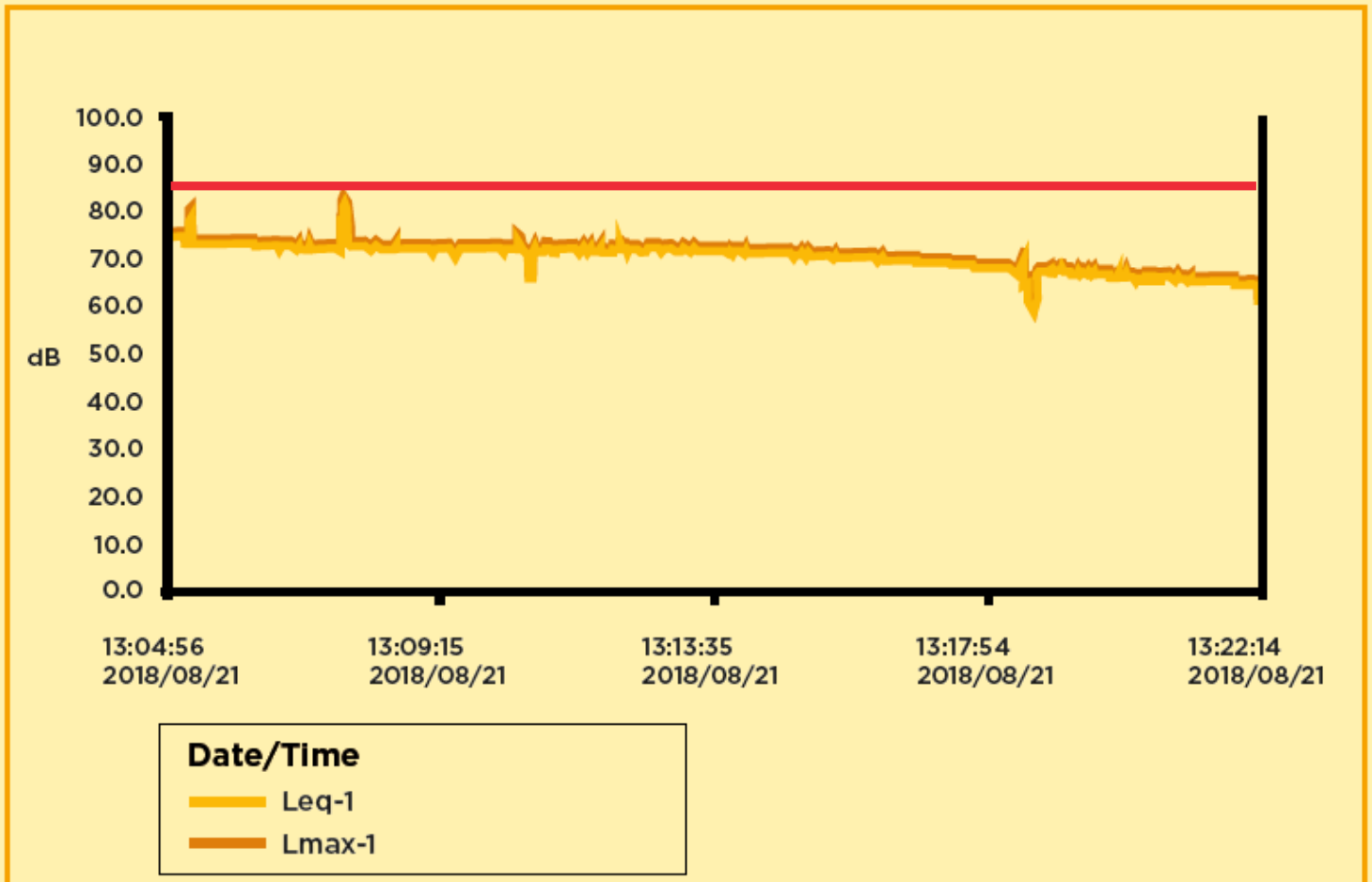
PART III: DOCUMENTED BENEFITS TO DATE (After)



Graph 2: *Deflation of a 63 inch TMM tyre, inflated at a pressure of 600kPa through the fixed piping system*

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PART IV: SUMMARY OF GENERIC VALUE CASE

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PART IV: SUMMARY OF GENERIC VALUE CASE

Value Case Documented at the Source Mine

1. Initial cost for the installation of the fixed pole deflation system
2. Initial cost for the trolley deflation system
3. Operational costs
4. Other impacts of significant business value
5. Moral obligation

PART V: SUMMARY OF GENERIC BEHAVIOURAL ASPECTS

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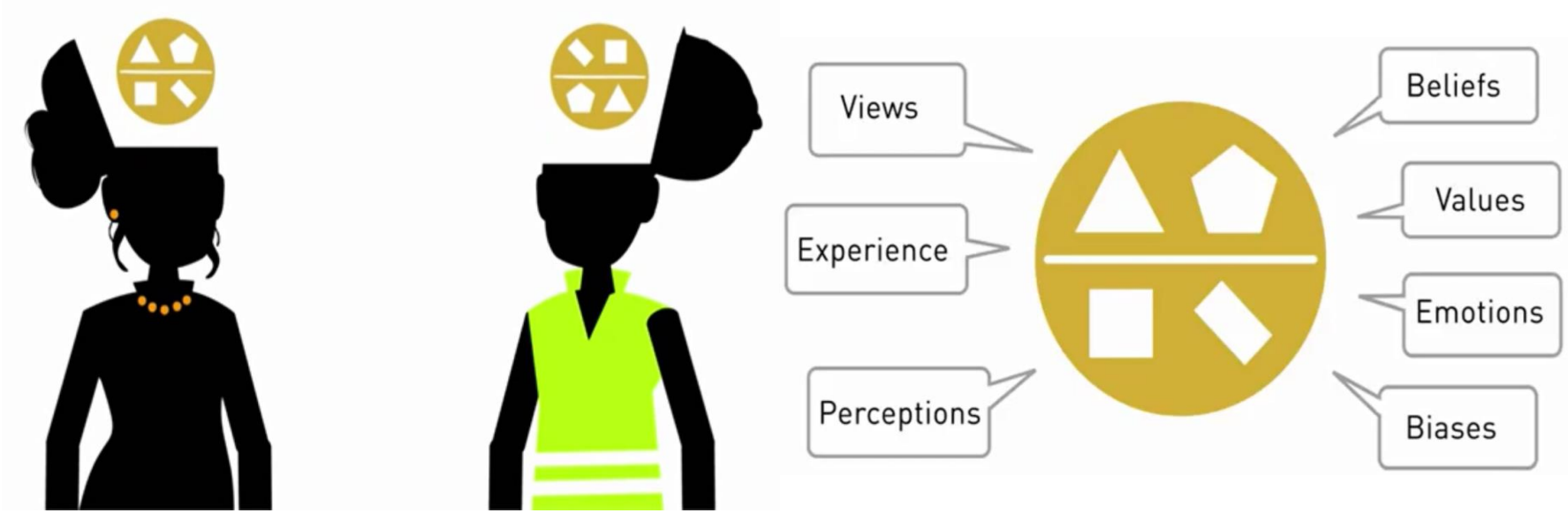
PART V: SUMMARY OF GENERIC BEHAVIOURAL ASPECTS

Behavioural Aspects Documented at the Source Mine

1. Behavioural communication requirements
2. Leadership behaviour requirements



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PART VI: STEPS FOR THE ADOPTION OF THE SLP

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PART VI: STEPS FOR THE ADOPTION OF THE SLP

Step 1
Ensure buy-in from the mine manager and all members of executive upfront

Step 2
Ensure buy-in from all disciplines involved, giving recognition to the multi-disciplinary approach as a successful ingredient

Step 3
Briefing of the Mine Health and Safety Committee

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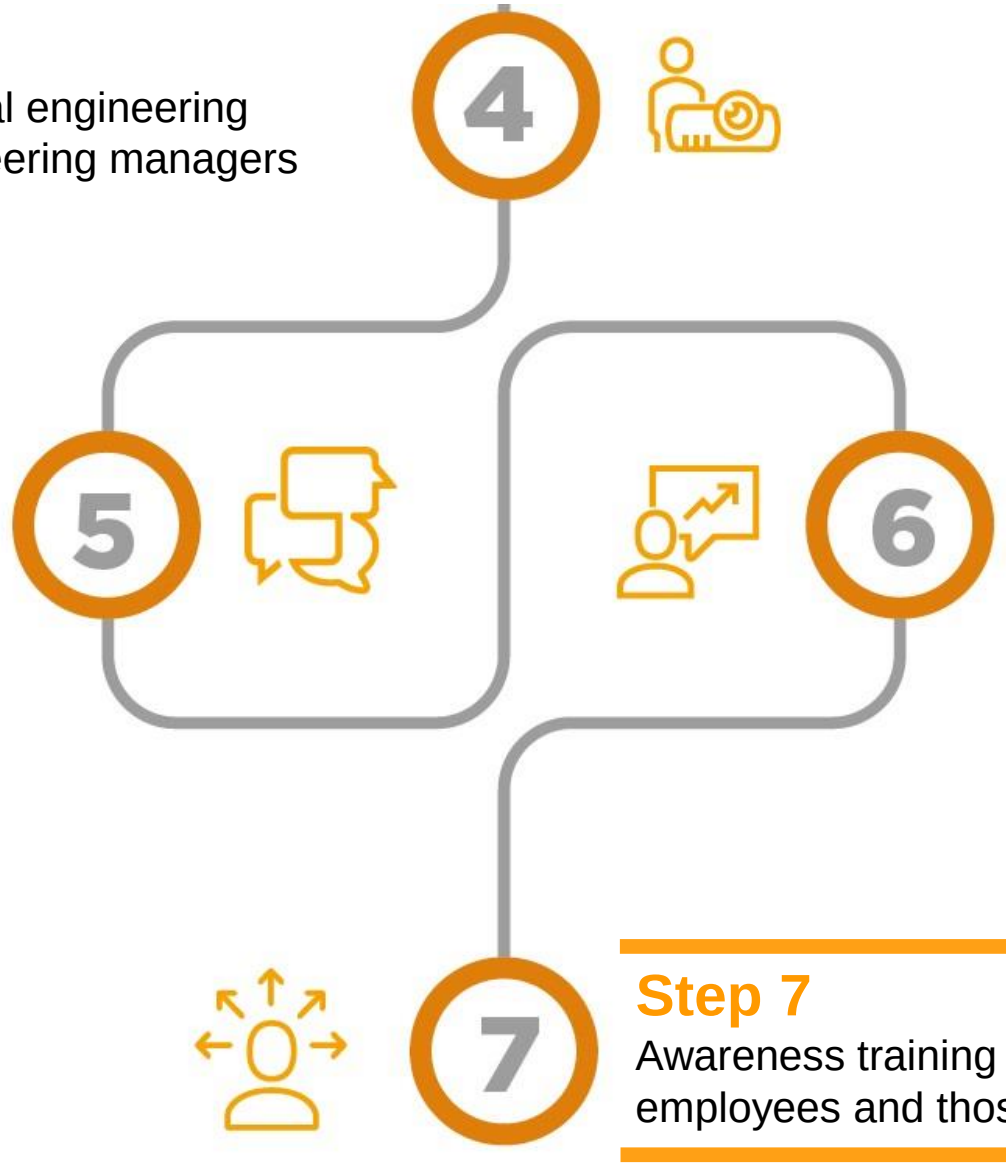
PART VI: STEPS FOR THE ADOPTION OF THE SLP (Continued)

Step 4

Briefing environmental engineering managers and engineering managers

Step 5

Communication to all union representatives



Step 6

Addressing the entire workforce through the existing communication systems on the mine – such as management briefs, posters, waiting place discussions

Step 7

Awareness training during induction of new employees and those returning from leave

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PART VII: GUIDANCE NOTES FOR THE ADOPTION OF THE SLP

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PART VII: GUIDANCE NOTES FOR THE ADOPTION OF THE SLP

Additional Guidance Notes Provided to Assist Adopting Mines

1. Employee Training
2. Workspace provision
3. System Installation
4. System Maintenance

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REGISTRATION:

08:30 - 09:00

WORKSHOP STARTS:

09:00

	Duration	Responsibility
Emergency preparedness	**5 min**	Venue Rep
Workshop opening and welcome	**10 min**	K. Motseme
MOSH Noise Sponsor Key note address	**25 min**	P. Steenkamp
MOSH Adoption system overview	**45 min**	W. Deysel
Tea Break	**30 min**	
Overview of theTyre Deflation SLP	**45 min**	Source Mine
Tyre Deflation SLP Video	**30 min**	Source Mine
Leading Practice Adoption Guide	**30 min**	W. Deysel
Registration for Adoption & Break	**30 min**	MOSH Noise Team
Way Forward	**20 min**	M. Mudau
Workshop close and lunch	**1 hr 00 min**	

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Tyre Deflation Noise Reduction Adoption Registration

28 June 2019

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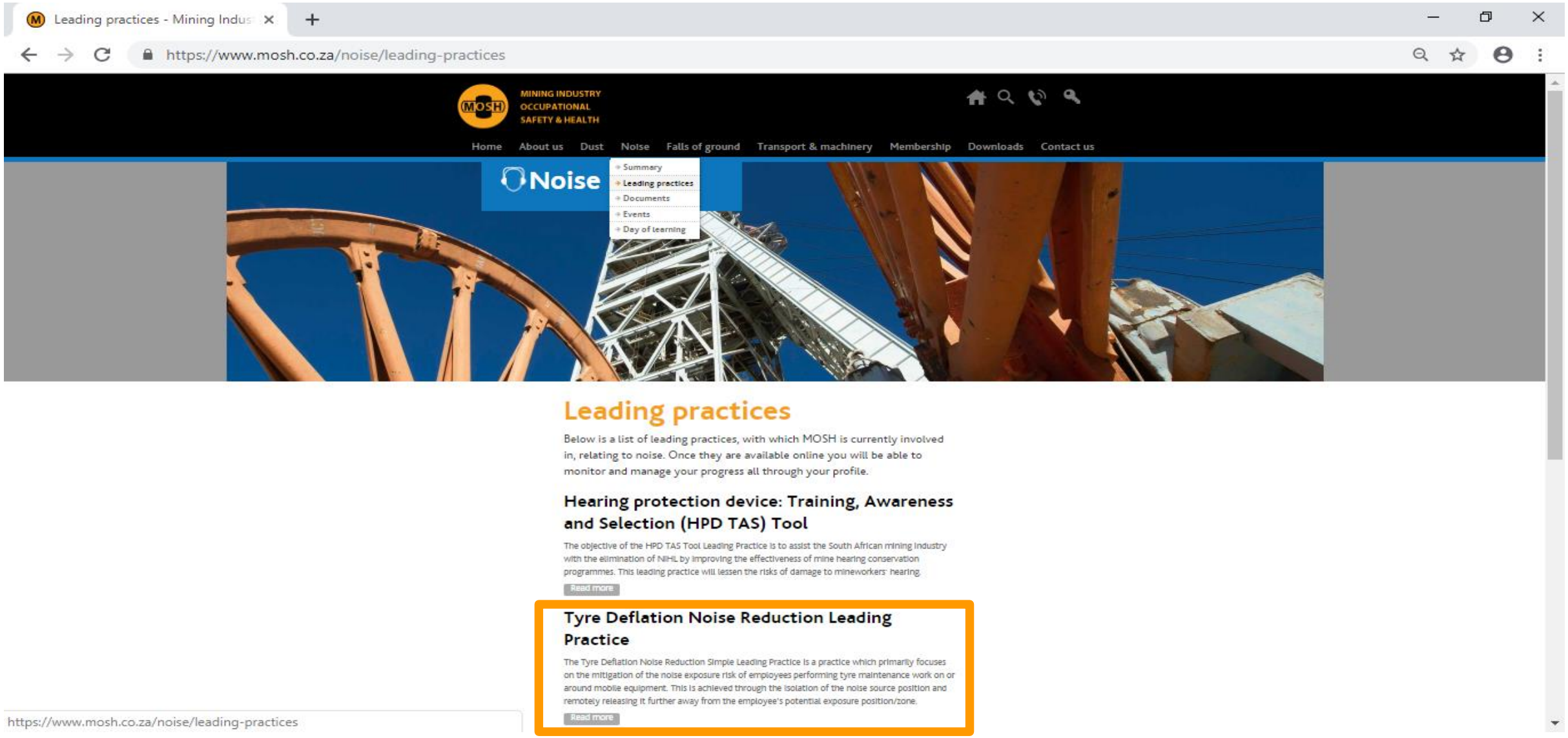
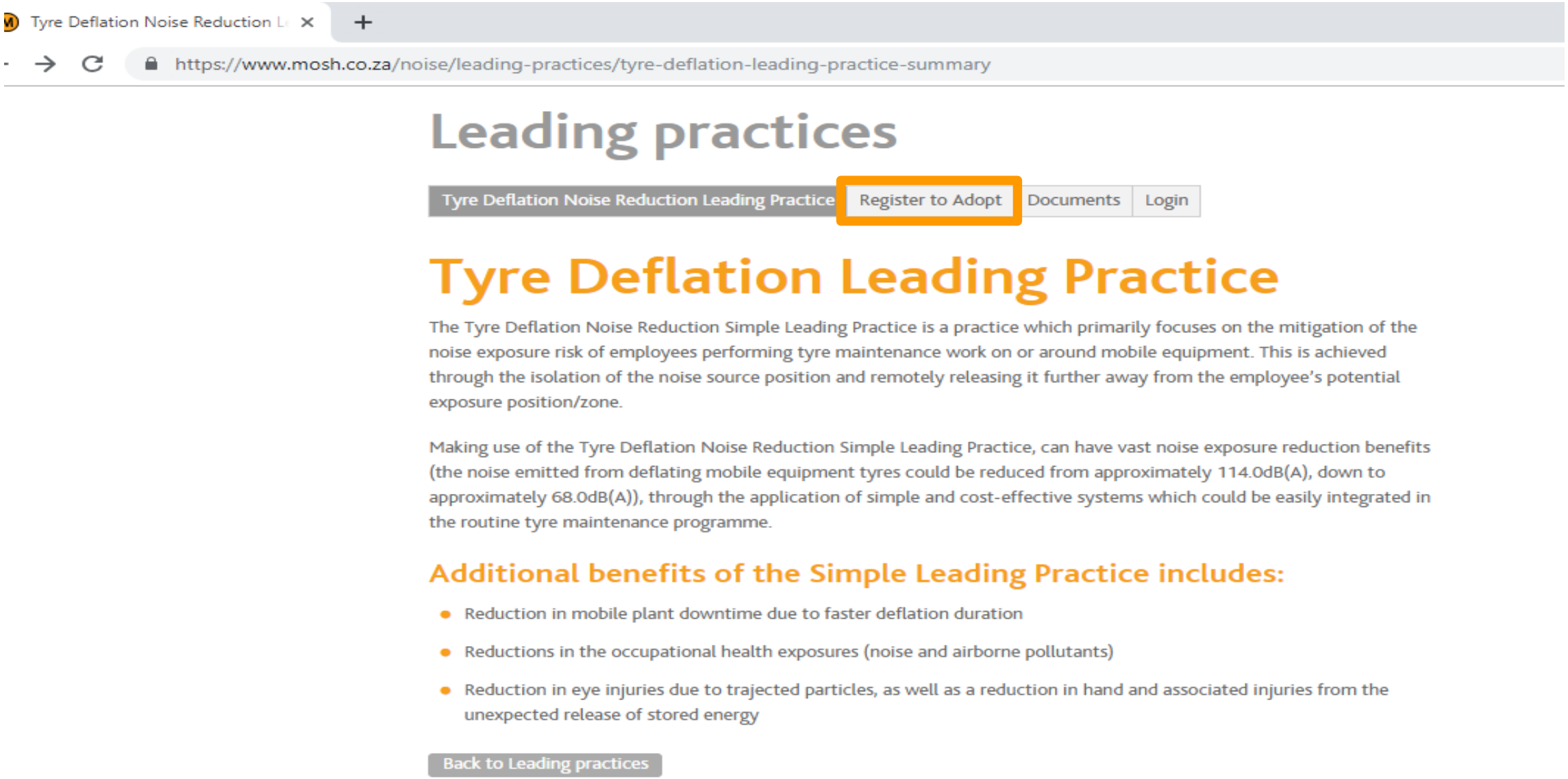
Tyre Deflation Noise Reduction Adoption Registration



Tyre Deflation Noise Reduction Adoption Registration



Tyre Deflation Noise Reduction Adoption Registration

Register

At most mines the initial decision to adopt the leading practice will be made by a relatively small group of people. This would usually include the General Manager, the Mine Manager, the Production Manager, the Occupational Health and Safety Manager and depending on the practice in question, the relevant Specialist at the mine. Significant influence over the decision could in some cases come from one or two persons at the mine's group head office, as well as from senior Union Representatives at the mine. Where this is the case they should be included within the decider grouping.

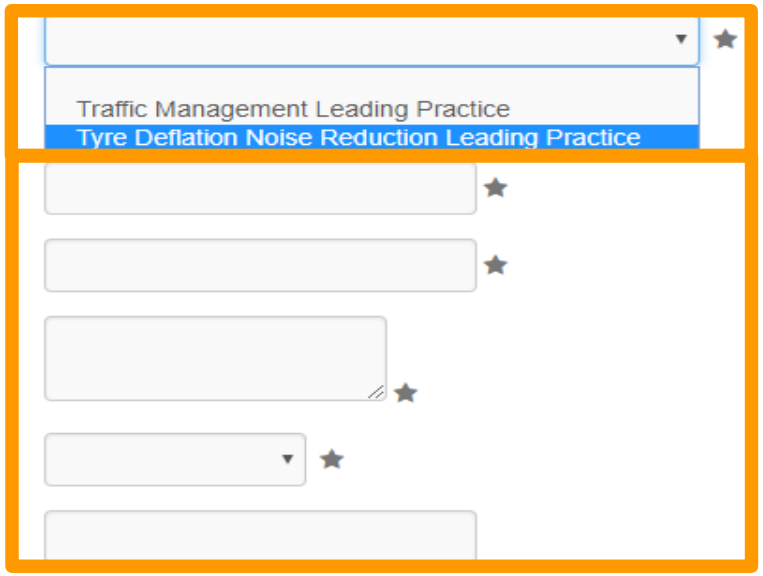
Principle Decision to Adopt:

The undersigned representative from the mine hereby indicates the mine's intention to adopt the MOSH Traffic Management Leading Practice and commits to follow the MOSH Adoption Process as outlined in the MOSH Traffic Management Adoption Guide . The mine specifically commits to attend the COPA meetings as well as the Behavioural Communication and Leadership Behaviour process as set out in the above document.

*** Compulsory fields**

1. Leading practice selection

Leading practice



1. Company Details

Name of Company

Name of Mine

Mine address

Province

Magisterial District

2. Mine Adoption Team Manager Detail

A person appointed by the mine to lead the process of adoption of the leading practice at the mine and to them faciliate its adoption across the entire mine

Name

Username

Password

Designation

Email

Telephone

Mobile

Sign up

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Break

28 June 2019

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REGISTRATION:

08:30 - 09:00

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Workshop close and lunch	**1 hr 00 min**	

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Questions, Answers & Way Forward

Mr. M. Mudau

28 June 2019

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Way Forward

1. **<u>Formulation of SLP Interest Group (Regional)</u>**
   - Why - to help overcome difficulties/challenges in adopting the leading practice, and for bringing about continuous performance improvements in the practice.
   - How - Peer to Peer Interaction and learning.
   - Who - key players for responsible practice adoption at respective mines e.g. Engineers.
   - Other mines that are interested but yet registered to adopt.
2. **<u>Meetings</u>**
   - When - First meeting date to be coordinated & facilitated by MOSH Noise Team (+/-60days from now).
   - Group to decide on the frequency of meetings and venues. MOSH to continue to facilitate the process until the Regional Adoption Team Leader is identified to continue with the coordination process.

Way Forward (Continued)

3. Adoption Tracking

- Number of mines adopting
- Progress on the adoption process to tracked & discussed.
- Improvements from baseline risk/exposure to be discussed.

4. Continuous Improvements of Practice

- Improvements on the SLPAG (Simple Leading Practice Adoption Guide)
- Improvements of the Simple Leading Practice can also be discussed.

5. Full Practice Adoption (State of Maturity)

- **What Happens** - Focus Interest Group disbandment.

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THANK YOU

www.mosh.co.za/noise/summary

MOSH Noise Team

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