

Mine Health and Safety Council



***Presentation to Parliamentary Portfolio Committee
on Mineral Resources***

MHSC Annual Report for 2013/2014

17th October 2014

- *Introduction of MHSC Team*
- *Overall Performance*
- *Performance on Pre-determined Objectives*
- *Issues raised by the Auditor General*
- *Conclusions and way forward*

The Mine Health and Safety Council

Vision

“To be the trusted advisor to the Minister of Mineral Resources and to stakeholders for the South African Mining Sector as knowledge leader in occupational health and safety issues towards the achievement of Zero Harm to mine workers, communities and the environment”



MHSC

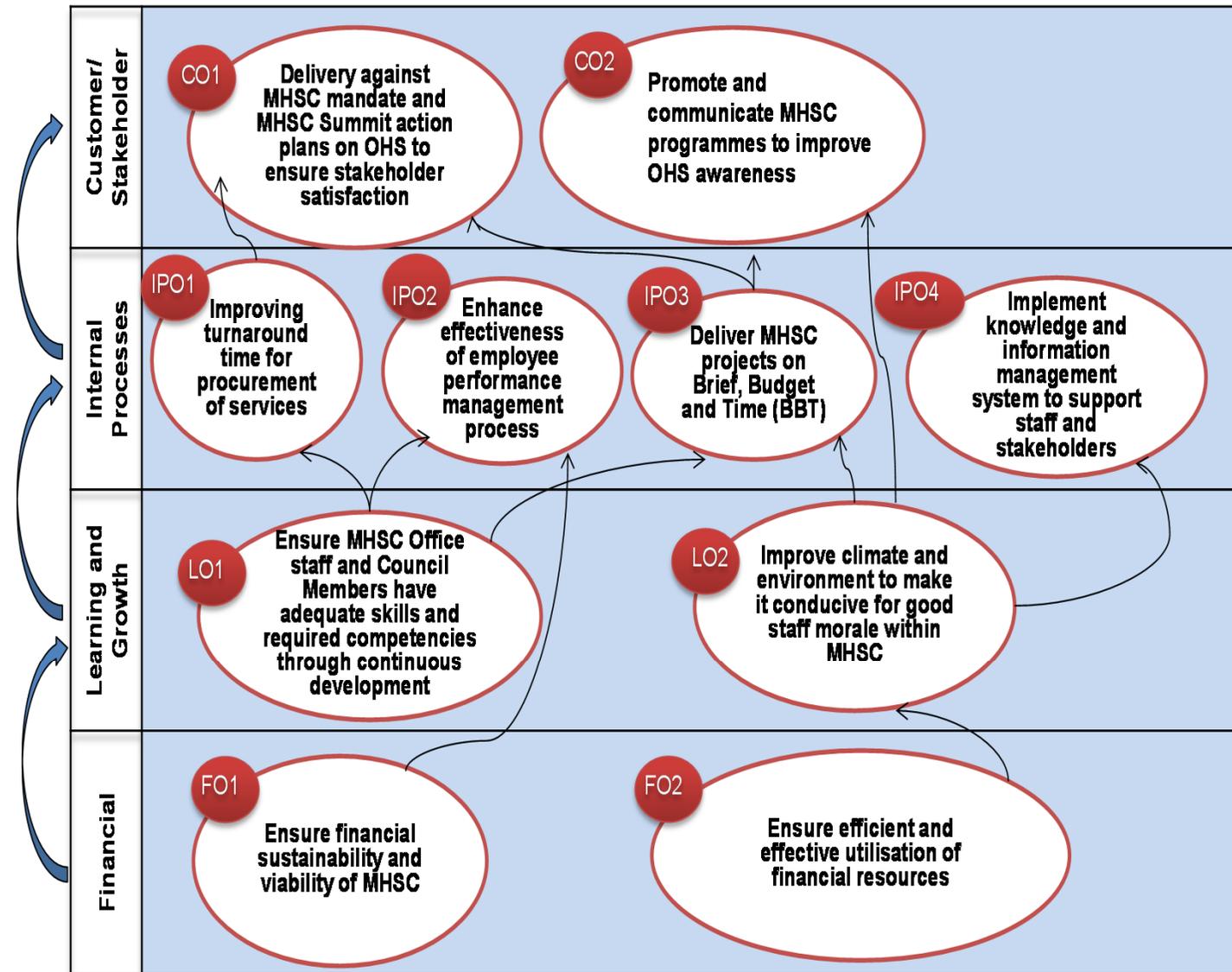
Mission

“To promote the culture of OHS in the mining industry by striving towards Zero Harm on all health and safety issues and legislation”
”

Monitoring MHSC's Strategic Plan

MHSC Strategic plan:

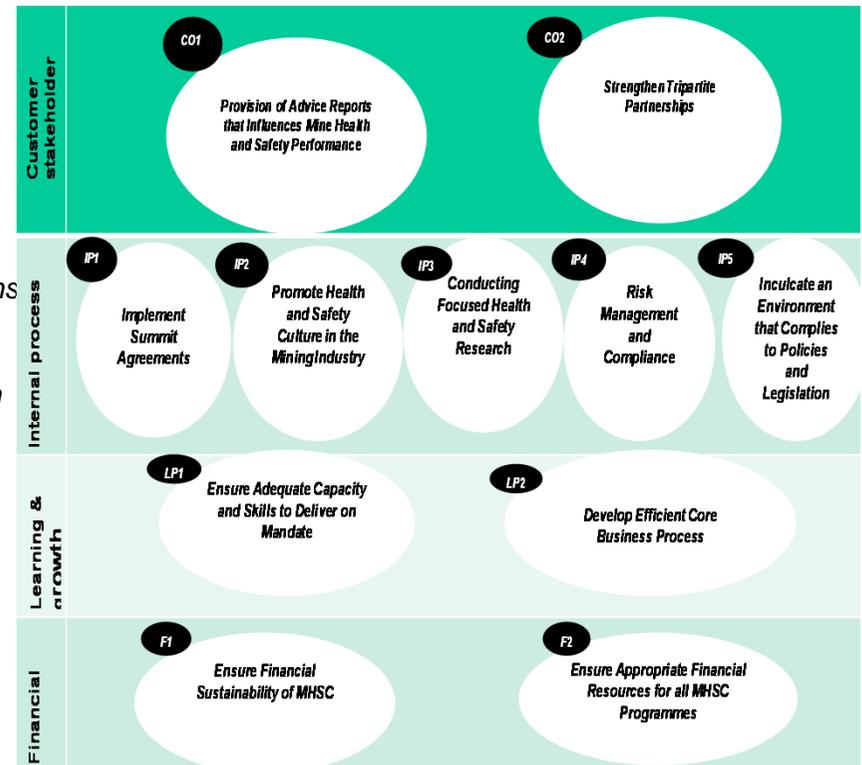
- 5 year rolling Plan
- Based on Tripartite Stakeholder Needs, Inputs;
- Mining industry Opportunities and Challenges;
- Industry Initiatives and Action Plans in Relation to OHS



Performance on Customer and Stakeholder Perspective

COMMENTARY Customer Perspective: “tripartite stakeholder satisfaction with the MHSC”

- Under this objective –
 - Both achieved with significant delivery
- Advisory Notes
 - **Research Outcomes**
 - Diesel Particular matter;
 - OHS needs of Small Scale Mines;
 - IPT Policy;
 - Mining License Renewals to include Strategic and Operational Plans on HIV/AIDS and TB;
 - Personal Protective Equipment for Women in Mining.
 - Characterising the risk of human exposure and health impacts from Acid Mine Drainage in the South African Mining Industry .
 - **Regulations & Guidelines**
 - Refuge Bay Regulations;
 - Electrical Regulations; and
 - Trackless Mobile Equipment Regulations.
 - Rail Bound Legislation;
 - Guidelines on COP for Mineworkers Incapacity due to Ill Health;
 - Guidance Note for the Management of TB in the South African Mining Industry;
 - Guidance on COP for Fitness to Perform Work on a Mine;
 - Guidelines on Mandatory COP for Risk Based Emergency Care on a Mine;
 - Guidelines on Mandatory Code of Practice on Roles and Responsibilities for Occupational Health Practitioners;
 - Guideline for Compilation of Mandatory Code of Practice for Risk Based Fatigue Management at Mines
- 12 Promotional Events undertaken for the year



2013-14 Research Completed

1. **Integration of SANS network and Database**
2. **Physiological and physical work relationship-**
3. **Year 3 Investigation into surface activity of airborne pollutants**
4. **Phase 1 B Digital X-Ray & analog X-Ray readings**
5. **Risk of Human Exposure to Acid Mine Drainage**
6. **Early Warning System for Risk Reduction in Fluid Induced Seismicity Year 2**
7. **Risk Based approach to enhancing Support Design in Bush Underground Mines (technology Transfer)**
8. **Year 2 Adverse Health Impacts with Dust Emissions from Gold Mine Tailings**
9. **Occupational Health and Safety Needs for Small Scale Mining Operations**
10. **National Enforcement Policy**
11. **Milestone reporting template**

MHSC Initiatives- Outcomes of Research

1. Use of Analogue vs. Digital X-Rays: for medical surveillance (completed)

- Phase 1 of project completed in terms of data collection. Next phase is to undertake the study of the analogue x-rays and comparisons with digital x-rays



2. PPE for Women in Mining (completed)

- Introduction of Women in the male-dominated mining sector have special health and safety needs resulting from their unique anatomical and physiological makeup.
- Need to redesign PPE for WIM to accommodate their anatomical and physiological body structures.
- Two workshops held – advisory note developed for the Minister



3. Safety and Security for Women in Mining (current)

- New project to focus on ensuring safety of female employees .
- Development of a DVD on awareness of sexual harassment



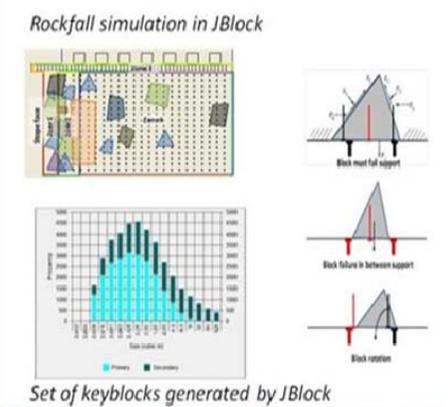
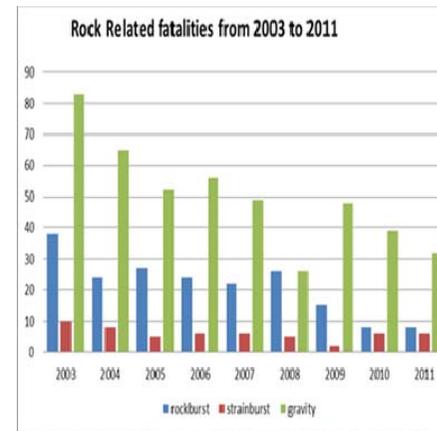
MHSC Initiatives- Outcomes of Research

Significant reduction in rockfall injuries and fatalities.

1. Elimination of Rockfalls (completed)
 Measuring and Monitoring to reduce the rockfall risk - focuses on the use of thermal imaging and acoustic emissions

2. Knowledge Transfer on Hazard of Rockfalls
 Training of mining specialist on hazard identification and design

4. Integrations of National and Mine Seismic Networks.
Pilot study completed in KOSH area.
 Validation and calibration of system currently on going



Area in which the fall of ground occurred.

Photograph showing the panel collapse

08/08/2009

08/08/2009

Closure profile before collapse

Closure profile after collapse

Map of KOSH area

Monitoring equipment

Control room

MHSC Initiatives- Promotions of Outcomes

1. MHSC Promotional Activities Exhibitions, Participation in Various Events



2. "Iyashisa Game" Training Mine Workers During Induction on Management of Heat Stress



MHSC Initiatives- Research Projects for 15/16

The MHSC has approved the new programme of work for the new financial year:

AREA	Research Project
Rockfalls	1. What is the maximum safe span to operate in Platinum and Chrome Bord and Pillar Mines?
	2. What effective technologies exist for permanent areal support for varying environments in underground mines?
Machinery and transport systems	3. What are the risks on safety and production that are caused by PDS technology interfering with other radio-frequency systems and how can these be effectively managed?
Occupational Diseases	4. Review of the SIMRAC Handbook for Occupational Health in the SAMI
	5. Adverse health impacts associated with dust emissions from mine tailings
	6. Investigation into surface activity of Airborne Pollutants in the gold, platinum and coal mining environment
Physical hazards	7. Develop feasible methodologies to Aid Escape in Poor Visibility in underground environments
Special Projects	8. Development of a South African Minimum Standard on Ground Vibration, Noise, Air blast and Fly rock Near Surface Structures to be Protected.
Knowledge Transfer	9. Technology transfer on Minimising Seismic Risk in the Platinum Mines
	10. Training on the Technology transfer on Support design in the Bushveld Complex

Investigation into Surface Activity of Airborne Pollutants



Mobile Laboratory



Dump Site

Performance on Internal Process Perspective

COMMENTARY Internal process: “inward focus to ensure organisational performance”

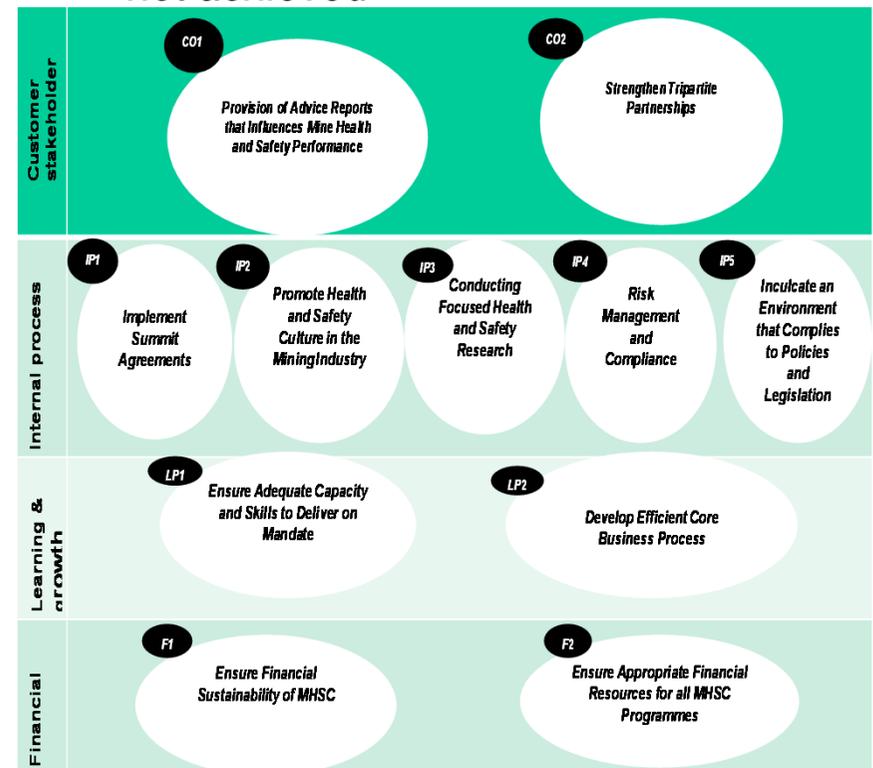
- Under this objective –
 - Focus was on:
 - Research on OHS –
 - Risk management –
 - Promoting OHS –
 - Compliance to Policy –
 - Summit Initiatives –

- Area not achieved was due to the under achievement Action Plans Initiatives

- Lessons Learned

- Action plan in place to ensure improvement with the planning for the 2014 Summit. Action Plans as an Outcome of Summit Commitments

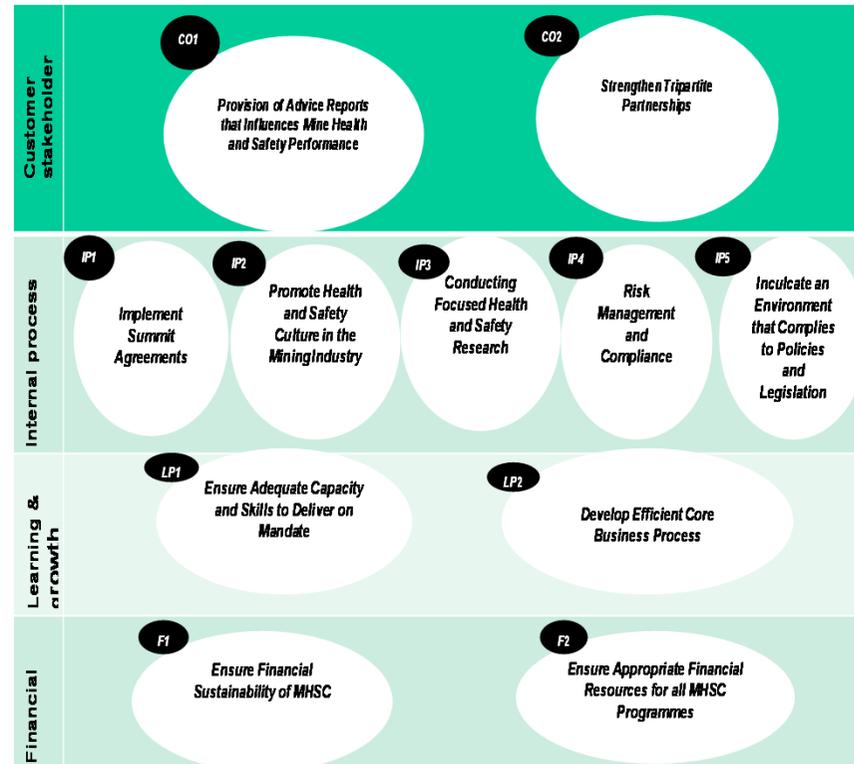
achieved
 achieved
 achieved
 not achieved



Performance on Learning & Growth Perspective

COMMENTARY Learning & Growth: “capacity & skills towards continuous improvement ”

- Under this objective both initiatives were met.
 - Strong focus on cascading of BSC to staff and to the advisory committees
 - Training of committee members on SCM, project management
- Various internal policies reviewed and refined within different business units.



Performance on Financial Process Perspective

COMMENTARY Internal process: “financial sustainability of the organisation ”

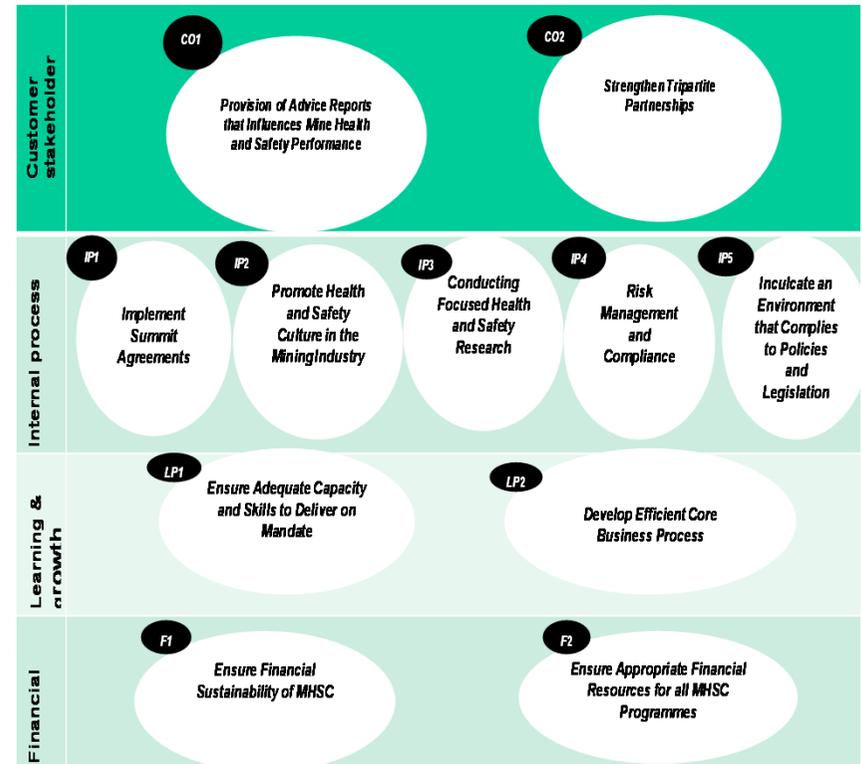
- Under this objective one initiative was met however the initiative on Expenditure.

- All funds were collected from the mines as - *achieved*

- Spending against budget - *partially achieved*

- Under expenditure was under target: 72% of the target

- **Challenges in expenditure due to:**
- **Risk management software was not used;**
- **The under expenditure resulted from telephone costs savings;**
- **Late start on OHS projects;**
- **Travelling and consulting fees were reduced due to directive on the cost containment measures.**
- **Failure to Secure Suitable Service Providers for Project Management Software**



Findings of the Auditor General

- ***The Auditor General in the assessment of the MHSC for 2013/2014 made the following statements:***
 - ***In my opinion, the financial statements present fairly, in all material respects, the financial position of the Mine Health and Safety Council as at 31 March 2014 in accordance with the SA Standards of GRAP and the requirements of the PFMA.***
 - ***“I assessed the reliability of the reported performance information to determine whether it was valid, accurate and complete. I did not raise any material findings on the usefulness and reliability of the reported performance information for the selected objectives”***

Report of the Auditor General

Year	2014
Audit Opinion	Unqualified
Emphasis of matter	Yes bad debts written Off
Expenditure Management	Irregular
	R37 000
	Fruitless and wasteful
	R353 000

Causes of Fruitless, Wasteful & Irregular

Description	Action to prevent recurrence	2014
		R' 000
This expenditure relates to publication of research questions in the government gazette which were later found not to be fully compliant with the procurement prescripts. That publication had to be cancelled.	The employees involved were cautioned on the non compliance to the SCM policy. Improvements on quality controls prior to publication of adverts.	3
When MHSC was deregistered for VAT around 2002, MHSC closed and paid off the account but inadvertently did not pay and close the second account. SARS brought this to the attention of the MHSC around February 2014 including interest and penalties.	The MHSC has paid the amount outstanding and disclosed this in the annual report. The MHSC will annual confirm, with SARS on their tax matters. MHSC exposure is only PAYE which is currently under control.	272
MHSC employee erroneously extended an offer of employment to unsuccessful candidate.	The MHSC investigation and related disciplinary process conducted. MHSC recovered the money from the responsible person who has since terminated employment with MHSC.	78
Total		353

2014 MHSC Summit: Zero Harm Vision

- **Planned for 18th & 19th of November 2014: Birchwood Conference Centre**
- **Theme: “Every Mine Worker Returning Home Unharmed Every Day, Striving for Zero Harm”**
- **Achievements of 2003 Health and Safety Milestones**
- **Launch Centre of Excellence**
- **Set 2014 New Targets and Milestones**
 - **SAFETY**
 - **HEALTH (Occupational as well as HIV/AIDS)**
 - **CULTURE TRANSFORMATION FRAMEWORK**
 - **Sign Off Ceremony**
 - **Pledge by All Attendees**

Reporting & Performance Monitoring and Evaluation

- To effectively manage reporting within the entity on progress made against the annual targets the MHSC undertakes the following:
 - Monthly internal reporting
 - Internal Governance & Risk and Monitoring and Evaluation undertake internal assessments to track progress and verification. Further verification via the Internal Auditors
 - Quarterly reporting to Audit and Risk Committee
 - Quarterly submissions to the MHSC Board before submission to the Ministry of Mineral Resources

Attaining *ZERO HARM*

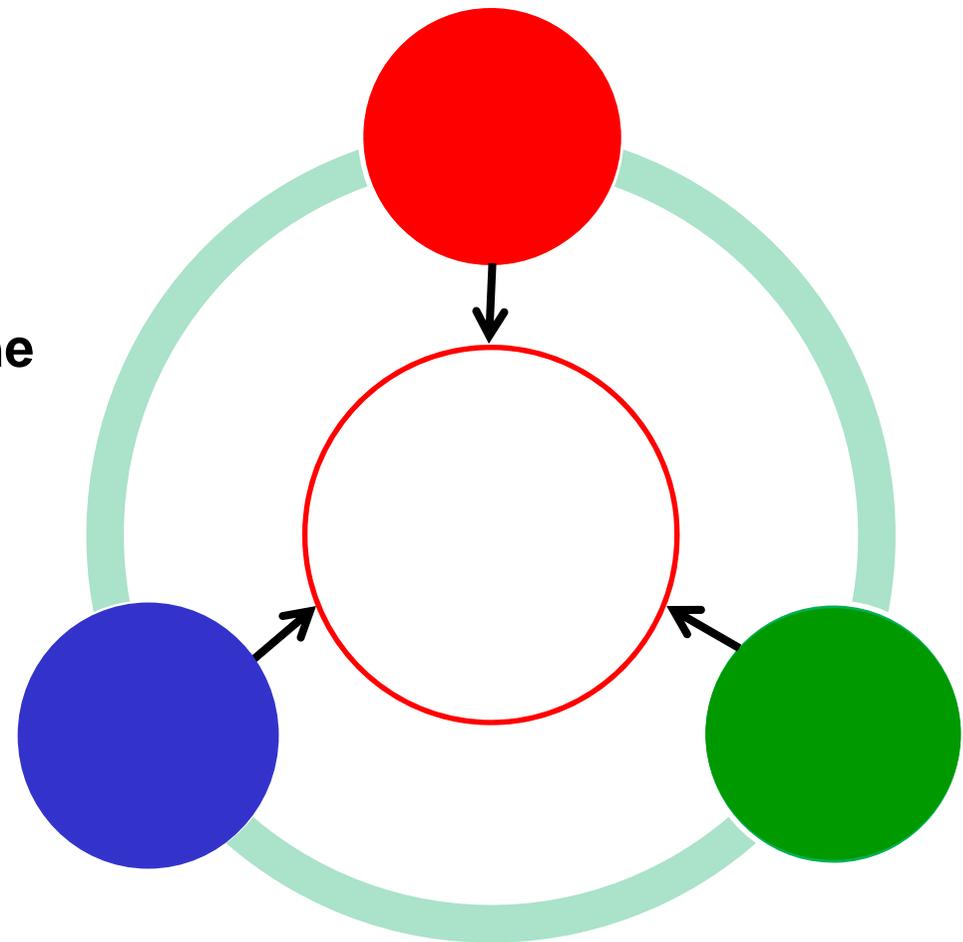


Each set is critically important to the reach the target...

The right mind set....

Doing the right things....

With the right support....



ZERO HARM – THE ULTIMATE



Thank you