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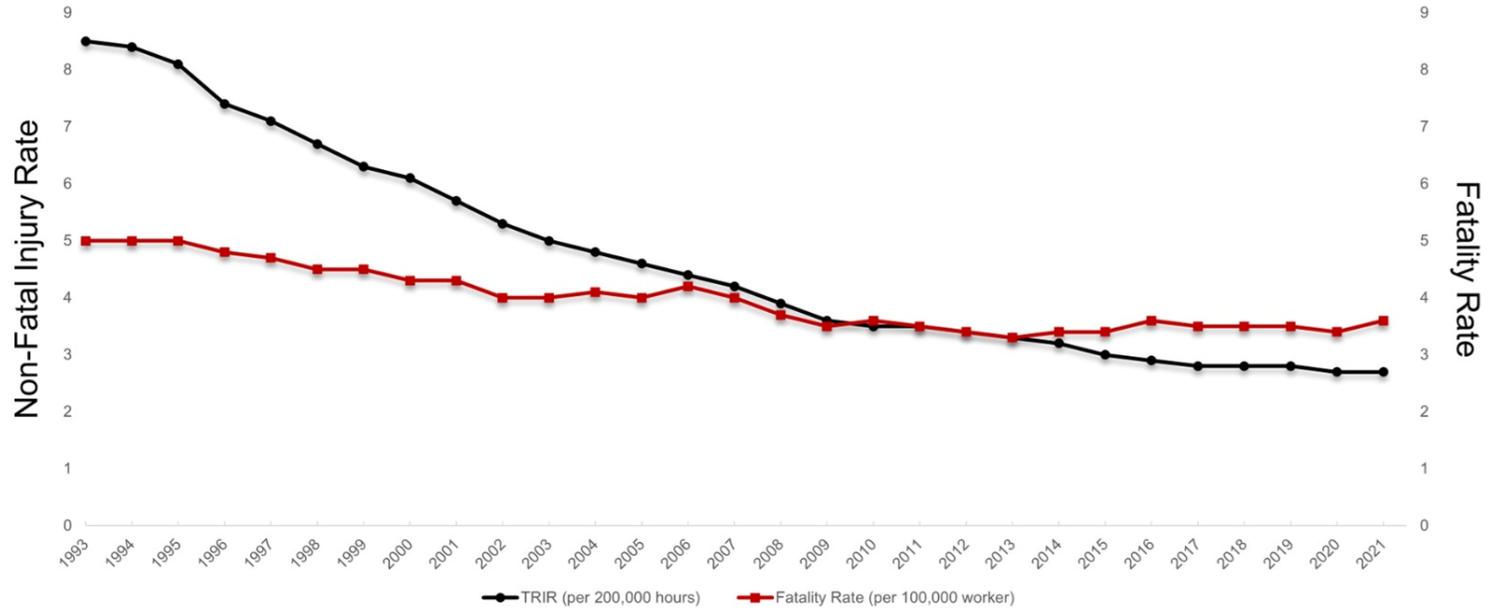
YEARS

**Preventing
Serious Injuries
and Fatalities
(SIFs) – We just
aren't getting any
better**

March 2025

The Trend

The SIF Prevention Problem



Source: USA Bureau of Labor Statistics, Fatal Injuries in 2021

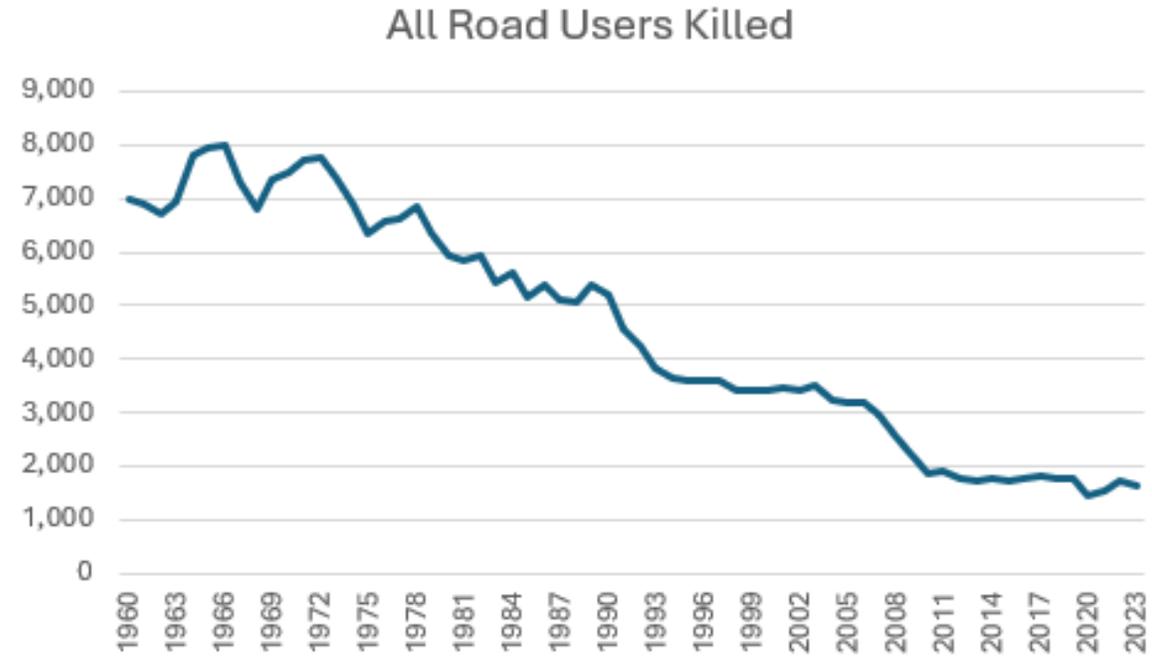


The Trend

The SIF Prevention Challenge: Leveraging Local Data for Better Insights



Source: HSE Executive, Fatal Injuries 2024 report

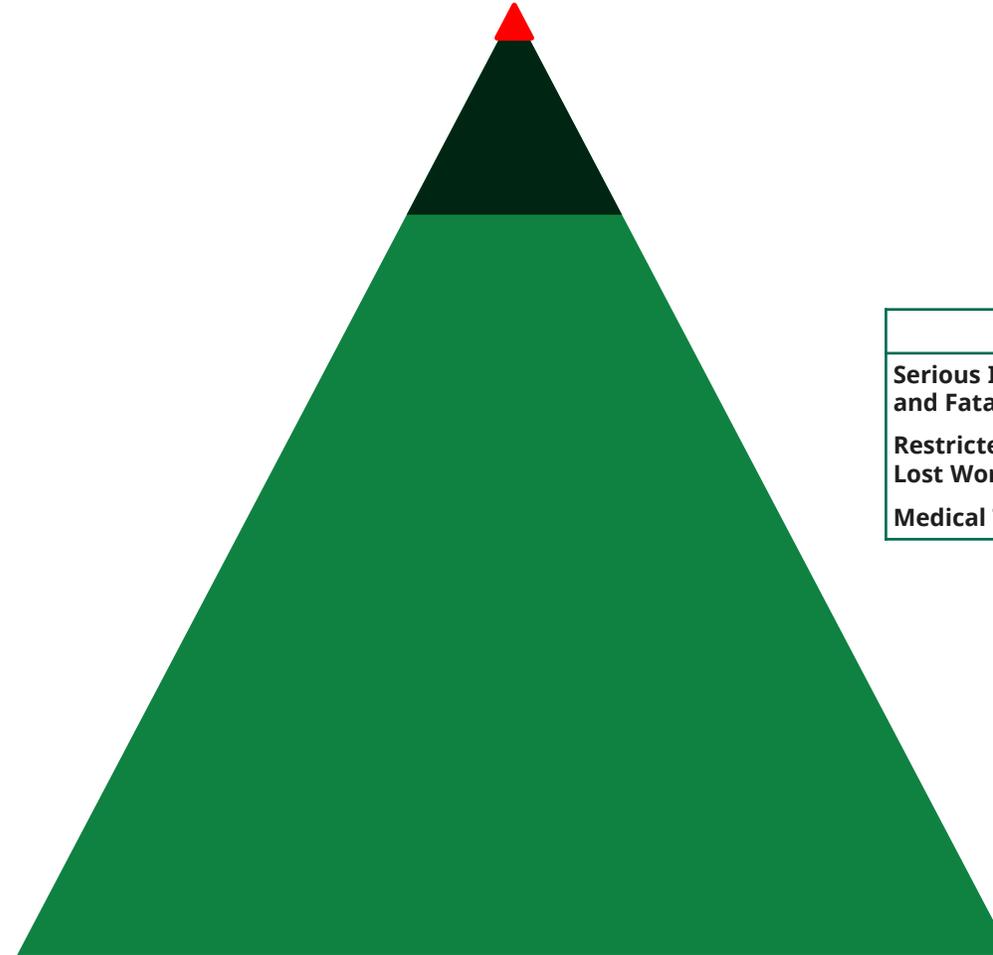


Source: Reported Road Casualties Great Britain, Annual Report: 2023

Traditional (Heinrich's) Safety Triangle

Is It Descriptive?

- Data from 2008-2009
- 1,028 total cases studied
- 7 Global Clients



Average Rate	
Serious Injuries and Fatalities	0.0014
Restricted and Lost Workday Cases	0.30
Medical Treatment	0.98

SIF Defined

Defining the Most Severe Workplace Incidents

Life-Threatening:

- An injury or illness at work that demanded immediate life-saving action, where failure to act promptly would have likely resulted in the person's death.

Life-Altering:

- A work-related injury causing permanent loss of a major body part or organ, permanently disabling the person's normal activities.

Fatal:

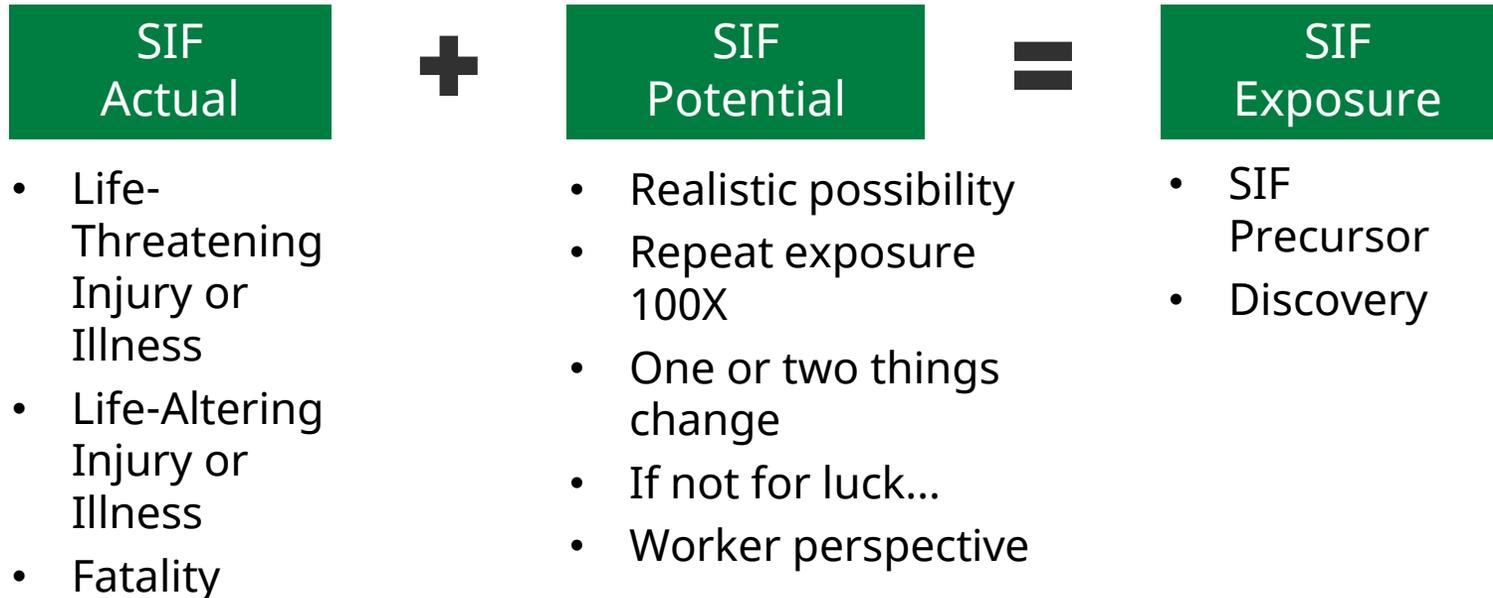
- Work-related fatal injury or illness.



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SIF Exposure

DEKRA's Key SIF Metric: Calculating Serious Injury & Fatality Exposure



Very few "Actuals" + many "Potentials" = SIF Exposure

SIF Precursor

When Ineffective Controls Trigger Catastrophic Incidents



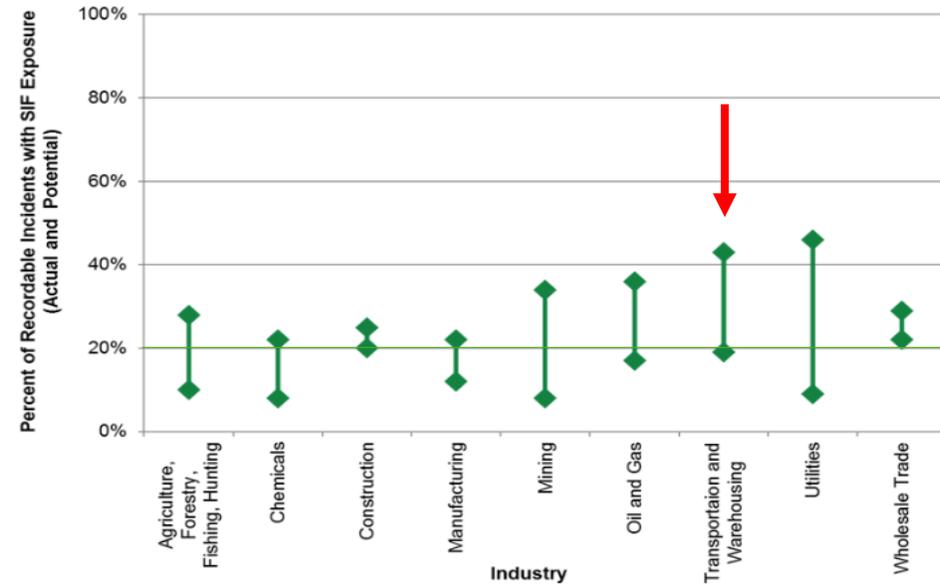
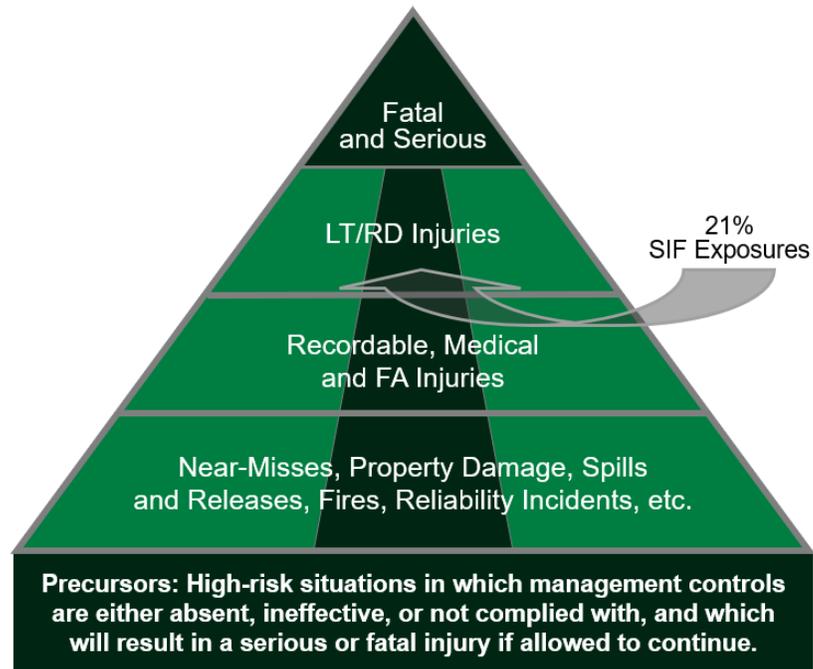
SIF Precursor = a high-risk situation in which management controls are either absent, ineffective, or not complied with and which will result in a serious or fatal injury if allowed to continue.



A More Effective Paradigm

Is the Traditional (Heinrich's) Safety Triangle Predictive?

- SIF causes differ from Non-SIFs; working within the SIF triangle is crucial.
- Leadership engagement is essential to affect the top of the triangle.
- A SIF exposure metric is critical.
- Accident reporting and investigation processes are key to understanding and reducing SIF exposure.



Headline 1

Recordable Injuries Log is Misleading When it Comes to SIF Exposure



Recordable Injury - LTI

Worker bends over to pick up a 20-litre bottle of water and strains back muscle.



Near-Miss

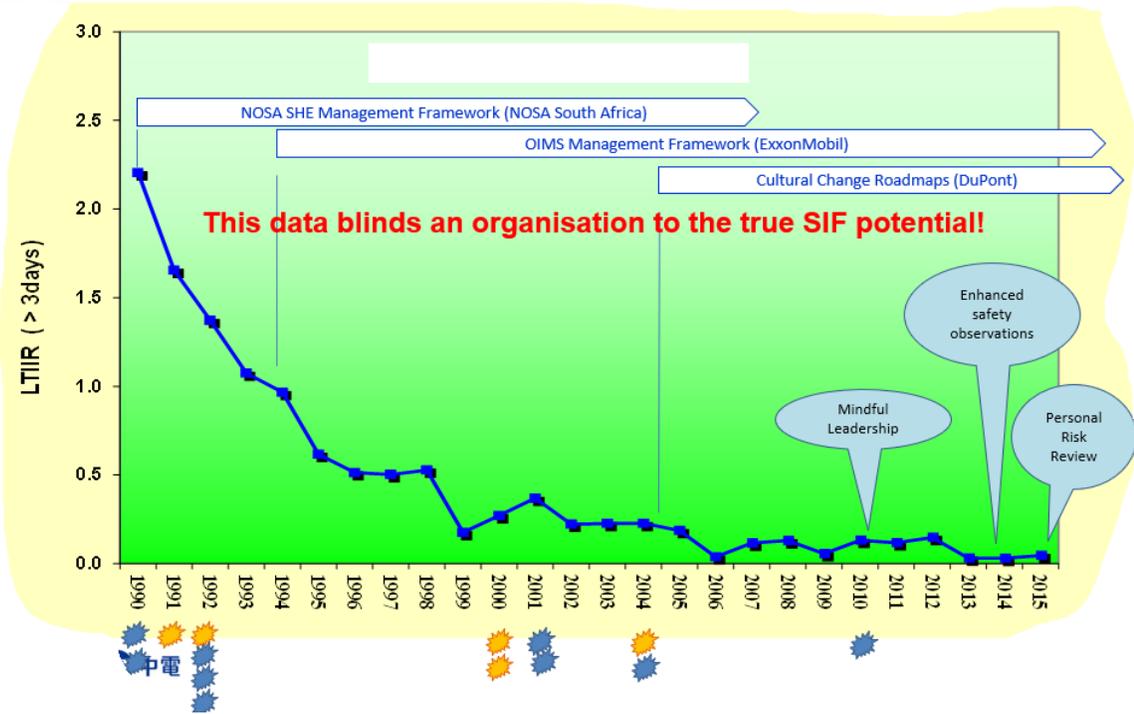
A worker on top of a 3.5m-high truck covering the load is jolted by a forklift collision. He falls but grabs the cargo netting, pulling himself back to the top of the truck.



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Headline 2

The SIF Blind Spot is Significant



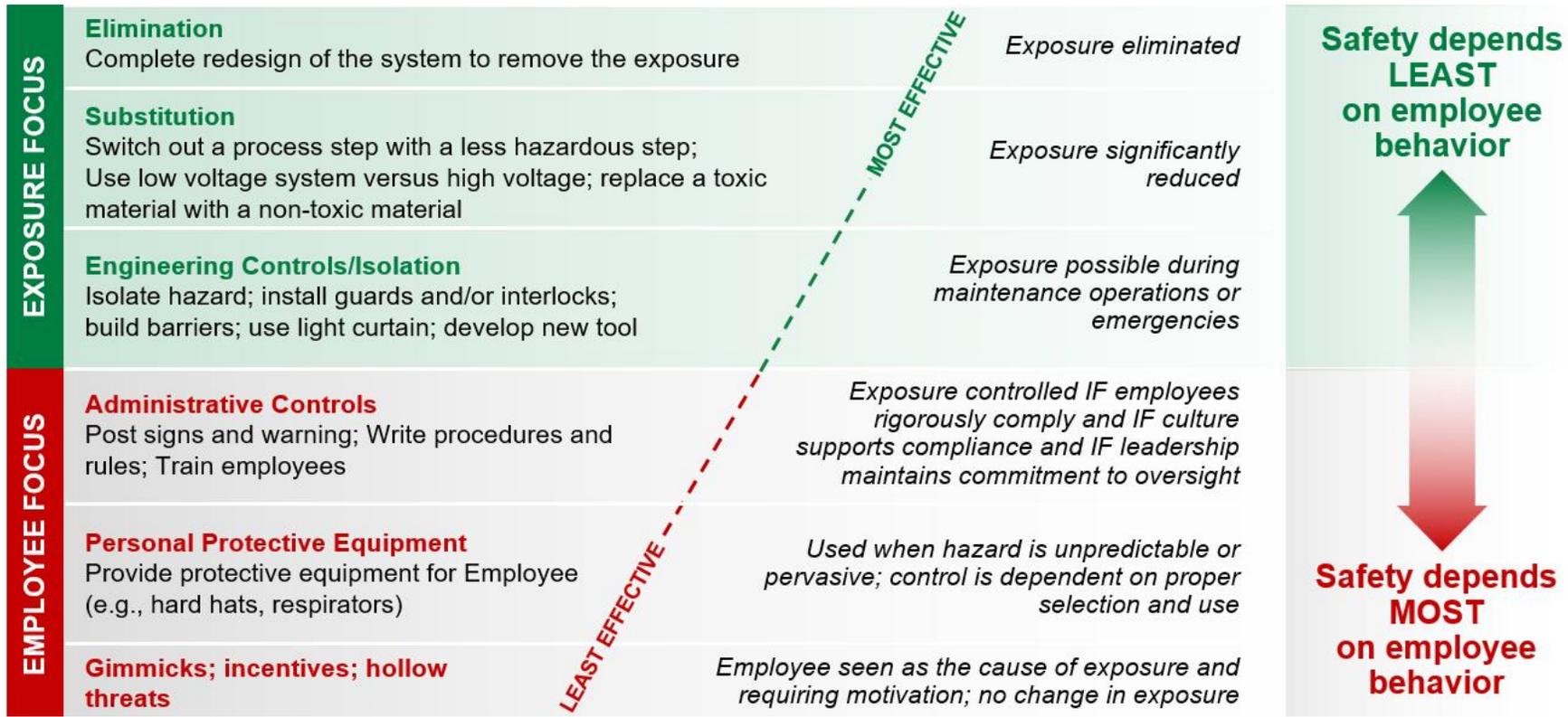
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Headline 3

Accident Reporting & Investigations Are Not As Good As You Think They Are



Longitudinal analysis will prove it and will point out leadership and culture implications.



Headline 4

The Role for Behavioural Intervention is Significant, and Underutilised

- Study Results: 87% of SIF precursors are detectable through interviews or observations.
- Critical Behaviour Inventory® needs further depth.
- Observers should partner with supervisors, safety professionals and consider lessons learned.
- Focus on SIF education, exposure selection, enhanced observation/interview skills and effective data collection/response.



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There Are Four Things Organisations Must Do



1. Educate senior leaders on SIF

- They need to understand this problem before they can act on it.
- The solutions to the SIF problem require their regular attention.
- Enlist their sponsorship.

2. Provide visibility to SIF exposure

- Define “SI”F: Life-Threatening vs. Life-Altering.
- Determine SIF Exposure Potential: Judgment-based versus Decision-tree.
- Calculate SIF Exposure Rate: SIF Recordable and SIF Total.

3. Know Your SIF Precursors

- Three places where they hide:
 - High Risk/High Exposure Tasks (81% Routine)
 - Management Systems Missing, Deficient, or Not Complied With
 - Allowed to Continue

4. Integrate SIF into Existing SMS

- Incident Management System, SIF Metrics, FVCC, SIF Education & Training, Pre-Task Risk Assessments, Pausing Work, “Business Partner” Management, Life-Saving Processes, etc.



Q & A

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**DEKRA Focus Article:
Serious Injury & Fatality:
Where Occupational
Safety, Organisational
Safety and Process
Safety Collide**

