

Learning from Incidents - Linking incident analysis with BowTie based risk assessments



CGE

Risk Management Solutions

Making risk understandable

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Started in
2004

We make
barrier based
risk management
software.

Market
leader
In 11 industries

80-90
Events
each year



CGE

Risk Management Solutions

Making risk understandable

1500+ clients
in 83 countries

20-30%
annual growth in the last 6
years

200+
partners
around the world



Oil & Gas

600 organizations | 3500 users



Aviation

500 organizations | 2500 users



Energy

350 organizations | 1600 users



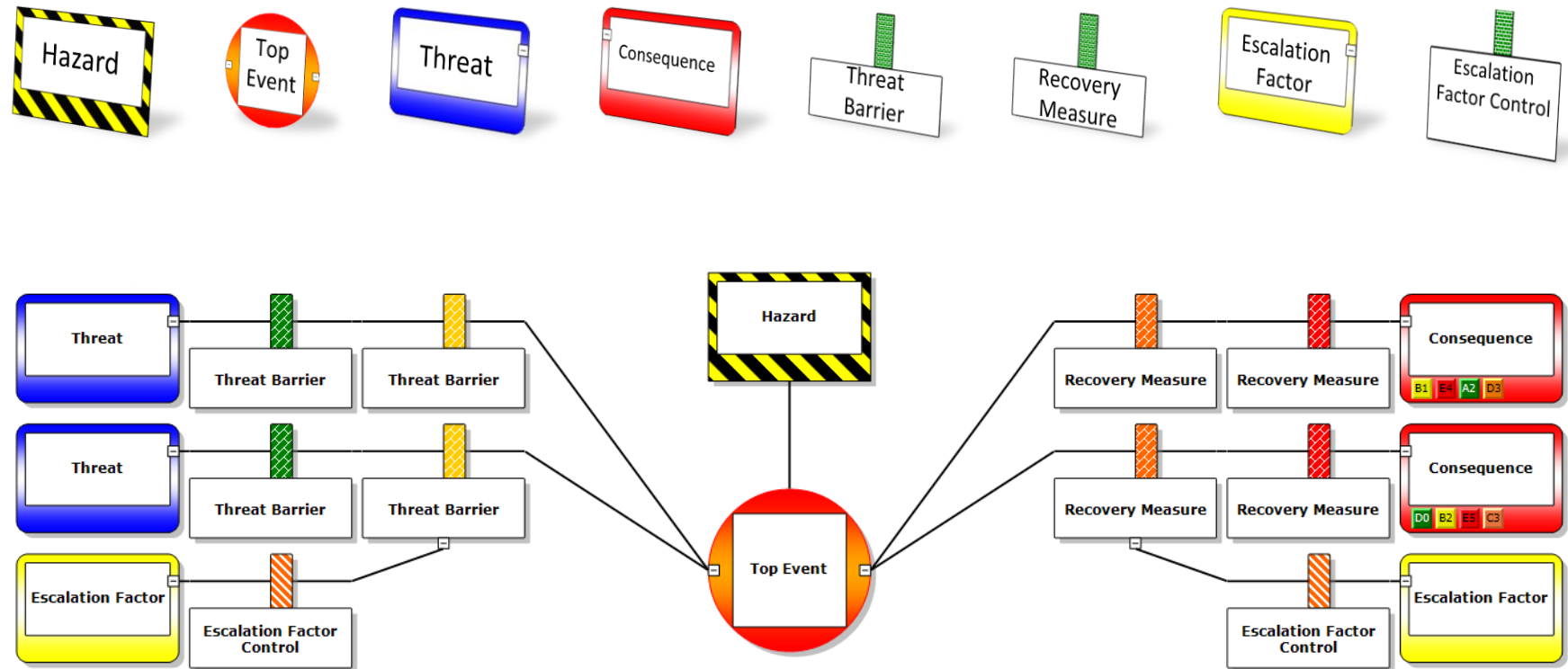
Other

550 organizations | 2400 users



The BowTie method

The BowTie, named after its shape, contains eight elements:
Hazard, Top Event, Threats, Consequences, Preventive Barriers, Recovery Barriers, Escalation (Degradation) Factors and Escalation (Degradation) Factor Controls

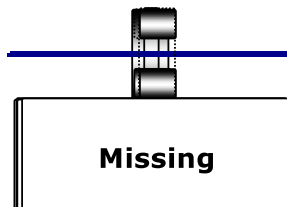
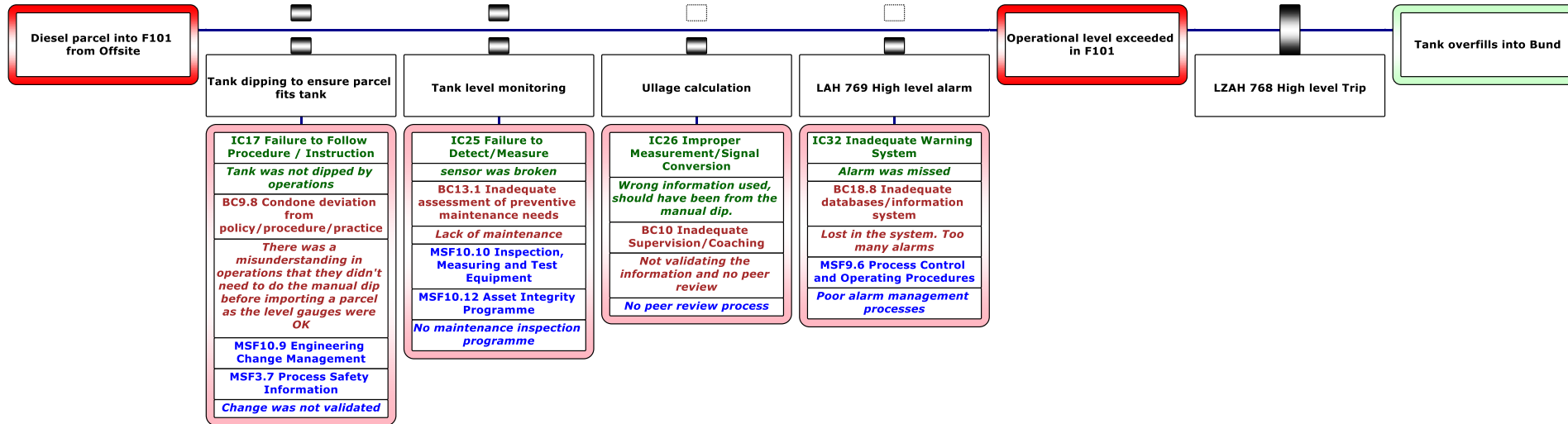


Incidents



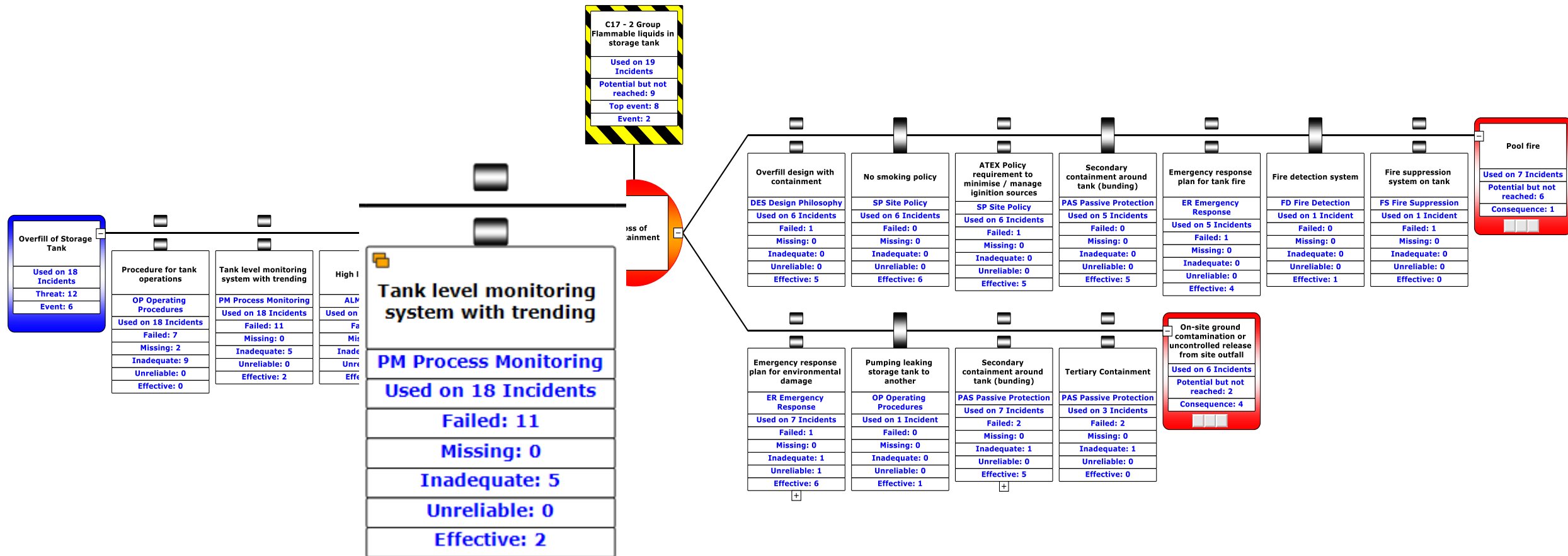
- Incident feedback about a barrier gives that real world sense on how the barrier has actually performed and what (if anything) failed to do as expected
- Incidents tend to be treated in silos
- No theme trending or collating what multiple incidents mean to an organization
- Lack of bigger picture

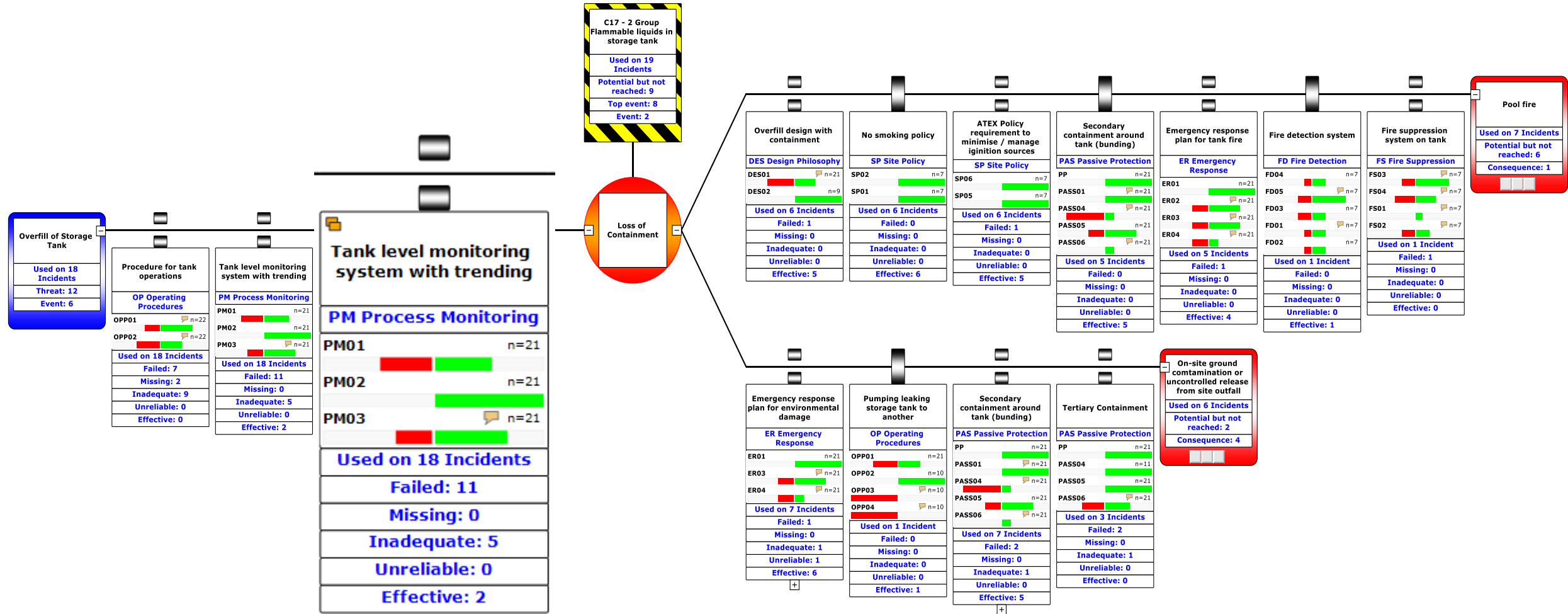
Incident Data



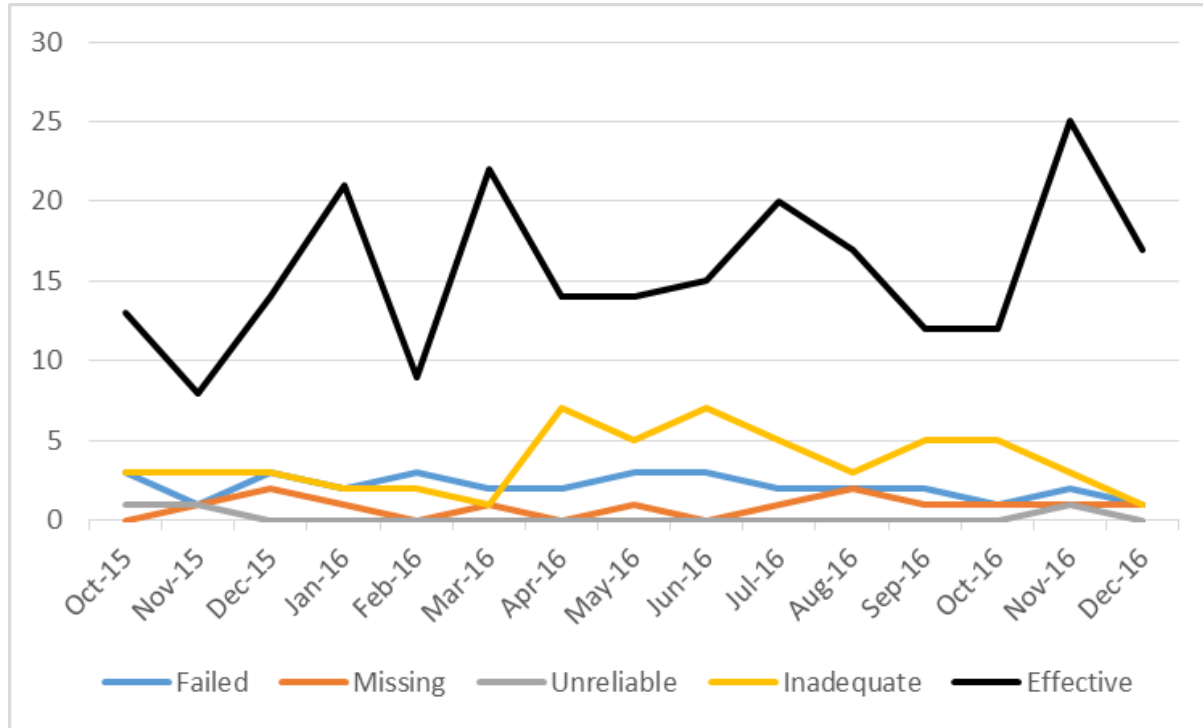
The barrier functioned as intended by its design but The barrier was described in the organization's SMS or was considered an industry standard, but it was not successfully implemented.
e.g. Seatbelt is described in policy and acquired, but it was not yet placed in the vehicle.

Visualising Incident Data

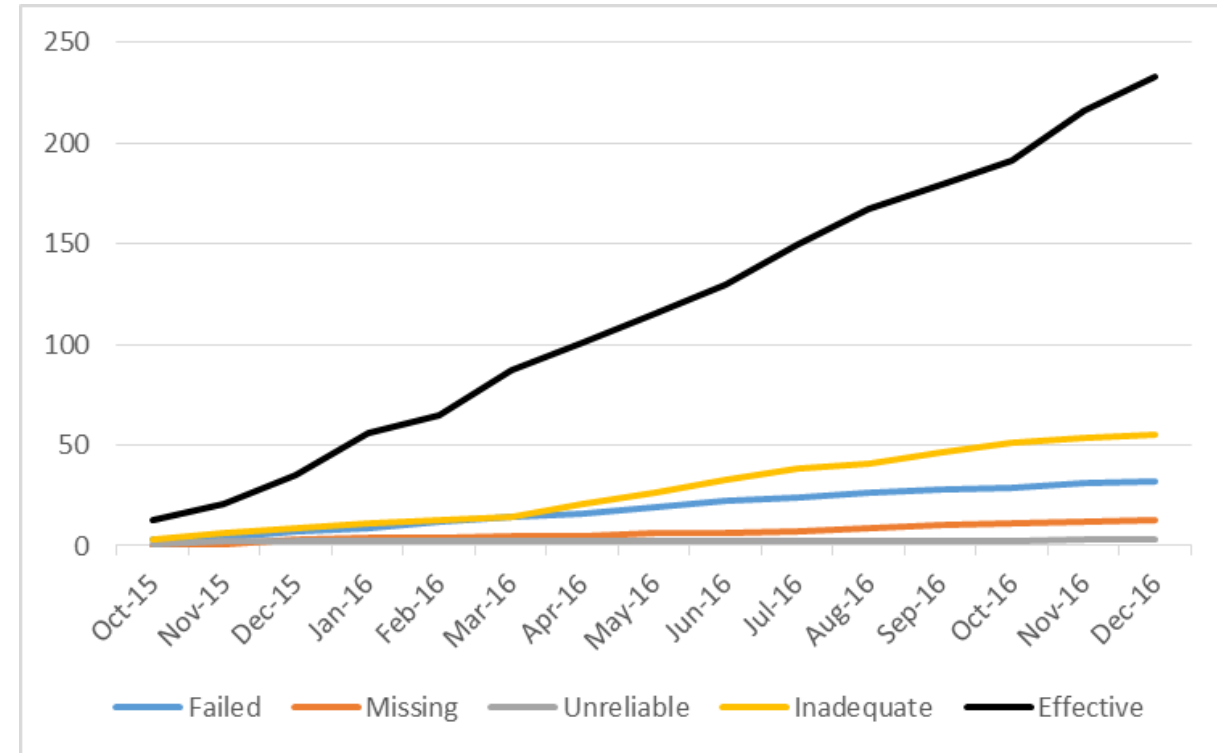




Barrier Performance Trends



SIS Barrier Group performance overview



Accumulated SIS Barrier Group Performance

And finally...

■ *“I have not failed. I've just found 10,000 ways that won't work.”*

– Thomas Edison

■ *“The only real mistake is the one from which we learn nothing.”*

– Henry Ford

■ *“Learn from the mistakes of others - you can never live long enough to make them all yourself.”*

– John Luther (Groucho Marx)

