Euroports (Group HQ, Antwerp-Belgium) - Line of Fire program

mitigating cause/consequence from primary risks in bulk and break bulk handling

the challenge

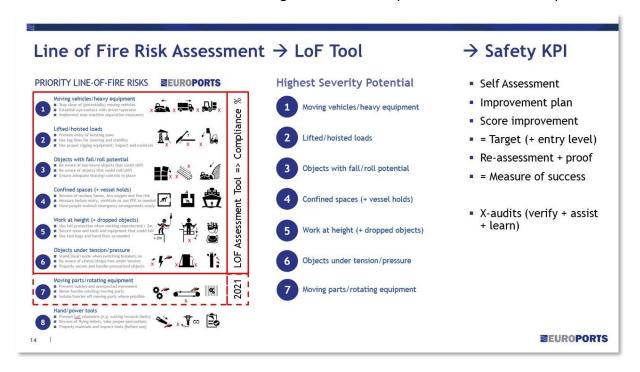
The port environment is far from benign and unfortunately, to this very day has seen its fair share of very serious, life-changing or even fatal accidents. The approximately 50 Euroports locations worldwide have not been exempt from this in the past. There was, and for the foreseeable future - as long as personnel are working in the vicinity of heavy machinery and transport means and/or in the confines of vessel holds and other limited spaces - will remain a clear and urgent need to prevent any harm from happening to these people.

Measures to achieve this should look both at preventing incidents from happening in the first place (left side of the bowtie) and to mitigating the consequences should something happen after all (right side of the bowtie).

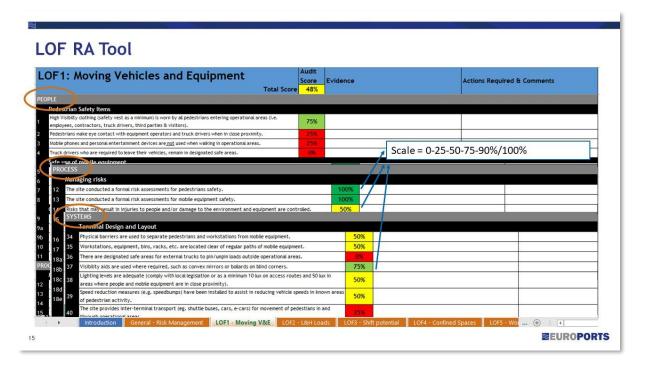
Measures need to be implemented proactively rather than reactively, often following an actual accident or near-miss.

the innovation

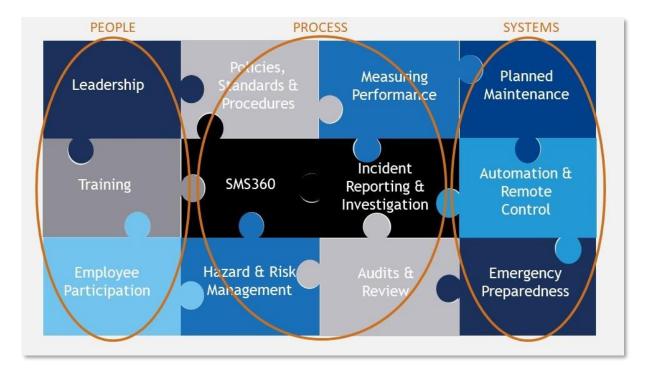
By combining several existing techniques and tools, also from previous experience, a so-called Line of Fire (LOF) program was developed, aimed at mitigating if not completely eliminating either cause or consequence, or both, from primary risks in our bulk and breakbulk handling industry. To determine these primary risks, an analyses was made of severe accidents over the previous 10 years, both within our own company as well as industry wide port operations. This resulted in the identification of 8 high risk areas, 7 of which were assessed to have the potential for accidents with a (near) fatal ending. The resulting program consists of an Excel based self-assessment tool with a scoring used for a safety bonus remuneration system on



the one hand, and a communication and learning campaign on the other. The focus of this submission for the 2023 Safety Award is on the self-assessment tool and use thereof.

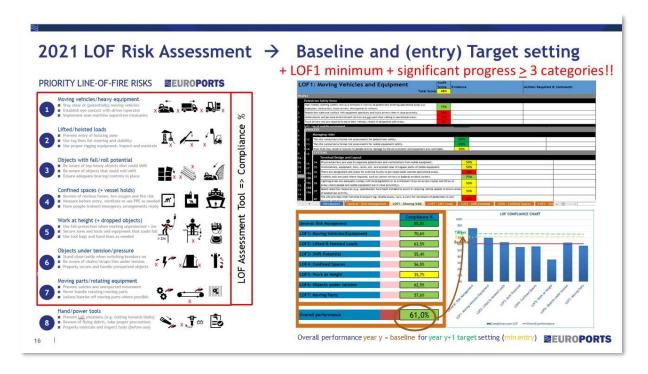


In short, each LOF-category in the tool comes with a myriad of minimum requirements that should be (put) in place to prevent or mitigate risks. The scoring per item can be 0, 15, 50, 75, 90 or 100%, but any element prone to human error may not be scored higher than 90%. The total score per LOF (and 1 general risk management) topic are summarized into one overall, average score being used for target and hence bonus award purposes (see the pictures for a better understanding).



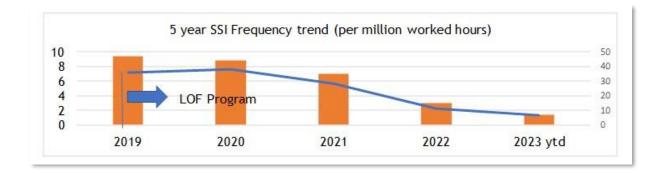
how it was implemented

First the tool was designed around 6 of the mentioned risk areas. After peer consultation and comment rounds approval and support was sought from and given by the company's executive committee. Subsequently a road tour was done throughout the countries to explain the tool to the local management teams. As a result in a next iteration, the 7th risk area was added to the tool. Finally joined sessions were organized with local terminal teams to actively start working with and finally completely filling the tool with applicable compliance scores at the time of implementation. The latter formed the baseline score for the respective locations from which the initial targets were set for the first year. As there is some room for subjectivity in scoring, it was made clear that the tool was not meant for benchmarking but for improvement purposes only. Though primarily a self-assessment tool, the measure of improvement in the score on an annual basis is used for safety bonus renumeration purposes. This is possible because proof needs to be presented for any score increase as per local action plan to the Group QHSE director and these claimed improvements are further validated during an ongoing, peer-audit system with 2 audits a year per entity (1 per year for some smaller ones).



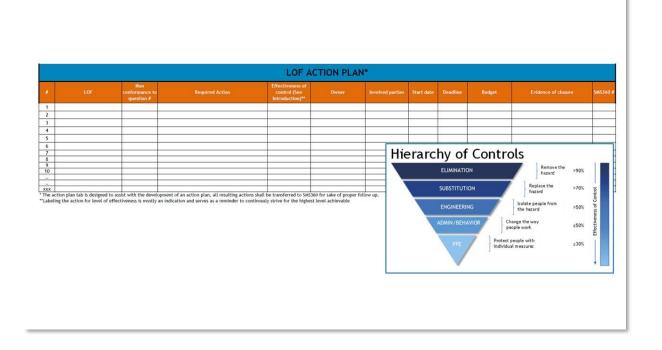
result

Qualitatively speaking, the use of the tool (and matching campaign) had a very positive impact on the pro-active further improvement of safety in our entities. Where before, improvements were primarily driven by corrective actions following lost time incidents or worse, with the implementation of the tool and the need to increase the compliance score to make the year-end target came an ever-increasing proactive mindset to fix things before they go wrong. Quantatatively speaking, the number and frequency of serious safety incidents (accidents or near misses with a life-changing or -ending potential, notably, no fatalities occurred since implementation) declined drastically in the years following implementation (2019).



conclusion

There are undoubtedly more factors that had a positive influence on our companies safety results over the past 4 to 5 years. Ironically, we did see a slight increase in so called lost time injuries (LTI), especially during the Covid-19 period. But overall, the total number of recordable injury incidents also declined. At the same time, we also invested a lot of effort in more and better reporting, initially resulting in an increase of (reported!) incidents. Adding a reward component (previously based on LTI numbers) had a positive impact on the tool's implementation and continued usage over the past 4 years, with matching results.



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