Major Accidents Risk Indicator (MARI)

Collect, calculate, and present Major Accident Risk Indicators

Developed jointly with SAFETEC, The MARI web tool is used to collect input data, calculate and present risk indicators, greatly simplifying the previous process

MARI is based on a set of Man-Technology-Organisation (MTO) indicators to monitor the condition of some predefined Risk Influencing Factors (RIFs) based on an underlying graph model. The tool was first developed by SAFETEC as a simple MS Excel spreadsheet.

Using the Excel spreadsheet version of MARI has been challenging because different users had to input data in the excel file, creating several versions which would get shared over email back and forth and hence making it difficult to maintain a single register of valid information.

Why you need it

There is a word in Norwegian that summarises a spirit of unconditioned accountability: *Påseplikt*, which can translate as "Duty to take care" or "See-to-it duty".

The Petroleum Safety Authority Norway (PSA) uses this very assertive term to emphasise the duty of care that all operating companies on the Norwegian Continental shelf, must assiduously practice in relation to the safety of operations. According to påseplikt, "The operator has a particular duty to see to it that everyone doing work on its behalf complies with the requirements specified in the HSE regulations and carries out its activities in a prudent manner."

The MARI digital tool is now a cloud-native application allowing the operator to monitor and follow-up on the major accident risk position of their installation. The application provides a range of innovative opportunities such as scalability, streamlined visualization, and advanced features that facilitate communication and collaboration which enable a higher degree of interaction between the application and its users.

Some of the key features of MARI tool include:

- ✓ Creating and managing risk identification projects
- ✓ User/role management
- ✓ Risk indicator configuration and tagging
- ✓ Automatic monthly reports with overall trends and KPIs
- ✓ Easy to communicate interfaces and dashboards
- ✓ Traceable audit logs





