

SINTEF Technology and Society, Safety Research

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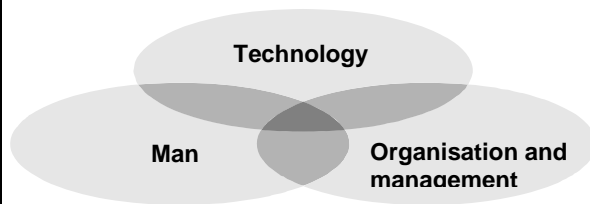
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MTO solutions increases safety



The society is increasingly giving more attention to safety. At the same time, fierce competition is forcing industry to improve productivity by providing more reliable products and services at lower cost.

One of our primary objectives is to provide a better in-depth understanding of how to assess, monitor and control safety and reliability.

This is what we can help you with

- Assess and communicate risk and vulnerability – will the enterprise be able to handle unwanted impacts
- Develop framework for risk-based safety management
- Specify safe work processes
- Analyze how technical, human and/or organizational changes may effect safety
- Develop safe co-operation between different organizational cultures
- Collect and analyze experience data for optimization of maintenance
- Operation- and maintenance analyses
- Evaluate the reliability of instrumented safety systems in compliance with IEC 61508
- Prepare policy for ICT safety management
- Investigate accidents and near-misses
- Analyze availability and vulnerability of critical infra-structure
- Assess safety issues

Competence

We analyze and develop new knowledge on the interaction between people, technology, organization and safety. We develop models, methods, databases and standards for effective and proactive handling of safety and reliability issues.

Our employees have experience in engineering disciplines, mathematical statistics and social science.

Our core competence includes:

- Operating safety and maintenance
- Experience data and data analysis
- ICT safety management
- Human factors, human interaction, and organization
- Reliability of safety critical equipment
- Risk and vulnerability analyses
- Social safety and security
- Safety management
- Accident investigation

Our most important customers are within industry (on- and offshore), transport and governmental administration.

Co-operating partners

We co-operate closely with the university ([NTNU](#)) and specifically with the faculty on risk and vulnerability studies [ROSS](#). Our department is responsible for the user forums [PDS](#) and [CRIOP](#) where users, consultants and researchers meet for mutual development and learning. We have a broad international network. We have developed tools for reliability analysis – [CARA-FaultTree](#), and handbooks on reliability data – [OREDA](#) and [PDS](#).