

Development of Industrial Risk Analysis Information System

TÜBİTAK
The Scientific and
Technological Research
Council of Turkey



 ekodenge



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Objective

The aim of this project was to develop an information system in order to support calculations, hazard scenarios sequence modelling and reporting that is necessary under industrial risk analysis work.

- Mobile access availability
- Multilayer and multi-stakeholder architectural building
- Ability to upload data to the Ministry information system
- Evolutionary Software Development Methodology

Innovative Aspects & Technologies

ERABIS software has a holistic approach that will collect all the risk assessment stages and guide the user from the beginning to the end of the analysis.

Quantitative Risk Analysis

- Holistic data management
- Sectoral accident scenarios and related database support
- Bayes Network infrastructure in probability analysis
- Impact modeling capabilities
- Geographical information systems supported data management and analysis capabilities
- Social risk analysis capabilities

Industrial Data Management

- Web-based and desktop application

Impacts

Under national legislations and international directives (SEVESO III) for decreasing industrial risks that may occur during industrial accidents, all necessary risk assessments, sequence analysis and calculations for their reduction can be carried by facilities with this software.

Ekodenge's Role

- Developing methodologies for risk assessments
- Software needs analysis and system design
- Development of ERABIS software
- Assessment of sectoral applications and their needs assessments

