

SIMEO™ PORT

Context

Field of activity

Maritime and river transport

Characteristics

- Inventory of structures (with technical and strategical characteristics)
- Integration of data from inspections
- Risk analysis of each structure
- Simulations considering varying risk acceptability thresholds
- Automatic generation of action plans (specification and associated cost)
- Accessible via inter- or intranet
- Can manage numerous projects
- Allows different user profiles
- Stores a history of modifications

Technology

- PHP 5 Language
- Respect XHTML CSS standards
- MySQL database

To guarantee and maintain an optimal level of operation of their structures in economic terms, the largest ports and harbours have made the choice to direct the maintenance of their structures with the objective of controlling and managing risks.

This type of approach enables the prioritisation of maintenance work while taking into account both the technical necessity of each risk while also considering other stakes: unavailability for operation, security of structures, and safety of persons.

SIMEO™-PORT software, created and developed by OXAND, is an indispensable tool for all operators who wish to follow this efficient and innovative approach.

Functions

The inventory of the entirety of a group of structures is an undeniably useful tool which is integrated within the software.

SIMEO™-PORT generates a list of potential hazards for each group of structures, which is then quantified for each individual structure.

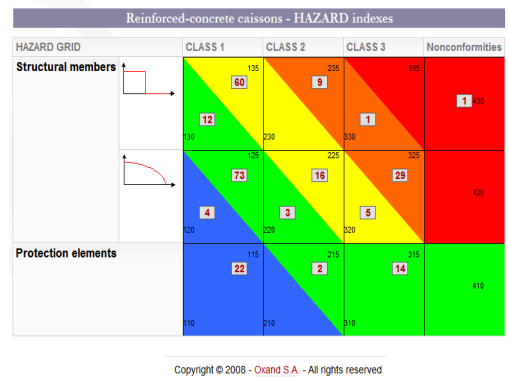
The severity with reference to different stakes and the maintenance options for treating the identified hazards (as well as their costs) are quantified.

The risk index by component and subsequently by structure is calculated to enable the prioritisation of maintenance options in terms of risks.

SIMEO-PORT : A collaborative platform

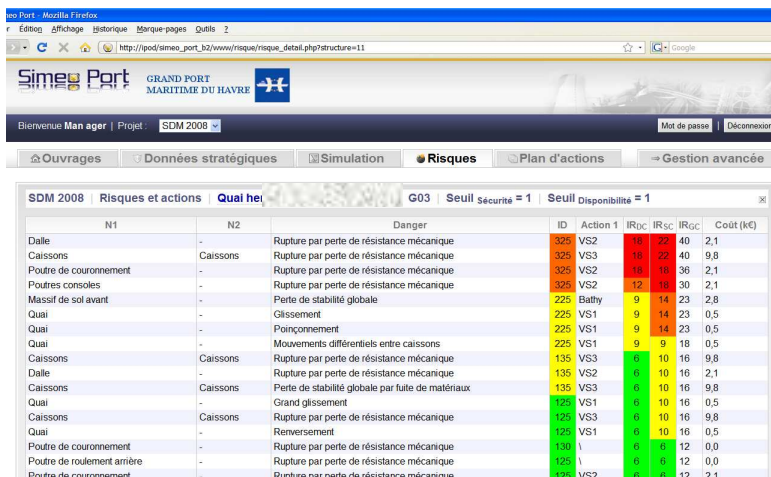
The software is accesible via a simple internet browser. Different user profiles enable access levels to data to be managed.

All modifications are stored in order to ensure total traceability of all actions.



OXAND

Internet : www.oxand.com
E-mail : contact@oxand.com



SDM 2008 Risques et actions		Qual he	G03	Seuil Sécurité = 1	Seuil Disponibilité = 1		
N1	N2	Danger	ID	Action 1	IR _{CC}	IR _{SC}	
Dalle	-	Rupture par perte de résistance mécanique	325	VS2	16	22	40
Caissons	Caissons	Rupture par perte de résistance mécanique	325	VS3	16	22	40
Poutre de couronnement	-	Rupture par perte de résistance mécanique	325	VS2	16	18	36
Poutres consoles	-	Rupture par perte de résistance mécanique	325	VS2	12	18	30
Massif de sol avant	-	Perte de stabilité globale	225	Bathy	9	14	23
Quai	-	Glissement	225	VS1	9	14	23
Quai	-	Poinçonnement	225	VS1	9	14	23
Quai	-	Mouvements différentiels entre caissons	225	VS1	9	9	18
Caissons	Caissons	Rupture par perte de résistance mécanique	135	VS3	6	10	16
Dalle	-	Rupture par perte de résistance mécanique	135	VS2	6	10	16
Caissons	Caissons	Perte de stabilité globale par fuite de matériaux	135	VS3	6	10	16
Quai	-	Grand glissement	125	VS1	6	10	16
Caissons	Caissons	Rupture par perte de résistance mécanique	125	VS3	6	10	16
Quai	-	Renversement	125	VS1	6	10	16
Poutre de couronnement	-	Rupture par perte de résistance mécanique	130	\	6	6	12
Poutre de roulement arrière	-	Rupture par perte de résistance mécanique	125	\	6	6	12
Poutre de couronnement	-	Rupture par perte de résistance mécanique	125	VS2	6	6	12