

Integrated Environmental Control System



The Project

The Berlin based PSI AG has began work on a project to develop together with partners an integrated monitoring and control system to protect against natural and environmental catastrophes. The aim is to provide the overall monitoring of measured environmental data as well as improved catastrophe protection by a holistic view of frequently occurring catastrophic combinations.

The aggregation of various data may be subjected to real-time evaluation for risk analysis and be used for modelling escalation scenarios. In future, this information will soundly support necessary decisions.

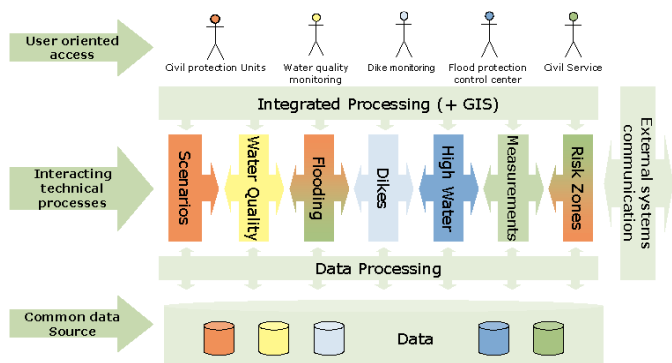
The Setup

The already existing solutions for water level measurements and high water forecasts form together with the components for air supported dike monitoring, for dike breach simulation and for checking the water quality as well as the scenario management an integrated real-time solution. At the same time it provides for harmonising GIS and alarm systems.

The System

PSI's Environment Control System integrates:

- Water quality system from our business partner 3s
- Dike monitoring system Scandat
- System for overflow simulation after dike breach and marking of risk zones by GFZ Potsdam
- System for simulation and scenario management by Fraunhofer IPK



Integrated Environmental Control System by sections

On the one hand the control system connects the processes initiated by each of the external systems, on the other hand it supports the user by visualising a suitable combination of technical and geo data when tracing and controlling these processes.

The environmental control system makes the centrally provided information and functions on the interacting technical processes decentrally available. Users in different organisations and with various responsibilities obtain a view suitable to their purposes.

Added Value by the integrated Environmental Control System

- Functionality provided regardless of site and organisation
- Data and information available for all participating organisations without special access requirements
- A common up-to-date information base is shared for all work
- Communication among organisations is supported
- Already existing applications are integrated
- A control system that understands dedicated work sharing and supports and links processes transgressing organisations.
- Components may be used individually
- Costs of components are allocated according to their organisational task

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