INTWIS
Integrated Water Board Information System
The Dutch solution

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Abstract

The Netherlands is a highly populated small country with a high amount of surface water. Water management often means a very precarious balance between fisheries, recreational activities, nature, and transportation. Water management is done by national and regional Water Control Boards. Management of accurate, reliable, complete, and easily accessible water information was often a problem. This information was often analogous, managed by several departments, incomplete, etc. In 1997 five Water Control Boards collaborated to make a product for management of water information. In 1998 the result was INTWIS, an Integrated Water Control Board Information System. INTWIS is based on ArcGIS 9 with an Oracle database. It consists of a basic module for INTWIS management and, by now, thirteen water management supporting modules. Each of these modules has specific functionality and can be integrated with (inter)national coordinating information systems. By now, sixty-six percent of the Dutch Water Control Boards are using INTWIS.
INTWIS

- INTegrall Water Board Information System
- System for registration of all kinds of relevant Water Control Board data
- Both geographic (maps) and administrative data
- Consists of different software components:
  - ArcGIS
  - ArcSDE
  - Oracle
  - Oracle Forms
  - BusinessObjects
Supported Processes

- Water quantity / quality
- Water protection (dikes)
- Cadastral information
- Sewer system data
- Waste water quality
- Wvo permits (law on contamination of surface water)
- Taxes
- Registration of properties
INTWIS

- 10 till 200 end users per Board
- 5 initiative Water Boards
- Currently 17 Boards (66%)
- Use of Aquo (Adventus)
  a integrated logical datamode

- Web connection
- Field connection (ArcPad)
- BusinessObjects reports
- Several boards work with Citrix
The old way: how it was...
The new way: INTWIS
All INTWIS modules are built following DSDM-concepts

- Dynamic Systems Development Method
- Based on best-practices, originated in England
- 9 DSDM principles, the bases of the Method
- Other methods: workshops, timeboxing, prototyping, MoSCoW: must-should-could-won’t haves
With the new IRIS project the south will follow within 3 years.