

THE MIKE CUSTOMISED PLATFORM

Dashboard Manager

WEB-BASED DISSEMINATION OF INFORMATION

The Dashboard Manager provides a fast and flexible way of creating highly customised, web-based digital dashboard solutions for presenting scientific data. The system includes a large repository of generic building blocks that can be combined to form dedicated web pages. The Dashboard building blocks include presentations of:

- time series
- maps
- hydraulic profiles
- gauges
- alarm statuses
- scenario management functionality
- traditional web content (such as labels, image dividers and so on)

All building blocks expose a large amount of possibilities for configuration, styling and connection possibilities between them to form logic in the web pages.

The Dashboard Manager is centered in the web server, on which the web page definitions reside. The web server is either accessed by implementers with the editor for constructing dashboards or by visitors with browsers inspecting the dashboards.

SUMMARY

The Dashboard Manager provides a fast and flexible way of creating highly customised, web-based digital dashboard solutions presenting data.

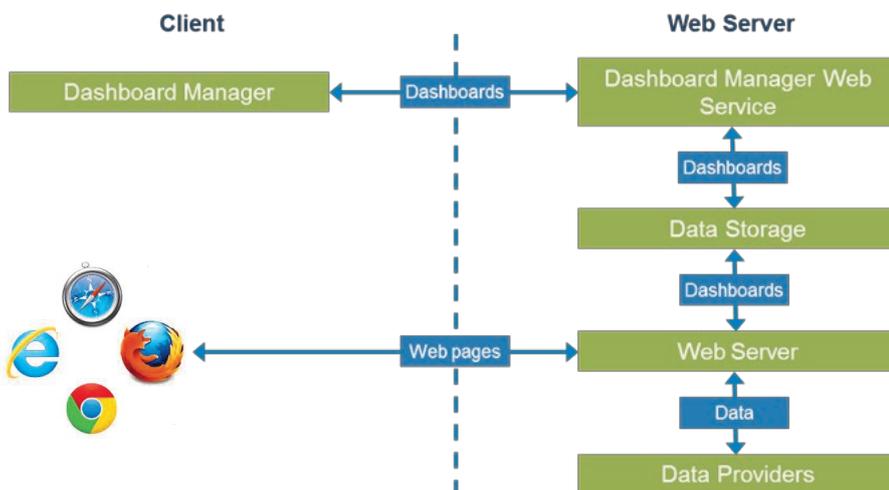
APPLICATION

The Dashboard Manager serves as a web front in many of our information management and decision support solutions for water environments such as:

- Marine modeling forecast results and MetOcean data portal for data visualization and download.
- Dissemination of forecast and early warning data via intra- and internet.
- a user interface for hydropower plant operators to test individual release strategies
- Providing an urban utility company with a web-based overview of their infrastructure and real-time data feeds
- Allow a client to inspect radar-based rainfall data displayed on maps (such as Google maps)
- Urban flooding scenario analysis to be undertaken with flood results being overlaid on maps
- Oil spill analysis with resulting plume animation
- Scenario analysis on diffuser configuration in marine environments

KEY FEATURES

- drag-and-drop objects for producing customised web pages for publishing of scientific data and information
- an implementation framework to allow flexible and fast creation of web pages without any coding
- a standardised development framework that allows software developers to add new components



Interaction between client and web server

The Dashboard Manager has been used in many areas such as water resources, marine and urbanwater for both online as well as offline data. The portals have not only been meant for displaying data, but also for allowing users to perform more in-depth analyses of data or scenarios.

EASY TO USE

The Dashboard Manager is easy to use for implementers and offers intuitive drag and drop functionality for placing building blocks on a Dashboard. The building blocks are subsequently linked together to offer interactive web pages and linked to data to provide content.

The Dashboard Manager is highly extensible. It allows for creation of new building blocks as well as data drivers for connecting to temporal and spatial data sources. The portfolio of existing drivers includes:

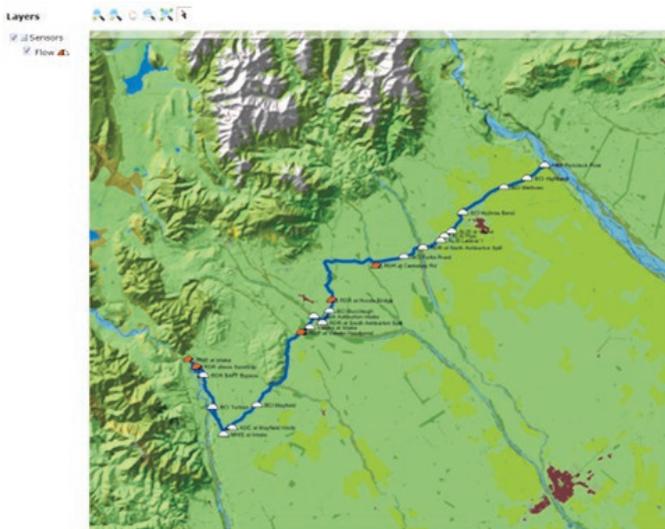
- drivers for DHI systems such as MIKE CUSTOMISED and MIKE by DHI products
- file-based formats such as dfs0, csv and Access

In addition to this, multiple drivers have been created for projects specific systems.

FEATURES

Some of the frequently used building blocks are:

- **WebGIS** This mapping component allows GIS data to be shown on the web. Formats such as shape files, MIKE CUSTOMISED Platform and numerous raster formats are supported. Linking features to data allows the presentation of dynamic data color coding, styling and coupling to other Dashboards.



An example of a WebGIS map displaying gauges on a river section

- **Time series** plot The majority of the data being displayed is temporal and plotting this data plays a major role. All aspects of displaying the data can be configured, such as colours, data formatting and so on.

- **Animation Control** Often, when data is two-dimensional (2D), it is displayed either as images or overlaid on top of WebGIS or Google Maps. If the data is time-varying, animation control provides the ability to navigate the animation
- **Menu** An example of a layout-oriented building block, that provides easy-to-configure menu formation. The menu items are configured in a hierarchical structure, where each item can be linked to other parts of the web portal and also be dependant on the user credentials

Other features of the Dashboard Manager include:

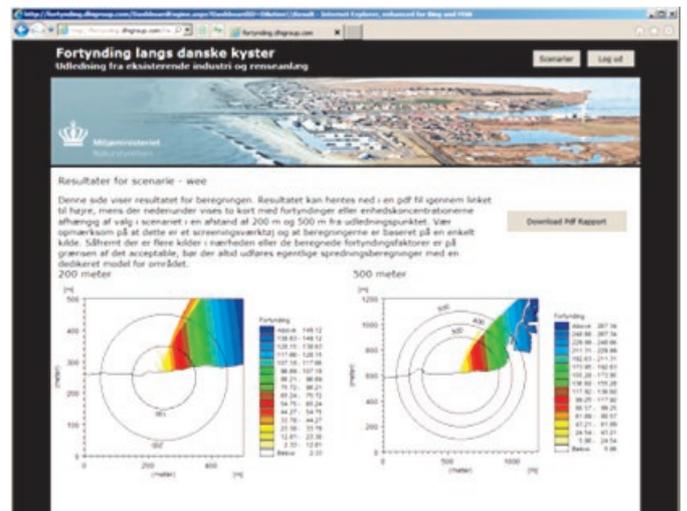
- **User Management** It is easy to restrict Dashboard access by applying either the inbuilt user authentication or linking to other DHI systems through drivers to provide external authentication
- **Scripting** Any project-specific requirement for data manipulation before display can easily be handled by scripting
- **Localisable** All building blocks can be easily localised to any language or project requirement

SCENARIO MANAGEMENT

The scenario management capabilities allow users to:

- login to a web portal
- create scenarios
- modify aspects of the scenario such as time series
- analyse input parameters or output configuration through the web page

The scenario execution is performed and distributed through the intranet, internet or in the cloud. It is followed by result inspection as well as scenario comparison, where the configured Dashboards focus on the specific problems that the project seeks to solve.



An example of marine diffusor analysis

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