

## INTRODUCTION TO A POLICY FRAMEWORK FOR THE APPLICATION OF PLANNING AND MANAGEMENT TOOLS

### INTRODUCTION

The increasing global imbalance between the demand and availability of clean water is at the top of the international agenda. A consensus on fundamental principles for Integrated Water Resources Management (IWRM) was reached in 1992. The Millennium Declaration was approved by all the members of the United Nations in September 2000. The declaration contains the vision on a much improved world by 2015 where, amongst others, access to water is greatly improved as well as health conditions and the sustainability of the environment is ensured. All the United Nations agencies (UNEP, UNESCO, FAO, ILO, UNDP, UNICEF, UNIFEM, IFAD, WB, etc.) are committed to the MDGs and within their sphere of competence are contributing to them. The principles of the cross-sectoral approach of IWRM are widely accepted as contributing significantly to achieving the MDGs. The 3-day course provides water professionals with an enhanced ability to formulate, analyse and implement water policies, plans and programmes within an Integrated Water Resources Management framework. The course focuses on tools to implement IWRM – the enabling environment, institutional roles and management instruments. Within management instruments there is emphasis on modelling tools (e.g. MIKE BASIN), decision support tools and simulation tools. The requirements from Climate Change, vulnerability and risk management are considered and international cases studies and lessons are drawn upon.

### COURSE CONTENTS

- IWRM – concepts, principles and approaches – Water policy and legislation (the game plan) – Institutional roles (the players) – Management Instruments (the tools)
- Tools overview - use of the Global Water Partnership Toolbox. International cases studies and lessons learned
- Tools for integrating water allocation, including environmental flow allocations, for integrated water resources planning and management
- Tools for modelling and managing water extremes (including rainfall/runoff varieties) under climate change scenarios
- Using IWRM to deal with Climate Change
- Reduction of vulnerability and risk management in an IWRM perspective
- How to take the principles from IWRM into modelling tools like MIKE BASIN

### TARGET GROUP

The course is designed for professionals working within water resources planning and management, including risk management and climate change adaptation.

The professionals who are primarily working with water resources modelling get insight into the IWRM policy framework within which to apply the modelling results. Those who are primarily working within planning get knowledge on IWRM and modelling, which allows them to communicate, cooperate and draw advantages from modelling results. Participants are expected to have a background in water resources or hydrology or climate change with emphasis on water. This specific IWRM course is specially developed to link the theoretical principles of IWRM to modelling tools (e.g. MIKE BASIN).

### COURSE STRUCTURE

The course combines lectures, presentations and hands-on exercises. The training encourages dialogue and interaction amongst the participants.

### RELATED COURSES

- *'MIKE BASIN - River Basin Modelling'*
- *'Water Quality Management'*

Please consult our Course Calendars for course dates of these courses:

[www.dhigroup.com/Training/SolutionCourses/SolutionCourseCalendar.aspx](http://www.dhigroup.com/Training/SolutionCourses/SolutionCourseCalendar.aspx)  
[www.mikebydhi.com/Training/Globalcoursecalendar.aspx](http://www.mikebydhi.com/Training/Globalcoursecalendar.aspx)

### WHAT IS INCLUDED?

- Access to PC with all required software for the duration of the course
- Latest MIKE Software Demo Version
- Training material and exercises
- Lunch and refreshments during the training days
- 'Training Certificate'

**COURSE DATES**

Upon request

**LOCATION**

Upon request

**NUMBER OF PARTICIPANTS**

5 (min) – 12 (max)

**COURSE FEE**

Standard price: € 1490

**COURSE LANGUAGE**

English (or other language upon request). All course material will be provided in English

**INSTRUCTORS**

Jan Hassing is a senior policy adviser and has, during his more than 35 years of professional assignments, thoroughly developed his expertise in water resources management and development, IWRM and the associated policy and institutional aspects. Recently, he has applied his policy level expertise within such areas as environmental flows, climate change and extreme events, risks, vulnerability and adaptation. He is the technical manager of the Global Water Partnership's ToolBox. Presently Jan Hassing is advising the Government of Uganda on operationalisation of IWRM principles in catchment management zones, supporting the general decentralisation policy.



Børge Storm is heading the water resources software products of DHI's Software Product Department. With more than 25 years of experience, Børge Storm has been responsible for many types of water management projects in Europe, United States, Asia, Australia and Africa dealing with various aspects of water resources assessments, river basin management and planning, integrated surface water-groundwater modelling, irrigation, watershed management, and environmental impact of industrial and agricultural pollution of surface and groundwater.

**FURTHER INFORMATION**

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