



SCREENING OF URBAN FLOOD RISK

Cost-effective mapping of urban flood risk using MIKE 21 Flood Screening Tool (FST)

In this one-day course you will learn to apply a methodology (using MIKE 21 FST) by which only the surface runoff of the excess part of the rainfall volume is modelled. This enables you to map large geographic areas with limited time and effort. The course includes a step-by-step review of the modelling approach - from initial DEM processing to result presentation as well as hands-on exercises.

Mapping the effects of extreme rain events can be time consuming and thereby costly if models of storm water systems for entire cities are to be established. In many cases, necessary information on the geometry of pipes and gullies is also unavailable. During an extreme rain event, only a limited portion of the rain volume is gathered by the existing storm water system or has time to infiltrate.

Floods caused by extreme rain events are an increasing problem for cities of all sizes world-wide. Densifying of urban developments and climate change are stress factors which increase the pressure to deal with the problems. Pluvial flooding and climate change are new topics on most city planners' agendas.

COURSE TOPICS

- Introduction to pluvial flooding
- Overview of pluvial flood modelling tools and techniques - advantages and disadvantages
- Data need and their use
- Processing and preparation of digital elevation model (DEM)
- Case studies
- Result presentation
- Mapping flood risks, values and economic costs related to flooding
- Strategies to manage surface runoff within existing and planned developments
- Hands-on exercises with MIKE 21 FST

TARGET GROUP AND PREREQUISITES

Professionals who work with city planning, climate change, risk assessment and software tools for flood management in municipalities, regional organisations, water supply and sewage companies. Priority is given to participants with computer modelling experience. It is preferable but no condition that participants have knowledge of MIKE 21 and ArcGIS.

THE ACADEMY BY DHI

THE ACADEMY offers a palette of courses and capacity building packages designed to fit your needs and challenges. We offer standard and/or tailored training - face-to-face as well as tailored.

MIKE Powered by DHI courses focus on practical skills, hands-on exercises and teaching you how to get the most out of your software. These courses also enable you to understand the power of the MIKE tools for building decision support systems.

Thematic courses allow you to apply concepts, applications and decision support principles to the entire business process within current areas: aquaculture and agriculture, energy, climate change, flooding, coast and marine, surface and groundwater, urban water, industry, environment and ecosystems, product safety and environmental risk, etc.

Our trainers are experienced professionals, many of whom are recognised international experts in their fields. The use of highly skilled trainers guarantees the quality of THE ACADEMY courses.

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