

# Actively manage risks with more insightful predictions of hydrological events and their consequences

## Flood & Drought

Do you want access to deeper insights on the potential impacts of extreme weather events?

Would you like to receive alerts and communicate risks using the latest technologies?

Do you want to make data driven decisions on how to prioritise, justify and target investments?

As the frequency of extreme hydrological events increases, societies need to be prepared and ensure they are resilient and capable of adapting to natural hazards now and in the future. This requires a deeper level of insight as to the potential impacts of extreme events on both the economy and population. By quantifying risks, deploying robust analytical tools and reliable forecasting techniques, you can drive action by designing optimal portfolios of mitigation, response and risk transfer measures.

## Services & Solutions

DHI helps bridge the gap between assessing risks and making risk-informed decisions. We rely on advanced modelling technology, artificial intelligence and Model Predictive Control to analyse, forecast and communicate hydrological hazards and risks to stakeholders who need to prioritise, justify and target investments. But we do not stop there. Our technologies allow you to understand the benefits of your investments, re-adjust and transfer residual risks to private markets.

- **Capture flood hazards in all its dimensions**
- **Seamlessly quantify impacts**
- **Design interventions and evaluate adaptation pathways**
- **Disseminate reliable alerts**
- **Optimise river infrastructure operations in real-time**
- **Transfer residual risks through parametric insurance**

## Core technology

**MIKE+** - Perform dynamic flood analysis with this intuitive and flexible modelling software platform.

**Flood Metrics** - Access satellite-based flood products and Digital Elevation Models from a single portal.

**ClimADAPT** - Analyse future flood risks and design cost-effective adaptation strategies with this desktop application.

**FloodRisk** - Produce dynamic flood maps in the cloud to support flood protection planning

**MIKE OPERATIONS** - Build custom systems for data management, real-time forecasting and control.

**Model Predictive Control** - Optimise the operation of your water system with automated real-time control.

**NatCatEye** - Monitor extreme weather indices and operate parametric insurance anywhere with this cloud-based application.



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