Water Management in Thailand

Past experiences and future challenges

Oluf Z. Jessen Head of Projects, Water Resources ozj@dhigroup.com





Topics

- Water resources at DHI
- Water Management in Thailand
- Water Management in the future
- Questions...





DHI in a nutshell

We're an independent, private and not-for-profit organisation



Our people are highly qualified 80% of our 1,100 employees hold an MSc or a PhD degree



Our knowledge represents 50 years of dedicated research 21% of our resources are allocated to R&D to enhance our knowledge and innovation



We make this knowledge globally accessible through our local teams and unique software



DHI in Thailand

After the October 2011 flood the Thai government assigned DHI to assist HAII in developing a modern Decision Support and Flood Forecasting System under the National Hydro Informatics Data Center

framework





Collaboration with HAll

- Capacity building and training by international experts with extensive experience in flood and water resource issues
- Transfer of technology for flood modelling, water resource assessment and decision support

Objective: build and maintain local experience and knowledge of the highest level within the areas of flood and water resources assessment





Water Management - Examples

Manage, organise and analyse large amounts of **data**

Improved information management in the Lake Victoria Basin





Get the full benefit of real-time **monitoring** & early-warning systems



Early warning and forecast system in Slovenia

Make wise and robust water management **decisions**

Sharing water resources fairly in the Nile river basin





Optimise operations and planning



Optimised river operations in New South Wales, Australia

Water management across time scales











Water Management - Solutions

Providing the best basis for sound decisions







© DH

Optimised real-time control of river and reservoir systems

- Reduce flood risk
- · Optimise water use and minimise spills
- Meet regulatory requirements on water quantity and quality
- Reduce costs of new water infrastructure





More hydropower



Efficient water use





Reduced costs







Water Management in Thailand...in the coming years

Water Resources Management at national, provincial and local level (Office of National Water Resources)

Drought forecasting and management

Operational Decision Support System supporting water management seamlessly across time scales

Data and engines as **operational services** in the cloud







Water Management – Floods & Drought project



www.flooddroughtmonitor.com

To get started with the tools right now, register for free by visiting www.flooddroughtmonitor.com

For more information, contact

DHI, Oluf Zeilund Jessen ozj@dhigroup.com IWA, Katharine Cross katharine.cross@iwahq.org

Or learn more at

fdmt.iwlearn.org







